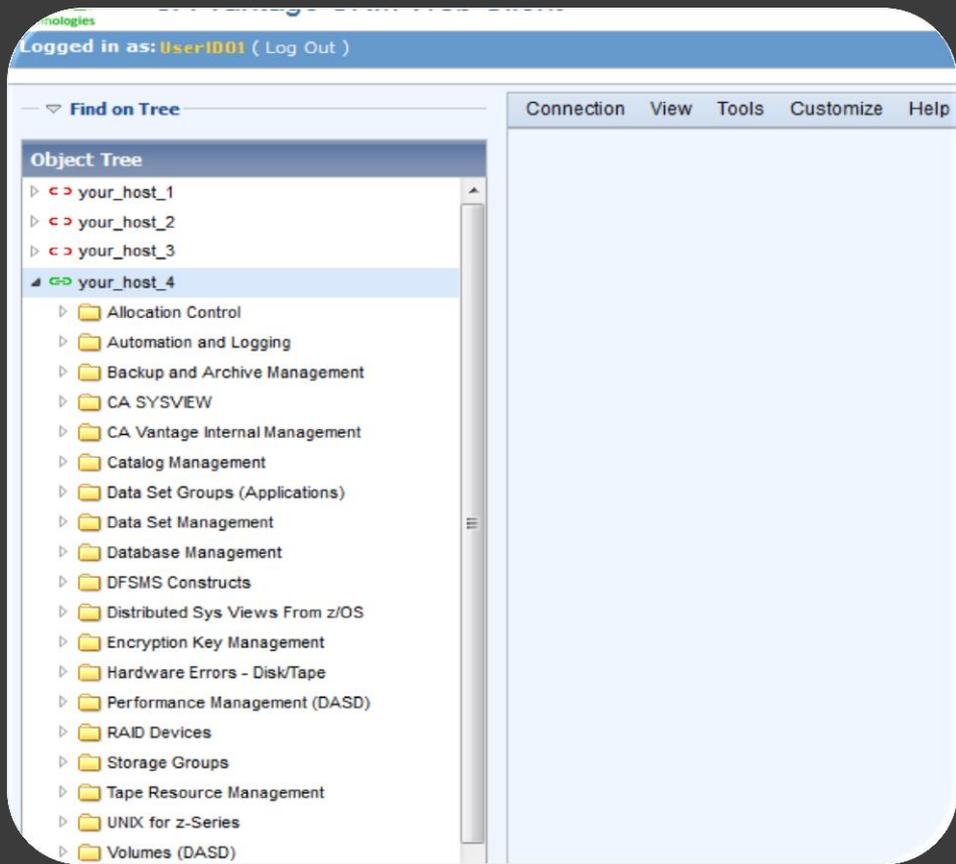


Unix File System Display

CA-VANTAGE



CA Vantage – UNIX GUI

CA Vantage / Unix GUI provides a number of options that can help ensure critical UNIX storage subsystem availability by identifying hot spots before the system is impacted.

The same ease of use script generation that you know from the z/OS side is the same for z/OS UNIX file system.

These include an allocation option for mounting and un-mounting of UNIX file systems.

Overview

- ⦿ This function displays the z/OS UNIX File System, starting at the root file system. File systems must be mounted before they can be displayed.
- ⦿ Each directory is displayed in its entirety; i.e, for each entry in a directory, the entry name and its associated attributes are displayed.

Field Descriptions

● File Name

This is the name of a file in the directory. Only the first 40 characters of a name are displayed. If the name exceeds 40 characters, it is reduced to 40 characters or less by taking out nodes in the middle of the name and replacing them with 5 dots. The full name may be displayed by zooming on the entry and selecting the full name display.

● File Type

This is the type of file backed up. Types can be:

- Dir - Directory
- Fil - Regular File
- Chr - Special Character File
- Sym - Symbolic Link
- Fif - Named Pipe File
- Soc - Socket File

Field Descriptions

- **File Owner**

The RACF user ID of the owner of the file.

- **User ID**

The numeric UID of the owner of the file.

- **Group Owner**

The RACF group ID owner of the file.

- **Group ID**

The numeric GID owner of the file.

- **Mod Time**

The time the file was last modified.

- **Mod Date**

The date the file was last modified.

- **Perms**

These are the read/write/execute (rwe/s) permissions of the file.

This field has 3 groups of 3 permissions.

- The first group governs the RACF user owner of the path

- The second group governs RACF group owner of the path.

- The third group governs external use of the path.

The "rwes" -- "s" appears for directories only - "s" stands for "Search". When "s" appears, it means that the directory is allowed to be searched. That is, one is allowed search a particular directory on its way to another directory or file.

Field Descriptions

- Access Time

The time the file was last accessed.

- Access Date

The date the file was last accessed.

- Create Time

The time the file was created.

- Create Date

The date the file was created.

- Link Count

The number of directory entries that refer to a particular file.

- Dev Nbr

Device ID of the file

- Inode Nbr

The internal structure that describes the individual files in the operating system; there is one inode for each file.

An inode contains the node, type, owner, access times, number of links, and location of a file. A table of inodes is stored near the beginning of a file system.

- Path Length

Path Length

- Long File Name

Path File Name

Directory Listing

CA SRM and CA Vantage Windows Client [Admin]

Client z/OS Open Systems Tools Window Help

Object Tree \ z/OS tso99\UNIX for z-Series\Directories

z/OS tso99

- Allocation Control
- Automation and Logging
- Backup and Archive Management
- CA SYSVIEW
- CA Vantage Internal Management
- Catalog Management
- Data Set Groups (Applications)
- Data Set Management
- Database Management
- DFSMS Constructs
- Distributed Sys Views From z/OS
- Encryption Key Management
- Hardware Errors - Disk/Tape
- Performance Management (DASD)
- RAID Devices
- Storage Groups
- Tape Resource Management
- UNIX for z-Series
 - Directories
 - Mounted zSeries File Systems
- Volumes (DASD)
- z/OS System Resources

File View Edit Operate Actions Options Help

	File Name	File Type	File Size	Perms	File Owner
1	/.	Dir	8,192	rwsr sr s	VANTR126
2	/..	Dir	8,192	rwsr sr s	VANTR126
3	/etc	Dir	8,192	rws	VANTR126
4	/usr	Dir	8,192	rwsr sr s	VANTR126
5	/var	Dir	8,192	rwsr sr s	VANTR126
6	/zWebSphereOEM	Dir	8,192	rwsr sr s	VANTR126
7	/a	Dir	8,192	rwsr sr s	VANTR126
8	/...	Dir	8,192	r sr sr s	VANTR126
9	/bin	Dir	16,384	rwsr sr s	VANTR126
10	/dev	Sym	12	rwerwerwe	VANTR126
11	/lib	Dir	8,192	rwsr sr s	VANTR126
12	/opt	Dir	8,192	rwsr sr s	VANTR126
13	/samples	Dir	8,192	rwsr sr s	VANTR126
14	/tmp	Sym	12	rwerwerwe	VANTR126
15	/u	Dir	8,192	rwsr sr s	VANTR126
16	/SYSTEM	Dir	8,192	rwsr sr s	VANTR126
17	/sys	Dir	8,192	rwsr sr s	VANTR126
18	/cai	Dir	8,192	rwsr sr s	VANTR126
19	/agent	Dir	8,192	rwsr sr s	VANTR126

XE99 / SAM1 - (UNXDIREC) Unix File System Display

RT Records: 27

Ability to zoom into a folder

The screenshot displays the CA SRM and CA Vantage Windows Client interface. The main window shows a file system view of the z/OS tso99 UNIX for z-Series Directories. The Object Tree on the left lists various system components, including Allocation Control, Automation and Logging, Backup and Archive Management, CA SYSVIEW, CA Vantage Internal Management, Catalog Management, Data Set Groups (Applications), Data Set Management, Database Management, DFSMS Constructs, Distributed Sys Views From z/OS, Encryption Key Management, Hardware Errors - Disk/Tape, Performance Management (DASD), RAID Devices, Storage Groups, Tape Resource Management, UNIX for z-Series, Directories, Mounted zSeries File Systems, Volumes (DASD), and z/OS System Resources.

The main pane shows a list of files and directories. A red arrow points to the /usr directory, which is highlighted. A zoomed-in window titled "(Zoom to) Unix File System Display" is overlaid on the main window, showing a detailed view of the /usr directory. The zoomed window displays a table of files and directories within /usr, including /usr/, /usr/., /usr/lpp, /usr/bin, /usr/include, /usr/lib, /usr/local, /usr/mail, /usr/man, /usr/sbin, /usr/share, and /usr/spool.

File Name	File Type	File Size	Perms	File Owner
1 /.	Dir	8,192	rwsr sr s	VANTR126
2 /..	Dir	8,192	rwsr sr s	VANTR126
3 /etc				
4 /usr				
5 /var				
6 /zWebSphereOEM				
7 /a				
8 /...				
9 /bin				
10 /dev				
11 /lib				
12 /opt				
13 /samples				
14 /tmp				
15 /u				
16 /SYSTEM				
17 /sys				
18 /cai				
19 /agent				

File Name	File Type	File Size	Perms
1 /usr/.	Dir	8,192	rwsr sr s
2 /usr/..	Dir	8,192	rwsr sr s
3 /usr/lpp	Dir	8,192	rwsr sr s
4 /usr/bin	Dir	8,192	rwsr sr s
5 /usr/include	Dir	16,384	rwsr sr s
6 /usr/lib	Dir	8,192	rwsr sr s
7 /usr/local	Dir	8,192	rwsr sr s
8 /usr/mail	Sym	11	rwerwerwe
9 /usr/man	Dir	8,192	rwsr sr s
10 /usr/sbin	Dir	8,192	rwsr sr s
11 /usr/share	Dir	8,192	rwsr sr s
12 /usr/spool	Sym	12	rwerwerwe

Excel output

UNXDIREC Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
1	File Name	File Type	File Size	Perms	File Owner	User ID	Group Owner	Group ID	Mod Time	Mod Date	Chg Time	Chg Date	Access Time	Access Date	Cre
2	/.	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	1:41:08	18-Apr-2015	1:48
3	/..	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	1:41:08	18-Apr-2015	1:48
4	/etc	Dir	8,192	rws	VANTR126	0	CHORGRP		1 15:29:54	06-Oct-2014	15:29:54	06-Oct-2014	17:00:06	05-Jun-2015	9:35
5	/usr	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 5:56:15	25-May-2013	17:53:48	05-Nov-2013	1:41:08	18-Apr-2015	17:4
6	/var	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 18:36:02	11-Oct-2013	17:53:48	05-Nov-2013	22:02:07	05-Nov-2013	1:45
7	/zWebSphereOEM	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 15:17:13	11-Oct-2013	17:53:39	05-Nov-2013	1:41:08	18-Apr-2015	17:4
8	/a	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:16:54	07-Nov-2013	19:16:54	07-Nov-2013	19:16:54	07-Nov-2013	19:1
9	/...	Dir	8,192	r sr sr s	VANTR126	0	CHORGRP		1 5:56:15	25-May-2013	17:53:48	05-Nov-2013	5:56:15	25-May-2013	17:4
10	/bin	Dir	16,384	rwsr sr s	VANTR126	0	CHORGRP		1 1:36:23	18-Apr-2015	1:36:23	18-Apr-2015	17:58:13	11-Oct-2013	17:4
11	/dev	Sym	12	rwerwerwe	VANTR126	0	CHORGRP		1 17:48:34	05-Nov-2013	17:48:34	05-Nov-2013	17:48:34	05-Nov-2013	17:4
12	/lib	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 17:58:13	11-Oct-2013	17:53:48	05-Nov-2013	17:58:13	11-Oct-2013	17:4
13	/opt	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 5:56:18	25-May-2013	17:53:48	05-Nov-2013	5:56:18	25-May-2013	17:4
14	/samples	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 1:45:21	31-Jan-2015	1:45:21	31-Jan-2015	16:11:13	11-Oct-2013	17:4
15	/tmp	Sym	12	rwerwerwe	VANTR126	0	CHORGRP		1 17:48:34	05-Nov-2013	17:48:34	05-Nov-2013	17:48:34	05-Nov-2013	17:4
16	/u	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	5:56:15	25-May-2013	17:4
17	/SYSTEM	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 5:56:15	25-May-2013	17:53:39	05-Nov-2013	5:56:15	25-May-2013	17:5
18	/sys	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 16:27:42	22-Sep-2014	16:27:42	22-Sep-2014	16:28:14	22-Sep-2014	12:5
19	/cai	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:16:55	07-Nov-2013	19:16:55	07-Nov-2013	19:16:55	07-Nov-2013	19:1
20	/agent	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:3
21	/BonusPak2	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:3
22	/BP2Archive	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:3
23	/CEEV2R5	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:3
24	/hjva11a	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:3
25	/ig2011mvs	Dir	8,192	rwsr sr s	VANTR126	0	CHORGRP		1 19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:37:47	07-Nov-2013	19:3

Mounted UNIX file system

The screenshot displays the CA SRM and CA Vantage Windows Client interface. The main window shows the Object Tree for 'z/OS tso99\UNIX for z-Series\Mounted zSeries File Systems'. The tree is expanded to show a list of 19 mounted file systems. The selected item is 'OMVS.XE99.CACSM.CASC1'. The main pane displays a table with the following columns: zFSName, Volume, MntPoint, Status, ReadOnly, and DevNum. The table lists 19 entries, all with a status of 'Active' and 'ReadOnly' set to 'N'. The status bar at the bottom indicates 'XE99 / SAM1 - (OBJ11100) Mounted zSeries File Systems' and 'Records: 69'.

	zFSName	Volume	MntPoint	Status	ReadOnly	DevNum
1	OMVS.XE99.CACSM.D3	TSO99N	/SYSTEM/dev/	Active	N	
2	OMVS.XE99.CACSM.D2	TSO990	/SYSTEM/dev/	Active	N	
3	OMVS.XE99.CACSM.CASC1	TSO990	/SYSTEM/dev/	Active	N	
4	OMVS.XE99.CACSM.CASC7	TSO990	/SYSTEM/dev/	Active	N	
5	OMVS.XE99.CACSM.CASC10	TSO990	/SYSTEM/dev/	Active	N	
6	OMVS.XE99.CACSM.CASC9	TSO990	/SYSTEM/dev/	Active	N	
7	OMVS.XE99.CACSM.CASC37	TSO990	/SYSTEM/dev/	Active	N	
8	OMVS.XE99.CACSM.CASC13	TSO99N	/SYSTEM/dev/	Active	N	
9	OMVS.XE99.CACSM.CASC32	TSO990	/SYSTEM/dev/	Active	N	
10	OMVS.XE99.CACSM.CASC12	TSO990	/SYSTEM/dev/	Active	N	
11	OMVS.XE99.CACSM.CASC27	TSO990	/SYSTEM/dev/	Active	N	
12	OMVS.XE99.CACSM.CASC24	TSO990	/SYSTEM/dev/	Active	N	
13	OMVS.XE99.CACSM.CASC14	TSO99N	/SYSTEM/dev/	Active	N	
14	OMVS.XE99.CACSM.CASC34	TSO990	/SYSTEM/dev/	Active	N	
15	OMVS.XE99.CACSM.CASC33	TSO99N	/SYSTEM/dev/	Active	N	
16	OMVS.XE99.CACSM.CASC11	TSO990	/SYSTEM/dev/	Active	N	
17	OMVS.XE99.CACSM.CASC18	TSO990	/SYSTEM/dev/	Active	N	
18	OMVS.XE99.CACSM.CASC38	TSO99N	/SYSTEM/dev/	Active	N	
19	OMVS.XE99.CACSM.CASC8	TSO990	/SYSTEM/dev/	Active	N	

Available actions

The screenshot displays the CA Spectrum and CA Vantage windows Client interface. The main window title is "Client z/OS Open Systems Tools Window Help". The "Object Tree" on the left shows the path: "z/OS tso99 \ UNIX for z-Series \ Mounted zSeries File Systems". The "Actions" menu is open, listing various operations for the selected file system. A red circle highlights the "Actions" menu, and a red arrow points to it from the top. The background shows a table of file systems with columns for "Volume", "MntPoint", and "St".

	Volume	MntPoint	St
1 OMVS.XE99.CACSM.D3	TSO99N	/SYSTEM/dev/	Active
2 OMVS.XE99.CACSM.D2	TSO990	/SYSTEM/dev/	Active
3 OMVS.XE99.CACSM.CAS	TSO990	/SYSTEM/dev/	Active
4 OMVS.XE99.CACSM.CASC7	TSO990	/SYSTEM/dev/	Active
5 OMVS.XE99.CACSM.CASC1	TSO990	/SYSTEM/dev/	Active
6 OMVS.XE99.CACSM.CASC9	TSO990	/SYSTEM/dev/	Active
7 OMVS.XE99.CACSM.CASC3	TSO990	/SYSTEM/dev/	Active
8 OMVS.XE99.CACSM.CASC1	TSO99N	/SYSTEM/dev/	Active
9 OMVS.XE99.CACSM.CASC8	TSO990	/SYSTEM/dev/	Active
10 OMVS.XE99.CACSM.CASC0	TSO990	/SYSTEM/dev/	Active
11 OMVS.XE99.CACSM.CASC27	TSO990	/SYSTEM/dev/	Active
12 OMVS.XE99.CACSM.CASC24	TSO990	/SYSTEM/dev/	Active
13 OMVS.XE99.CACSM.CASC11	TSO990	/SYSTEM/dev/	Active

