PATHWORKS for VMS



PATHWORKS for VMS

Server Administrator's Commands Reference

Order Number: AA-PAGUD-TK

August 1991

Revision/Update Information:

This document supersedes Server Administrator's Commands Reference, Version 4.0, order number AA-PAGUC-TK.

Software Version:

PATHWORKS for VMS Version 4.1 or higher

Digital Equipment Corporation Maynard, Massachusetts

First Published, January 1991 Revised, August 1991

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Purpose

This manual describes:

- PCSA Manager commands
- PCDISK commands
- LAST control program commands

Audience

This manual is written for advanced users and system administrators who have privileges on VMS servers.

Organization

The following table can help you find information in this manual.

Chapter 1	Describes the PCSA Manager commands
Chapter 2	Describes the PCDISK commands
Chapter 3	Describes the ESS\$LASTCP commands

Conventions Used

This manual uses the following conventions:

Convention	Meaning
Ctrl/x	While you hold down the Ctrl key, press another key or a pointing device button.
Ctrl/Alt/Del	While you hold down the Ctrl and Alt keys, press the Delkey.
Esc x	Press the Esc key, release it, and then press another key or a pointing device button.
Return	Press the key that executes commands or terminates a sequence. This key is labeled Return, Enter, or ←, depending on your keyboard.
"enter"	Type all required text, spaces, and punctuation marks; then press Return, Enter, or ↔, depending on your keyboard.
MB1, MB2, MB3	MB1 indicates the left mouse button, MB2 indicates the middle mouse button, and MB3 indicates the right mouse button. (The buttons can be redefined by the user.)
UPPERCASE	In VMS, DOS, and OS/2 syntax, uppercase letters indicate commands and qualifiers. You can enter commands and qualifiers in any combination of uppercase or lowercase, unless otherwise noted.
	ULTRIX commands are case-sensitive. You must enter commands in the correct case, as printed in the text.
lowercase	Lowercase letters in VMS, DOS, and OS/2 syntax indicate parameters. You must substitute a word or value, unless the parameter is optional.
teal blue type	In examples of dialog between you and the system, teal blue type indicates information that you enter. In online (Bookreader) files, this information appears in boldface.
boldface	Boldface type indicates a new term that appears in the glossary. In online (Bookreader) files, boldface indicates information you enter.
kp <i>n</i>	Press the specified key on the numeric keypad of your keyboard.

Convention	Meaning
two-line commands	In VMS commands, a hyphen (-) at the end of a command line indicates that the command continues to the next line. If you type the hyphen and press Return, the system displays the _\$ prompt at the beginning of the next line. Continue entering the command. If you do not type the hyphen, VMS automatically wraps text to the next line.
	In ULTRIX commands, a backslash ($\$) performs the same function.
	In DOS and OS/2 commands, no character is used at the end of the first line; DOS automatically wraps text. Enter the complete command, then press Return at the end of the command.
[]	Square brackets in command descriptions enclose the optional command qualifiers. Do not type the brackets when entering information enclosed in the brackets.
/	A forward slash in command descriptions indicates that a command qualifier follows.
I	A vertical bar in command descriptions indicates that you have a choice between two or more entries. Select one entry unless the entries are optional.
	A horizontal ellipsis following an entry in a command line indicates that the entry or a similar entry can be repeated any number of times. An ellipsis following a file name indicates that additional parameters, values, or information can be entered.
	A vertical ellipsis in an example indicates that not all the data is shown.
NOTE	Notes provide information of special importance.

Terminology

The terms "personal computer" (PC) and "PC workstation" refer to standalone systems. The term "client" refers to a PC, connnected to the network by PATHWORKS software, that can access resources on a server. A server is a system that offers services to clients.

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1 PCSA Manager

You can use the PCSA Manager commands and the PCSA Manager menu to manage the disk server, the file server, and services. This chapter describes each command, shows the command's format, and gives an example of its use. The commands are presented in alphabetical order.

To start the PCSA Manager from DCL, enter:

```
$ ADMINISTER/PCSA
PCSA_MANAGER>
```

You can abbreviate (to the smallest set of unique characters) "ADMINISTER/PCSA" by entering:

\$ ADMIN/PC

The PCSA Manager prompt is displayed:

PCSA MANAGER>

You can issue commands at the PCSA Manager prompt.

You can also issue PCSA Manager commands from DCL by typing ADMIN/PC before the command. For example, to issue the SHOW FILE_SERVER SESSIONS command from DCL, enter:

\$ ADMIN/PC SHOW FILE_SERVER SESSIONS

You can also use PCSA Manager commands in VMS batch files.

Table 1–1 lists the PCSA Manager commands.

Table 1–1 PCSA MANAGER Commands

Use this command	If you want to
ADD GROUP	Add a group
ADD MEMBER	Add members to a group created using the ADD GROUP command

Use this command	If you want to
ADD NODE	Add a workstation or server to the DECnet database
ADD SERVICE/DIRECTORY	Add a file service
ADD SERVICE/PRINTER	Add a print service
ADD TEMPLATE	Add a template for remote boot workstations
ADD USER	Add a PCSA user environment
ADD WORKSTATION	Add a Version 2.2 workstation to a Version 4.0 server
BROADCAST	Send messages to clients
CLOSE FILE_SERVER FILE	Close a file
CONFIG	Confirm the current configuration o the file server
CREATE DISK	Create a virtual disk
DELETE DISK	Delete a virtual disk
DENY	Deny a user access to a file or print service
DENY/GROUP	Deny a group of users access to a fill or print service
DISMOUNT DISK	Dismount a virtual disk
EXIT	Exit the PCSA Manager and return to DCL
GRANT	Grant a user access to a service
GRANT/GROUP	Grant a group of users access to a service
HELP	Obtain help for the PCSA Manager commands
MENU	Use the Menu interface
MODIFY DISK	Modify the virtual disk allocation size, or file type

Table 1–1 (Cont.) PCSA MANAGER Commands

Table 1–1 (Cont.) PCSA MANAGER Commands		
Use this command	If you want to	
MODIFY USER	Modify a user's AUTOUSER.BAT file	
MODIFY WORKSTATION	Change the hardware address or Ethernet adapter of a workstation; or the comment in the remote boot database or the VAX adapter that services remote boot requests	
MOUNT DISK	Mount a virtual disk	
REMOVE CLIENT_OS	Remove a client operating system	
REMOVE GROUP	Remove a group (that was created with ADD GROUP)	
REMOVE MEMBER	Remove a member (that was created with ADD MEMBER) from a group	
REMOVE NODE	Remove a workstation or server from the DECnet database	
REMOVE SERVICE	Remove a file server directory or printer service entry from the service database	
REMOVE TEMPLATE	Remove a remote boot template	
REMOVE USER	Remove a user environment	
REMOVE WORKSTATION	Remove the network key disk for the workstation and disable remote boot	
SET DISK_SERVER CHARACTERISTICS	Change disk server characteristics	
SET DISK_SERVER SERVICE	Change disk service characteristics	
SET FILE_SERVER CHARACTERISTICS	Change file server characteristics	
SET FILE_SERVER SERVICE	Change filer service characteristics	
SHOW CLIENT_OS	List client operating systems	
SHOW DISK_SERVER CHARACTERISTICS	Display disk server characteristics	
SHOW DISK_SERVER CONNECTIONS	Display active disk service connections	
SHOW DISK_SERVER COUNTERS	Display cache counters for disk server	

Table 1–1 (Cont.) PCSA MANAGER Commands

Table 1-1 (Cont.) FCSA MANAGEN Commands		
Use this command	If you want to	
SHOW DISK_SERVER SERVICES	Display disk services	
SHOW FILE_SERVER CHARACTERISTICS	Display file server characteristics	
SHOW FILE_SERVER CONNECTIONS	Display active file service connections	
SHOW FILE_SERVER COUNTERS	Display file server caching statistics	
SHOW FILE_SERVER OPEN_FILES	Display open files in file and printer services	
SHOW FILE_SERVER SERVICES	Display active file and print services	
SHOW FILE_SERVER SERVICES/AUTHORIZED	Display authorized file and print services	
SHOW FILE_SERVER SERVICES/REGISTERED	Display registered file and print services	
SHOW FILE_SERVER SESSION	Display active file service sessions	
SHOW FILE_SERVER STATUS	Display file server status	
SHOW GROUP	Display the members in a group	
SHOW TEMPLATES	List templates for remote boot workstations	
SHOW USERS	List registered users created with PCSA	
SHOW VERSION	Display the current version numbers for the VMS server	
SHOW WORKSTATIONS	List workstations that remote boot	
START DISK_SERVER CONNECTIONS	Start the disk server	
START FILE_SERVER CONNECTIONS	Initiate the file server to accept connections	
START FILE_SERVER LOGGING	Log server events	
STOP DISK_SERVER CONNECTIONS	Stop the disk server	

Table 1–1 (Cont.) PCSA MANAGER Commands

Table 1–1 (Cont.) PCSA MANAGER Commands

Use this command	If you want to
STOP FILE_SERVER CONNECTIONS	Stop file server connections
STOP FILE_SERVER LOGGING	Stop logging server events
STOP FILE_SERVER SESSION	Stop a file service session
ZERO DISK_SERVER COUNTERS	Reset the disk counters

You can abbreviate the PCSA Manager commands to their shortest unique form.

Table 1–2 lists the PCSA Manager commands and the transports where they run.

Command	DECnet	t TCP/IP
ADD GROUP	Yes	Yes
ADD MEMBER	Yes	Yes
ADD NODE	Yes	No
ADD SERVICE/DIRECTORY	Yes	Yes
ADD SERVICE/PRINTER	Yes	Yes
ADD TEMPLATE	Yes	No
ADD USER	Yes	Yes
ADD WORKSTATION	Yes	No
BROADCAST	Yes	No
CONFIG	Yes	No
CLOSE FILE_SERVER FILE	Yes	Yes
CREATE DISK	Yes	Yes
DELETE DISK	Yes	Yes
DENY	Yes	Yes
DENY/GROUP	Yes	Yes
DISMOUNT DISK	Yes	Yes

Table 1–2 Manager Commands and Supported Transports

Command	DECne	t TCP/IP
EXIT	Yes	Yes
GRANT	Yes	Yes
GRANT/GROUP	Yes	Yes
HELP	Yes	Yes
MENU	Yes	Yes
MODIFY DISK	Yes	No
MODIFY USER	Yes	No
MODIFY WORKSTATION	Yes	No
MOUNT DISK	Yes	Yes
REMOVE CLIENT_OS	Yes	Yes
REMOVE GROUP	Yes	Yes
REMOVE MEMBER	Yes	Yes
REMOVE NODE	Yes	No
REMOVE SERVICE	Yes	Yes
REMOVE TEMPLATE	Yes	No
REMOVE USER	Yes	No
REMOVE WORKSTATION	Yes	No
SET DISK_SERVER CHARACTERISTICS	Yes	Yes
SET DISK_SERVER SERVICE	Yes	Yes
SET FILE_SERVER CHARACTERISTICS	Yes	Yes
SET FILE_SERVER SERVICE	Yes	Yes
SHOW CLIENT_OS	Yes	No
SHOW DISK_SERVER CHARACTERISTICS	Yes	Yes
SHOW DISK_SERVER CONNECTIONS	Yes	Yes
SHOW DISK_SERVER COUNTERS	Yes	Yes
SHOW DISK_SERVER SERVICES	Yes	Yes
SHOW FILE_SERVER CHARACTERISTICS	Yes	Yes

 Table 1–2 (Cont.)
 Manager Commands and Supported Transports

Table 1–2 (Cont.) Manager Commands and Supported Transports		
Command	DECnet	TCP/IP
SHOW FILE_SERVER CONNECTIONS	Yes	Yes
SHOW FILE_SERVER COUNTERS	Yes	Yes
SHOW FILE_SERVER OPEN_FILES	Yes	Yes
SHOW FILE_SERVER SERVICES/ACTIVE	Yes	Yes
SHOW FILE_SERVER SERVICES/AUTHORIZED	Yes	Yes
SHOW FILE_SERVER SERVICES/REGISTERED	Yes	Yes
SHOW FILE_SERVER SESSIONS	Yes	Yes
SHOW FILE_SERVER STATUS	Yes	Yes
SHOW GROUP	Yes	Yes
SHOW TEMPLATES	Yes	No
SHOW USERS	Yes	No
SHOW VERSION	Yes	Yes
SHOW WORKSTATIONS	Yes	No
START DISK_SERVER CONNECTIONS	Yes	Yes
START FILE_SERVER CONNECTIONS	Yes	Yes
START FILE_SERVER LOGGING	Yes	Yes
STOP DISK_SERVER CONNECTIONS	Yes	Yes
STOP FILE_SERVER CONNECTIONS	Yes	Yes
STOP FILE_SERVER LOGGING	Yes	Yes
STOP FILE_SERVER SESSION	Yes	Yes
ZERO DISK_SERVER COUNTERS	Yes	Yes

Table 1–2 (Cont.) Manager Commands and Supported Transports

ADD GROUP

Purpose

This command creates a new group where you can add members later.

Command Support

This command runs under the supported transport.

Guidelines

You must create a group before you can add members to it.

You cannot create the group PUBLIC.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

ADD GROUP groupname

Parameters

groupname Is the name of the group you want to create. Groupname cannot exceed 10 characters, and can contain alphanumeric characters and the following:

\$ % ; - _ @ { } ~ ` ! # ()

Qualifiers

None

Example

You want to create the group WRITERS. Enter the following command:

```
PCSA_MANAGER> ADD GROUP WRITERS %PCSA-I-GROUPCRE, created group WRITERS
```

Related Commands

ADD MEMBER, REMOVE GROUP

Related Menu Item

User Options Group Options Create a Group

ADD MEMBER

Purpose

This command adds members to a group created using the ADD GROUP command.

Command Support

This command runs under the supported transport.

Guidelines

You must create a group before you can add members to it.

You cannot add members to the group PUBLIC.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

ADD MEMBER memberlist groupname

Parameters

memberlistIs a list of user names separated by commas. Each user name
must be a valid user authorization file (UAF) entry.groupnameIs the name of the group where you want to add members.
Groupname cannot exceed 10 characters, and can contain
alphanumeric charactes and the following:

\$ %; - _ @ { } ~ ` ! # ()

Qualifiers

None

Example

You want to add USER1, USER2, and USER3 to the group WRITERS. Enter the following command:

PCSA_MANAGER> ADD MEMBER USER1,USER2,USER3 WRITERS %PCSA-I-ADDGROUPMEM, member USER1 added to group WRITERS %PCSA-I-ADDGROUPMEM, member USER2 added to group WRITERS %PCSA-I-ADDGROUPMEM, member USER3 added to group WRITERS %PCSA-I-ADDGROUPMEMSUMM, 3 members successfully added, 0 members not added

Related Commands

REMOVE MEMBER

Related Menu Item

User Options Group Options Add Members to a Group

ADD NODE

Purpose

This command registers a node in the DECnet volatile and permanent databases.

Command Support

This command runs under the supported transport.

Guidelines

Use this command if you want to communicate to other nodes on the network using DECnet.

Privileges

You need BYPASS, OPER, and SYSPRV privileges to use this command.

Format

ADD NODE nodename node-address

Parameters

nodenameIs the DECnet node name of one to six alphanumeric
characters. At least one character must be alphabetic.node-addressIs the DECnet node address of the workstation. The node

address consists of the area number and the local number, in the format xx.xxxx. The area number must be between 1 and 63, and the local number must be between 0 and 1023, inclusive. Although the NCP program accepts node addresses without a local area number, the PCSA Manager menu accepts only complete node numbers.

Qualifiers

None

Example

You want to register the node BRONTE with the address 8.765. Enter the following command:

PCSA MANAGER> ADD NODE BRONTE 8.765 %PCSA-I-ADDNODE, adding node BRONTE to DECnet database on all cluster nodes

Related Commands

REMOVE NODE

Related Menu Item

Workstation Options Node Registration Options Add a Node

ADD SERVICE/DIRECTORY

Purpose

This command creates a file service in the service database. A file service is a VMS directory to which client workstations can connect. The file service database defines file and print services and stores authorization records for groups and their users.

Command Support

This command runs under the supported transport.

Guidelines

The ADD SERVICE/DIRECTORY command:

- Registers the service name in the File Server Access Control File
- Optionally creates a directory where MS-DOS clients can place files
- Creates an access control list entry on the directory; this allows clients to access files in the directory

The file service database contains records for defining file services and print services. It also stores authorization records for group membership.

There are three types of file services. The file service type determines the default directory, which is represented by a logical. Table 1–3 lists each file service type and the logical that represents the service's default root directory.

Service Type	Logical
SYSTEM	PCFS\$SYSTEM
APPLICATION	PCFS\$APPLICATION
COMMON	PCFS\$COMMON

Table 1–3 File Service Types

NOTE

The file service type USER is for an entry in the user authorization file (UAF). You can add a USER service by creating an account for the user. USER services are not maintained by the service database.

The /ACCESS qualifier of the GRANT command controls security for SYSTEM, APPLICATION, and COMMON services.

After using the ADD SERVICE/DIRECTORY command, you must grant users access to the service. See the GRANT command for more information on granting users access to a file service.

To change the device on which future system, application, and common services are created, edit the SYS\$STARTUP:PCFS_LOGICALS.COM file and change the device associated with the relevant service.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

```
ADD SERVICE /DIRECTORY servicename

/ATTRIBUTES=type

/[NO]CONFIRM

/CONNECTIONS=n | NO_LIMIT

/FILE_LENGTH=[ACTUAL | ESTIMATED]

/RMS_PROTECTION=mask

/ROOT=directory

/TYPE=service
```

Parameters

servicename Is the 1- to 25-character name by which the service is known. Do not include spaces in the name.

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Qualifiers

/ATTRIBUTES=type	Are the file attributes the file server uses when creating a file with this service. The possible attribute types are:	
	STREAM	Creates RMS stream files for this service. A stream file is terminated with a carriage return. STREAM is the default.
	SEQUENTIAL_ FIXED	Creates RMS sequential fixed files for this service. A sequential fixed file is made up of 512-byte records.
	usually an applicati both the workstatio	nly when the service, which is ion file service, is used from n and the VAX, and when the oduces sequential fixed 512-byte
/[NO]CONFIRM	prompt you with th creating a directory. PCSA Manager disp and prompts you to specify N, the PCSA directory, and the c	r the PCSA Manager should e directory specification before . If you specify /CONFIRM, the plays the directory specification enter Y (yes) or N (no). If you A Manager does not create the ommands stops. By default, does not prompt you before ry.
/CONNECTIONS=n NO_ LIMIT	that workstations c limit can be a numb which means there	num number of connections an make to the service. The ber or the keyword NO_LIMIT, is no limit to the number sections. The default is NO_

PCSA Manager 1–17 ADD SERVICE/DIRECTORY

	er the file server should determine imated file length for non-stream
ACTUAL	Tells the file server to determine the actual file length in bytes that is returned to MS-DOS if the file were copied. Some applications may need to know the actual number of bytes in a file.
ESTIMATED	Tells the file server to estimate the file length based on the end- of-file pointer. The default is ESTIMATED.
	IGTH=ACTUAL qualifier can ver performance. Use this qualifier
files created with this protection access to the se	efault RMS protection mask for th this service. You can modify when you grant a user or group rvice. The default protection mask 'ED, OWNER:RWED, GROUP:,
Explicitly specifies a root directory for the service. If you specify the /ROOT qualifier, it overrides the device and root directory specified with the /TYPE qualifier. If you omit the /ROOT qualifier, the directory name is the same as the service name and the device and root directory are determined by the /TYPE qualifier.	
subdirectories of directory means choose to delete	v [000000] includes all files and on the entire disk. Offering the root s offering an entire disk. If you e all the files in the service when h a service, you delete all files on
the root directo	nly a device for the root directory, ry is the default directory from working. Make sure that the default [000000].
If the directory created.	does not exist, a new directory is
	an actual or est files: ACTUAL ESTIMATED The /FILE_LEN degrade file ser with caution. Establishes a d files created wit this protection a access to the se is SYSTEM:RW WORLD:. Explicitly specify th device and root qualifier. If you directory name and the device a by the /TYPE q A root directory subdirectories of directory means choose to deleta you remove suc the entire disk. If you specify o the root directory which you are of directory is not If the directory

1–18 PCSA Manager ADD SERVICE/DIRECTORY

/TYPE=service

Is the file service type, which determines the service's default root directory from the following logicals:

APPLICATION PCFS\$APPLICATION (this is the default service type) COMMON PCFS\$COMMON SYSTEM PCFS\$SYSTEM

The default directory name is the same as the service name.

Example 1

You want to create a file service for the application LOTUS 1-2-3. You also want to limit connections to 10. Enter the following command:

```
PCSA_MANAGER> ADD SERVICE/DIRECTORY -
    PCSA_MANAGER> LOTUS123/ROOT=DUB1:[LOTUS123]/CONNECTIONS=10
%PCSA-I-DIRCREATED, directory DUB1:[LOTUS123] created
%PCSA-I-ACLCREATED, ACL created on DUB1:[0,0]LOTUS123.DIR
%PCSA-I-SERADDED, service "LOTUS123" added
```

The PCSA Manager adds an entry to the service database. The file server stores files for this service in the directory DUB1:[LOTUS123].

Example 2

You want to create a common file service named SALES. You also want to confirm the creation of the directory. Enter the following command:

```
PCSA_MANAGER> ADD SERVICE/DIRECTORY SALES /TYPE=COMMON /CONFIRM
Create directory SYS$SYSDEVICE:[SALES] [Y or N] (Y) : Y
%PCSA-I-DIRCREATED, directory SYS$SYSDEVICE:[SALES] created
%PCSA-I-ACLCREATED, ACL created on SYS$SYSDEVICE:[0,0]SALES.DIR
%PCSA-I-SERADDED, service "SALES" added
```

Example 3

You want to create a file service so that all files created in the service are world readable. Enter the following command:

PCSA_MANAGER> ADD SERVICE/DIRECTORY servicename /RMS_PROTECTION=(W:READ)

Related Commands

None

Related Menu Item

Service Options Add Service

ADD SERVICE/PRINTER

Purpose

This command creates a printer service in the service database. A printer service is a VMS queue to which client workstations can connect. The file service database defines file and print services and stores authorization records for groups and their users.

Command Support

This command runs under the supported transport.

Guidelines

The ADD SERVICE/PRINTER command:

- Registers the service name in the File Server Access Control File
- Optionally creates a directory where MS-DOS clients can spool files

A printer service is a printer queue on a VAX server that work stations can access.

You can specify an existing directory or a new directory in which this service stores files.

Before you can add a printer service, the printer must have a physical device queue or generic queue. You can create the queue using the DCL printer management commands.

After using the ADD SERVICE/PRINTER command, you must grant users access to the service. For more information on granting users access to a print service, see the GRANT command in this chapter.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

ADD SERVICE /PRINTER servicename queuename /[NO]CONFIRM /CONNECTIONS=n | NO_LIMIT /FORM=name /RMS_PROTECTION=mask /SPOOL_DIRECTORY=directory

Parameters

servicename	Is the 1- to 25-character name by which clients and the network know the service. Do not include spaces in the service name.
queuename	Is the name of either the physical or generic queue to which files are spooled.

Qualifiers

/[NO]CONFIRM	Determines whether the PCSA Manager should prompt you with the directory specification before creating a directory. If you specify /CONFIRM, the PCSA Manager displays the directory specification and prompts you to enter Y (yes) or N (no). The default is /NOCONFIRM.
/CONNECTIONS=n NO_ LIMIT	Defines the maximum number of connections that workstations can make to the service. The limit can be a number or the keyword NO_LIMIT, which means there is no limit to the number of workstation connections. By default, there is no limit.
/FORM=name	Is the name of a form in the device control library, which is used as a prefix for spooled print files. The form places the printer into a known state. If you omit this qualifier, the files are printed using the default form for the printer.
1-22 PCSA Manager ADD SERVICE/PRINTER

/RMS_PROTECTION=mask	Establishes a default RMS protection mask for files created with this service. You can modify this protection when you grant a user or group access to the service. The default protection mask is SYSTEM:RWED, OWNER:RWED, GROUP:, WORLD:.
/SPOOL_DIRECTORY=directory	Is the spool directory. If the directory does not exist, the PCSA Manager creates it. If you omit this qualifier, the PCSA Manager creates a spool directory on the device and root directory represented by the logical name PCFS\$SPOOL. The directory name is the same as the service name.

Example

You want to add the printer service LN03_DPORT and name the queue PCFS\$LN03. Enter the following command:

```
PCSA_MANAGER> ADD SERVICE/PRINTER LN03_DPORT PCFS$LN03 -

_PCSA_MANAGER> /FORM=LN03_DPORT

%PCSA-I-DIRCREATED, directory SYS$SYSDEVICE:[PCFS_SPOOL.LN03_DPORT] created

%PCSA-I-SERADDED, service "LN03 DPORT" added
```

Related Commands

None

Related Menu Item

Service Options Add Service Printer Service

ADD TEMPLATE

Purpose

This command saves the information needed for configuring one remote boot workstation so the information can be used when configuring another remote boot workstation. The information is saved in a template.

Command Support

This command runs under the supported transport.

Guidelines

You cannot add a template from a workstation that is earlier than Version 3.0.

The ADD TEMPLATE command asks you whether you want to dismount the network key disk for the workstation. The network key disk must be dismounted before you can add a template. If you choose to dismount the network key disk and the disk was previously mounted, it is remounted when the command is complete.

Privileges

You need BYPASS, OPER, and SYSPRV privileges to use this command.

Format

ADD TEMPLATE template-name nodename comment

1–24 PCSA Manager ADD TEMPLATE

Parameters

template-name	Is the name you give for the template. Do not enter an extension. The PCSA Manager gives the template name the extension .PCSA\$WST and stores it in LADSBOOT_DISKS. The template name can be up to 39 characters.
nodename	Is the DECnet node name of the workstation whose network key disk you are saving. The node name consists of one to six alphanumeric characters. At least one character must be alphabetic.
comment	Is a comment describing the template. The comment can be up to 35 characters long. Specify a comment according to the DCL convention for entering a string.

Qualifiers

None

Example

You want to create a template called HUEYSTEMPLATE from the network key disk of node SERVR1. Enter the following command:

PCSA MANAGER> ADD TEMPLATE HUEYSTEMPLATE SERVR1 "This is a comment"

The key disk must reside in the directory LAD $BOOT_DISKS$ with an extension of .DSK.

Related Commands

None

Related Menu Item

None

ADD USER

Purpose

This command adds a user environment to the server.

Command Support

This command runs under the supported transport.

Guidelines

Adding a user environment to the server creates:

- A VMS user account on the device specified by the logical PCFS\$USER or what you specify using the /ROOT qualifier.
- A VMS user account in the PCFS user group as specified by SYS\$COMMON:[PCSA]PCFS_PARAMS.DAT.
- The AUTOUSER.BAT file in the user's account, which contains MS-DOS commands to make connections to user-specific resources and printers. PCSA Manager creates the initial AUTOUSER.BAT.

This command puts you in the PCSA Manager menu, which prompts you for information. You are asked if you want to edit the AUTOUSER.BAT file using the EDT editor. You can use the logical PCSA\$EDITOR_ command to point to an EDT initialization file.

Privileges

You need BYPASS, OPER, and SYSPRV privileges to use this command.

Format

ADD USER username

/[NO]INTERACTIVE /PASSWORD=password /ROOT=directory /VERSION_LIMIT=n 1–26 PCSA Manager ADD USER

Parameters

username Is the 1- to 12-character name used for the user account.

Qualifiers

/[NO]INTERACTIVE	Specifies whether the user's account can be used for interactive logins or just connected to via a workstation.
	If you specify the /INTERACTIVE qualifier, the user may log in interactively. That is, the user can set host to a node and log in to the user account and use it as if connected from a terminal.
	If you specify the /NOINTERACTIVE qualifier, the user can only connect to the account from a workstation. /NOINTERACTIVE is the default.
/PASSWORD=password	Is the user password containing 1 to 31 characters, \$, or The default is WELCOME.
/ROOT=directory	Explicitly specifies a device and/or directory to contain the user's files. If you omit this qualifier, the default device is determined from the logical name PCFS\$USER, with the directory name the same as the user name.
	To change the device on which user accounts are created by default, edit the file SYS\$STARTUP:PCFS_LOGICALS.COM and change the device associated with the PCFS\$USER logical. You must run the PCFS_LOGICALS.COM file for the changes to take effect.
/VERSION_LIMIT=n	Is the number of versions of any one VMS file that can exist in the user's directory. If you exceed the limit, the system deletes the lowest numbered version. A specification of 0 means no limit. The maximum number of versions allowed is 32,767. The default is 1.

Example

You want to add a user to the server. Enter the following command:

PCSA MANAGER> ADD USER/PASSWORD=FORTHE/ROOT=DUA0: DIPPER

After you complete the prompts, the PCSA Manager asks if you want to run EDT to edit the AUTOUSER.BAT file. You can edit the AUTOUSER.BAT file if you want to customize DOS or change the user's path. To complete the command, exit the editor.

Related Commands

None

Related Menu Item

User Options Add a User

ADD WORKSTATION

Purpose

This command:

- Uses a template key disk for additional workstations configured for remote boot, with the /TEMPLATE qualifier.
- Configures a Version 2.2 workstation on a Version 4.0 server.

Command Support

This command runs under the supported transport.

Guidelines

Before using the ADD WORKSTATION/TEMPLATE command, you must have created a template with the ADD TEMPLATE command described in this chapter.

Privileges

You need BYPASS, OPER, and SYSPRV privileges to use this command.

Format

ADD WORKSTATION nodename node-address comment /ADAPTER=(TYPE=adapter,ADDRESS=address /CLIENT_VERSION=number /DEVICE=name /DOS=name /SIZE=size /TEMPLATE=name

Parameters

nodename	Is the DECnet node name of one to six alphanumeric characters. At least one character must be alphabetic.
node-address	Is the DECnet node address of the workstation. The node address consists of the area number and the local number, in the format xx.xxx. The area number must be between 1 and 63, and the local number must be between 0 and 1023, inclusive. Although the NCP program accepts node addresses without a local area number, the PCSA Manager menu accepts only complete node numbers.
comment	Is the comment used to describe the workstation. Specify a comment according to the DCL convention for entering a string. The comment is displayed when you use the SHOW WORKSTATIONS command.

Qualifiers

/ADAPTER=(TYPE=type,	
ADDRESS=address)	

The adapter is the type of Ethernet adapter in the workstation. You must specify one of the following:

Adapter	Compatible Client Version
DEMCA	2.2, 3.0
DEPCA	2.2, 3.0
DEPCA_H	4.0
DEPCA_S	4.0
LANCE	2.2
NI5010	2.2, 3.0
3C501	2.2, 3.0
3C503	2.2, 3.0, 4.0
3C523	2.2, 3.0, 4.0

1–30 PCSA Manager ADD WORKSTATION

	The workstation must have one of these adapters to remote boot. The hardware address of the Ethernet controller installed in the workstation is used when creating the network key disk. The hardware address is six pairs of hexadecimal digits separated by dashes (-).
	You cannot specify TYPE= and /TEMPLATE together.
/CLIENT_ VERSION=number	Use this qualifier to specify the client version associated with the workstation. The default is 22. To specify a PCSA version, enter nm. For example, to specify PCSA Version 2.2, type 22. You must use this qualifier if you are configuring a Version 2.2 client on a Version 4.0 server.
	Do not use this qualifier if you use the /TEMPLATE qualifier.
/DEVICE=name	Is the VAX network controller to be used to service a workstation's boot request. For example, SVA-0.
/DOS=name	The name you gave DOS when you copied it to the server using the DOSLOAD utility. You must use this qualifier when configuring a Version 2.2 client on a Version 3.0 server.
	Do not use this qualifier if you use the /TEMPLATE qualifier.
/SIZE=size	Is the size of the network key disk you are creating. Specify a size that equals the size of the diskette drive A on the workstation. For example, to specify 360 Kbytes, enter 360. To specify 1.2 Mbytes, enter 1.2. Specify:
	360 Kbytes
	720 Kbytes
	1.2 Mbytes
	1.44 Mbytes

If you omit this qualifier, the PCSA Manager automatically sets the size of the virtual disk to 360 Kbytes. Do not use this qualifier if you use the /TEMPLATE qualifier.

/TEMPLATE=name Is the name of the template with information for the network key disk. The ADD WORKSTATION/TEMPLATE command duplicates the information stored for the network key disk of another workstation specified by the templatename. The ADD WORKSTATION command uses the template and the current workstation's node name and address to create a new network key disk. The template-name must be the one set by using the ADD TEMPLATE command. Do not enter a file name with an extension. The template name can be up to 39 characters.

> The /TEMPLATE qualifier creates a workstation with the same adapter type, client version, DOS version and keydisk size as the workstation from which the template file was created.

Do not use the /TEMPLATE qualifier with the /CLIENT_VERSION qualifier.

You cannot specify TYPE= and /TEMPLATE together.

Example 1

You want to create a network key disk for a node named BRONTE. You want to save the information in RONS_TEMPLATE. Enter the following command:

PCSA_MANAGER> ADD WORKSTATION BRONTE 9.843 "RON'S PC"-_PCSA_MANAGER> /ADAPTER=(ADDRESS=08-00-2B-01-22-78)

Example 2

You want to set aside a 1.2 Mbyte virtual disk to be used for a COMPAQ workstation with a DEPCA controller, using:

- DECnet node name BRONTE
- DECNET node address 9.213 Ethernet address 24-20-1B-01-22-23

Enter the following command:

```
      PCSA_MANAGER>
      ADD WORKSTATION BRONTE 9.213 -

      PCSA_MANAGER>
      "COMPAQ_CQV33_1.22MB" -

      PCSA_MANAGER>
      /ADAPTER=(TYPE=DEPCA, ADDRESS=24-20-1B-01-22-23) -

      PCSA_MANAGER>
      /DOS=CQSYSV33 /CLIENT_VERSION=22 /SIZE=1.2 MB
```

Related Commands

REMOVE WORKSTATION

Related Menu Item

Workstation Options Node Registration Options Add a Node

BROADCAST

Purpose

This command lets you send messages to:

- One or more specific workstations
- All workstations
- Individual users

The message may be up to 127 characters long.

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

BROADCAST [nodename, ... | * message text | "message text"]

Parameters

nodename	Is the DECnet node name of one or more specific nodes.
*	Indicates all nodes.
message text	Is the message text, which will be converted to uppercase text.
"message text"	Is the message text with the case intact.

Qualifiers

None

1–34 PCSA Manager BROADCAST

Example 1

You want to send a message to all workstations on the network. Enter the following command:

PCSA_MANAGER> BROADCAST * "The server is stopping in 5 minutes."

Example 2

You want to send a message to TDOG. Enter the following command:

PCSA_MANAGER> BROADCAST TDOG "The server is stopping in 5 minutes."

Related Commands

None

Related Menu Item

Utility Options Send Broadcast Message

CONFIG

Purpose

This command verifies the current configuration of the file server and starts it.

Command Support

This command runs under the supported transport.

Guidelines

You use this command in a startup file. CONFIG creates the log file PCFS\$LOG_FILE:PCFS\$STARTUP.LOG, which reports the current system configuration and any error encountered during configuration.

Privileges

You need CMKRNL, OPER, and SYSPRV privileges to use this command.

Format

CONFIGURE [/IGNORE]

Parameters

None

Qualifiers

/IGNORE Specifies that if problems were found during the verification of the file server's configuration, the file server should still be started.

1–36 PCSA Manager CONFIG

Related Commands

None

Related Menu Item

Utility Options Configure Server Parameters

CLOSE FILE_SERVER FILE

Purpose

This command closes a file that a workstation opened with the file server. You can close a file if a user leaves the workstation unattended with a file opened so that other users cannot use it.

The file server asks you to verify that you want to close the specified file. If you verify the request, the server closes the file.

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

CLOSE FILE_SERVER FILE identifier [/[NO]CONFIRM]

Parameters

identifier Is the number the file server assigns when it opens the file. The server assigns a unique file identifier to each open file, even if that file is currently open by another workstation. You can determine the file identifier using the SHOW FILE_ SERVER OPEN_FILES command.

Qualifiers

/[NO]CONFIRM Determines whether the PCSA Manager should prompt you before closing the file. /CONFIRM is the default.

1-38 PCSA Manager CLOSE FILE_SERVER FILE

Example

You want to close a file with the file identifier 4. Enter the following command:

PCSA_MANAGER> CLOSE FILE_SERVER FILE 4 Close file with file-id 4 [Y or N] (Y) : Y %PCSA-I-FILECLOSED, file with file-id 4 closed

Related Commands

SHOW FILE_SERVER OPEN_FILES

Related Menu Item

None

CREATE DISK

Purpose

This command creates and formats an MS-DOS virtual disk. Then, you can offer the virtual disk to the network as a disk service. If a file by the same name already exists in the target directory, the PCSA Manager does not create a virtual disk.

Command Support

This command runs under the supported transport.

Guidelines

Before users can connect to the disk service, you must offer the virtual disk to the network with the MOUNT DISK command.

To create a virtual disk, you must have write access to the directory in which the virtual disk is created.

To use this command, you need:

- Write access to the directory where the virtual disk is stored
- Either of the following:
 - OPER and SYSPRV privileges
 - Privilege to mount a virtual disk. To receive this privilege, use the SET DISK_SERVER CHARACTERISTICS command with the /USER_MOUNT qualifier.

Format

CREATE DISK file-spec

/ALLOCATION=n /CONTIGUOUS /SIZE=n /TYPE=class 1–40 PCSA Manager CREATE DISK

Parameters

file-spec Is the VMS file specification for the virtual disk. The default file extension for a virtual disk is .DSK. To specify the directory for the virtual disk, you can:

Explicitly state the directory for the virtual disk in the file specification.

Use the /TYPE qualifier to select the type of virtual disk. The PCSA Manager then creates the virtual disk in the default directory for the specified virtual disk type.

Qualifiers

/ALLOCATION=n	Is the number of blocks to allocate to the virtual disk. The number of blocks must be in a range between the minimum allocation and the default file size in blocks, listed in Table 1-4. This value overrides the implicit size given by the /SIZE qualifier, but cannot exceed the implicit size. Use this qualifier to create a virtual disk that is physically smaller than its formatted size.
	For example, you can create a 5 Mbyte disk, which is 10240 blocks, and choose to allocate 5000 blocks. You can extend the size up to the formatted size (10240 blocks) as necessary. To extend the size, use the MODIFY DISK command.
	If you omit this qualifier, the PCSA Manager allocates the total number of blocks for the specified disk size.
/CONTIGUOUS	Creates the virtual disk as a contiguous file. By default, or if insufficient contiguous disk space exists, the PCSA Manager creates the file <i>contiguous best try</i> , which means using the largest contiguous portions of the disk.
/SIZE=n	Defines the size of the virtual disk. For example, to specify a 5 Mbyte disk, type /SIZE=5MB. If you create a network key disk, specify a size of either 360KB, 760KB, 1.2MB or 1.44MB.
	You should specify a network key disk size that is equal to the size of the floppy drive on the workstation that uses the network key disk.
	The PCSA Manager allocates the total number of blocks for the size specified by this qualifier, unless you specify the /ALLOCATION qualifier. The PCSA Manager formats the virtual disk according to the size specified. Table 1–4 lists the possible disk sizes and their corresponding VMS file sizes.

2

/TYPE=class Determines a default directory for the virtual disk. There is one default directory for each type virtual disk. The PCSA Manager creates the virtual disk in the directory associated with the type. Each directory is represented by a systemwide logical. The types of virtual disks and the logicals that represent each type's default directory are:

SYSTEM	Device and directory represented by LAD\$SYSTEM_DISKS
BOOT	Device and directory represented by LAD\$BOOT_DISKS
APPLICATION	Device and directory represented by LAD\$APPLICATION_DISKS
USER	No logical; the virtual disk is created in the current directory. You should create user disks in the user's directory. If your default is not set to the user's directory, specify it in the file specification.

The default is /TYPE=USER.

Disk Size	Default File Size in Blocks	Minimum Allocation in Blocks
360 Kbytes	720	12
720 Kbytes	1440	14
1.2 Mbytes (default)	2400	29
1.44 Mbytes	2840	33
5 Mbytes	10240	66
10 Mbytes	20480	16417
20 Mbytes	40960	16417
32 Mbytes	65535	16417
64 Mbytes	131072	16633

Table 1–4 Allocating Disk Size

Disk Size	Default File Size in Blocks	Minimum Allocation in Blocks
128 Mbytes	262144	32977
256 Mbytes	524288	65665
512 Mbytes	1048576	65921

Table 1–4 (Cont.)	Allocating	Disk Size
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Example 1

You want to create and format a 1.2 Mbyte virtual disk for user JONES in the current directory. Enter the following command:

PCSA_MANAGER> CREATE DISK JONES %PCSA-I-CREATEDISK, creating DUA1:[JONES]JONES.DSK %PCSA-I-FORMAT DISK, formatting disk, Size=1.2MB, Allocation=2400/2400 %PCSA-I-DISKCREATED, DUA1:[JONES]JONES.DSK created

Example 2

You want to create and format a 5-Mbyte virtual disk for the application MULTIPLAN and allocate 5000 blocks to the disk. Enter the following command:

```
PCSA_MANAGER> CREATE DISK MULTIPLAN /SIZE=5MB -

PCSA_MANAGER> /TYPE=APPLICATION /ALLOCATION=5000

%PSCA-I-CREATEDISK, creating SYS$SYSDEVICE:[PCSA.LAD]MULTIPLAN.DSK

%PCSA-I-FORMAT, formatting disk, Size=5MB, Allocation=5000/10240

%PCSA-I-DISKCREATED, SYS$SYSDEVICE:[PCSA.LAD]MULTIPLAN.DSK created
```

Related Commands

None

Related Menu Item

None

DELETE DISK

Purpose

This command deletes a virtual disk.

Command Support

This command runs under the supported transport.

Guidelines

Before you delete a virtual disk, be sure:

- The disk is dismounted. The PCSA Manager does not delete the disk if it is mounted.
- You have write access to the disk.
- You have either of the following:
 - OPER and SYSPRV privileges
 - Privilege to mount a virtual disk. To receive this privilege, use the SET DISK_SERVER CHARACTERISTICS command with the /USER_MOUNT qualifier.

To determine if the disk is dismounted, use the SHOW DISK_SERVER SERVICES command. If the disk is not listed, then it is dismounted.

NOTE

Although you can delete a virtual disk with the VMS DELETE command, you should use the PCSA Manager DELETE DISK command because it verifies that the disk is not mounted before attempting to delete it. Deleting a mounted disk can cause unexpected results.

You should use the BROADCAST command to notify users that dismount and deletion of the disk is imminent.

Format

DELETE DISK file-spec [/TYPE=class]

1–44 PCSA Manager DELETE DISK

Parameters

file-spec Is the VMS file specification for the virtual disk. The default file extension for a virtual disk is .DSK. To specify the directory for the virtual disk, you can:

Explicitly state the directory for the virtual disk in the file specification.

Use the /TYPE qualifier to select the type of virtual disk. The PCSA Manager then deletes the virtual disk from the default directory for the specified virtual disk type.

Qualifiers

/TYPE=class Determines the default directory for the virtual disk file that you want to delete. The types of virtual disks and the logicals that represent each type's default directory are:

SYSTEM	LAD\$SYSTEM_DISKS
BOOT	LAD\$BOOT_DISKS
APPLICATION	LAD\$APPLICATION_DISKS
USER	No logical; the PCSA Manager looks for user disks in the current directory or in the file specification you use in the command line.

Example 1

You want to delete the virtual disk JONES.DSK from the current directory. Enter the following command:

PCSA_MANAGER> DELETE DISK JONES
%PCSA-I-DISKDELETED, DUA1:[JONES]JONES.DSK;1 deleted

Example 2

You want to delete the virtual disk MULTIPLAN.DSK from the current directory. Enter the following command:

PCSA_MANAGER> DELETE DISK MULTIPLAN /TYPE=APPLICATION
%PCSA-I-DISKDELETED, SYS\$SYSDEVICE:[PCSA.LAD]MULTIPLAN.DSK;1 deleted

Related Commands

None

Related Menu Item

None

DENY

Purpose

This command denies a user access to a file or print service. The PCSA Manager deletes the user's entry in the service database.

You can deny access to all file and print services granted to a user by specifying an asterisk (*) as the alias.

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command. You can grant a user access to a file or print service with the GRANT command.

Format

DENY username alias

Parameters

username Is the name of the user to whom you want to deny access.

alias

Is the 1- to 25-character name by which the user knows the service. To deny all services granted to a user, specify an asterisk (*).

Qualifiers

None

Example 1

You want to deny user JONES access to the file service PLANS. Enter the following command:

```
PCSA_MANAGER> DENY JONES PLANS
%PCSA-I-SERDENIED, service "PLANS" denied to user/group "JONES"
```

Example 2

You want to deny user SMITH access to all file and print services. Enter the following command:

PCSA_MANAGER> DENY SMITH * %PCSA-I-SERDENIED, service "MULTIPLAN" denied to user/group "SMITH" %PCSA-I-SERDENIED, service "PLANS" denied to user/group "SMITH" %PCSA-I-SERDENIED, service "LN03_DPORT" denied to user/group "SMITH"

Related Commands

GRANT

Related Menu Item

Service Options Deny User Access

DENY/GROUP

Purpose

This command denies all users in a group access to a file or print service. The PCSA Manager deletes the group's entry in the service database.

Command Support

This command runs under the supported transport.

Guidelines

A group is a logical collection of users that you want to treat as a single entity. If you have five secretaries on your server, you can add them all to the group SECRETARY. Then you can deny or grant that group access to services. You can add secretaries as needed. The new member or members would have the same access as the original five secretaries. For more information, see the CREATE GROUP command.

Privileges

You need OPER and SYSPRV privileges to use this command.

You can grant a group of users access to a file or print service with the GRANT/GROUP command.

Format

DENY/GROUP groupname alias

Parameters

groupname Is the name of the group to whom you want to deny access.

alias Is the 1- to 25-character name by which users know the service. To deny all services granted to the group, specify an asterisk (*). If you did not assign an alias when granting the service, then the alias is the service name.

Qualifiers

None

Example 1

You want to deny all users in the group PUBLIC access to the service TESTS. Enter the following command:

PCSA_MANAGER> DENY/GROUP PUBLIC TESTS %PCSA-I-SERDENIED, service "TESTS" denied to user/group "PUBLIC"

Example 2

You want to deny all users in group PUBLIC access to all services. Enter the following command:

```
PCSA_MANAGER> DENY/GROUP PUBLIC *

%PCSA-I-SERDENIED, service "TESTS" denied to user/group "PUBLIC"

%PCSA-I-SERDENIED, service "PLANS" denied to user/group "PUBLIC"

%PCSA-I-SERDENIED, service "LN03 DPORT" denied to user/group "PUBLIC"
```

Related Commands

GRANT /GROUP

Related Menu Item

Service Options Deny Group Access

DISMOUNT DISK

Purpose

This command specifies a virtual disk service as no longer available to the network. The disk server disconnects all clients and closes the virtual disk file.

Command Support

This command runs under the supported transport.

Guidelines

To use this command, you need:

- Write access to the disk
- Either of the following:
 - OPER and SYSPRV privileges
 - Privilege to mount a virtual disk. To receive this privilege, use the SET DISK_SERVER CHARACTERISTICS command with the /USER_MOUNT qualifier.

Format

	[/CLUSTER	٦
DISMOUNT DISK service	/[NO]PERMANENT	
	L /[NO]PURGE	J

Parameters

service Is the 1- to 25-character name of the service being dismounted.

Qualifiers

/CLUSTER	Dismounts the specified service for all nodes in a cluster.
/[NO]PERMANENT	Specifies whether to permanently dismount (/PERMANENT) the specified service or dismount it just this time (/NOPERMANENT). The disk server does not automatically remount the permanently dismounted services upon startup. /PERMANENT is the default qualifier.
/[NO]PURGE	Specifies whether to delete the service's entry (or entries) in the disk server's service database, unless the service is mounted. /NOPURGE is the default.

Example 1

You want to dismount the service PLANS for all nodes in a cluster. Enter the following command:

PCSA_MANAGER> DISMOUNT DISK PLANS /CLUSTER %PCSA-I-DISKDISMOUNTED, SYS\$SYSDEVICE:[PCSA.LAD]PLANS.DSK;1 dismounted

Example 2

You want to dismount the service MYDISK. Enter the following command:

PCSA_MANAGER> DISMOUNT DISK MYDISK %PCSA-I-DISKDISMOUNTED, DUA1: [JONES]JONES.DSK;1 dismounted

Related Commands

MOUNT DISK

Related Menu Item

Service Options Modify Disk Service Dismount Disk

EXIT

Purpose

This command exits the PCSA Manager and returns to DCL.

Format

EXIT

Parameters

None

Qualifiers

None

Example

You want to exit the PCSA Manager. Enter the following command:

PCSA_MANAGER> EXIT

Related Commands

None

Related Menu Item

None

GRANT

Purpose

This command grants a user access to a file or print service and creates an entry for the specified user in the file server's service database.

Command Support

This command runs under the supported transport.

Guidelines

Using an alias, you can grant users access to a service using an alternate name. For example, if user A uses LOTUS 1-2-3 Version 2.0 and user B uses LOTUS 1-2-3 Version 2.1, both users can connect to the alias LOTUS. This alias represents the service name LOTUS20 to user A and LOTUS21 to user B. See Example 3 for the command syntax.

Privileges

You need OPER and SYSPRV privileges to use this command.

You must create a service before you can grant access to it. To create a service, use the ADD SERVICE command.

Format

GRANT username service [alias] [/ACCESS=(option1[,...]) /RMS_PROTECTION=mask]

Parameters

username	Is the name of the user to whom access is granted. An account must exist in the user authorization file (UAF) for username.
service	Is the name of the file or print service being granted.
alias	Is an alias (or alternate name) by which the user knows the service. This is the name the user specifies when making a connection. If you omit an alias, the service name is the default alias.

1–54 PCSA Manager GRANT

Qualifiers

/ACCESS=(option1[,])	Is the type of access granted to the service user. Specify one or more of the following:		
	READ	For read access	
	WRITE	For write access; WRITE access does not imply READ access.	
	CREATE	For create access	
	From this qualifier, the file server determines if the user's requested operation is compatible with the access granted. If the operation is compatible the VMS operating system can further restrict access to the service.		
	If this qualifier is omitted, the default is /ACCESS=(READ). If you grant access to a printer service, the PCSA Manager ignores this qualifier and grants READ, WRITE, and CREATE access.		
/RMS_PROTECTION=mask	files creat qualifier of or WORL protection with the A	es a default RMS protection mask for red with this service. If you omit this or a class (SYSTEM, OWNER, GROUP, D), the default is determined by the a mask set when you added the service ADD SERVICE command. This qualifier fect on a printer service.	

Example 1

You want to grant user JONES read access to the service REPORTS. Enter the following command:

PCSA_MANAGER> GRANT JONES REPORTS %PCSA-I-SERGRANTED, service "REPORTS" granted to user/group "JONES"

Example 2

This example want to grant user USERA read access to the service LOTUS20 using the alias LOTUS. Enter the following command:

PCSA_MANAGER> GRANT USERA LOTUS20 LOTUS %PCSA-I-SERGRANTED, service "LOTUS" granted to user/group "USERA"

Example 3

You want to grant USERA access to the service LOTUS20 and USERB access to the service LOTUS21 using the same alias. Enter the following command:

PCSA_MANAGER> GRANT USERB LOTUS21 LOTUS %PCSA-I-SERGRANTED, service "LOTUS" granted to user/group "USERB"

Related Commands

DENY

Related Menu Item

Service Options Grant User Access

GRANT/GROUP

Purpose

This command grants all users in a group access to a file or print service and creates an entry for the specified group in the service database.

Command Support

This command runs under the supported transport.

Guidelines

You must create the service before you can grant access to it. To create a service, use the ADD SERVICE command.

Determining Tree Connect Access

An alias is simply another name for a service. In the following example, both these users connect to alias JOE, but LONG connects to service FRED and FRANCINI connects to service BILL.

\$ PCSA GRANT LONG FRED JOE
\$ PCSA GRANT FRANCINI BILL JOE

Access is determined as follows:

- When a tree connect is made to an alias, access context (RWC and RMS protection) must be established, as well as a service name. The GRANT /GROUP command does this from the first matching access control record found in the following descending order:
 - Grant record for the user to that alias.
 - Grant record for each group of which the user is a member to that alias. Aliases cannot be specified on GRANTs to groups other than PUBLIC.
 - Grant record for the group PUBLIC to that alias.
- After a service name is established, only Grant records that have a matching alias and service name are used for further access context definition.

For example, assume the following sequence of commands:

\$ PCSA ADD GROUP SALES
\$ PCSA ADD MEMBER LONG SALES
\$ PCSA GRANT/GROUP SALES LOTUS

When Long connects to alias LOTUS, he connects to the service LOTUS with Read access.

Assume the following command is then typed:

\$ PCSA GRANT LONG FRED LOTUS

When Long connects to alias LOTUS, he connects to the service FRED (with Read access). His user-specific access record overrides the group-specific access record.

Again, assume the following command is typed:

\$ PCSA GRANT /GROUP PUBLIC FRED LOTUS /ACCESS=(R,W,C)

When Long connects to alias LOTUS, he now receives Read, Write, and Create access to service FRED, because the PUBLIC GRANT record is now part of his access context.

If the preceding command had been the following command, no change would be made, because, although the alias names match, the service names do not.

\$ PCSA GRANT /GROUP PUBLIC JOE LOTUS /ACCESS=(R,W,C)

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

```
GRANT /GROUP groupname service [alias]
[/ACCESS=(option1[,...])
/RMS_PROTECTION=mask ]
```
Parameters

groupnameIs the name of the group to whom access is granted.serviceIs the name of the file or print service being granted.aliasIs an alias (or alternate name) by which the user knows the
service. This is the name the user specifies when making a
connection. If you omit an alias, the service name is the default
alias.

Qualifiers

/ACCESS=(option1[,...]) Is the type of access granted to the service user. Specify one or more of the following:

	READ	For read access
	WRITE	For write access
	CREATE	For create access
	the user's the access the VMS o	qualifier, the file server determines if requested operation is compatible with granted. If the operation is compatible, operating system may further restrict the service.
	WRITE ac	ccess does not imply READ access.
	/ACCESS service, th	alifier is omitted, the default is =(READ). If you grant access to a printer he PCSA Manager ignores this qualifier s READ, WRITE, and CREATE access.
/RMS_PROTECTION=mask	files creat qualifier of or WORL protection	es a default RMS protection mask for ed with this service. If you omit this or a class (SYSTEM, OWNER, GROUP, D), the default is determined by the mask set when you added the service ADD SERVICE command.

Example

You want to grant all users in the group PUBLIC read access to the service VXSYS. Enter the following command:

PCSA_MANAGER> GRANT/GROUP PUBLIC VXSYS /ACCESS=(READ)
%PCSA-I-SERGRANTED, service "VXSYS" granted to user/group "PUBLIC"

Related Commands

DENY /GROUP

Related Menu Item

Service Options Grant Group Access

HELP

Purpose

This command displays help with the PCSA Manager or its commands.

Format

HELP [command] [topic]

Parameters

command	Is the name of the command for which you want help. If you omit a command, the PCSA Manager displays general help.
topic	Is the name of a command topic about which more information is available. To see a list of topics for a command, see the command's HELP display.

NOTE

You can also obtain help on the PCSA Manager and its commands at the DCL level.

Qualifiers

Example 1

You want to display help. Enter the following command:

```
PCSA MANAGER> HELP
```

HELP

The HELP command invokes the VMS help facility to display help about a particular PCSA Manager command. For more information, see the System Administrator's Guide.

Additional information available:

ADD	CLOSE	CREATE	DELETE	DENY	DISMOUNT	EXIT
GRANT	HELP	MENU	MODIFY	MOUNT	REMOVE	SET
SHOW	START	STOP	ZERO			

TOPIC?

Example 2

You want to display help for the PCSA Manager command SHOW FILE_ SERVER. Enter the following command:

PCSA MANAGER> HELP SHOW FILE SERVER

SHOW

FILE_SERVER

The SHOW FILE_SERVER command is used to display various information on the operation of the File Server. The information to be displayed is selected from the list below:

Additional information available:

CHARACTERISTICS	CONNE	CTIONS	COUNTERS	OPEN_FILES
SERVICES	SESSIONS	STATUS		

SHOW FILE SERVER subtopic?

1–62 PCSA Manager HELP

Related Commands

None

Related Menu Item

MENU

Purpose

This command invokes the PCSA Manager menu, a menu-driven utility that provides a simplified method of accomplishing many PCSA management tasks. Use this menu as an alternative to the PCSA Manage commands.

NOTE

Do not use the PCSA Manager MENU command in a batch file.

Command Support

This command runs under the supported transport.

Format

MENU

Parameters

None

Qualifiers

None

Example

You want to start the Menu utility. Enter the following command:

PCSA MANAGER> MENU

1–64 PCSA Manager MENU

Related Commands

ADMINISTRATE

Related Menu Item

MODIFY DISK

Purpose

This command increases the virtual disk size allocation. Make sure the virtual disk is dismounted before modifying it.

Command Support

This command runs under the supported transport.

Guidelines

To determine the actual size of the virtual disk, you need to know the name of the virtual disk container file. Then, use the DIR command to display the number of bytes allocated for the virtual disk.

To modify a virtual disk, you must have write access to the virtual disk file. You can only increase a file's size up to its formatted size.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

MODIFY DISK file-spec [/EXTENSION[=n] /TYPE=class]

Parameters

file-spec Is the file specification for the virtual disk. To specify the directory for the virtual disk, you can:

Explicitly state the directory for the virtual disk in the file specification.

Use the /TYPE qualifier to select the type of virtual disk. The PCSA Manager then modifies the virtual disk file in the default directory for the specified virtual disk type. 1–66 PCSA Manager MODIFY DISK

Qualifiers

- /EXTENSION[=n] Is the number of blocks to extend the virtual disk. You cannot extend the disk beyond its formatted size. If you specify an extension beyond the formatted size, the PCSA Manager extends the disk to its formatted size. If you omit the number of blocks, the PCSA Manager extends the disk to its formatted size.
- /TYPE=class Specifies the default directory that contains the virtual disk. There is one default directory for each type of virtual disk file. Each directory is represented by a logical. The types of virtual disk files and the logical representing each type's default directory are:

SYSTEM	LAD\$SYSTEM_DISKS
BOOT	LAD\$BOOT_DISKS
APPLICATION	LAD\$APPLICATION_DISKS
USER	No logical; the virtual disk is in the current directory or it is stated in the file specification.

The default is /TYPE=USER.

Example 1

You want to extend the virtual disk JONES.DSK by 50 blocks. Enter the following command:

PCSA_MANAGER> MODIFY DISK JONES.DSK /EXTENSION=50 %PCSA-I-DISKMODIFIED, DUA1:[JONES]JONES.DSK;1 modified

Example 2

You want to extend the application virtual disk LOTUS.DSK by 100 blocks. Enter the following command:

```
PCSA_MANAGER> MODIFY DISK LOTUS.DSK /EXTENSION=100 -
_PCSA_MANAGER> /TYPE=APPLICATION
%PCSA-I-DISKMODIFIED, SYS$SYSDEVICE:[PCSA.LAD]LOTUS.DSK;1 modified
```

PCSA Manager 1–67 MODIFY DISK

Related Commands

None

Related Menu Item

MODIFY USER

Purpose

This command allows you to change a user's AUTOUSER.BAT file, which contains MS-DOS commands to make connections to user-specific resources and printers.

The AUTOUSER.BAT file is located in the user's VMS default directory.

Command Support

This command runs under the supported transport.

Guidelines

This command asks whether you want to use the EDT editor, which allows you to edit the AUTOUSER.BAT file. If the AUTOUSER.BAT file is not present, this command does nothing.

Privileges

You need BYPASS, OPER, and SYSPRV privileges to use this command.

Format

MODIFY USER username

Parameters

username Is the 1- to 12-alphanumeric character name used for the user account name.

Qualifiers

Example

You want to modify the environment of the user GAIPPER. Enter the following command:

PCSA MANAGER> MODIFY USER GAIPPER

The PCSA Manager asks you if you want to run the EDT editor to edit the AUTOUSER.BAT file. Edit the AUTOUSER.BAT file if you want to customize DOS or change the use's path.

NOTE

You can use the logical PCSA\$EDITOR_command to point to an EDT initialization file.

Once in the editor, to complete the command, exit the editor.

Related Commands

None

Related Menu Item

User Options Modify a User

MODIFY WORKSTATION

Purpose

This command changes the following components in the remote boot database:

- The Ethernet address of the workstation
- The Ethernet adapter of the workstation
- The VAX Ethernet adapter
- The client software version
- The comment

Use this command for workstations that remote boot.

Command Support

This command runs under the supported transport.

Privileges

You need BYPASS, OPER, and SYSPRV privileges to use this command.

Format

```
MODIFY WORKSTATION nodename

[ /ADAPTER=(TYPE=adapter,ADDRESS=address)

/CLIENT_VERSION=pcsa-version

/COMMENT=string

/DEVICE=name
```

Parameters

nodename Is the DECnet node name of one to six alphanumeric characters. At least one character must be alphabetic.

PCSA Manager 1–71 MODIFY WORKSTATION

Qualifiers

/ADAPTER=(TYPE=adapter, ADDRESS=address) The adapter is the type of Ethernet adapter in the workstation. You must specify one of the following:

Adapter	Compatible Client Version
DEMCA	2.2, 3.0
DEPCA	2.2, 3.0
DEPCA_H	4.0
DEPCA_S	4.0
LANCE	2.2
NI5010	2.2, 3.0
3C501	2.2, 3.0
3C503	2.2, 3.0, 4.0
3C523	2.2, 3.0, 4.0

Only these adapters can be used for remote boot.

The hardware address of the Ethernet controller installed in the workstation is used when creating the boot disk. The hardware address is 6 pairs of hexadecimal digits separated by dashes (-).

/CLIENT_VERSION=pcsa-version Use this qualifier if the client version is different from the server version. To specify a PCSA version, enter nm. For example, to specify 3.0, enter 30.

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	MODIFY WORKSTATION

/COMMENT=string	Is a comment used to describe the workstation. The comment is displayed when you use the SHOW WORKSTATIONS command.
/DEVICE=name	Is the VAX network controller that should be used to service a workstation's boot request.

Example

You want to change the Ethernet address of the workstation BRONTE and specify the type as DEPCA. Enter the following command:

```
PCSA_MANAGER> MODIFY WORKSTATION BRONTE -
_PCSA_MANAGER> /ADAPTER=(TYPE=DEPCA, ADDRESS=08-00-2B-0D-3D-17)
```

Related Commands

None

Related Menu Item

MOUNT DISK

Purpose

This command makes an existing virtual disk available as a disk service to the client workstation.

Command Support

This command runs under the supported transport.

Guidelines

Before you can mount a virtual disk, you must create it. To create a virtual disk. see the CREATE DISK command.

To use this command, you need:

- Write access to the disk
- Either of the following:
 - OPER and SYSPRV privileges
 - Privilege to mount a virtual disk. To receive this privilege, use the SET DISK_SERVER CHARACTERISTICS command with the /USER_MOUNT qualifier.

Format

MOUNT DISK file-spec [service]

/ACCESS=option /CLUSTER[=(node,..)] /CONNECTIONS=n /PASSWORD[=password] /[NO]PERMANENT /RATING=n /TYPE=class 1–74 PCSA Manager MOUNT DISK

Parameters

file-spec	Is the file specification by which the virtual disk is known. The default file extension for a virtual disk is .DSK. To specify the directory for the virtual disk, you can:
	Explicitly state the directory for the virtual disk in the file specification.
	Use the /TYPE qualifier to select the type of virtual disk. The PCSA Manager then locates the virtual disk in the default directory for the specified virtual disk type.
service	Is the 1- to 25-character name by which the service is known to the network. Do not include spaces in the service name. If you omit this qualifier, the service name is the file name portion of the file specification.

Qualifiers

/ACCESS=option	Is the type of access allowed to the service. The options are:	
	READ	Multiple workstations can use the service for read-only access.
	WRITE	A single workstation can use the service for read and write access.
	the /CONN	ify /ACCESS=WRITE, do not specify ECTIONS qualifier; write access limits r of connections to one. The default is READ.
/CLUSTER[=(node,)]	node(s) in a	e service on all nodes or on the specified a cluster. If you omit this qualifier, the nounted only on the current node.
/CONNECTIONS=n	made to th then the de	e maximum connections that can be e service. If this qualifier is omitted, efault is 30 connections. Do not specify er if you specified /ACCESS=WRITE.

/PASSWORD[=password]	Restricts the service to authorized users. The password can be 1 to 31 characters. If /PERMANENT is specified, the server stores the password in the service database. On subsequent restarts, the disk server offers the service with this password. If you omit this qualifier, the server allows unrestricted access to the service. If you omit a value, you are prompted for a password and verification. The password is not echoed on the terminal.
----------------------	---

/[NO]PERMANENT Specifies whether to permanently mount (/PERMANENT) the specified service or mount it just this time (/NOPERMANENT). The disk server automatically remounts only the permanently mounted services upon startup. /NOPERMANENT is the default qualifier.

/RATING=n Is a numerical value that assigns a priority to a disk service. Use a rating to differentiate disk services with the same name. When several services have the same name, the disk service with the highest rating is used. When identically name services have equal rating, requests for the services are dynamically distributed, that is, the service that is most accessible at the time of the request is used. The range is 1 to 65535. The default value is 1. A rating of 1 is the lowest rating and a rating of 65535 is the highest rating.

/TYPE=classDetermines the default directory for the virtual
disk file and the service type displayed with the
SHOW DISK_SERVER SERVICES command.
There is one default directory for each type of
virtual disk. Each directory is represented by a
logical. The types of virtual disks and the logical
that represents each type's default directory are:

SYSTEM	LAD\$SYSTEM_DISKS
BOOT	LAD\$BOOT_DISKS
APPLICATION	LAD\$APPLICATION_DISKS
USER	No logical; the virtual disk is in current directory or it is stated in the file specification.

The default is /TYPE=USER.

1–76 PCSA Manager MOUNT DISK

NOTE

If you change the location that any of the logicals (LAD\$SYSTEM_DISKS, LAD\$BOOT_DISKS, or LAD\$APPLICATION_DISKS) point to, and a disk was mounted with the previous logical, then you need to use the full file specification for the virtual disk on any subsequent mounts.

Example 1

You want to mount the virtual disk JONES.DSK as the read-only service MYDISK. You also want to limit access to a maximum of 30 users. Enter the following command:

PCSA_MANAGER> MOUNT DISK JONES MYDISK /CONNECTIONS=30 %PCSA-I-DISKMOUNTED, DUA1:[JONES]JONES.DSK;1 mounted %PCSA-I-MOUNTINFO, service name=MYDISK, server node=LETTER

Example 2

You want to mount permanently the virtual disk LOTUS.DSK on all nodes in the cluster. Enter the following command:

PCSA_MANAGER> MOUNT DISK LOTUS /TYPE=APPLICATION - PCSA_MANAGER> /CLUSTER /PERMANENT %PCSA-I-DISKMOUNTED, SYS\$SYSDEVICE: [PCSA.LAD]LOTUS.DIR;1 mounted %PCSA-I-MOUNTINFO, service name=LOTUS, server node=YELLOW

%PCSA-I-DISKMOUNTED, SYS\$SYSDEVICE:[PCSA.LAD]LOTUS.DIR;1 mounted %PCSA-I-MOUNTINFO, service name=LOTUS, server node=GREEN

%PCSA-I-DISKMOUNTED, SYS\$SYSDEVICE:[PCSA.LAD]LOTUS.DIR;1 mounted %PCSA-I-MOUNTINFO, service name=LOTUS, server node=VIOLET

Related Commands

DISMOUNT DISK

Related Menu Item

Service Options Modify Disk Service Mount Disk

REMOVE CLIENT_OS

Purpose

This command deletes a client operating system from the server.

You should modify workstation profiles for any workstations set up to use the client operating system you are deleting.

Command Support

This command runs under the supported transport.

Privileges

You need LOG_IO, OPER, PHY_IO, SYSPRV and VOLPRO privileges to use this command.

Format

REMOVE CLIENT_OS system-id /CLIENT_VERSION=nm

Parameters

system-id The system service identification is used as a subdirectory in the system container file to contain the operating system files. It should follow the system identification convention of xxSYSDnm, where xx is the system type (VX for VAXmate, IS for IBM, CQ for COMPAQ), n is the DOS major version number, and m is the DOS minor number. Thus, VXSYSD33 would be the VAXmate MS-DOS 3.3 subdirectory on the system service.

Qualifiers

/CLIENT_VERSION=nm Is part of the name of the logical used for the system container file. For example, to delete a DOS from the PCSA Version 3.0 system service, specify /CLIENT_VERSION=30. The /CLIENT_VERSION is used with PCSA\$SYSTEM_ CONTAINER_Vxx to determine which system container file contains the DOS to be deleted.

Use DOSLOAD to delete a Version 4.0 DOS.

1–78 PCSA Manager REMOVE CLIENT_OS

Example

You want to remove the operating system ISSYSD33 from the server. Enter the following command:

PCSA_MANAGER> REM CLIENT_OS ISSYSD33 /CLIENT_VERSION=30

Related Commands

None

Related Menu Item

REMOVE GROUP

Purpose

This command removes a group and the members in the group.

Command Support

This command runs under the supported transport.

Guidelines

This command removes the associated group access to all services. You cannot remove the group PUBLIC.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

REMOVE GROUP groupname

Parameters

groupname Is the name of the group you want to remove.

Qualifiers

None

Example

You want to remove the group WRITERS. Enter the following command:

PCSA_MANAGER> REMOVE GROUP WRITERS %PCSA-I-REMGROUPMEM, member USER1 removed from group WRITERS %PCSA-I-REMGROUPMEM, member USER2 removed from group WRITERS %PCSA-I-REMGROUPMEM, member USER3 removed from group WRITERS %PCSA-I-REMGROUPMEMSUMM, 3 members successfully removed, 0 members not removed

%PCSA-I-GROUPDEL, deleted group WRITERS

1-80 PCSA Manager REMOVE GROUP

Related Commands

None

Related Menu Item

User Options Group Options Delete a Group

REMOVE MEMBER

Purpose

This command removes a member or members from a group.

Command Support

This command runs under the supported transport.

Guidelines

You cannot remove a member or members from the group PUBLIC.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

REMOVE MEMBER memberlist | * groupname | *

Parameters

memberlist	Is a list of user names separated by commas. Each user name must be a valid user authorization file (UAF) entry.
	If you specify an asterisk (*), this command removes all members from the specified group.
groupname	Is the name of the group where you want to add members.

Qualifiers

None

Example

You want to remove USER1 from the group WRITERS. Enter the following command:

```
PCSA MANAGER> REMOVE MEMBER USER1 WRITERS
%PCSA-I-REMGROUPMEM, member USER1 removed from group WRITERS
%PCSA-I-REMGROUPMEMSUMM, 1 member successfully removed, 0 members not removed
```

Related Commands

None

Related Menu Item

User Options Group Options Remove Members from a Group

REMOVE NODE

Purpose

This command removes a workstation or server from the DECnet database.

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

REMOVE NODE nodename | node-address

Parameters

nodename	Is the DECnet node name of one to six alphanumeric characters. At least one character must be alphabetic. Specify either the nodename or the node-address.
node-address	Is the DECnet node address of the workstation. The node address consists of the area number and the local number, in the format xx.xxx. The area number must be between 1 and 63, and the local number must be between 0 and 1023, inclusive. Although the NCP program accepts node addresses without a local area number, the PCSA Manager menu accepts only complete node numbers.

Qualifiers

None

Example

You want to remove the node BRONTE from the DECnet database. Enter the following command:

```
PCSA_MANAGER> REMOVE NODE BRONTE
%PCSA-I-ADDNODE, removing node BRONTE from DECnet database on all cluster nodes
```

1–84 PCSA Manager REMOVE NODE

Related Commands

None

Related Menu Item

Workstation Options Node Registration Options Delete a Node

REMOVE SERVICE

Purpose

This command removes a file server directory or printer service entry from the service database. The PCSA Manager:

- Denies all users access to the service
- Disconnects any clients currently connected to the service
- Optionally deletes all files held by the service

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

REMOVE SERVICE servicename [/[NO]KEEP]

Parameters

servicename Is the name of the service to be removed.

Qualifiers

/[NO]KEEP Specifies whether the PCSA Manager should delete or keep the root directory, any subdirectories, and files that the service holds. The default is /KEEP. It is recommended that you back up the directory and files before deleting them.

If you do not explicitly specify either /KEEP or /NOKEEP, you are prompted to either keep or delete the files.

CAUTION

If the root directory is [000000] when you use the /NOKEEP qualifier, then the entire disk is deleted. Make sure you know what the root directory is before choosing the /NOKEEP qualifier.

1-86 PCSA Manager REMOVE SERVICE

Example

You want to remove the service LOTUS123 from the service database and delete the associated directory and all files in the directory. Enter the following command:

PCSA_MANAGER> REMOVE SERVICE LOTUS123

```
Delete all files in SYS$SYSDEVICE:[PCSA.LOTUS123...] [YES or NO] (NO): Y
%PCSA-I-FILDEL, SYS$SYSDEVICE:[PCSA]LOTUS123.DIR;1 deleted
%PCSA-I-TOTFILDEL, 1 file deleted, 0 files not deleted
%PSCA-I-SERREMOVED, service "LOTUS123" removed
```

Related Commands

None

Related Menu Item

Service Options Delete Service

REMOVE TEMPLATE

Purpose

This command removes a template for a network key disk.

Command Support

This command runs under the supported transport.

Privileges

You need BYPASS, OPER, and SYSPRV privileges to use this command.

Format

REMOVE TEMPLATE template-name

Parameters

templatename Is the name of the template used to create a network key disk given in the ADD TEMPLATE command. Do not enter a file name with an extension. The template name can be up to 39 characters. You can list all the template names by running the SHOW TEMPLATES command.

Qualifiers

None

Example

You want to remove the template GAPPER from the template database. Enter the following command:

PCSA_MANAGER> REMOVE TEMPLATE GAPPER

1–88 PCSA Manager REMOVE TEMPLATE

Related Commands

None

Related Menu Item

REMOVE USER

Purpose

This command removes the user's UAF record and optionally deletes the files in the user's directory.

Command Support

This command runs under the supported transport.

Privileges

You need BYPASS, OPER, and SYSPRV privileges to use this command.

Format

REMOVE USER username [/[NO]KEEP]

Parameters

username Is the 1- to 12-alphanumeric character name used for the user account name.

Qualifiers

/[NO]KEEP Specifies whether the PCSA Manager should delete or keep the root directory, any subdirectories, and files of the user. The default is /NOKEEP. It is recommended that you back up the directory and files before deleting them.

If you omit this qualifier, you will be prompted to either keep or delete the files.

Example

You want to remove the account GAPPER and the files in the directory. Enter the following command

PCSA_MANAGER> REMOVE USER GAPPER

1–90 PCSA Manager REMOVE USER

Related Commands

None

Related Menu Item

User Options Delete a User

REMOVE WORKSTATION

Purpose

This command removes a workstation, dismounts and deletes the boot disk, and removes the workstation's entries from the NCP and remote boot databases.

Command Support

This command runs under the supported transport.

Privileges

You need BYPASS, OPER, and SYSPRV privileges to use this command.

Format

REMOVE WORKSTATION nodename

Parameters

nodename Is the DECnet node name of one to six alphanumeric characters. At least one character must be alphabetic.

Qualifiers

None

Example

You want to remove the workstation WINONE, delete network key disk, and remove from the NCP and remote boot databases. Enter the following command:

PCSA MANAGER> REMOVE WORKSTATION WINONE

1–92 PCSA Manager REMOVE WORKSTATION

Related Commands

None

Related Menu Item

Workstation Options Delete a Node

SET DISK_SERVER CHARACTERISTICS

Purpose

This command defines or changes the characteristics of the disk server.

Command Support

This command runs under the supported transport.

Guidelines

Place this command in the LAD_STARTUP.COM file to set characteristics each time the disk server is started.

Privileges

You need OPER, SYSNAM, and SYSPRV privileges to use this command.

Format

SET DISK_SERVER CHARACTERISTICS [/TIMEOUT=seconds /[NO]USER MOUNT]

Parameters

None

Qualifiers

/[NO]USER_MOUNT Determines whether non-privileged users can perform the PCSA Manager commands for virtual disk services. If you specify /NOUSER_MOUNT, users without OPER and SYSPRV may not perform the following commands: CREATE DISK DELETE DISK DISMOUNT DISK MODIFY DISK
1-94 PCSA Manager SET DISK_SERVER CHARACTERISTICS

MOUNT DISK

SET DISK_SERVER SERVICE

/USER_MOUNT is the default, which means that any user with write access to a virtual disk can perform the above commands for that disk.

/TIMEOUT=seconds Determines the number of seconds the PCSA Manager waits for a response from the disk server. By default, the PCSA Manager waits 90 seconds. The range is 5 seconds through 65535 seconds.

If the time expires, the PCSA Manager displays a device timeout message. This situation can occur if the VAX computer is heavily loaded and contains many mounted virtual disks. If you see the timeout message, increase the timeout value with this qualifier.

Example

You want only privileged users to create, delete, dismount, modify, mount, or set a virtual disk. Enter the following command:

PCSA_MANAGER> SET DISK_SERVER CHARACTERISTICS /NOUSER MOUNT
%PCSA-I-CHARSET, server characteristics set

Related Commands

None

Related Menu Item

SET DISK_SERVER SERVICE

Purpose

This command changes the characteristics of a mounted virtual disk.

Command Support

This command runs under the supported transport.

Guidelines

You must specify at least one qualifier with the SET DISK_SERVER SERVICE command.

To use this command, the virtual disk must be mounted. Use the SHOW DISK_SERVER SERVICES command to be sure the disk is mounted.

Privileges

To use this command, you must have either write access to the virtual disk file or OPER and SYSPRV privileges.

Format

```
 \begin{array}{c} \text{SET DISK\_SERVER SERVICE service} \\ \left[ \begin{array}{c} \text{/CONNECTIONS=n} \ \mid \ \text{NO\_LIMIT} \\ \text{/[NO]PASSWORD[=password]} \\ \text{/RATING=n} \end{array} \right] \end{array}
```

Parameters

service

Is the name of the service being modified.

1–96	PCSA Manager					
	SET DISK_SERVER SERVICE					

Qualifiers

/CONNECTIONS=n NO_LIMIT	Modifies the maximum number of connections that can be made to a read-only service. n is the maximum number of connections that can be issued from all clients to this service. If you specify NO_LIMIT, any number of connections to the service can be made. PCSA Manager ignores this qualifier if the service is mounted for read/write access.
/[NO]PASSWORD[=password]	Specifies or modifies the service's password. If the service currently has a password, specifying /NOPASSWORD removes the password.
	If you specify /PASSWORD with no password value, the PCSA Manager prompts you for a password and verification. When you type them at the prompts, the characters are not displayed on the screen. If you omit this qualifier, the password is not changed.
/RATING=n	Is a value, from 0 to 65535, for the service rating. The default value is 0. For more information on the service rating, see the MOUNT DISK command.

Example

You want to change the number of connections users can make and the password for the service LOTUS. Enter the following command:

```
PCSA_MANAGER> SET DISK_SERVER SERVICE LOTUS -
PCSA_MANAGER> /CONNECTIONS=2 /PASSWORD
Password:
Verification:
%PCSA-I-SERVICESET, service LOTUS set
```

PCSA Manager 1–97 SET DISK_SERVER SERVICE

Related Commands

None

Related Menu Item

SET FILE_SERVER CHARACTERISTICS

Purpose

This command defines or changes the characteristics of the file server. You must specify at least one qualifier with the SET FILE_SERVER CHARACTERISTICS command.

Command Support

This command runs under the supported transport.

Guidelines

This command is in the default PCFS_STARTUP.COM file. You can edit this file and change this command if you want to set characteristics each time the file server is started. Or you can issue this command interactively.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

```
SET FILE_SERVER CHARACTERISTICS

[/CONNECTIONS=(option[,...])

/[NO]DEFAULT_ACCOUNT[=name]

/FILE_LIMIT=(option[,...])

/SESSION_LIMIT=limit]
```

Parameters

Qualifiers

/CONNECTIONS=(option[,...])

/[NO]DEFAULT_ACCOUNT[=name]

Defines the maximum number of service connections that the file server can establish in total or on a per user basis. The two options are:

TOTAL=keyword, which limits the maximum number of service connections that can be established for all workstations. Enter either an integer value or NO_LIMIT for the keyword. If keyword is NO_ LIMIT, then the number of service connections that can be established to the file server is unlimited.

SESSION=keyword, which limits the maximum number of service connections that can be established for any one workstation. Enter an integer value or NO_LIMIT for the keyword. If keyword is NO_ LIMIT, then the number of service connections that can be established by any one workstation is unlimited.

The default values, which are set as part of the installation procedure, are TOTAL=NO_LIMIT and SESSION=NO_LIMIT.

Is the account in the user authorization file (UAF) that the file server uses for access control when a workstation connects and passes no access control information. The default account is PCFS\$ACCOUNT, which is created at installation. You can change the account name using this qualifier.

To disable the file server from using a default account to connect users, specify /NODEFAULT_ACCOUNT. This will force users to enter a valid user name and password when making file service connections.

1-100 PCSA Manager SET FILE_SERVER CHARACTERISTICS

/FILE_LIMIT=(option[,])	Defines the maximum number of files that the file server can open in total or on a per user basis. The two options are:
	TOTAL=keyword , which limits the maximum number of files that the file server can open for all workstations. Enter an integer or NO_LIMIT for the keyword. If keyword is NO_LIMIT, the maximum number of files is unlimited. For example, to specify a total file limit of 10, type /FILE_ LIMIT=(TOTAL=10).
	SESSION=keyword, which limits the maximum number of files that the file server can open for one workstation. Enter an integer or NO_LIMIT for the keyword. If keyword is NO_LIMIT, the maximum number of files is unlimited. For example, to specify a file limit per session of 10, type /FILE_LIMIT=(SESSION=10).
/SESSION_LIMIT=limit	Defines the maximum number of DECnet sessions (or workstations) the file server supports. For limit, enter an integer or NO_ LIMIT. If limit is NO_LIMIT, then the maximum is determined by local host DECnet configuration parameters.

Example 1

You want to set the maximum number of service connections for the file server to 10 connections. Enter the following command:

PCSA_MANAGER> SET FILE_SERVER CHARACTERISTICS -_PCSA_MANAGER> /CONNECTIONS=(TOTAL=10) %PCSA-I-CHARSET, server characteristics set

Example 2

You want to change the account that the file server checks for access control information when the workstation does not specify it. Enter the following command:

PCSA MANAGER> SET FILE_SERVER CHARACTERISTICS PCSA MANAGER> /DEFAULT_ACCOUNT=FSERVE
%PCSA-I-CHARSET, server characteristics set

Example 3

You want to change the maximum number of files that the file server can open in total and per workstation, and the maximum number of clients that can connect to the file server. Enter the following command:

```
PCSA_MANAGER> SET FILE_SERVER CHARACTERISTICS -

PCSA_MANAGER> /FILE_LIMIT=(TOTAL=20, SESSION=10) -

PCSA_MANAGER> /SESSION_LIMIT=10

%PCSA-I-CHARSET, server characteristics set
```

Related Commands

None

Related Menu Item

SET FILE_SERVER SERVICE

Purpose

This command defines or changes the characteristics of a file or print service. You must specify at least one qualifier with the SET FILE_SERVER SERVICE command.

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

```
SET FILE_SERVER SERVICE service

/ACTIVE | /PERMANENT

/ATTRIBUTES=type

/CONNECTIONS=n | NO_LIMIT

/FILE_LENGTH=ACTUAL | ESTIMATED

/RMS_PROTECTION=mask
```

Parameters

service Is the name of the service being modified.

Qualifiers

ACTIVE |/PERMANENT Specifies whether to modify the permanent file server values stored in the service database (/PERMANENT) or the values the file server is currently using (/ACTIVE). /ACTIVE is the default qualifier.

PCSA Manager 1-103 SET FILE_SERVER SERVICE

/ATTRIBUTES=type	Are the default file attributes used by the file server when creating a file for a file service. The file attribute values are:					
	STREAM, which are RMS stream files					
		SEQUENTIAL_FIXED, which are RMS sequential fixed, 512-byte record files				
	The default val	ue is /ATTRIBUTES=STREAM.				
	by an applicati and a VAX com	ier only when the files are used on running on both a workstation aputer, and when the application ntial fixed, 512-byte record files on ater.				
	For example, to use the same files with WPS- PLUS/PC and WPS-PLUS/VMS, specify this qualifier so that the file server creates sequential fixed, 512-byte record files that the VAX application can use.					
	This qualifier overrides the /ATTRIBUTES qualifier specified in the ADD SERVICE commands. This qualifier is ignored for print services.					
/CONNECTIONS=n NO_ LIMIT	Defines the maximum number of service connections that can be made to the service. Fo limit, enter an integer value or NO_LIMIT, whi means there is no limit to the number of servic connections that can be established.					
/FILE_LENGTH=ACTUAL ESTIMATED	Specifies whether the file server should determine an actual or estimated file length for non-stream files:					
	ACTUAL	Tells the file server to determine the actual file length in bytes.				
		Use the /FILE_LENGTH=ACTUAL qualifier with caution because it can degrade file server performance.				
	ESTIMATED	Tells the file server to estimate the file length based on the end- of-file pointer. ESTIMATED is the default.				

1–104 PCSA Manager SET FILE_SERVER SERVICE

This qualifier is ignored for print services.

/RMS_PROTECTION=mask Establishes a default RMS protection mask for files created with this service. You can modify this protection when you grant a user or group access to the service. The default protection mask is SYSTEM:RWED, OWNER:RWED, GROUP:, WORLD:.

After you set the RMS protection, that protection affects all new files that are created in the file service.

Example 1

You want to change the value in the file server database for the maximum number of connections. Enter the following command:

```
PCSA MANAGER> SET FILE_SERVER SERVICE VXSYS -
 PCSA MANAGER> /CONNECTIONS=10 /PERMANENT
%PCSA-I-SERVICESET, service VXSYS set
```

Example 2

You want to change the value that the file server currently uses for the maximum number of connections. Enter the following command:

```
PCSA_MANAGER> SET FILE_SERVER SERVICE /CONNECTIONS=10 /ACTIVE
%PCSA-I-SERVICESET, service VXSYS set
```

Related Commands

None

Related Menu Item

SHOW CLIENT_OS

Purpose

This command displays a list of currently configured client operating systems.

Command Support

This command runs under the supported transport.

Privileges

You do not need privileges to use this command.

Format

SHOW CLIENT_OS [/CLIENT_VERSION=nm]

Parameters

None

Qualifiers

/CLIENT_VERSION=nm You can list the client operating systems by client version. To list Version 4.0, specify 40 for client version. If you omit the client version, the most recent version is displayed.

1–106 PCSA Manager SHOW CLIENT_OS

Example

You want to display client operating systems. Enter the following command:

 PCSA_MANAGER>
 SHOW CLIENT_OS/CLIENT_VERSION=40

 Client Operating Systems:

 System
 VAXmate

 Version
 Comment

 ISSYSD33
 No
 33

NOTE

What is displayed on the screen varies with different client operating system versions.

Related Commands

None

Related Menu Item

Workstation Options Remote Boot Workstation Options List Client Operating Systems

SHOW DISK_SERVER CHARACTERISTICS

Purpose

This command displays the current characteristics of the disk server. The display includes the current disk server timeout value (in seconds) and whether non-privileged users can create, delete, dismount, modify, mount, or set virtual disks.

Command Support

This command runs under the supported transport.

Guidelines

To change the disk server characteristics, use the SET DISK_SERVER CHARACTERISTICS command.

Privileges

You do not need privileges to use this command.

Format

SHOW DISK_SERVER CHARACTERISTICS

Parameters

None

Qualifiers

1–108 PCSA Manager SHOW DISK_SERVER CHARACTERISTICS

Example

You want to know whether non-privileged users can create, delete, dismount, modify, mount, or set virtual disks. Enter the following command:

PCSA_MANAGER> SHOW DISK_SERVER CHARACTERISTICS
Disk Server characteristics:
Disk Server request timeout: 30
All users may perform virtual disk functions.

Related Commands

None

Related Menu Item

SHOW DISK_SERVER CONNECTIONS

Purpose

This command displays the current connection information for the disk server.

Command Support

This command runs under the supported transport.

Guidelines

The information displayed includes:

- The workstation name.
- The service name.
- The access that the workstation has to the services. Access can be read-only (RO) or read-write (RW).
- The virtual disk name, which is also known as a container file name.

Privileges

You do not need privileges to use this command.

Format

SHOW DISK_SERVER CONNECTIONS [/CLIENT=name /SERVICE=name]

Parameters

None

Qualifiers

- /CLIENT=name Restricts the display to the connections for the specified workstation.
- /SERVICE=name Restricts the display to the connections for the specified service name.

1–110 PCSA Manager SHOW DISK_SERVER CONNECTIONS

Example 1

You want to display the connection information for node FLUX to the service PCSA\$DOS_SYSTEM_V30. Enter the following command:

Example 2

You want to display connection information for all workstations to the service VXSYS. Enter the following command:

PCSA_MANAGER> SHOW DISK_SERVER CONNECTIONS/SERVICE=PCSA\$DOS_SYSTEM_V30 Disk server connections:

Client	Service name	Acc	Container File
DANY	PCSA\$DOS_SYSTEM_V30	RO	DUA0:[LADDIR]VXSYS.DSK
FLUX	PCSA\$DOS_SYSTEM_V30	RO	DUA0:[LADDIR]VXSYS.DSK
SKYBLU	PCSA\$DOS SYSTEM V30	RO	DUA0:[LADDIR]VXSYS.DSK
LAVERN	PCSA\$DOS_SYSTEM_V30	RO	DUA0:[LADDIR]VXSYS.DSK

Related Commands

None

Related Menu Item

SHOW DISK_SERVER COUNTERS

Purpose

This command displays the current disk server counters. The disk server maintains counters for the disk server cache, services, and workstations.

Command Support

This command runs under the supported transport.

Guidelines

If you specify the SHOW DISK_SERVER COUNTERS command with no qualifiers, the disk server displays all counters.

Privileges

You do not need privileges to use this command.

Format

	[/CACHE]	
SHOW DISK_SERVER COUNTERS	/CLIENT[=name]	
	[/SERVICE[=name]]	

Parameters

None

Qualifiers

/CACHE Displays the current cache counters, which include: The current cache size

1–112 PCSA Manager SHOW DISK SERVER COUNTERS

The number of cache hits (the number of blocks not read due to the cache) and the cache hit rate. If the disk server performance decreases and the cache hit rate is low (less than 50%), you can increase the cache size until you see an increase in the cache hit rate. See the START DISK_SERVER CONNECTIONS command.

The number of read requests and blocks written

The number of write requests and blocks written

/CLIENT[=name] Displays the client counters for all workstations or the specified workstation. The counters include:

The service name

The client name

The number of read requests and blocks read

The number of write requests and blocks written

/SERVICE[=name] Displays the service counters for all services or the specified service. Use this qualifier and the /CLIENT qualifier to restrict the display to client counters for a specified service. The counters include:

The service name

The current number of users of the service

The number of read requests and blocks read

The number of write requests and blocks written

Example 1

You want to display the client counters for the workstation LAVERN using the service PCSA\$DOS_SYSTEM_V30. Enter the following command:

PCSA_MANAGER> SHOW DISK_SERVER COUNTERS -_PCSA_MANAGER> /CLIENT=LAVERN /SERVICE=PCSA\$DOS_SYSTEM_V30

Disk server client counters:

Service Name	Client	Read Reqs/Blocks	Writes Reqs/Blocks
our our and was not use our out our out out			
PCSA\$DOS_SYSTEM_V30	LAVERN	776/2211	0/0

Example 2

You want to display the cache counters for the disk server. Enter the following command:

PCSA_MANAGER> SHOW DISK_SERVER COUNTERS /CACHE Disk server cache counters: Cache size Cache hits/Rate % Read Reqs/Blocks Write Reqs/Blocks 512 1005799/73 221021/1372703 303363/353698

Example 3

You want to display the service counters for the service VXSYS. Enter the following command:

PCSA_MANAGER> SHOW DISK_SERVER COUNTERS/SERVICE=PCSA\$DOS_SYSTEM_V30

Disk server service counters:

Service name	Users	Read Reqs/Blocks	Writes Reqs/Blocks
man and and and and the loss had been had not not			
PCSA\$DOS_SYSTEM_V30	3	1208/4176	0/0

Related Commands

None

Related Menu Item

SHOW DISK_SERVER SERVICES

Purpose

This command displays information about a disk service. If you type this command with no qualifiers, the PCSA Manager displays all services available on the current node.

Command Support

This command runs under the supported transport.

Guidelines

The PCSA Manager displays the following information about each service:

- The service name. If the service is boot service, the PCSA Manager displays the service name, which is the workstation's Ethernet address, and the workstation's DECnet node name (in parentheses).
- The type of service. See the /TYPE qualifier described below for more information on the types of services.
- The node name of the server offering the service.
- The number of connections that can be established to the service. You can change the number of connections with the SET DISK_SERVER SERVICES command.
- The current number of users of the service. In a VAXcluster, this value is only displayed for services mounted on the current node.
- \bullet $\,$ The access the user has to the service. Access can be read-only (RO) or read-write (RW).
- The rating assigned to the service. You can change the rating with the SET DISK_SERVER SERVICE command.
- The mount status of the service. The status can be:
 - MNT (mounted)
 - MNT PERM (mounted permanent)
 - DISMNT PERM (dismounted permanent)

- PEND (pending), which means that the request to mount the disk is pending because the disk is already mounted on another node in the cluster with conflicting access. For example, the status is PEND if a disk is mounted read-write and you attempt to mount it read-only or read-write on another node in the cluster.
- PEND PERM (pending permanent), which means the same as PEND, except that the virtual disk is a permanent entry in the service database.
- The virtual disk (container file) name, if you specify the /FULL qualifier.

Privileges

You do not need privileges to use this command.

Format

	/CLUSTER[=(node,)]	
SHOW DISK_SERVER SERVICES	/SERVICE=name	
	/TYPE = (class[])	

Parameters

None

Qualifiers

/CLUSTER=[(node,)]	Displays service information for all nodes or the specified node(s) in a cluster. If you omit this qualifier, the PCSA Manager displays information for services available on the current node.			
/[NO]FULL	Includes the virtual disk file specification in the information display. If you specify /NOFULL, which is the default, the file specification is not included.			
/SERVICE=name	Is the service for which information is displayed.			

1–116 PCSA Manager SHOW DISK_SERVER SERVICES

/TYPE=class[,..] Specifies whether or not to display information for the specified service class. If you omit this qualifier, the PCSA Manager displays information for all services. The classes are:

[NO]ALL	Information for all services
[NO]APPLICATION	Information for application services
[NO]BOOT[:client]	Information all boot services or a specified boot service
[NO]SYSTEM	Information for system services
[NO]USER	Information for user services

Example 1

You want to display information about all services offered on a cluster. Enter the following command:

PCSA MANAGER> SHOW DISK_SERVER SERVICES /CLUSTER

Disk server services:

Service name	Туре	Server	Limit	Users	Acc	Rating	Status
08-00-2B-02-7	8-78 ((GREEN)					
	BOOT	NODE1	1		RW	1	MNT PERM
08-00-2B-03-0	2-E4 ((YELLOW)					
	BOOT	NODE2	1	0	RW	1	MNT PERM
JOHN	USER	NODE1	1		RW	1	MNT PERM
MARY	USER	NODE1	1		RW	1	MNT PERM
DENNIS	USER	NODE2	1	1	RW	1	MNT PERM
SANDY	USER	NODE1	1		RW	1	MNT PERM
JAMES	USER	NODE1	1		RW	1	MNT PERM
PATTY	USER	NODE1	1		RW	1	MNT PERM
ISSYS	SYST	NODE 2	100	0	RO	1	MNT PERM
TONY	USER	NODE1	1		RW	1	MNT PERM
MARK	USER	NODE1	1		RW	1	MNT PERM
JOAN	USER	NODE1	1		RW	1	MNT PERM
PAUL	USER	NODE1	1		RW	1	MNT PERM
TERESA	USER	NODE1	1		RW	1	MNT PERM
SUSAN	USER	NODE2	1	0	RW	44	MNT PERM
VXSYS	SYST	NODE2	100	4	RO	1	MNT PERM

Example 2

You want to display information about boot services (network key disks). Enter the following command:

Example 3

You want to display information about all services except boot services. Enter the following command:

PCSA MANAGER> SHOW DISK SERVER SERVICES/TYPE=NOBOOT

Disk server services:

Service name	Туре	Server	Limit	Users	Acc	Rating	Status	
JOHN	USER	NODE1	1		RW	1	MNT	PERM
MARY	USER	NODE1	1		RW	1	MNT	PERM
DENNIS	USER	NODE2	1	1	RW	1	MNT	PERM
SANDY	USER	NODE1	1		RW	1	MNT	PERM
JAMES	USER	NODE1	1		RW	1	MNT	PERM
PATTY	USER	NODE1	1		RW	1	MNT	PERM
ISSYS	SYST	NODE2	100	0	RO	1	MNT	PERM
TONY	USER	NODE1	1		RW	1	MNT	PERM
MARK	USER	NODE1	1		RW	1	MNT	PERM
JOAN	USER	NODE1	1		RW	1	MNT	PERM
PAUL	USER	NODE1	1		RW	1	MNT	PERM
TERESA	USER	NODE1	1		RW	1	MNT	PERM
SUSAN	USER	NODE2	1	0	RW	44	MNT	PERM
VXSYS	SYST	NODE2	100	4	RO	1	MNT	PERM

1–118 PCSA Manager SHOW DISK_SERVER SERVICES

Related Commands

None

Related Menu Item

SHOW FILE_SERVER CHARACTERISTICS

Purpose

This command displays the current characteristics of the file server.

Command Support

This command runs under the supported transport.

Guidelines

To change a file server characteristic, use the SET FILE_SERVER CHARACTERISTICS command.

Privileges

You do not need privileges to use this command.

Format

SHOW FILE_SERVER CHARACTERISTICS

Parameters

None

Qualifiers

1–120 PCSA Manager SHOW FILE_SERVER CHARACTERISTICS

Example

You want to display the current file server characteristics. Enter the following command:

PCSA_MANAGER> SHOW FILE_SERVER CHARACTERISTICS File Server characteristics: Total server wide sessions : NO LIMIT Total server wide connections : NO LIMIT Total connections per session : NO LIMIT Total server wide open files : NO LIMIT Total open files per session : NO LIMIT File server buffer size in Kbyte : 8 Open file buffer cache enabled : TRUE File cache size in pages : 1024 Server default account : PCFS\$ACCOUNT

Related Commands

None

Related Menu Item

SHOW FILE_SERVER CONNECTIONS

Purpose

This command displays a list of active connections to the file server. You can display the list of connections for:

- All connections
- A particular client
- A particular service

Command Support

This command runs under the supported transport.

Guidelines

The PCSA Manager displays the following information for each connection:

- The connection ID, which is the unique identifier the file server assigns to each connection
- The workstation's DECnet node name
- The user name specified to make the connection
- The alias name for the service
- The service name
- The access allowed to the service
- The service's root directory specification, if you specify the /FULL qualifier

Privileges

You do not need privileges to use this command.

Format

SHOW FILE_SERVER CONNECTIONS //[NO]FULL

/CLIENT=name /[NO]FULL /SERVICE=name

Parameters

None

Qualifiers

/CLIENT=name	Restricts the display to the specified client.
/[NO]FULL	Includes the service's root directory in the information displayed. /NOFULL is the default.
/SERVICE=name	Restricts the display to the specified service.

Example 1

You want to display all connections to the file server. Enter the following command:

 PCSA_MANAGER>
 SHOW FILE_SERVER CONNECTIONS

 File Server connections:
 Alias name
 Service name
 Acc

 0
 ERICA
 SMITH
 SMITH
 SMITH
 RWC

 2
 ERICA
 PCFS\$ACCOUNT
 LN03_DPORT
 LN03_DPORT
 RWC

 65536
 GREEN
 PCFS\$ACCOUNT
 LN03_DPORT
 LN03_DPORT
 RWC

 131072
 YELLOW
 PCFS\$ACCOUNT
 LN03_DPORT
 LN03_DPORT
 RWC

 262144
 MITCH
 JONES
 JONES
 JONES
 RWC

 262145
 MITCH
 PCFS\$ACCOUNT
 LN03_DPORT
 LN03_DPORT
 RWC

 262146
 MITCH
 PCFS\$ACCOUNT
 LN03_DPORT
 LN03_DPORT
 RWC

 262147
 MITCH
 PCFS\$ACCOUNT
 LN03_DPORT
 LN03_DPORT
 RWC

 262147
 MITCH
 PCFS\$ACCOUNT
 LN03_DPORT
 LN03_DPORT
 RWC

Example 2

You want to display the connections to the service LN03_DPORT. Enter the following command:

 PCSA_MANAGER>
 SHOW FILE_SERVER CONNECTIONS /SERVICE=LN03_DPORT

 File Server connections:
 Connect ID
 Client
 User name
 Alias name
 Service name
 Acc

 2
 ERICA
 PCFS\$ACCOUNT
 LN03_DPORT
 LN03_DPORT
 RWC

 65536
 GREEN
 PCFS\$ACCOUNT
 LN03_DPORT
 LN03_DPORT
 RWC

 131072
 YELLOW
 PCFS\$ACCOUNT
 LN03_DPORT
 LN03_DPORT
 RWC

 262146
 MITCH
 PCFS\$ACCOUNT
 LN03_DPORT
 LN03_DPORT
 RWC

Related Commands

None

Related Menu Item

SHOW FILE_SERVER COUNTERS

Purpose

This command monitors performance on the file server and displays statistics for:

- Open file caching
- Network efficiency
- Data caching

Command Support

This command runs under the supported transport.

Guidelines

If you specify the SHOW FILE_SERVER COUNTERS with no qualifiers, all the counters are displayed.

Privileges

You do not need privileges to use this command.

Format

	r /BUFFER_CACHE ٦
	/BUFFER_CACHE /FILE=[name]
SHOW FILE_SERVER COUNTERS	/GLOBAL
	/NETWORK
SHOW FILE_SERVER COUNTERS	/OPEN_FILE_CACHE]

Parameters

PCSA Manager 1–125 SHOW FILE_SERVER COUNTERS

Qualifiers

/BUFFER_CACHE	Displays information about data caching, including:		
	Disk reads, the number of times the disk is read		
	Disk writes, the number of times the disk is written to		
	Buffer waits, the number of times the buffers are busy		
	Serial waits, the number of times a read or write request cannot complete because the operation is waiting for another event to complete		
	Not-in-cache, the number of times a buffer is not in cache when requested		
	Read waits, the number of times a read is requested, but the data is not completely transferred from disk to cache		
	Read tries, the total number of times the server tried to read data in cache		
	File extended, the number of times the file to be written from the cache onto disk is larger than the file written from disk into cache		
/FILE[=name]	Displays statistics for individual files that are currently open. Use a filename that conforms to the VMS file specification.		
/GLOBAL	Displays information for the file server.		
/NETWORK	Displays the number of:		
	Requests to read		
	Requests to write		
	Bytes read from disk or cache		
	Bytes written to disk or cache		
/OPEN_FILE_ CACHE	Displays statistics of open file caching, such as:		
	Cache hit, the number of times a user requests a file to be opened and that file is already in the open file cache		
	Cache miss, the number of times a user requests a file to be opened and that file is not in the open file cache		
	Hit rate, the number of cache hits divided by the total of cache hits plus cache misses		

1–126 PCSA Manager SHOW FILE_SERVER COUNTERS

Example 1

You want to display the read and write requests and bytes read and written. Enter the following command:

PCSA_MANAGER> SHOW FILE_SERVER COUNTERS /NETWORK /GLOBAL File server global statistic : SMB Read Requests SMB Write Requests Bytes Read Byte Written 183 6 15764 88

Example 2

You want to display statistics for data caching. Enter the following command:

 PCSA_MANAGER>
 SHOW FILE_SERVER COUNTERS /BUFFER_CACHE /GLOBAL

 File server Global buffer cache counters :

 Disk Reads
 Disk Writes

 Buffer Waits
 Serial Waits

 12
 0
 1

 Not-in-Cache
 Read Waits
 Reads Tries

 1
 2
 10
 0

Related Commands

None

Related Menu Item

SHOW FILE_SERVER OPEN_FILES

Purpose

This command displays a list of files currently opened by the file server. You can display a list of open files for all clients or for a particular client. The list of open files includes:

- File ID
- The workstation connected to the file
- The file specification
- The file size
- The number of locks currently on the file

Command Support

This command runs under the supported transport.

Privileges

You do not need privileges to use this command.

Format

SHOW FILE_SERVER OPEN_FILES [/CLIENT=name]

Parameters

None

Qualifiers

/CLIENT=name Is the client for whom a list of open files is displayed.

1–128 PCSA Manager SHOW FILE_SERVER OPEN_FILES

Example

You want to display all files opened by client YELLOW. Enter the following command:

PCSA MANAGER> SHOW FILE_SERVER OPEN_FILES/CLIENT=YELLOW

File Server Open Files:

File ID	Client	File name	File size	Locks
0	YELLOW	DUA0:[BIGMAX]TEST1.DAT	200	0
1	YELLOW	DUA0:[BIGMAX]TEST2.DAT	1543	1

Related Commands

None

Related Menu Item

SHOW FILE_SERVER SERVICES/ACTIVE

Purpose

This command displays information about active file or print services. Active file or print services are services to which clients are connected.

Command Support

This command runs under the supported transport.

Guidelines

The information displayed about active services includes:

- The service name
- The service type (USER, SYSTEM, APPLICATION, COMMON, or PRINTER)
- The file attribute (STR for stream and SEQ for sequential fixed) and the file length (EST for estimated and ACT for actual)
- The connections limit for the service
- The number of users connected to the service

This command also displays a service with no users if the service was modified with the SET FILE_SERVER SERVICES/ACTIVE command.

The /ACTIVE qualifier is the default for the SHOW FILE_SERVER SERVICES command.

Privileges

You do not need privileges to use this command.

Format

SHOW FILE_SERVER SERVICES /ACTIVE [/SERVICE=name //TYPE=class]
Parameters

None

Qualifiers

- /SERVICE=name Is the service for which you want information. If you omit this qualifier, the PCSA Manager displays information for all active services.
- /TYPE=(class[,..]) Specifies whether to display information for the specified service class. If you omit this qualifier, the PCSA Manager displays information for all service types. The classes are:

[NO]ALL

[NO]APPLICATION

[NO]SYSTEM

[NO]COMMON

[NO]USER

[NO]PRINTER

Example 1

You want to display all services that workstations are currently using. Enter the following command:

PCSA MANAGER> SHOW FILE SERVER SERVICES

File Server active services:

Service name	Service type	Att/Len	Limit	Users
SMITH	USER	STR/EST	NONE	1
LN03_DLAND	PRINTER	STR/EST	NONE	2
LN03_DPORT	PRINTER	STR/EST	NONE	4
PCCOMMON	APPLICATION	STR/EST	NONE	1
VXSYS	SYSTEM	STR/EST	NONE	5
ZACHARY	USER	STR/EST	NONE	1
JONES	USER	STR/EST	NONE	1

PCSA Manager 1-131 SHOW FILE_SERVER SERVICES/ACTIVE

Example 2

You want to display information about the active print service LN03_DPORT. Enter the following command:

PCSA_MANAGER> SHOW FILE_SERVER SERVICES/SERVICE=LN03 DPORT

File Server active services:

Service name	Service type	Att/Len	Limit	Users
LN03_DPORT	PRINTER	STR/EST	NONE	4

Related Commands

None

Related Menu Item

SHOW FILE_SERVER SERVICES/AUTHORIZED

Purpose

This command displays information about granted file or print services.

Command Support

This command runs under the supported transport.

Guidelines

The information is displayed from the entries in the service database. You can display information by alias, user name, service, or group. The information displayed includes:

- The user name or group name (enclosed in angle brackets)
- The alias for the service
- The service name
- The access that the user or group has to the service (R for read access, W for write access, and C for create access)
- The RMS protection for the files that the specified user creates in the service

Privileges

You do not need privileges to use this command.

Format

SHOW FILE_SERVER SERVICES /AUTHORIZED /ALIAS=name /GROUP=PUBLIC /SERVICE=name /USERNAME=name

Parameters

None

Qualifiers

/ALIAS=name	Is an alias for which you want to display services.
/GROUP=PUBLIC	Is the group name for which you want to display services. PUBLIC is the only currently supported group name. Do not use this qualifier with the /USERNAME qualifier.
/SERVICE=name	Is the service about which you want to display information.
/USERNAME=name	Is the user name for which you want to display services. Do not use this qualifier with the /GROUP qualifier.

Example 1

You want to know what users and groups have access to file and printer services. Enter the following command:

1–134 PCSA Manager SHOW FILE_SERVER SERVICES/AUTHORIZED

Example 2

You want to know the services authorized for alias PCCOMMON. Enter the following command:

 PCSA_MANAGER>
 SHOW FILE_SERVER SERVICES/AUTHORIZED/ALIAS=PCCOMMON

 File Server Authorized Services:
 User name
 Alias name
 Service name
 Access
 RMS Protection

 <PUBLIC>
 PCCOMMON
 PCCOMMON
 RWC
 S:RWED,0:RWED,G:,W:

Example 3

You want to display all file and print services authorized for user RIES. Enter the following command:

 PCSA_MANAGER>
 SHOW FILE_SERVER SERVICES/AUTHORIZED/USERNAME=RIES

 File Server Authorized Services:

 User name
 Alias name

 Service name
 Access

 RMS
 Protection

 RIES
 VXSYS

 VXSYS
 RWC

 S:RWED,0:RWED,G:,W:

Example 4

You want to know all the authorized users of file service WPS. Enter the following command:

PCSA Manager 1-135 SHOW FILE_SERVER SERVICES/AUTHORIZED

Example 5

You want to display all file and print services that have public access. Enter the following command:

Related Commands

None

Related Menu Item

SHOW FILE_SERVER SERVICES/REGISTERED

Purpose

This command displays information about registered file and print services.

Command Support

This command runs under the supported transport.

Guidelines

A registered file or print service is one defined with the ADD SERVICE/DIRECTORY or ADD SERVICE/PRINTER command. The information is displayed from the entries in the service database. For file services, the display includes:

- The service name
- The service's root directory
- The service type (SYSTEM, APPLICATION, COMMON, or USER)
- The file attribute (STR for stream and SEQ for sequential fixed) and the file length (EST for estimated and ACT for actual)
- The connections limit for the service
- The RMS protection used for the service, if you specify the /FULL qualifier

For print service, the display includes:

- The service name
- The service's spool directory
- The service's queue name
- The service's form name
- The connections limit for the service
- The RMS protection used for the service, if you specify the /FULL qualifier

Privileges

You do not need privileges to use this command.

Format

SHOW FILE_SERVER SERVICES /REGISTERED [/DIRECTORY | /PRINTER /[NO]FULL /SERVICE=name

Parameters

None

Qualifiers

/DIRECTORY /PRINTER	Displays either file services or print services.		
	If you omit both qualifiers, the PCSA Manager displays both file and print services.		
/[NO]FULL	Includes the default protection mask in the information displayed. /NOFULL is the default.		
/SERVICE=name	Is the service for which information is displayed. If you omit this parameter, the PCSA Manager displays information for all registered services.		

1–138 PCSA Manager SHOW FILE_SERVER SERVICES/REGISTERED

Example

You want to display all services currently registered with the file server. Enter the following command:

PCSA_MANAGER> SHOW FILE_SERVER SERVICES/REGISTERED						
File Server 1	Registered Directory	Servic	ces:			
Service name	Root directory	S	Service	type	Att/Len	Limit
ISSYS PCCOMMON VXSYS	,	MMON] C	SYSTEM COMMON SYSTEM		STR/EST STR/EST STR/EST	NONE
File Server Registered Printer Services:						
Service name	Spool directory	Queue	Name	Form	Name	Limit
LN03_DLAND	SYSSSYSDEVICE: [PCFS		.LNO3_DI		DLAND	NONE
LN03_DPORT	SYSSSYSDEVICE: [PCFS	_SPOOL.	.LN03_DE		3_DPORT	NONE

Related Commands

None

Related Menu Item

SHOW FILE_SERVER SESSIONS

Purpose

This command displays a list of DECnet sessions currently active with the file server. You can display a list of sessions for all clients or one particular client. The display includes:

- The session ID, which is a unique identifier the file server assigns for each connected workstation
- The name of the workstation that has an active session
- The number of connections the workstation has for the session
- The number of open files the workstation has for the session

Command Support

This command runs under the supported transport.

Privileges

You do not need privileges to use this command.

Format

SHOW FILE_SERVER SESSIONS [/CLIENT=name]

Parameters

None

Qualifiers

/CLIENT=name Is the client for which you want to display information.

1–140 PCSA Manager SHOW FILE_SERVER SESSIONS

Example

You want to display all clients that are connected to the file server. Enter the following command:

PCSA_MANAGER> SHOW FILE_SERVER SESSIONS File Server sessions: Session ID Client Connections Open files 0 FRED 2 3 1 BARNEY 5 10

Total of 2 sessions, 7 connections and 13 open files

Related Commands

None

Related Menu Item

SHOW FILE_SERVER STATUS

Purpose

This command displays status information about the file server. The information this command displays includes:

- Whether the server is accepting or rejecting connection requests
- Whether the server is accepting or rejecting connection requests from nodes that are not registered
- The name of the current server log file
- Events currently being logged

Command Support

This command runs under the supported transport.

Privileges

You do not need privileges to use this command.

Format

SHOW FILE_SERVER STATUS

Parameters

None

Qualifiers

1–142 PCSA Manager SHOW FILE_SERVER STATUS

Example

You want to display the current file server status. Enter the following command:

PCSA_MANAGER> SHOW FILE SERVER STATUS

File Server status:

Server is accepting connection requests. Server will refuse users that are not registered.

File Server logging status:

Logfile : PCFS_SERVER.LOG Logging events : CONNECTIONS, ERRORS, FATAL, PROTOCOL, SECURITY

Related Commands

None

Related Menu Item

SHOW GROUP

Purpose

This command displays information about a user, group, or all groups.

Command Support

This command runs under the supported transport.

Guidelines

You cannot displays information about the group PUBLIC.

Privileges

You do not need privileges to use this command.

Format

SHOW GROUP [/GROUP=groupname /MEMBERS /USERNAME=username

Parameters

None

Qualifiers

 /GROUP=
 Is the name of the group about which you want to display information.

 If you specify /GROUP, you cannot specify /USERNAME.

 /MEMBER
 Displays the members of the specified group.

 If you specify /MEMBERS, you cannot specify /USERNAME.

1–144 PCSA Manager SHOW GROUP

/USERNAME= Is the user name of the member about whom you want to display information.

If you specify /USERNAME, you cannot specify /GROUP or /MEMBERS.

Example 1

You want to displays the names of all the groups. Enter the following command:

PCSA_MANAGER> SHOW GROUP Registered groups: Group name ------GROUP1 GROUP2 GROUP3 GROUP4 GROUP5 Total of 5 registered groups

Example 2

You want to display the names of all the members in GROUP1. Enter the following command:

Example 3

You want to display all group information about the user USER1. Enter the following command:

PCSA MANAGER> SHOW GROUP /USERNAME=USER1

Registered groups

Group name	User name
GROUP1	USER1
GROUP 3	USER1
GROUP5	USER1

Total of 3 registered group

Related Commands

None

Related Menu Item

User Options Group Options List Registered Groups

SHOW TEMPLATES

Purpose

This command displays the templates defined for remote boot workstations.

Command Support

This command runs under the supported transport.

Privileges

You do not need privileges to use this command.

Format

SHOW TEMPLATES

Parameters

None

Qualifiers

None

Example

You want to display the template for remote boot workstations. Enter the following command:

PCSA_MANAGER> SHOW TEMPLATES	
Workstation Templates:	
Template Name	Comment
TESTLAB PROTO	Standard test environment Prototype

Related Commands

None

Related Menu Item

SHOW USERS

Purpose

This command displays a list of currently registered PCSA users.

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

SHOW USERS [/USERNAME=name]

Parameters

None

Qualifiers

/USERNAME=name	Restricts the display of information to that of the specified
	user. Enter a user name of 1 to 12 characters.

Example

You want to display a list of currently-registered PCSA users. Enter the following command:

PCSA_MANAGER> SHOW USERS

Related Commands

None

Related Menu Item

User Options List Registered Users

SHOW VERSION

Purpose

This command displays the current version numbers for the VMS server software.

Command Support

This command runs under the supported transport.

Privileges

You do not need privileges to use this command.

Format

SHOW VERSION

Parameters

None

Qualifiers

None

Example

You want to display the version numbers for the VMS server software. Enter the following command:

PCSA_MANAGER> SHOW VERSION

LAD\$KERNEL version : LAD\$KERNEL V1.2 LADDRIVER version : LADDRIVER V1.2 PCFS_SERVER version : DEC LanWORKS for VMS V4.0 PCSA_MANAGER version : PCSA_MANAGER V4.0

Related Commands

None

Related Menu Item

SHOW WORKSTATIONS

Purpose

This command displays a list of workstations configured for remote boot.

Command Support

This command runs under the supported transport.

Privileges

You do not need privileges to use this command.

Format

SHOW WORKSTATIONS

Parameters

None

Qualifiers

None

Example

You want to see which workstations are configured for remote boot. Enter the following command:

PCSA_MANAGER> SHOW WORKSTATIONS				
Register	red Remote Boot Workstation	s:		
Name CHAIS WENDY	Hardware Address Address 08-00-3B-04-91-C6 3.854 08-00-2B-07-21-46 3.021	DEPCA.TSK	Size 1.2MB 1.2MB	Comment NETSETUP_V3.0 NETSETUP_V3.0
Total o	f 2 registered remote boot	workstations		

PCSA Manager 1–153 SHOW WORKSTATIONS

Related Commands

None

Related Menu Item

START DISK_SERVER CONNECTIONS

Purpose

This command starts the disk server after the driver is loaded.

Command Support

This command runs under the supported transport.

Guidelines

The disk server startup file, LAD_STARTUP.COM contains the command to load the driver and the command to start the disk server automatically.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

START DISK_SERVER CONNECTIONS [/CACHE=size]

Parameters

Qualifiers

/CACHE=size Defines the size of the disk server cache. The cache size is the amount of non-paged dynamic memory in pages used for disk caching. The cache size is limited by the amount of non-paged dynamic memory, which is determined by the NPAGEDYN and NPAGEVIR SYSGEN parameters.

The START DISK_SERVER CONNECTIONS command in the LAD_STARTUP.COM file sets the cache to 512 pages by default. To change the cache size, dismount all disks and restart the disk server specifying the new cache size.

The /CACHE qualifier can affect disk server performance depending on the amount of access to disk server services. To determine if the cache size is adequate, use the SHOW DISK_ SERVER COUNTERS /CACHE command and check the cache hit rate. If it is low (less than 50%), increase the cache size until you see an increase in the cache hit rate.

Example

You want to start the disk server and set the cache to 768. Enter the following command:

PCSA MANAGER> START DISK SERVER CONNECTIONS /CACHE=768 %PCSA-I-CACHESET, server cache size set to 768

Related Commands

None

Related Menu Item

START FILE_SERVER CONNECTIONS

Purpose

This command allows the file server to accept service connections.

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

START FILE_SERVER CONNECTIONS [/[UN]REGISTERED]

Parameters

None

Qualifiers

/[UN]REGISTERED //UNREGISTERED allows workstations that are not registered in the DECnet node database to connect to the file server. This is the default. /REGISTERED allows only registered workstations to connect to the file server.

Example 1

You want to enable the file server to accept connections from unregistered DECnet nodes. Enter the following command:

PCSA_MANAGER>. START FILE_SERVER CONNECTIONS /UNREGISTERED %PCSA-I-UNREGCON, File Server will accept unregistered connections

PCSA Manager 1-157 START FILE_SERVER CONNECTIONS

Example 2

You want to enable the file server to accept connections from registered DECnet nodes only. Enter the following command:

PCSA_MANAGER> START FILE SERVER CONNECTIONS %PCSA-I-NOUNREGCON, File Server will refuse unregistered connections

Related Commands

None

Related Menu Item

START FILE_SERVER LOGGING

Purpose

This command turns on logging of file server events. You can also open a new log file with this command.

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

START FILE_SERVER LOGGING [/EVENTS=option[,...] /LOG_FILE=name]

Parameters

Qualifiers

/EVENTS=(option[,...]) Starts logging one or more of the events in the following
 list:

Event type	Function
ALL	All event types
CONNECTIONS	Connections to services
DEFAULT	Default events
ERRORS	Nonfatal errors
FATAL	Fatal errors
LOCKS	MS-DOS file lock and unlock requests
OPENS	File open and close requests
OPERATOR	Operator actions
PROTOCOL	Protocol errors
READS	File read and write requests
SECURITY	Security violations
SESSIONS	DECnet connections

By default, the server logs ERRORS, FATAL, OPERATOR, PROTOCOL, and SECURITY. If you omit this qualifier, the current log file is closed and a new log file is created. The new log file name is the default log file name unless overridden with the /LOG_FILE qualifier.

/LOG_FILE=name Is a log file name. If logging is currently started, the old log file is closed and a new log file is opened.

1–160 PCSA Manager START FILE_SERVER LOGGING

Example 1

You want to log the file server events CONNECTIONS and LOCKS. Enter the following command:

```
PCSA_MANAGER> START FILE_SERVER LOGGING/EVENTS=(CONNECTIONS,LOCKS)
%PCSA-I-LOGCHARSET, server logging characteristics set
```

Example 2

You want to log the file server event SESSIONS and open a new log file. Enter the following command:

```
PCSA_MANAGER> START FILE_SERVER LOGGING/EVENTS=(SESSIONS) -
    PCSA_MANAGER> /LOG_FILE=NEWLOG.LIS
%PCSA-I-LOGCHARSET, server logging characteristics set
```

Related Commands

None

Related Menu Item

STOP DISK_SERVER CONNECTIONS

Purpose

This command:

- Stops the disk server
- Breaks all connections to the disk server
- Dismounts all mounted virtual disks
- Stops the LAD\$KERNEL process

NOTE

Depending on the number of virtual disks mounted and the current load on the system, this could take a minute or so before the LAD\$KERNEL process actually stops.

To restart the disk server, use the disk server startup file, SYS\$STARTUP:LAD_STARTUP.COM.

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

STOP DISK_SERVER CONNECTIONS

Parameters

None

Qualifiers

1–162 PCSA Manager STOP DISK_SERVER CONNECTIONS

Example

You want to stop the disk server. Enter the following command:

PCSA_MANAGER> STOP DISK SERVER CONNECTIONS %PCSA-I-DSVRSSTOPPED, all connections stopped, LAD\$KERNEL process terminated

Related Commands

None

Related Menu Item

STOP FILE_SERVER CONNECTIONS

Purpose

This command stops file server connections, and can:

- Stop the file server process. To restart the file server process, use the PCFS_STARTUP.COM file.
- Disconnect a specific connection.
- Disconnect all connections to a specified service.
- Stop the file server from accepting connections to unregistered nodes.

Command Support

This command runs under the supported transport.

Guidelines

You must specify at least one qualifier with the STOP FILE_SERVER CONNECTIONS command.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

STOP FILE_SERVER CONNECTIONS

/ALL_SERVICES /ID=connection-id /SERVICE=name /UNREGISTERED

Parameters

1–164 PCSA Manager STOP FILE_SERVER CONNECTIONS

Qualifiers

/ALL_SERVICES	Disconnects all connections, discontinues sessions for all currently active services, and stops the file server process PCFS_SERVER.
/ID=connection-id	Disconnects a specific connection. You can obtain the connection-id from the SHOW FILE_SERVER CONNECTIONS command.
/SERVICE=name	Disconnects all currently active connections for the specified service.
/UNREGISTERED	Stops the file server from accepting connections for unregistered nodes.

Example 1

You want to disconnect all current file server connections. Enter the following command:

PCSA_MANAGER> STOP FILE SERVER CONNECTIONS/ALL SERVICES %PCSA-I-FSVRSTOPPED, all connections stopped, file server process terminated

Example 2

You want to disconnect all connections to the service PCSAV40. Enter the following command:

PCSA_MANAGER> STOP FILE_SERVER CONNECTIONS/SERVICE=PCSAV40 %PCSA-I-CONSTOPPED, the specified connections have been stopped

Related Commands

None

Related Menu Item

STOP FILE_SERVER LOGGING

Purpose

This command stops the logging of events to the file server log file.

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

STOP FILE_SERVER LOGGING /EVENTS=(option,[,...])]

Parameters
1–166 PCSA Manager STOP FILE_SERVER LOGGING

Qualifiers

Event type	Function
ALL	All event types
CONNECTIONS	Connections to services
DEFAULT	Default events
ERRORS	Nonfatal errors
FATAL	Fatal errors
LOCKS	MS-DOS file lock and unlock requests
OPENS	File open and close requests
OPERATOR	Operator actions
PROTOCOL	Protocol errors
READS	File read and write requests
SECURITY	Security violations
SESSIONS	DECnet connections

Example

You want to stop logging SESSIONS. Enter the following command:

PCSA_MANAGER> STOP FILE_SERVER LOGGING/EVENTS=(SESSIONS)
%PCSA-I-LOGCHARSET, server logging characteristics set

PCSA Manager 1-167 STOP FILE_SERVER LOGGING

Related Commands

None

Related Menu Item

STOP FILE_SERVER SESSION

Purpose

This command stops a workstation's session with the file server.

Command Support

This command runs under the supported transport.

Guidelines

This command breaks the DECnet session between the file server and the workstation and disconnects the workstation from all services that it is currently using.

The workstation may reconnect to the file server if the user at the workstation attempts to use that drive.

Privileges

You need OPER and SYSPRV privileges to use this command.

Format

STOP FILE_SERVER SESSION nodename

Parameters

nodename

Is the DECnet node name of the workstation being disconnected. The node name consists of one to six alphanumeric characters. At least one character must be alphabetic.

Qualifiers

Example

You want to stop the session between the file server and workstation BIGMAX. Enter the following command:

PCSA_MANAGER> STOP FILE_SERVER SESSION BIGMAX %PCSA-I-SESSSTOPPED, the specified session has been stopped

Related Commands

None

Related Menu Item

ZERO DISK_SERVER COUNTERS

Purpose

This command clears counters maintained by the disk server.

Command Support

This command runs under the supported transport.

Privileges

You need OPER and SYSPRV privileges to use this command.

/SERVICE[=name]

Format

ZERO DISK_SERVER COUNTERS //CACHE //CLIENT[=name]

Parameters

None

Qualifiers

 /CACHE
 Resets the current cache counters, which include:

 The number of write requests

 The number of blocks written

 The number of read requests

 The number of blocks read

 The number of cache hits

 The number of blocks not read due to the cache

PCSA Manager 1-171 ZERO DISK SERVER COUNTERS

/CLIENT[=name] Resets the client counters for all clients or the specified client. The counters include the number of: Blocks read

Blocks read

Blocks written

Read requests

Write requests

/SERVICE[=name] Resets the service counters for all services or the specified service. If you use this qualifier with the /CLIENT qualifier, the PCSA Manager restricts the client counters zeroed to those of the specified service. The counters include the number of:

Blocks read

Blocks written

Read requests

Write requests

Example 1

You want to reset the cache counters. Enter the following command:

PCSA_MANAGER> ZERO DISK_SERVER COUNTERS/CACHE %PCSA-I-CACHEZEROED, server cache counters zeroed

Example 2

You want to clear all disk server client counters for client YELLOW and service PCSA\$DOS_SYSTEM_V30. Enter the following command:

PCSA_MANAGER> ZERO DISK_SERVER COUNTERS -_PCSA_MANAGER> /CLIENT=YELLOW /SERVICE=PCSA\$DOS_SYSTEM_V30 %PCSA-I-CLIENTZEROED, counters for client YELLOW service PCSA\$DOS SYSTEM V30 zeroed

Related Commands

None

Related Menu Item

2 PCDISK Utility

This chapter describes the *PCDISK utility*, which is a file management utility that runs on VMS. This file management utility is a program that provides a set of related general purpose functions, such as file copy, file transfer, and directory listing. With PCDISK, you can access or maintain the contents of a DOS device on the VMS operating system. Throughout this chapter, the term *DOS device* refers to any of the following:

- Virtual disk files that emulate a DOS diskette
- Virtual disk files that emulate a DOS partitioned hard disk
- PCSA supported disk services
- VMS accessible DOS-formatted devices, for example, an RX33 diskette

This chapter discusses:

- Supported media
- How to run PCDISK
- Wildcards
- VMS command line editing
- Backup capability
- Command procedures
- PCDISK utility commands

Supported Media

PCDISK supports the following DOS devices:

• DOS virtual disks

VMS sequential files that PCSA supported workstations can access. The full specification for a virtual disk is:

node"username password"::device:[directory]filename.ext

You must specify the file name portion of the DOS device specification. It is not necessary to specify the file extension. The default file extension for virtual disk files is .DSK.

PCSA disk services

Disk services offered by a PCSA server. The full specification for a PCSA disk service is:

node"password"::service_name

• DOS-formatted devices

VMS accessible device in DOS format. The device name specification must **not** have a node, directory, or file specification, and must be followed by a colon (for example, DUA2:). Supported DOS-formatted devices include:

- RX23 diskettes (1.4 Mbyte only)
- RX33 diskettes (1.2 Mbyte only)

How to Run PCDISK

To run the PCDISK utility, at the \$ prompt, enter:

\$ RUN SYS\$SYSTEM:PCDISK

The following prompt is displayed:

PCDISK>

After the PCDISK prompt is displayed, you need to connect the DOS devices that contain the files you want to reference. You connect a DOS device with the USE command. For example, to connect a virtual disk file, physical diskette, and a PCSA disk service, enter the following:

```
PCDISK> USE A: MY_FILES.DSK

A:\> USE B: DUA1:

A:\> USE C: BRONTE::MY_SERVICE /LAD_SERVICE

A:\>

A:\> SHOW CONNECTIONS

Drive Type Access Sectors Name

A: Floppy R/W 2400 DUA0:[USER]MY_FILES.DSK;

B: Device R/W 2400 DUA1:

C: LAD Floppy R/W 65528 BRONTE::MY_SERVICE
```

Once you make your connections, you can manage your files within the DOS devices or you can copy files between VMS and the DOS devices using the PCDISK commands. For information on the PCDISK commands, see PCDISK Utility Commands in this chapter. The following sections describe:

- Information common to all commands
- The PCDISK commands

Information Common to All PCDISK Commands

The following information applies to all PCDISK commands:

• Many commands are followed by qualifiers. These qualifiers supply additional information for specific command execution. Qualifiers are preceded by a forward slash (/). For example:

A:\> DEL E:DATA.TXT/LOG

The /LOG qualifier indicates that you want a printed message on the screen stating which file you deleted.

- Separate commands and parameters with delimiters. Valid delimiters are:
 - Space
 - Tab
- · Commands execute when you press the Return key.
- The prompt is the default drive/directory designation followed by a right angle bracket (>). For example, in the following, the prompt for drive A selected to the root directory, is:

A:\>

Some command explanations refer to disk drives or files as the source and destination.

- The source is the drive or file from which you transfer information.
- The *destination* is the drive or file to which you transfer information.

In all cases, enter the source before the destination. In the following example, SOURCE.TXT is the source (the file from which the COPY command transfers information) and DESTINAT.TXT is the destination (the file where the COPY command transfers information):

```
A:\> COPY A:SOURCE.TXT C:DESTINAT.TXT
A:\>
```

Naming DOS Files

The following rules apply to naming files:

- A file name has two parts:
 - The one- to eight-character file name.
 - The one- to three-character file extension.

NOTE

PCDISK produces an error for any file names that are greater than eight characters and any file extensions that are greater than three characters.

• You cannot use the following characters in a file name or fileextension:

, " / \ []: | < > + = ; period (.)

- Use a period (.) to separate a file name and a file extension.
- You can enter file names and file extensions that use the following characters:

A-Z	a-z	0-9
\$	&	#
%	2	-
@	{	}
~	¢	

• PCDISK returns an error when the following special characters are used without quotation marks within a DOS file specification.

Character	Situation
?	Is the first character.
٨	Is the first character.
()	Are anywhere in the file specification.
!	Is anywhere in the file specification. All characters to the right of the exclamation point are ignored.

To avoid this problem, enclose the DOS file specification in quotation marks. For example:

A:\>dir "???.bat" A:\>attrib "^abc.dat" /read-only A:\>copy hoolay.dat "tim.(m)" A:\>rename qwan.dat "ab!cd!e.x!y"

• Because the DOS operating system reserves certain words for special purposes, you cannot use the following words as file names:

AUXCONPRNNULCLOCK\$LPTLPT1LPT2LPT3LPT4COM1COM2COM3COM4

In addition to naming files, you must also be familiar with DOS directory structures and path names. For information on directories and paths, see your DOS reference manual.

Wildcards

A *wildcard* is a character that is used alone or replaces characters in a file name or file extension. Wildcards can give many commands greater flexibility. You can use wildcards with the following PCDISK commands:

- ATTRIBUTE
- COPY
- DELETE
- DIRECTORY
- EXPORT
- IMPORT
- RENAME
- SET FILE
- XCOPY

The wildcards, which are discussed in the following sections, are:

- The asterisk (*)
- The question mark (?)
- The percent sign (%)

Asterisk

An asterisk (*) in a file name or file extension indicates that any number of characters (zero or more) can occupy that position. For example, if you type the following command:

```
E:\> DEL M*.TXT/LOG
```

PCDISK displays the following information:

```
%PCDISK-I-DELETED, File E:\MEMO1.TXT deleted
%PCDISK-I-DELETED, File E:\MEMO2.TXT deleted
%PCDISK-I-DELETED, File E:\MEMO.TXT deleted
%PCDISK-I-DELETED, File E:\MILLER.TXT deleted
E:\>
```

Question Mark

A question mark (?) is the single character wildcard for DOS file specifications. A question mark in a file name or file extension indicates that any single character, or no character, can occupy that position. For example if you enter the following command:

```
E:\> DEL MEMO?.TXT/LOG
```

PCDISK displays the following information:

```
%PCDISK-I-DELETED, File E:\MEMO1.TXT deleted
%PCDISK-I-DELETED, File E:\MEMO2.TXT deleted
%PCDISK-I-DELETED, File E:\MEMO.TXT deleted
E:\>
```

Percent Sign

The percent sign (%) is the single character wildcard for VMS file specifications. It is used to allow any single character to occupy its position. Unlike the "?", it requires that a character must exist in its position.

```
E:\> IMPORT MEMO%.TXT/LOG
%PCDISK-I-IPD, WORK:[SARRO]MEMO1.TXT;1 imported to E:\MEMO1.TXT
%PCDISK-I-IPD, WORK:[SARRO]MEMO2.TXT;1 imported to E:\MEMO2.TXT
%PCDISK-I-NIPD, 2 Files imported
E:\>
```

NOTE

The % is a valid character within a DOS file specification.

VMS Command Line Editing

PCDISK supports VMS command line editing using control keys. Table 2–1 lists some of the most useful control key combinations.

Key	Function
->	Moves the cursor to the right.
<-	Moves the cursor to the left.
Ctrl/A	Toggles between overstrike and insert mode.
Ctrl/C	Cancels command processing and returns you to the VMS prompt. Ctrl/C is displayed as "Cancel."
Ctrl/E	Moves the cursor to the end of the command line.
Ctrl/H	Moves the cursor to the beginning of the command line.
Ctrl/J	Deletes the word to the left of the cursor.
Ctrl/U	Deletes from the cursor to the beginning of the line.
Ctrl/Y	Interrupts command processing and returns you to the VMS prompt. Ctrl/Y is displayed as "Interrupt."
Ctrl/Z	Interrupts command processing and returns you to the VMS prompt. Ctrl/Z is displayed as "Exit."

Table 2–1 Control Keys

In addition, PCDISK also supports parameter prompting. If you omit part of a command, your system prompts you for the missing information. A line beginning with an underscore (_) means the system is waiting for your response. For example, if you want to rename the file STANDARD.EXE on the default drive to SYSTEM.EXE, and you enter the command RENAME only, PCDISK displays the following:

```
A:\> RENAME
_From: STANDARD.EXE
_To: SYSTEM.EXE
A:\>
```

Backup Capability

Using a series of PCDISK commands, you can create a backup virtual disk for your DOS device without using excess disk space. To do this:

- Use the CREATE command to create a virtual disk file. Use the /ALLOCATION qualifier to minimize disk usage.
- With the USE command, connect to the DOS device you want to back up and the newly created virtual disk file.
- Use the XCOPY command and specify the /SUBDIRECTORIES and the /MODIFIED qualifiers to copy only modified files from the source to the destination.

For example,

```
PCDISK> CREATE BACKUP.DSK /SIZE=5MB /ALLOC=100 /VOL=BACKUP
PCDISK>USE A: ACTIVE.DSK
A:\>USE B: BACKUP.DSK
A:\>XCOPY A:\ B:\ /SUBDIRECTORIES /MODIFIED /LOG
...
A:\>EXIT
```

The above commands back up the virtual disk file ACTIVE.DSK to BACKUP.DSK. They scan the directory tree structure of the source device, and create an identical tree structure on the destination device. Only those files that have the "Archive" file attribute are copied. Upon completion of each copy operation, the source file's "Archive" attribute is cleared.

Disk space is dynamically allocated as needed during the backup operation.

The PCDISK Utility Commands section explains the CREATE and XCOPY commands used in the backup operation.

Command Procedures

PCDISK supports PCDISK and DCL command procedures. A **PCDISK command procedure** is a file that contains PCDISK commands. You can write PCDISK command procedures to execute a few commonly used commands from within PCDISK. You can also invoke command procedures from the DCL level. You can use a DCL command procedure to invoke PCDISK and execute commands to do DOS file management functions.

Use a text editor to create and format a command procedure. When you name the command procedure, use the file type COM. The @ command appends the default file type COM to the file name you specify. If you use another file type you must specify the file type when you execute the command procedure.

When you execute a command procedure, the file is read and the commands it contains are run. For example, suppose you have two files in your directory that you connect every time you run the PCDISK utility. You can use the following PCDISK command procedure, called CONNECT.COM to connect the files and display a completion message.

USE A: DOSA.FPY/LOG USE B: DOSB.FPY/LOG

The following example shows how to start the PCDISK utility and run CONNECT.COM from within PCDISK:

```
$ RUN SYSSSYSTEM:PCDISK
PCDISK V1.1 BL3
PCDISK> @CONNECT
%PCDISK-I-VFCON, Diskette DUA0:[MYDIR]DOSA.FPY; connected as drive A:
%PCDISK-I-VFCON, Diskette DUA0:[MYDIR]DOSB.FPY; connected as drive B:
A:\>
```

You can also use a command procedure to start PCDISK from DCL, run commands within the PCDISK utility, and exit. For example, if you have a virtual disk (WORK.DSK) that you want to back up daily, you can use a DCL command procedure to do this. Use the procedure explained in Backup Capability, to create a backup disk (BACKUP.DSK). To back up daily modifications of the virtual disk WORK.DSK, your command procedure might look like the following—BACKUP.COM:

```
$ RUN SYS$SYSTEM:PCDISK
USE A: WORK.DSK
USE B: BACKUP.DSK
XCOPY A:\ B:\ /SUBDIRECTORIES /MODIFIED /LOG
...
EXIT
$ EXIT
```

PCDISK Utility Commands

Table 2–2 lists the PCDISK commands and briefly describes their functions.

Command	Description	Function
ATTRIBUTE	Attribute	Sets, clears, or displays DOS file attributes.
CHDIR or CD	Change Directory	Displays or sets the default directory.
COPY	Сору	Copies DOS files between and within DOS devices.
CREATE	Create	Creates and formats a DOS virtual disk file.
DELETE	Delete	Removes one or more files from a DOS device.
DIRECTORY	Directory List	Displays information about the file entries contained in a specified directory.
EXIT	Exit	Disconnects any assigned DOS devices, and then exits the PCDISK utility.
EXPORT	Export File	Copies (exports) a DOS file from a DOS device to the VMS file system.
FORMAT	Format	Formats a DOS device.
HELP	Help	Displays help about PCDISK commands.
IMPORT	Import File	Copies (imports) a file from the VMS file system to a DOS device.
LABEL	Label	Creates, changes, or deletes a disk volume label on a specified drive.
MKDIR or MD	Make Directory	Creates a directory on a DOS device.
RENAME	Rename File	Renames a specified file.
RMDIR or RD	Remove Directory	Removes a directory from a DOS device.
SET	Set	Sets disk and file information within a connected DOS device.
SHOW	Show	Displays information about active connections, services on available servers, and the PCDISK software version.

Table 2–2 PCDISK Commands

Command	Description	Function
SPAWN	Spawn	Creates a subprocess, suspending but not ending, the current PCDISK session.
TYPE	Туре	Displays the contents of a file.
USE	Use	Connects and disconnects a DOS device.
VOLUME	Volume	Displays the disk volume of a specified drive.
XCOPY	Хсору	Copies files from more than one directory

Table 2–2 (Cont.) PCDISK Commands

The vocabulary in the following command section consists of commands, parameters, and qualifiers. Items in brackets ([]) are optional. If all the parameters are optional, at least one parameter must be used with the command.

When specifying a command or qualifier, use enough letters to uniquely identify the command or qualifier. For example, you can shorten the DIRECTORY command to DIR, and the /LAD_SERVICE qualifier to /LAD. If you do not use enough letters, you will get an error message.

ATTRIBUTE

Purpose

This command sets, clears, or displays DOS file attributes.

Guidelines

DOS file *attributes* are the file's characteristics. The attributes indicate that the files have special protections. Table 2–3 describes the attributes.

Attribute	Meaning
ARCHIVE	A file that has not been backed up.
HIDDEN	A file that is not visible during normal operations.
READ_ONLY	A file you cannot change or delete.
SYSTEM	A file used by the operating system; system files are normally hidden.

Table 2–3 Directory File Attributes

Privileges

None

Format

ATTRIBUTE



Parameters

file-spec Is the DOS file specification.

Qualifiers

/[NO]ARCHIVE	Sets or clears the archive file attribute.
/[NO]HIDDEN	Sets or clears the hidden file attribute.
/[NO]LOG	Controls whether the ATTRIBUTE command displays the file specification and attributes of each file. The default is /NOLOG.
/[NO]READ_ONLY	Sets or clears the read-only file attribute.
/[NO]SYSTEM	Sets or clears the system file attribute.

Example 1

This example shows how to set the file attribute to hidden on file USE.DIA.

E:\> ATTRIBUTE USE.DIA/HIDDEN/LOG %PCDISK-I-ATT, E:\USE.DIA file attributes set to " H "

Example 2

This example shows how to clear the hidden file attribute on file USE.DIA.

E:\> ATTRIBUTE USE.DIA/NOHIDDEN/LOG %PCDISK-I-ATT, E:\USE.DIA file attributes set to " "

Example 3

This example shows how to set the file attribute to system on file MEMO.DIA.

E:\> ATTRIBUTE MEMO.DIA/SYSTEM/LOG %PCDISK-I-ATT, E:\MEMO.DIA file attributes set to " S " 2–14 PCDISK Utility ATTRIBUTE

Related Commands

SET FILE

Related Menu Item

CHDIR

Purpose

This command changes or displays the current default directory.

Guidelines

None

Privileges

None

Format

CHDIR | CD [\path\]

Parameters

\path\ Is the path to which you want to change.

You can display the default directory path for the current drive by omitting this parameter or for another drive by specifying the drive letter only.

Qualifiers

None

Example 1

This example changes from the root directory to the subdirectory $\ \ PERSONAL.$

E:\> CHDIR PERSONAL E:\PERSONAL> 2–16 PCDISK Utility CHDIR

Example 2

This example changes \PERSONAL\USER to the subdirectory \PERSONAL\USER\FILES.

```
E:\>CD \PERSONAL\USER\FILES
E:\PERSONAL\USER\FILES>
```

Example 3

This example changes to the directory above your current directory.

```
E:\PERSONAL\USER\FILES> CHDIR..
E:\PERSONAL\USER>
```

Example 4

This example changes from the subdirectory $\ \ ERSONAL\ USER$ to the root directory.

```
E:\PERSONAL\FILES>CD \
E:\>
```

Related Commands

MKDIR RMDIR

Related Menu Item

COPY

Purpose

This command copies DOS files between and within DOS devices.

Guidelines

None

Privileges

None

Format

```
\begin{array}{l} COPY \ [drv1:][\path1\][filename1.ext] - \ [drv2:][\path2\][filename2.ext] - \ [\/FORCE_WRITE \] \\ \ \/LOG \end{array} \right]
```

Parameters

drv1:	Is the DOS drive containing the file you want to copy. If you omit this drive, the COPY command uses the default drive.
\path1\	Is the DOS path name containing the file you want to copy. If you omit this path, the COPY command uses the default path.
filename1.ext	Is the file name and file extension of the file you want to copy. If you omit this, it implies that you want to copy all files within the specified directory.
drv2:	Is the destination DOS drive for the COPY operation. If you omit this drive, the COPY command uses the default drive.

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\path2\
Is the destination DOS path name for the COPY operation. If you omit this path, the COPY command uses the default path.
filename2.ext
Is the file name and file extension of the destination file. If you omit the destination file name and file extension, the COPY command uses the source file name.

Qualifiers

/FORCE_WRITE	Forces the COPY operation to occur even if the destination file has the read-only attribute.
/LOG	Controls whether the COPY command displays the file specifications of each file copied.

Example 1

This example copies SAMPLE.DAT in the default directory on drive A to drive E.

```
E:\> COPY A:SAMPLE.DAT
E:\>
```

Example 2

This example copies USER.BAT from the default drive to drive A.

```
E:\> COPY USER.BAT A:
E:\>
```

Example 3

This example makes a copy of MYFILE.TXT with the name YOURFILE.TXT, and displays a message stating which file you copied.

```
E:\> COPY MYFILE.TXT YOURFILE.TXT/LOG
%PCDISK-I-CPD, E:\MYFILE.TXT to E:\YOURFILE.TXT
E:\>
```

Example 4

This example copies MYFILE.TXT to drive A and names it AFILE.TXT.

```
E: > COPY MYFILE.TXT A: AFILE.TXT
```

Example 5

This example copies all the files in the root directory on drive E to drive H and displays a listing of all the files you copied.

E:\>COPY *.* H:/LOG %PCDISK-I-CPD, E:\RULES.MMS copied to H:\RULES.MMS %PCDISK-I-CPD, E:\SYMBOL.TXT copied to H:\SYMBOL.TXT %PCDISK-I-CPD, E:\USER.TXT copied to H:\USER.TXT %PCDISK-I-NCPD, 3 File(s) copied

Related Commands

RENAME XCOPY

Related Menu Item

CREATE

Purpose

This command creates and formats a DOS virtual disk file.

Guidelines

If there is a file by the same name in the target directory, the virtual disk file is not created.

NOTE

You must use DOS V4.0 or later to access virtual disks larger than 32 Mbytes.

Privileges

None

Format

CREATE file-spec	/ALLOCATION=n /CONTIGUOUS /LOG /SIZE=n /VOLUME_LABEL=text	
------------------	---	--

Parameters

file-spec Is the VMS file specification.

Qualifiers

/ALLOCATION=n	Forces the allocation of the virtual disk file to the number of 512-byte blocks specified by n. The allocation size overrides the implicit size given by the /SIZE qualifier, but may not exceed it. The /ALLOCATION quantity must be between the limits specified in Table 2-4. Use the /ALLOCATION qualifier to create a virtual disk that is physically smaller than its formatted size.
/CONTIGUOUS	Specifies that the virtual disk file must be contiguous , that is, the file must occupy consecutive physical disk blocks. An error occurs if there is insufficient contiguous space to create the file. By default, a virtual disk file is allocated "contiguous best try".
/LOG	Controls whether the CREATE command displays a completion message stating the name of the new virtual disk file.

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/SIZE=n

Defines the formatted size of the virtual disk file. When the virtual disk file is created, it is given the space implicitly allocated by the /SIZE qualifier, unless the /SIZE qualifier is overridden by the /ALLOCATION qualifier. The virtual disk is formatted according to the specified capacity. Table 2–4 contains the values for this qualifier and the default resultant VMS file sizes (in blocks), and the minimum allocation quantity allowed.

Qualifier Value	Default Allocation in Blocks	Minimum Allocation Size in Blocks
360KB	720	12
720KB	1440	14
1.2MB (default)	2400	29
1.44MB	2880	33
5MB	10240	66
10MB	20480	16417
20MB	40960	16457
32MB	65535	16505
64MB	131072	16633
128MB	262144	32977
256MB	524288	65665
512MB	1048576	65921

/VOLUME_LABEL=text

Indicates that you want a volume name affixed to your virtual disk file. The volume name can contain 1 to 11 characters. For examples of legal characters in volume labels, follow the PCDISK file naming conventions in Naming DOS Files. In addition to the legal characters, you can use the space and the period (.). If you use a space in the volume label, make sure you enclose the text string in quotes.

Example 1

This example shows how to create a 600-block virtual disk with the volume label DOS Files. Because the virtual disk size falls within the correct ranges in Table 2–4, the volume label is created. A completion message is displayed stating the name of the disk.

```
E:\>Create USER.DSK/SIZE=360kb/ALLOC=600 -
_E:\>/VOLUME_LABEL="DOS Files"/LOG
%PCDISK-I-CREATE, WORK:[PCDISK]USER.DSK; Created
E:\>
```

Example 2

This example shows the error message you receive when you try to create a virtual disk file that is less than the minimum allocation size.

```
E:\> Create USER.DSK/SIZE=360kb/ALLOC=3
%PCDISK-E-ECREATE, Error creating WORK:[PCDISK]USER.DSK;
-PCDISK-E-ALOUTRANG, ALLOCATION quantity must be within 12 to 720 blocks
E:\>
```

Related Commands

FORMAT

Related Menu Item

DELETE

Purpose

This command removes one or more files from a DOS device.

Guidelines

None

Privileges

None

Format

DELETE [drv:][\path\][filename.ext] /LOG /[NO]QUERY

Parameters

drv:	Is the DOS drive containing the file you want to delete. If you omit this drive, the DEL command uses the default drive.
\path\	Is the DOS path name containing the file you want to delete. If you omit this path, the DEL command uses the current directory.
filename.ext	Is the file name and file extension of the file you want to delete.

Qualifiers

/FORCE_WRITE	Forces the DELETE operation to occur even if the file you want to delete has the read-only attribute.
/LOG	Controls whether the DELETE command displays the file specification of each file after its deletion.
/QUERY	Controls whether the "Are you sure (Y/N)?" query is issued when all files in a directory are specified. /NOQUERY would commonly be used within a command procedure. The default is /QUERY.

Example 1

This example shows how to delete the file MEMO.DAT on drive E.

```
E:\> DEL MEMO.DAT
```

Example 2

This example shows how to delete the file MEMO.DAT on drive E, and display a message stating which file you deleted.

```
E:\> DEL MEMO.DAT/LOG
%PCDISK-I-DLD, File MEMO.DAT deleted
```

Example 3

This example shows how to delete the file TEST.DAT in the default directory on drive A when selected to drive E, enter:

```
E: > DEL A: TEST.DAT
```

Example 4

This example shows how to delete the file MEMO.TXT in the subdirectory WORK on drive E, enter:

```
E:\> DEL \WORK\MEMO.TXT
```

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Example 5

This example shows how to delete all the files that end with the file extension .COM in the root directory on drive E.

E:\> DEL *.COM/LOG %PCDISK-I-DLD, File E:\TEST.COM deleted %PCDISK-I-DLD, File E:\LINK.COM deleted %PCDISK-I-DLD, File E:\BOOK.COM deleted %PCDISK-I-DLD, File E:\TEXT.COM deleted %PCDISK-I-NDLD, 4 Files deleted

Related Commands

RMDIR

Related Menu Item

DIRECTORY

Purpose

This command displays information about the file entries contained in a directory.

Guidelines

When you use the DIRECTORY command, files are listed with the size (in bytes), the time, and the date of their last modification. The last column of the listing displays the file attributes. The file attributes are:

- A archive
- S system file
- H hidden file (hidden files are listed in a directory search)
- R read-only file

Also listed is the volume name, number of bytes used, and the number of files in the directory listing.

Format

DIRECTORY [drv:][\path\][filename.ext]	/ARCHIVE_ONLY /[NO]ATTRIBUTES /[NO]HIDDEN	
--	---	--

Parameters

drv:	Is the DOS drive containing the files for which you want a directory listing. If you omit this drive, the DIR command uses the default drive.
\path\	Is the DOS path name for which you want a directory listing. If you omit this path, the DIR command uses the current directory.
filename.ext	Is the file name and file extension of the files you want displayed. If this is omitted, all the files with the specified or defaulted directory will be displayed.

Qualifiers

/ARCHIVE_ONLY	Specifies that the directory is to include only those files that have the archive bit set.
/[NO]ATTRIBUTES	Displays or suppresses the file attributes. The default is /ATTRIBUTES.
/[NO]HIDDEN	Displays or suppresses hidden files. /NOHIDDEN takes precedence when specified with the /ARCHIVE_ONLY qualifier. The default is /HIDDEN.

Example

This example lists all the files for the current directory on drive E.

 $E: \ DIR$

Volume in Drive E is HARD_LOG1 Directory of E:\					
USER	<d.< td=""><td>IR></td><td>9-27-88</td><td>11:26a</td><td></td></d.<>	IR>	9-27-88	11 : 26a	
SAMPLE	WK1	13758	8-15-88	9:30a	A
SAW	EXE	38912	1-09-88	5:14p	
FALSE	WK1	2332	4-30-88	4:31p	A
456	TMP	133485	9-12-88	1:23a	А
AUTOUSER	BAT	662	7-25-88	2:18p	
JUNK	DAT	68	10-05-88	8:58a	
Total of	1892	17 bytes	in 7 files.		

```
E: \setminus >
```

Related Commands

None

Related Menu Item

EXIT

Purpose

This command releases any connected DOS devices and exits the PCDISK utility.

Guidelines

None

Privileges

None

Format

EXIT [/LOG]

Parameters

None

Qualifiers

/LOG Controls whether the EXIT command displays a completion message for each drive as it is disconnected during the exit procedure.

Example

This example shows how to display the disconnected drives when you exit, and to display a message stating which drives you disconnected.

```
A:\>EXIT/LOG
%PCDISK-I-VFDCON, Diskette WORK:[SARRO]MY_DOS_DISK.DSK; drive E:
disconnected
$
```
EXPORT

Purpose

This command copies (exports) one or more DOS files from a DOS device to the VMS file system.

Guidelines

None

Privileges

None

Format

```
EXPORT [drv:][\path\]filename1.ext - [disk][directory]filename2.ext -

[/FORMAT=record_format

/LOG

/SIZE=record_size
```

Parameters

drv:	Is the DOS source drive containing the file you want to copy. If you omit this drive, the EXPORT command uses the default drive.			
\path\	Is the DOS source path name containing the file you want to copy. If you omit this path, the EXPORT command uses the current directory.			
filename1.ext	Is the file name and file extension of the file you want to copy.			
disk	Is the VMS destination device name. If you omit this name, the EXPORT command uses the default VMS device.			

directory	Is the VMS destination directory name. If you omit this directory name, the EXPORT command defaults to the current VMS default directory.				
filename2.ext	Is the file name and file extension of the destination file. You can use any valid VMS file name and file extension as the destination file. If you omit the file name and extension, the file defaults to the source file name.				
Qualifiers					
/FORMAT	Lets you specify the record format of the destination file(s). Use of the /SIZE=n qualifier overrides this qualifier and causes a fixed record format. Valid record formats include:				
	STREAM (default)				
	FIXED				
/LOG	Controls whether the EXPORT command displays the file specifications of each file exported.				
/SIZE	Lets you specify the record size of the destination file(s). If you specify /FORMAT=FIXED, without the /SIZE qualifier, the record size defaults to 512 bytes. Valid record sizes are in the range of 2 bytes to 32766 bytes. Record size numbers must be even.				

Example 1

This example shows how to export the file SETUP.BAT from the current drive E to the default VMS directory.

```
E:\> EXPORT SETUP.BAT
E:\>
```

Example 2

This example shows how to export the file SAMPLE.TXT from the subdirectory \PERSONAL on drive D to the default VMS directory with the destination file name EXAMPLE.DAT.

```
E:\> EXPORT D:\PERSONAL\SAMPLE.TXT EXAMPLE.DAT E:\>
```

2–32 PCDISK Utility EXPORT

Example 3

This example shows how to export the file MYFILE.DAT from drive E to the VMS subdirectory JONES.TEMP. The destination file is named YOURFILE.DAT. A message stating which file you exported, and its destination is displayed.

```
E:\> EXPORT MYFILE.DAT [JONES.TEMP]YOURFILE.DAT/LOG %PCDISK-I-EPD, E:\MYFILE.DAT exported to DUA0:[JONES.TEMP]
YOURFILE.DAT
```

E:\>

Related Commands

IMPORT

Related Menu Item

FORMAT

Purpose

This command enables you to format a DOS device.

Guidelines

CAUTION

FORMAT destroys all the information recorded on your DOS device. Do not use FORMAT on a DOS device that contains useful information.

Privileges

You must have the PHY_IO privilege to format a physical device.

Format

FORMAT drv: $\begin{bmatrix} /DEVICE=device_name \\ /LOG \\ /VOLUME_LABEL=text \end{bmatrix}$

Parameters

drv: Is the DOS drive you want to format.

Qualifiers

Specifies physical VMS devices that contain /DEVICE=device name non-DOS media or media that has never been formatted. The VMS device name must not contain a node, directory, or file specification. The device name must be followed by a colon, for example, DUA2:. You can use logicals that adhere to the above conventions. The FORMAT command with this qualifier connects the device to the specified DOS drive letter.

2–34 PCDISK Utility FORMAT

/LOG	Controls whether the FORMAT command displays a completion message stating the name of the formatted device.
/VOLUME_LABEL=text	Indicates that you want a volume name affixed to your DOS-formatted diskette. The volume name contains 1 to 11 characters. Follow the DOS file naming conventions in the section "Naming DOS Files" for examples of legal characters for volume labels.

Example 1

This example DOS-formats the VMS diskette DUA2, affixes the volume label CONFERENCES to it, and automatically connects it to drive A.

```
PCDISK> FORMAT A: /DEVICE=DUA2: /VOLUME_LABEL=CONFERENCES
A: \>
```

Example 2

This example DOS formats the virtual disk file, affixes the volume label CONFERENCES to it, and displays a completion message.

```
A:\> FORMAT A: /VOLUME_LABEL=CONFERENCES /LOG
%PCDISK-I-FORMAT, Drive A: disk DUA0:[MYDIR]MYFILES.DSK Formatted
A:\>
```

Related Commands

None

Related Menu Item

HELP

Purpose

This command displays online documentation for any PCDISK command.

Guidelines

This information includes formats and explanations of commands, parameters, and qualifiers.

Privileges

None

Format

HELP [topic] [/OUTPUT=file_spec] /[NO]PAGE]

Parameters

topic Is the PCDISK command about which you want information.

Qualifiers

/OUTPUT[=file_spec]Controls where the output of the command is sent. If
you do not enter the qualifier, or if you enter /OUTPUT
without a file specification, the output is sent to the
current process default output stream or device identified
by the logical name SYS\$OUTPUT.If you enter /OUTPUT with a partial file specification (for
example, /OUTPUT=JONES), HELP is the default file
name and .LIS is the default file extension. If you enter a
file specification, no wildcards are allowed./[NO]PAGEControls whether to stop the HELP display when the
screen is full. If you specify /NOPAGE, output continues
until the information display ends or until you manually
control the scrolling. The default is /PAGE.

2–36 PCDISK Utility HELP

Example

You can obtain online documentation for any PCDISK command by invoking the HELP command. To use the HELP facility in its simplest form, enter the command HELP. HELP displays a list of topics and the Topic? prompt. To see information on one of the topics, enter the topic name after the prompt. The following example is a sample HELP display for the PCDISK command IMPORT:

```
E:\> HELP IMPORT
```

IMPORT

Import copies one or more VMS files into a DOS device. During wildcard search, any VMS files that do not conform to the DOS file naming conventions will be ignored. These files may be imported by specifying the full VMS file name, (no wildcards), and supplying a valid DOS output file name.

Format:

```
IMPORT VMS-input-spec [DOS-output-spec]
```

Additional information available:

Parameters Command_Qualifiers /FORCE_WRITE /LOG

```
IMPORT Subtopic?
```

If the topic has subtopics, HELP lists the subtopics and displays the Subtopic? prompt. For information on one of the subtopics, enter the name after the prompt. For information on another topic, press the Return key. You can ask for information on another topic when HELP displays the Topic? prompt. To exit the HELP system, press Return again. At any time, press CTRL/Z to exit.

Related Commands

None

Related Menu Item

IMPORT

Purpose

This command copies (imports) one or more files from your VMS file system to a DOS device.

Guidelines

None

Privileges

None

Format

IMPORT [device][directory]filename1.ext - [drv:][\path\][filename2.ext] -[/FORCE_WRITE /LOG /TEXT

Parameters

device	Is the VMS source containing the file you want to import. If you omit this name, the IMPORT command uses the default VMS device.			
directory	Is the VMS directory name containing the file(s) you wan to copy. If you omit this directory name, the IMPORT command uses the current default VMS directory.			
filename1.ext	Is the VMS file name and file extension of the file(s) you want to copy. Make sure your VMS file meets the conventions for DOS file name and file extension. If your VMS file name and file extension do not adhere to the DOS file-naming conventions, you must import the file specifying a valid DOS file name as the destination file name. See the Naming DOS Files section of this chapter.			

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drv:		Is the DOS destination drive for the IMPORT command. If you omit this drive name, the IMPORT command uses the default drive.
\path`	١	Is the DOS destination path name for the IMPORT command. If you omit this path, the IMPORT command uses the current directory.
		Is the file name and file extension of the destination file. If this is omitted the name of the source file is used.
Qua	lifiers	
/FORC	E_WRITE	Forces the IMPORT operation to occur even if the destination file has the read-only attribute.

/LOGControls whether the IMPORT command displays the file
specifications of each file imported./TEXTInsures that each line of text in the DOS destination files

ends with a carriage-return, linefeed <CR><LF>.

Example 1

This example shows how to import the file SETUP.BAT from the default VMS directory to the current drive E.

```
E:\> IMPORT SETUP.BAT
E:\>
```

Example 2

This example shows how to import the file PROCEDURES_FOR_ COPYING_FILES.TXT from the default VMS directory to the subdirectory \PERSONAL on drive D and name the destination file to EXAMPLE.DAT.

```
E:\> IMPORT PROCEDURES_FOR_COPYING_FILES.TXT -
_D:\PERSONAL\EXAMPLE.DAT
```

 $E: \setminus >$

Example 3

This example shows how to import the file MYFILE.DAT from the VMS subdirectory JONES.TEMP to drive E. The destination file is named YOURFILE.DAT. A screen message stating which file you imported and its destination is displayed.

E:\> IMPORT [JONES.TEMP]MYFILE.DAT YOURFILE.DAT/LOG %PCDISK-I-IPD, DUA0:[JONES.TEMP]MYFILE.DAT imported to E:\ YOURFILE.DAT

E:\>

Related Commands

EXPORT

Related Menu Item

LABEL

Purpose

This command creates, changes, or deletes a disk volume label on the specified drive.

Guidelines

The LABEL command is similar to the SET DRIVE command. The SET DRIVE command uses VMS-like command syntax. The LABEL command performs the same function using DOS-like command syntax. Note that drv:label is one parameter. Specify this parameter without spaces.

Privileges

None

Format

LABEL [drv:label]

Parameters

drv:	The drive is specified as an alpha character A to Z or a to z, followed by a colon (:). If you omit this drive, the LABEL command uses the current default drive.	
label=text	Specifies the text of the volume label, which can be a maximum of 11 ASCII characters.	

Qualifiers

Example 1

This example shows how to create a disk volume label for drive E by being prompted for the information.

E:\> VOLUME Volume in drive E has no label Volume label (11 characters, ENTER for none)? APPLICATION E\> LABEL Volume in drive E is APPLICATION

Example 2

This example shows how to delete the disk volume label for drive E.

```
E:\> LABEL
Volume in drive E is TEST
Volume label (11 characters, ENTER for none)? Return
Delete current volume label (Y/N)? Y
```

Example 3

This example shows how to create the volume label TASKS on drive E, and then change the volume label to PRACTICE on drive E.

```
E:\> LABEL E:TASKS
E:\> LABEL
Volume in drive E is TASKS
Volume label (11 characters, ENTER for none)? PRACTICE
E:\> VOLUME
Volume in drive E is PRACTICE
```

Related Commands

SET DRIVE

Related Menu Item

MKDIR

Purpose

This creates a directory on a DOS device.

Guidelines

None

Privileges

None

Format

MKDIR	MD [drv:][`	\path]\directory	name [/LOG]
-------	-------------	------------------	-------------

Parameters

drv:	Is the DOS drive on which you want to make a subdirectory. If you omit this drive, the MKDIR command uses the current drive.
\path\	Is the DOS path name you want to make to the new subdirectory.
directory name	Is the name of the subdirectory you are creating.

Qualifiers

/LOG Controls whether the MKDIR command displays a message stating which subdirectory you created.

Example 1

This example shows how to create the subdirectory PERSONAL in your root directory.

```
E:\> MKDIR PERSONAL
E:\>
```

Example 2

This example shows how to create the subdirectory USER under the subdirectory PERSONAL and displays a message stating that it was created.

E:\> MD \PERSONAL\USER/LOG
%PCDISK-I-MKDIR, Directory \PERSONAL\USER created
E:\>

Related Commands

RMDIR

Related Menu Items

RMDIR

Purpose

This command removes a directory from a DOS device.

Guidelines

None

Privileges

None

Format

RMDIR | RD [drv:][\path]\directory name [/LOG]

Parameters

drv:	Is the DOS drive containing the subdirectory you want to remove.
\path\	Is the DOS subdirectory you want to remove. You must delete all files in a subdirectory before you use the RMDIR command. You cannot remove root directories.
directory name	Is the name of the subdirectory you are removing.

Qualifiers

/LOG Controls whether the RMDIR command displays a message stating which subdirectory you removed.

Example 1

This example shows how to remove the directory DOCUMENTS from drive E.

```
E:\> RMDIR \DOCUMENTS
E:\>
```

Example 2

This example shows how to remove the subdirectory USER from the directory PERSONAL on drive E, and to display a screen message stating which directory you removed.

E:\> RD \PERSONAL\USER/LOG %PCDISK-I-RMDIR, Directory \PERSONAL\USER removed E:\>

Related Commands

MKDIR

Related Menu Item

RENAME

Purpose

This command renames one or more specified files. Unlike the DOS RENAME command, files can be renamed across directories.

Guidelines

None

Privileges

None

Format

RENAME [drv:][\path1\]filename1.ext - [\path2\]filename2.ext - [/LOG]

Parameters

drv:	Is the DOS drive containing the file you want to rename. If you omit this drive, the RENAME command uses the default drive. You cannot rename files across drives.			
\path1\	Is the DOS path name to the directory containing the fil you want to rename. If you omit this path, the RENAM command uses the current directory.			
filename1.ext	Is the file name and the file extension of the current file.			
\path2\	Is the DOS path name to the directory that contains the new file name.			
filename2.ext	Is the new file name and file extension.			

Qualifiers

/LOG Controls whether the RENAME command displays the file specifications of each file renamed.

Example 1

This example shows how to rename the file PAINTER.TXT on drive E to ARTIST.DAT.

```
E:\> RENAME PAINTER.TXT ARTIST.DAT
E:\>
```

Example 2

This example shows how to rename BOOK.TMP to TOME.TMP, and to display a screen message stating which file you renamed and its new name.

```
E:\> RENAME BOOK.TMP TOME.TMP/LOG
%PCDISK-I-RENAMED, BOOK.TMP renamed to TOME.TMP
E:\>
```

Example 3

This example shows how to use the asterisk as a wildcard to rename files in the current directory. The files with the extension .PSA are changed to have the extension .PSE.

A:\> RENAME/LOG *.PSA *.PSE %PCDISK-I-RND, A:CH1.PSA renamed to CH1.PSE %PCDISK-I-RND, A:CH2.PSA renamed to CH2.PSE A:\>

Related Commands

COPY

Related Menu Items

SET CONDITION

Purpose

This command sets the error severity level at which the active PCDISK session will terminate.

Guidelines

This command would commonly be used within a command procedure to terminate the session when an error occurs, rather than attempt execution of subsequent commands.

Privileges

None

Format

SET CONDITION [/SEVERITY=error_level]

Parameters

None

Qualifiers

/SEVERITY=error_level Specifies the error severity level at which PCDISK will terminate the current active session. Valid levels are: WARNING

ERROR

SEVERE_ERROR (default)

Example 1

This example sets the error severity level at ERROR. If the active PCDISK session encounters errors of this severity, it will terminate.

A: >> SET CONDITION /SEVERITY=ERROR A: >>

PCDISK Utility 2–49 SET CONDITION

Related Commands

None

Related Menu Item

SET DRIVE

Purpose

This command sets or displays volume information.

Guidelines

This command is similar to the LABEL command. The LABEL command sets or displays volume information using DOS-like command syntax. The SET DRIVE command sets or displays information using VMS-like command syntax. To display the volume label, omit the /VOLUME_ LABEL qualifier.

Privileges

None

Format

SET DRIVE [drv:] [/EXTEND=n /VOLUME_LABEL=text]

Parameters

drv: Specifies the drive on which you want to set or display volume information. If you do not specify a drive, the SET DRIVE command uses the current default drive.

Qualifiers

/EXTEND=n

Specifies the number of blocks the drive should be extended.

If n=0, this command extends the drive to its formatted size.

	If n equals a number that would result in a size greater than the formatted size, this command extends the drive only to its formatted size.
/VOLUME_LABEL=text	Indicates that you want a volume name affixed to your virtual disk file. The volume name can be from 1 to 11 characters. Specifying quotation marks """" causes the volume label to be deleted.

Example 1

This example displays that drive E has no volume label.

```
E:\> SET DRIVE E:
Volume in drive E has no label
```

Example 2

This example shows how to delete the volume label FILES from drive A.

```
A: \> SET DRIVE A:
Volume in drive A is FILES
A: \> SET DRIVE A:/VOLUME LABEL=""
A: \>
```

Example 3

This example shows how to set the volume label to TEST on drive E.

```
E:\> SET DRIVE E:/VOLUME_LABEL=TEST
```

Related Commands

LABEL

Related Menu Item

SET FILE

Purpose

This command sets, clears, or displays DOS file attribute information.

Guidelines

This command is similar to the ATTRIBUTE command. The ATTRIBUTE command sets or displays file attributes using DOS-like command syntax. The SET FILE command sets or displays attribute information using VMS-like command syntax. To display the file attributes, omit the /ATTRIBUTE qualifier.

Privileges

None

Format

SET FILE file-spec [/ATTRIBUTES] [/LOG]

Parameters

file-spec

Specifies the DOS $\operatorname{file}(s)$ from which you want attribute information.

Qualifiers

 /ATTRIBUTES=[(keyword[,...])]
 Specifies one or more attributes to be set or cleared. The following are valid keywords for the /ATTRIBUTES qualifier:

 [NO]ARCHIVE
 [NO]HIDDEN

 [NO]READ_ONLY
 [NO]SYSTEM

 For an explanation of the above keywords, see the ATTRIBUTE command.

 /LOG
 Controls whether the SET FILE command displays the file specification and attributes of each file.

Example 1

This example sets the file attribute to archive on file TEST.TXT.

```
E:\> SET FILE TEST.TXT/ATTRIBUTES=archive/LOG
%PCDISK-I-ATT, E:\TEST.TXT file attributes set to " A "
E:\>
```

Example 2

This example clears the archive attribute from the file TEST.TXT.

```
E:\> SET FILE TEST.TXT/ATTRIBUTES=noarchive/LOG %PCDISK-I-ATT, E:\TEST.TXT file attributes set to " " E:\>
```

Example 3

This example clears the system file attribute from the file TMP.TXT, while setting the hidden file attribute.

```
E:\> SET FILE TMP.TXT/ATTRIBUTES=(NOSYSTEM,HIDDEN)/LOG %PCDISK-I-ATT, E:\TMP.TXT file attributes set to " H " C:\>
```

2–54 PCDISK Utility SET FILE

Related Commands

ATTRIBUTE

Related Menu Item

SHOW CONNECTIONS

Purpose

This command displays active PCDISK connections.

Guidelines

The display includes the:

- DOS drive letter
- DOS device type
- Access mode (for example, Read or Write)
- Number of sectors in the DOS device
- DOS device object

For more information on supported DOS devices and their objects, see the Supported Media section at the beginning of this chapter.

NOTE

The SHOW CONNECTIONS command gives you the same output as the USE command.

Privileges

None

Format

SHOW CONNECTIONS

Parameters

Qualifiers

None

Example

This example shows the active PCDISK connections and displays information about them.

A:\> SHOW CONNECTIONS Drive Type Access Sectors Name A: Floppy R/W 2400 DUAO:[SARRO.DISKS]MY_DISK.DSK; B: LAD Floppy R 65535 EXCASSYSTEM_V20 C: Hard R/W 20723 DUAO:[SARRO.DISKS]DOSC.HRD D: Device R/W 2400 DUA1: A:\>

Related Commands

USE

Related Menu Items

SHOW DRIVE

Purpose

This command displays the total number of bytes and number of bytes free in a connected drive. It also displays the drive letter and volume label of the drive.

Guidelines

If you omit the drive specification, the SHOW DRIVE command uses the current default drive.

Privileges

None

Format

SHOW DRIVE [drv:]

Parameters

drv: Specifies the drive for which you want the byte number, drive letter, and volume label displayed.

Qualifiers

None

Example 1

This example displays the byte count and drive for the current default drive.

A:\> SHOW DRIVE

Volume in Drive A has no label

Total	bytes		:362496
Total	bytes	free	:253952
A:\>			

2–58 PCDISK Utility SHOW DRIVE

Example 2

This example displays the drive, volume label, and byte count for the specified drive E.

A:\> SHOW DRIVE E: Volume in drive E is VMS FILES Total bytes :1213952 Total bytes free :32256 A:\>

Related Commands

None

Related Menu Item

SHOW SERVICE

Purpose

This command displays all the available servers that offer the specified service.

Guidelines

The display includes:

- Server node name
- Service rating
- Access mode
- Connection limit to the service
- Number of users of the service
- Password requirements
- Ethernet address of the server node

Privileges

None

Format

SHOW SERVICE name

Parameters

name Is the service for which you want to display the servers offering it.

Qualifiers

2–60 PCDISK Utility SHOW SERVICE

Example

This example shows the servers that offer the service EXCA\$SYSTEM_ V20 and displays information about it.

A: \> SHOW SERVICE EXCA\$SYSTEM V20							
Server	Rating	Write	Limit	Users	Password	Ethernet address	
Bronte	1	No	None	18	No	AA-34-56-78-91-01	
Woolfe	1	No	30	2	No	AA-13-14-15-16-17	
Milton	65535	No	64	0	No	AA-22-23-30-31-32	

Related Commands

USE

Related Menu Item

SHOW VERSION

Purpose

This command displays the PCDISK software version.

Guidelines

None

Privileges

None

Format

SHOW VERSION

Parameters

None

Qualifiers

None

Example

This example shows the PCDISK software version as PCDISK Version 1.1.

```
E:\> SHOW VERSION
PCDISK V1.1
E:\>
```

2–62 PCDISK Utility SHOW VERSION

Related Commands

None

Related Menu Item

SPAWN

Purpose

This command creates a subprocess, suspending but not ending, your current PCDISK session.

Guidelines

You can use SPAWN to locate virtual disk file or run another utility without ending your PCDISK session. Use the LOGOUT command to terminate the subprocess and return to the PCDISK process.

Privileges

None

Format

SPAWN [command-string]

Parameters

commandstring Specifies a command string to be executed in the context of the created subprocess. When the command completes, the subprocess terminates, and control is returned to the PCDISK process. The command string cannot exceed 132 characters.

Qualifiers

2–64 PCDISK Utility SPAWN

Example 1

This example shows how to spawn from your PCDISK session, locate files in a directory search, and return to your PCDISK session.

```
PCDISK> SPAWN

$DIR

Directory WORK:[PCDISK]

DOSA.FPY;1 DOSC.HRD;1 LOGIN.COM;9

DISK.HLB;23 GAMES.ARC;3 MY_DISK.DSK;1

NEW_FILES.COM;3 INDEX.COM;1

Total of 10 files.

$ LOGOUT

Process USER_1 logged out at 14-JUN-1989 10:55:55.70

PCDISK>
```

Example 2

This example shows how to spawn from your PCDISK session into the mail utility, and return to your PCDISK session.

```
PCDISK> SPAWN MAIL
MAIL>...
MAIL> EXIT
PCDISK>
```

Related Commands

None

Related Menu Item

TYPE

Purpose

This command displays the contents of a file.

Guidelines

None

Privileges

None

Format

TYPE [drv:][\path\]filename.ext

Parameters

9KEEP)

drv:	Is the DOS drive containing the file you want to display. If you omit this drive, the TYPE command uses the default drive.
\path\	Is the DOS path name containing the file you want to display. If you omit this path, the TYPE command uses the current directory.
filename.ext	Is the file name and file extension of the file you want to display.

Qualifiers

None

Example 1

This example shows how to display the file XFILE.DAT in the current directory.

```
E:\> TYPE XFILE.DAT
E:\>
```
2–66 PCDISK Utility TYPE

Example 2

This example shows how to display the file YFILE.DAT in the default directory on drive B.

E:\> TYPE B:YFILE.DAT

Related Commands

None

Related Menu Item

USE

Purpose

This command displays a DOS device.

Guidelines

The USE command gives you the same output as the SHOW CONNECTIONS command.

The USE command options are described individually in this chapter. Table 2–5 describes the USE command options.

Table 2–5 USE Command Options

Option	Function
USE	Displays connected DOS devices
USE drv: DOS_device	Connects a DOS device
USE drv: /DELETE	Disconnects a DOS device

Privileges

None

Format

USE

Parameters

None

Qualifiers

2–68 PCDISK Utility USE

Example

This example shows the active PCDISK connections and displays information about them.

A:\> USE Unit Type Access Sectors Name A: Floppy R/W 720 DUA0:[SARRO.PCDISK]FLOPPY.DSK E: Floppy R/W 10319 DUA0:[SARRO.PCDISK]DATA.DSK A:\>

Related Commands

SHOW CONNECTIONS SHOW SERVICE

Related Menu Item

USE drv: DOS_device

Purpose

This command connects a DOS device.

Guidelines

None

Privileges

None

drv:

Format

USE drv: DOS device

/HARD_DISK ⁻ /LAD_SERVICE /LOG /VIRTUAL /INOIWRITE -

Parameters

Is the DOS drive identifier. The possible values are A to Z.

DOS_device The VMS virtual disk file name, DOS-formatted device, or PCSA disk service name that you want to connect as a DOS drive(s). For more information on supported DOS devices and their specification syntax, see the Supported Media section at the beginning of this chapter. 2-70 PCDISK Utility USE drv: DOS_device

Qualifiers

/HARD_DISK	Specifies that the DOS device is in partitioned hard disk format. When connecting to a hard disk with multiple partitions, the drive letters are allocated in sequence beginning with the drive letter specified. If any of the drive letters in that sequence are in use, an error occurs and the hard disk is not connected.	
	NOTE PCSA and NDU do not support partitioned hard disk format.	
	Virtual hard disks are commonly used by DOS emulators running on VMS.	
/LAD_SERVICE or /VIRTUAL	Specifies that you want to connect a PCSA disk service.	
/LOG	Controls whether the USE command displays the file specifications of each file connected. Indicates that you want a printed message on the screen stating which file you connected.	
/WRITE or /RW (default) /NOWRITE or /RO	Controls whether you can write to the DOS device. Specify /NOWRITE or /RO to provide read-only access and protect files.	

Example 1

This example shows how to connect the virtual disk $\ensuremath{\text{MY}}\xspace\ensuremath{\text{DISK}}\xsp$

PCDISK> USE A: MY_DISK.DSK
A:\>

Example 2

This example shows how to connect the diskette drive DUA2 as drive A.

```
PCDISK> USE A: DUA2:
A:\>
```

Example 3

This example shows how to connect the PCSA disk service VXSYS.

```
PCDISK> USE A: BRONTE::VXSYS/LAD_SERVICE
A:\>
```

Related Commands

SHOW SERVICE

Related Menu Item

USE drv: /DELETE

Purpose

This command disconnects a DOS device.

Guidelines

None

Privileges

None

Format

USE drv: /DELETE [/LOG]

Parameters

drv: Is the DOS drive identifier. The possible values are A to Z.

Qualifiers

- /DELETE Indicates that you want to disconnect a selected drive. If you disconnect any drive within a virtual hard disk, all drives on the virtual hard disk are disconnected. The disconnected drives are now free.
- /LOG Controls whether the USE command displays the file specifications of each file disconnected.

Example

This example shows how to disconnect the active drive and display a message stating which drive you disconnected.

A:\> USE A:/DELETE/LOG %PCDISK-I-VFDCON, Diskette WORK:[PCDISK]DOSA.FPY; Drive A: disconnected PCDISK>

PCDISK Utility 2–73 USE drv: /DELETE

Related Commands

None

Related Menu Item

VOLUME

Purpose

This command displays the disk volume label of the specified drive.

Guidelines

None

Privileges

None

Format

VOLUME [drv:]

Parameters

drv: The drive is specified as an alpha character A to Z, or a to z, followed by a colon (:). If you omit the drive, the VOLUME command uses the current default drive.

Qualifiers

None

Example

This example shows how to use the VOLUME command to determine the volume label on drive E.

```
E:\> VOLUME E:
Volume in drive E is TEST
E:\>dir
```

PCDISK Utility 2–75 VOLUME

Related Commands

SET DRIVE

Related Menu Item

XCOPY

Purpose

This command copies groups of files.

Guidelines

Unlike the COPY command, XCOPY can copy an entire directory structure, including subdirectories.

Privileges

None

Format

```
XCOPY [drv1:][\path1\][filename1.ext] [drv2:][\path2\][filename2.ext]

/ARCHIVE

/FORCE_WRITE

/[NO]LOG

/MODIFIED

/SUBDIRECTORIES
```

Parameters

drv1:	Is the DOS drive with which you want the XCOPY command to start. If you omit this drive, XCOPY uses the default drive.
\path1\	Is the source directory with which you want the XCOPY command to start.
filename1.ext	Is the source file with which you want the XCOPY command to start.
drv2:	Is the destination drive where the XCOPY command is to copy files.
\path2\	Is the destination directory where the XCOPY command is to copy files.
filename2.ext	Is the destination file name. You can specify a different name if you want to rename the file.

Qualifiers

/ARCHIVE	Copies only files that have the archive attribute. The archive attribute of the source file remains unchanged.
/FORCE_WRITE	Forces a copy operation to occur even if the output specification is an existing file that has the read-only file attribute.
/LOG /NOLOG (default)	Controls whether a completion message is displayed which identifies any subdirectories created and the source and destination of any files copied.
/MODIFIED	Copies files with the archive attribute. Upon completion, the archive attribute of the source file is cleared.
/SUBDIRECTORIES	Copies files from the source directory and its subdirectories, and creates them on the destination drive. Upon completion, the archive attribute of the source file is cleared.

Example 1

This example shows how to copy all the files and subdirectories from the source directory to the destination directory.

```
E:\> XCOPY A:\ E:\ /S
E:\>
```

Example 2

This example shows how to copy every file that has the archive attribute from drive E to drive A, and retain the archive attribute on the source files.

```
E:\ XCOPY E:\ A:\ /A
E:\>
```

Example 3

This example shows how to copy every file that has the archive attribute from drive E to drive A, and clear the archive attribute on the source files.

```
E:\> XCOPY E:\ A:\ /M
E:\>
```

2–78 PCDISK Utility XCOPY

Related Commands

COPY

Related Menu Item

LAST Control Program

PCSA implements the Local Area System Transport (LAST) protocol in the VMS device driver ESS\$LASTDRIVER. The LAST control program (ESS\$LASTCP) is the management interface that allows you to control and diagnose ESS\$LASTDRIVER. Using ESS\$LASTCP, you can:

- Start and stop ESS\$LASTDRIVER
- Display counters for circuits, lines, nodes, and ESS\$LASTDRIVER
- Display node characteristics
- Display known clients and servers
- Display LAST status
- Reset counters

This chapter describes the ESS\$LASTCP commands in alphabetical order.

To start ESS\$LASTCP from DCL, set your default to SYS\$SYSTEM and enter:

```
$ RUN SYS$SYSTEM:ESS$LASTCP
```

%ESS\$LASTCP-I-VERSION, ESS\$LASTDRIVER V1.4 is running

You can define a ESS\$LASTCP foreign command, for example:

\$ ESS\$LASTCP :== \$ESS\$LASTCP

Then you can issue ESS\$LASTCP commands from the DCL prompt.

You need normal user privileges to run ESS\$LASTCP, except where noted.

To use the SHOW, STATUS, and ZERO commands, $\ensuremath{\mathsf{ESS\$LASTDRIVER}}$ must be started.

Table 3–1 lists the ESS\$LASTCP commands and their functions.

EXIT
HELP
SHOW CLIENTS
SHOW CIRCUIT COUNTERS
SHOW LINE COUNTERS
SHOW NODE CHARACTERISTICS
SHOW NODE COUNTERS
SHOW SERVERS
SHOW STATUS
SHOW TRANSPORT COUNTERS
START TRANSPORT
STOP TRANSPORT
ZERO COUNTERS

Table 3–1 ESS\$LASTCP Commands

You can abbreviate ESS\$LASTCP commands to the first unique characters of the command verb. For example, you can abbreviate the command SHOW SERVERS to SH SE.

EXIT

Purpose

This command exits ESS\$LASTCP and returns to DCL.

Guidelines

You can also press Ctrl/Z to exit ESS\$LASTCP.

Privileges

None

Format

EXIT

Parameters

None

Qualifiers

None

Example

The following example exits ESS\$LASTCP and returns to DCL:

```
ESS$LASTCP> EXIT
$
```

3–4 LAST Control Program EXIT

Related Commands

None

Related Menu Item

HELP

Purpose

This command provides help on the LAST control program and its commands.

Guidelines

None

Privileges

None

Format

HELP topic

Parameters

topic Is the ESS\$LASTCP topic or command for which you want help.

Qualifiers

3–6 LAST Control Program HELP

Example

The following example displays help for the ESS\$LASTCP SHOW NODE command:

ESS\$LASTCP> HELP SHOW NODE

SHOW

NODE

SHOW	ACTIVE NODE	CHARACTERISTICS
	KNOWN NODE	COUNTERS
	NODE node-id	

Display counters or characteristics for the node(s) selected.

Additional information available:

examples

Related Commands

None

Related Menu Item

SHOW CIRCUIT COUNTERS

Purpose

This command displays the circuit counters, which the Ethernet data link driver maintains.

Guidelines

None

Privileges

To use the SHOW CIRCUIT COUNTERS command, you must have SYSPRV and SHARE privileges.

Format

SHOW CIRCUIT COUNTERS //ALL_CONTROLLERS //CONTROLLERS=(letter[,...]

Parameters

None

Qualifiers

/ALL_CONTROLLERS	Displays the circuit counters for all Ethernet controllers in use.
/CONTROLLERS=(letter)	Displays the circuit counters for the Ethernet controllers specified. To specify an Ethernet controller, determine the device's unit name in the form DDCU.

3-8 LAST Control Program SHOW CIRCUIT COUNTERS

- DD Is the device type
- C Is the controller letter
- U Is the unit number

For example, B is the controller for device XQB3.

If you omit both /ALL_CONTROLLERS and /CONTROLLERS, ESS\$LASTCP displays the counters for the first Ethernet controller.

Example

The following example shows the circuit counters for all Ethernet controllers in use:

ESS\$LASTCP> SHOW CIRCUIT COUNTERS /ALL CONTROLLERS Ethernet Circuit Counters on unit XQA3: 48938482 Bytes received 44263546 Bytes sent 70647 Data blocks received 66823 Data blocks sent 0 Local buffer errors 0 Multicast received but not enabled Ethernet Circuit Counters on unit XOB3: 43241769 Bytes received Bytes sent 39768821 68976 Data blocks received 60375 Data blocks sent 0 Local buffer errors 0 Multicast received but not enabled

Related Commands

None

Related Menu Item

SHOW CLIENTS

Purpose

This command displays information for all known clients in the network.

Guidelines

The information includes:

- Nodename, which is the client's DECnet node name.
- Node id, which is the client's hardware address and incarnation value. The incarnation value is an identifier assigned to each client each time the client is restarted.
- Physical address, which is the Ethernet address.
- Active links, which is the number of links the client has created.
- Start time, which is the time the client connected to the server. If the client is not connected, ESS\$LASTCP displays a hyphen.

Privileges

None

Format

SHOW CLIENTS

Parameters

None

Qualifiers

3–10 LAST Control Program SHOW CLIENTS

Example

The following example displays a list of all known clients:

```
ESS$LASTCP> SHOW CLIENTS
Node
                Node
                                Physical
                                              Active
                                                      Start
Name
                 Id
                                Address
                                               Links
                                                      Time
            08002B05B19B-2122 AA-00-04-00-59-25
                                                  1
MAG357
                                                        _
            08002B082600-3C2A AA-00-04-00-40-26
                                                   0
THOLIN
                                                        ----
                                                  0
            08002B080A5E-5D11 AA-00-04-00-05-25
                                                        -----
XOCHTL
            08002B082415-101F AA-00-04-00-1D-25
                                                  2
                                                        -
BRONTE
                                                 0
                                                        -
MILTON
          08002B045CD1-050F AA-00-04-00-2A-26
                                                  0
                                                        ----
WOOLFE
            08002B0308F5-4D19 AA-00-04-00-4D-25
            08002B045C6D-4711 AA-00-04-00-60-25
                                                  2
                                                        -
WRONG
                                                        _
JIMF1
            08002B045DDF-310F AA-00-04-00-2A-27
                                                  1
            08002B080645-0006 AA-00-04-00-42-25
                                                 0
                                                        -
SUMAC
            08002B040EEC-D723 08-00-2B-04-0E-EC
BOOT
                                                   0
                                                        _
```

Related Commands

None

Related Menu Item

SHOW LINE COUNTERS

Purpose

This command displays the line counters, which the data link maintains.

Guidelines

The line counters reflect all users of the data link for this controller. See the DECnet-VMS Network Control Program Reference Manual for a complete description of this counter.

Privileges

To use the SHOW LINE COUNTERS command, you must have SYSPRV and SHARE privileges.

Format

SHOW LINE COUNTERS //ALL_CONTROLLERS //CONTROLLERS=(letter[,...])

Parameters

None

Qualifiers

/ALL_CONTROLLERS	Displays the line counters for all Ethernet controllers in use.
/CONTROLLERS=(letter)	Displays the line counters for the Ethernet controllers specified. To specify an Ethernet controller, determine the device's unit name in the form DDCU.

3–12 LAST Control Program SHOW LINE COUNTERS

- DD Is the device type
- C Is the controller letter
- U Is the unit number

For example, B is the controller for device XQB3.

If you omit both /ALL_CONTROLLERS and /CONTROLLERS, ESS\$LASTCP displays the counters for the first Ethernet controller.

Example

This example displays the line counters for the first Ethernet controller.

ESS\$LASTCP> SHOW LINE COUNTERS Ethernet Line Counters on unit XQA3: 65535 Seconds since last zeroed 521887 Receive frames 12 Receive errors 110796 Multicast frames received 92535097 Receive bytes 7018641 Multicast bytes received 438736 Transmit frames 0 Transmit errors 32338 Multicast frames transmitted 74717562 Transmit bytes 2420463 Multicast bytes transmitted 522 Frames sent, single collision Frames sent, multiple collisions 606 Frames sent, initially deferred 0 0 Transmit collision detect check failures 0 Data overruns System buffer unavailable 1 0 User buffers unavailable 0 Unrecognized frame destination

LAST Control Program 3–13 SHOW LINE COUNTERS

Related Commands

None

Related Menu Item

SHOW NODE CHARACTERISTICS

Purpose

This command can display node characteristics for a specific node, the list of active nodes, or the list of known nodes.

Guidelines

The node characteristics are:

- Nodename, which is the client's or server's DECnet node name.
- Node id, which is the node's **hardware address** and **incarnation value**. The incarnation value is an identifier assigned to each node each time it is restarted.
- Physical address, which is the Ethernet address.
- Active links, which are the number of links the client has created.
- Start time, which is the time the client connected to the server. If the client is not connected or if the node is a server, ESS\$LASTCP displays a hyphen.

Privileges

None

Format

SHOW NODE NODE ACTIVE NODE

CHARACTERISTICS

Parameters

nodename

Is the client's or server's DECnet node name.

LAST Control Program 3–15 SHOW NODE CHARACTERISTICS

Qualifiers

None

Example

The following example displays node characteristic information for node BRONTE:

ESS\$LASTCP>	SHOW NODE BRONTE			
Node Name	Node Id	Physical Address	Active Links	Start Time
BRONTE	08002B082415-101F	AA-00-04-00-1D-2	5 0	-

Related Commands

None

Related Menu Item

SHOW NODE COUNTERS

Purpose

This command can display node counters, which ESS\$LASTDRIVER maintains for a specific node for all active nodes, or for all known nodes.

Guidelines

The information displayed is:

- The number of bytes received and sent
- The number of frames received and sent
- The number of commands received and sent

Privileges

None

Format

SHOW $\left[egin{array}{c} {
m NODE nodename} \\ {
m ACTIVE NODE} \\ {
m KNOWN NODE} \end{array}
ight]$

COUNTERS

Parameters

nodename

Is the DECnet node name for the node whose counters you want to display.

Qualifiers

LAST Control Program 3–17 SHOW NODE COUNTERS

Example

The following example shows counters for node BRONTE:

ESS\$LASTCP> SHOW NODE BRONTE COUNTERS Node counters for node BRONTE 2415 Bytes received 33144 Bytes sent 45 Frames received 57 Frames sent 0 Commands issued 17 Commands received

Related Commands

None

Related Menu Item

SHOW SERVERS

Purpose

This command displays information for all known servers in the network.

Guidelines

The information includes:

- Nodename, which is the server's DECnet node name.
- Node id, which is the server's hardware address and incarnation value. The incarnation value is an identifier assigned to each server each time ESS\$LASTDRIVER is started.
- Physical address, which is the Ethernet address. If a server has more than one Ethernet controller, all Ethernet addresses are displayed.
- Active links, which is the number of links the client has created. For the SHOW SERVERS command, active links are always 0.
- Start time, which is the time the client connected to the server. For the SHOW SERVERS command, start time is always a hyphen.

Privileges

None

Format

SHOW SERVERS

Parameters

None

Qualifiers

Example

The following example shows all known servers:

ESS\$LASTCP>	SHOW SERVERS			
Node	Node	Physical	Active	Start
Name	Id	Address	Links	Time
LETTER	08002B028F25-87C0	AA-00-04-00-12-26	0	-
AUTHOR	AA0003013C27-FA60	AA-00-04-00-83-2	7 0	-
WRITER	08002B035577-0BA0	AA-00-04-00-24-2	5 O	-
TYPIST	08002B02F0CC-6300	AA-00-04-00-5E-2	5 0	
EDITOR	08002B039028-11A0	AA-00-04-00-42-2	6 0	-
PENCIL	AA00030108C1-3420	AA-00-04-00-08-24	4 0	-
CRAYON	08002B032BD0-8680	08-00-2B-02-35-DI	0 C	-
		AA-00-04-00-5F-26	5	
MARKER	08002B0210CC-87A0	AA-00-04-00-D7-2	50	-
PASTEL	08002B029814-44E0	AA-00-04-00-63-2	5 0	-
PAINTS	08002B06E9F1-E4EC	AA-00-04-00-9A-2	50	-
PINK	08002B02F51B-B9E0	AA-00-04-00-A1-2	7 0	-
BROWN	08002B0612B6-4980	AA-00-04-00-DA-2	50	-

Related Commands

None

Related Menu Item

SHOW STATUS

Purpose

This command displays the local status of ESS\$LASTDRIVER.

Guidelines

The value of the circuit service timeout is the value that was set with the START TRANSPORT/TIMEOUT command. If the /TIMEOUT qualifier is not used with the START TRANSPORT command, the value of the circuit service timeout is 0.

Privileges

None

Format

SHOW STATUS

Parameters

None

Qualifiers

None

Example

The following example displays the status of ESS\$LASTDRIVER:

```
$ RUN SYS$SYSTEM:ESS$LASTCP
%ESS$LASTCP-I-VERSION, ESS$LASTDRIVER V1.4 is running
ESS$LASTCP> SHOW STATUS
Status of ESS$LASTDRIVER V1.4 on node TDOG at 1-JAN-1990 15:56:55
Protocol version 3.0, Uptime: 15 06:35:43.14, Checksum Off,
Slow mode Off
```

LAST Control Program 3–21 SHOW STATUS

66549 Bytes pool

- 8 Ethernet buffers
- 16 I/O request packets
 - 9 Association control blocks
 - 1 Local session control blocks
 - 0 LSC In-Use blocks
 - 2 Transaction control blocks
- 9 Circuit status blocks
- 182 Node data blocks
 - 5 Transmit quota
 - 80 Maximum circuits
 - 0 LAN group code
 - 0 Server circuit timeout

Related Commands

None

Related Menu Item

3-22 LAST Control Program SHOW TRANSPORT COUNTERS

SHOW TRANSPORT COUNTERS

Purpose

This command displays the transport counters, which ESS\$LASTDRIVER maintains.

Guidelines

None

Privileges

None

Format

SHOW TRANSPORT COUNTERS //ALL_COUNTERS //CONTROLLERS=(letter[,...])

Parameters

None

Qualifiers

/ALL_CONTROLLERS	Displays the transport counters for all Ethernet controllers in use.		
/CONTROLLERS=(letter[,])	Displays the transport counters for the Ethernet controllers specified. To specify an Ethernet controller, determine the device's unit name in the form DDCU.		
	DD	Is the device type	
	С	Is the controller letter	
	U	Is the unit number	
		For example, B is the controller for	

device XQB3.

LAST Control Program 3–23 SHOW TRANSPORT COUNTERS

If you omit both /ALL_CONTROLLERS and /CONTROLLERS, ESS\$LASTCP displays the counters for the first Ethernet controller.

Example

```
The following example displays the transport counters for controller A:
```

ESS\$LASTCP> SHOW TRANSPORT COUNTERS /CONTROLLERS=(A) ESS\$LASTDRIVER Transport Counters for XQA3 251608 Seconds since last zeroed 5549774 Receive frames 0 Receive multicasts 0 Receive duplicates 0 Receive errors 00000000 Last receive failure code 6204594 Transmit frames 0 Transmit errors 00000000 Last transmit failure code 0 Retransmissions 0 Datalink Restarts 1 Protocol errors 00000001 Protocol error bit mask 0 Checksum errors 3 Client transaction aborts 6 Server transaction aborts 8 Missed segment request aborts 0 No Transmit buffers 0 Invalid transaction mode 0 Illegal circuit ID 211 Invalid multicast messages 1 Congested circuit Protocol errors include: Invalid run message

Related Commands

None

Related Menu Item
START TRANSPORT

Purpose

This command initializes an Ethernet controller with the LAST protocol.

Guidelines

By default, ESS\$LASTDRIVER is started on the first Ethernet controller (A) on the system.

The START TRANSPORT command is also in the LAD_STARTUP.COM file, so the transport is started automatically.

To use the START TRANSPORT command, you must have CMKRNL and SYSPRV privileges. Start the transport *after* you start DECnet. DECnet does not start properly if you start the transport first.

Privileges

None

Format

	/ALL_CONTROLLERS
START TRANSPORT	/CHECKSUM
	/CIRCUIT_MAXIMUM=n
	/CONTROLLERS=(letter[,])
	/GROUP=n
	/NODENAME=name
	SLOW_MODE
	/TIMEOUT=n
	/TRANSMIT_QUOTA=n

Parameters

Qualifiers

/ALL_CONTROLLERS	Initializes all present Ethernet controllers with the LAST protocol. Do not use this qualifier with the /CONTROLLERS qualifier.			
/CHECKSUM	messages	lows ESS\$LASTDRIVER to checksum all essages sent and received. By default, HECKSUM is not enabled.		
/CIRCUIT_MAXIMUM=n	Specifies the maximum number of clients that can connect to the disk server. The number of clients can be in the range of 1 to 65535. By default, 80 clients can connect to the disk server.			
/CONTROLLERS=(letter[,])	Initializes the specified Ethernet controllers with the LAST protocol. Do not use this qualifier with the /ALL_CONTROLLERS qualifier. By default, ESS\$LASTCP initializes the first Ethernet controller. To specify an Ethernet controller, determine the device's unit name in the form DDCU.			
	DD	Is the device type		
	С	Is the controller letter		
	U	Is the unit number		
	For example, B is the controller for device XQ			
/GROUP=n	Is the group code to associate with the disk server. By default, the group code is 0. If you assign a group code to a disk server, only workstations with the same group code can connect to services offered by the server.			
/NODENAME=name	Initializes ESS\$LASTDRIVER with the specified node name. By default, ESS\$LASTCP uses the DECnet node name.			

3–26 LAST Control Program START TRANSPORT	
/SLOW_MODE	Forces remote transports to transmit only one segment at a time. Use this qualifier <i>only</i> when a transmitter can transmit at a faster rate than the local node can receive. By default, /SLOW_MODE is not enabled.
TIMEOUT=n	Specifies the minimum interval in seconds to be used by the server transport to determine when inactive clients should be disconnected. An inactive client is one that has been turned off or otherwise isolated from the server.
	By default, the server's timer is specified by the client transport. This qualifier allows a minimum value to be enforced on all connections.
	The letter n represents an integer value in the range of 60 to 65535 seconds.
/TRANSMIT_QUOTA=n	Limits the number of concurrent message buffers that ESS\$LASTDRIVER can transmit for each transaction. The default transmit quota is five message buffers.

Example 1

The following example starts $ESS\LASTDRIVER$ and initializes controller A:

```
ESS$LASTCP> START TRANSPORT /CONTROLLERS=(A)
%ESS$LASTCP-I-STARTED, ESS$LASTDRIVER V1.4 started on node NODE2
%ESS$LASTCP-I-ADAPINIT, Initializing adapter XQA6: for ESS$LASTDRIVER
ESS$LASTCP>
```

Example 2

The following example starts ESS\$LASTDRIVER, initializes all controllers, and limits the number of client connections to 50:

```
ESS$LASTCP> START TRANSPORT /ALL CONTROLLERS /CIRCUIT MAXIMUM=50
%ESS$LASTCP-I-STARTED, ESS$LASTDRIVER V1.4 started on node NODE2
%ESS$LASTCP-I-ADAPINIT, Initializing adapter XQA6: for ESS$LASTDRIVER
%ESS$LASTCP-I-ADAPINIT, Initializing adapter XQB6: for ESS$LASTDRIVER
%ESS$LASTCP>
```

LAST Control Program 3–27 START TRANSPORT

Related Commands

None

Related Menu Item

STOP TRANSPORT

Purpose

This command stops ESS\$LASTDRIVER.

Guidelines

Any active sessions are aborted and all system dynamic memory is returned.

Privileges

To use the STOP TRANSPORT command, you must have CMKRNL and SYSPRV privileges.

Format

STOP TRANSPORT

Parameters

None

Qualifiers

None

Example

The following example stops ESS\$LASTDRIVER:

```
ESS$LASTCP> STOP TRANSPORT
%ESS$LASTCP-I-STOPPED, ESS$LASTDRIVER stopped
ESS$LASTCP>
```

LAST Control Program 3–29 STOP TRANSPORT

Related Commands

None

Related Menu Item

ZERO COUNTERS

Purpose

This command can reset transport, circuit, or specific-node counters, which are maintained by the data link or LAST.

Guidelines

None

Privileges

None

Format

ZERO TRANSPORT CIRCUIT NODE nodename

COUNTERS

Parameters

nodename

Is the DECnet node name for the client whose counters you want to reset.

Qualifiers

None

Example 1

The following example resets the transport counters on all Ethernet controllers initialized with LAST:

```
ESS$LASTCP> ZERO TRANSPORT COUNTERS
%ESS$LASTCP-I-ZEROTRAN, Transport counters zeroed
ESS$LASTCP>
```

Example 2

The following example resets the circuit counters on all Ethernet controllers initialized with LAST:

ESS\$LASTCP> ZERO CIRCUIT COUNTERS %ESS\$LASTCP-I-ZEROCIRC, Circuit counters zeroed ESS\$LASTCP>

Example 3

The following example resets the counters for node FLUX.

```
ESS$LASTCP> ZERO NODE FLUX COUNTERS
%ESS$LASTCP-I-ZERONODE, Node counters for FLUX zeroed
ESS$LASTCP>
```

Related Commands

None

Related Menu Item

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