Customization and Use of z/VM Dirmaint

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Agenda

- What is Dirmaint?
- Dirmaint Advantages
- Finishing the Install
- Set Up Configuration Files
- Command Entry
- Common Tasks



What is Dirmaint?

- Pre-installed, priced, optional feature of z/VM
- CMS application that manages the directory
- Provides multiple interfaces
 - Primarily a command interface
 - Full screen field entry
 - Program driven
 - REXX
 - SMAPI



Dirmaint Advantages

- Installed and Maintained with z/VM
 - RSU service delivered and installed with service stream
- Most commands to maintain the directory mimic regular directory statements
- Completing the install is simple and well documented
- Automated disk allocation eliminates costly mistakes
 - Not using a current diskmap +
 - Allocating a minidisk = potential disaster



Finishing Dirmaint install

- A few steps remaining before full use
- Chapter 4 in "z/VM: Getting Started With Linux on System z"
 - Enable Dirmaint
 - Change service machine passwords
 - Set up configuration files *
 - Import current user directory
 - Put Dirmaint into production
 - Start Dirmaint



- Three types of primary configuration files
- CONFIGXX DATADVH
 - Configuration control keyword parameters
- AUTHFOR CONTROL
 - User command authorization
- EXTENT CONTROL
 - Minidisk allocation/boundaries



CONFIGXX DATADVH

- Dirmaint configuration override file(s)
- xx=one or two EBCDIC characters
- Processed in reverse EBCDIC sequence
 - Numbers before letters, 99-0 (zero-blank), Z9-AA
 - Standard CMS filemode search used across minidisks
- CONFIG DATADVH is processed last
 - The default list of all keyword values
 - Should not ever be modified, always use an override
- Contains keyword values controlling the function of Dirmaint



AUTHFOR CONTROL

- Contains a list of IDs that can issue Dirmaint commands for other IDs and the privileges available to them
 - EG: USERA can issue commands against the directory of USERB
- Resides as a file under Dirmaint's control
- Maintained by AUTHFOR and DROPFOR commands

```
*TARGETI ORIGUSER ORIGNODE CMDL CMDSETS
ALL MAINT * 140A ADGHMOPS
ALL MAINT * 150A ADGHMOPS
```



AUTHFOR CONTROL

- Adding/Removing user authorizations
- Via command
 - Dirmaint AUTHFOR and DROPFOR
- Editing the file
 - Get a copy from Dirmaint
 - Use XEDIT to modify the file
 - Send it back to Dirmaint
 - Load the new version of the file into memory



EXTENT CONTROL

- Controls minidisk allocations
- Divided into a number of sections
 - REGIONS
 - GROUPS
 - EXCLUDE
 - AUTOBLOCK
 - DEFAULTS
- Regions and Groups will be discussed in detail



EXTENT CONTROL

- REGIONS
- Defines an area on a disk device that is used for minidisk allocation
- Can be one or more parts of a volume
- Typically a full volume

:REGIONS.

*RegionId	VolSer	RegStart	RegEnd	Dev-Type	Comments
VM5RES	VM5RES	0	END	3390-03	
VM5W01	VM5W01	0	END	3390-03	
VM5W02	VM5W02	0	END	3390-03	
VM5WK1	VM5WK1	0	END	3390-03	
VM5WK2	VM5WK2	0	END	3390-03	

:END.



EXTENT CONTROL

- GROUPS
- Collection of one or more regions
- Forms a pool of disk space from which to allocate
- Allocations can be first to last or rotating

```
:GROUPS.
```

```
*GroupName RegionList

VMSYSTM (ALLOCATE ROTATING)

VMSYSTM VM5RES VM5W01 VM5W02

LNXDSK1 (ALLOCATE ROTATING)

LNXDSK1 VM5WK1 VM5WK2

:END.
```

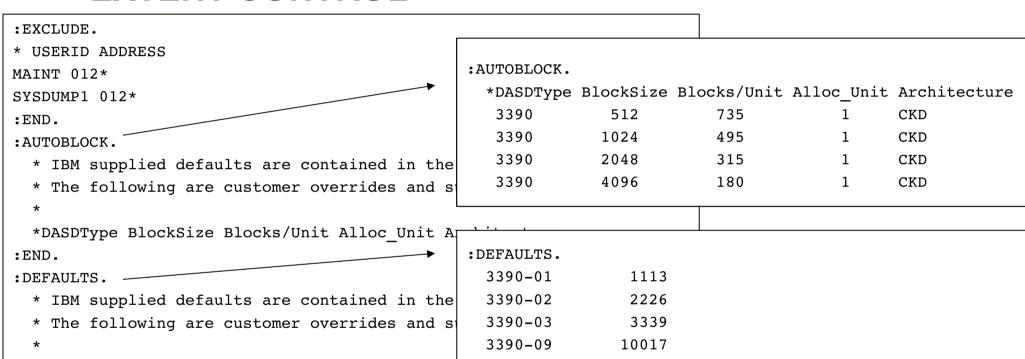


EXTENT CONTROL

- EXCLUDE Defines which minidisks are excluded from extent checking
- AUTOBLOCK Specifies device architecture values for each type of DASD
 - Taken from AUTOBLK DATADVH
- DEFAULTS Device capacity table
 - Taken from DEFAULTS DATADVH



EXTENT CONTROL



3390-084

3390-151 3390-153

3390-455

3390-568

3390-32K

3390-64K

3390

1084 2226

4365

455

1568

32760 65520

1113



*DASDType Max-Size

:END.

Finish Install

- Import USER DIRECT
 - Copy directory from MAINT
- Put into production
- Bring up Dirmaint
 - DVHBEGIN
- Disconnect from Dirmaint
- Logon to MAINT



- Commands invoked using the DIRM EXEC
- First parameters can be a modifier
 - TOsys | TOnode route command to another VM network node
 - ASuser when user with TO, issue command AS this user
 - BYuser issue command with auth of this user (like LOGONBY)
 - FORuser command affects named user (most common)
 - ATsys | ATnode route command to a node in a multi-system cluster
 - If no modifier is used, command is invoked for the current user at *
- Remainder is a Dirmaint command



• Dirmaint commands are similar to most directory equivalents *DVHAMENG CHVaddr DLink IOPTIOTI NOTAPE QTY SHUTDOWN

*DVHAMENG	CHVadar	DLINK	IOPTIOTI	NOTAPE	Qry	SHUTDOWN
*DVHUCENG	CLAss	DMDisk	IPL	OFFline	QUery	SPEcial
*UDVH	CLEANUP	DROPBy	IUCV	ONline	REPlace	SPOOL
?	${\tt CLONEDisk}$	DROPFor	Link	OPtion	REView	STAG
:ADVH	CMDisk	DROPScif	LOADDEV	PAValias	RLDCode	STATus
:HELP	CMS	DSECuser	LOCK	POOL	RLDData	STDEvopt
ACCount	COMMAND	DUMP	LOGmsg	POSIXFSRo	RLDExtn	STorage
ACIgroup	CONsole	D80NECMD	LOGONBY	POSIXGLIs	RMDisk	${\tt SUBscribe}$
ACNTAdd	CP	ELink	MACHine	${\tt POSIXGROu}$	${\tt SATellite}$	SUPGLIST
ACNTDel	CPU	ENable	MAIL	POSIXINFO	SCAn	SYSaffin
Add	CRYpto	EXECDrop	MAXSPool	POSIXIUPg	SCReen	Term
AMDisk	DASDOPT	EXECLoad	${\tt MAXstorag}$	POSIXIWDi	SECuser	TESTpw
APPCpass	DATamove	EXTNchk	MAXstore	POSIXOPT	SEND	TMDisk
AUTHBy	${\tt DATEForma}$	FILE	MDAUDit	PRIORity	SETAcnt	UNLock
AUTHFor	DEDicate	FREExt	MDisk	PRIOset	SETClass	USEDext
AUTHLink	DEFAULTs	Get	MDPW	PRIVclass	SETCPU	USER
AUTHScif	DEFINESTa	${\tt GETCONsol}$	MINIOPT	PURGE	SETMach	USERMAP
AUTOlog	DIRECT	${\tt GLOBALOpt}$	MMDisk	PW	SETOptn	USEROPtn
BACKUP	${\tt DIRECTORy}$	GLObalv	NAMEsave	PW?	SETPRiori	WORKUNIT
BATch	DIREDIT	HELP	NEEDPASS	PWGen	SETpw	XAUtolog
CHECK	DIRMAP	HISTory	NEWS	PWMON	SETSTAG	XCONfig
CHKsum	DISAble	INClude	NICDEF	QLog	SHARE	XSTORE
CHngid	DISTrib	INVen	NOPdata			



- All directory entries now managed by Dirmaint
 - Commands must be used to perform directory maintenance
 - Changes are put online immediately
 - Individual directory entries can be modified
 - GET/REPLACE
 - Wildcards can be used to affect matching virtual machines
 - MULTIUSER prefix option, MULTIUSER VERIFICATION EXIT
 - Changes can be batched
 - Multiple commands in a file, invoked with one execution



Command verification

dirm for sysadmin get nolock

DVHXMT1181R Enter the current logon password of SYSADMIN at RKS2LV for DVHXMT1181R authentication. It will not be displayed on the DVHXMT1181R terminal. To exit without processing the command, just DVHXMT1181R press ENTER.

DVHXMT1191I Your GET request has been sent for processing.

If the user is not authorized to use Dirmaint

DVHREQ2283E Userid SYSADMIN at RKS2LV is not authorized to issue the GET DVHREO2283E command for SYSADMIN at *.



Dirmaint Authorization

- Changing authorization
- Dirmaint AUTHFOR command

```
DIRM FOR ALL AUTHFOR SYSADMIN FROM * CMDLEVEL 140A CMDSET ADGHMOPS DIRM FOR ALL AUTHFOR SYSADMIN FROM * CMDLEVEL 150A CMDSET ADGHMOPS
```

- Or by editing the file
 - Get a copy from Dirmaint

DIRM SEND AUTHFOR CONTROL

- Use XEDIT to modify the file
- Send it back to Dirmaint

DIRM FILE AUTHFOR CONTROL

Load the new version of the file into memory

DIRM RLDCODE



Password required for each Dirmaint command entered

dirm needpass no

DVHXMT1181R Enter the current logon password of SYSADMIN at RKS2LV for DVHXMT1181R authentication. It will not be displayed on the DVHXMT1181R terminal. To exit without processing the command, just DVHXMT1181R press ENTER.

DVHXMT1191I Your NEEDPASS request has been sent for processing. Ready; T=0.04/0.05 13:08:57

DVHREQ2288I Your USEROPTN request for SYSADMIN at * has been accepted. DVHBIU3450I The source for directory entry SYSADMIN has been updated.

DVHBIU3456I Object directory update is not required for this source

DVHBIU3456I update.

DVHREQ2289I Your USEROPTN request for SYSADMIN at * has completed; DVHREO2289I with RC = 0.

Dirmaint commands now execute without intervention



Commands typically return data in the RDR

```
0002
                               PEEK
                                        A0 V 80 Trunc=80 Size=12 Line=0 Col=1 Alt=0
                      File SYSMAINT DIRECT from DIRMAINT at RKS2LV Format is NETDATA.
  dirm for sysmaint
                      * * * Top of File * * *
                      USER SYSMAINT SYSMAINT 32M 32M ABCDEFG
  DVHXMT1191I Your
                       INCLUDE IBMDFLT
  Ready; T=0.03/0.0
                      AUTOLOG AUTOLOG1 OP1 MAINT
                       ACCOUNT 1 SYSPROG
   DVHREQ2288I Your
                       MACH ESA
   DVHGET3305I Enti
                       IPL 190
  RDR FILE 0002 SEI
                       LINK MAINT 123 123 RR
   DVHREO2289I Your
                      LINK MAINT 191 192 RR
   DVHREO2289I = 0
                      *DVHOPT LNK0 LOG1 RCM1 SMS0 NPW1 LNGAMENG PWC20110223 CRC¢"
• Use PEEK * * * End of File * * *
```

1= Help 2= Add line 3= Quit 4= Tab 5= Clocate 6= ?/Change 7= Backward 8= Forward 9= Receive 10= Rgtleft 11= Spltjoin 12= Cursor ====>



1 File

Another way t

dirm for sysmaint revie DVHXMT1191I Your REVIEW Ready; T=0.02/0.03 14:1 DVHREQ2288I Your REVIE RDR FILE 0004 SENT FROM DVHREQ2289I Your REVIE DVHREQ2289I = 0.

PEEK the RDR

```
USER SYSMAINT XXXXXXXX 32M 32M ABCDEFG
DVHRXV3355I The following records are included from profile: IBMDFLT
PROFILE IBMDFLT
  SPOOL 000C 2540 READER *
  SPOOL 000D 2540 PUNCH A
  SPOOL 000E 1403 A
  CONSOLE 009 3215 T
  LINK MAINT 0190 0190 RR
  LINK MAINT 019D 019D RR
 LINK MAINT 019E 019E RR
 TITNK MATNT 0402 0402 RR
 LINK MAINT 0401 0401 RR
 LINK MAINT 0405 0405 RR
*DVHOPT LNK0 LOG1 RCM1 SMS0 NPW1 LNGAMENG PWC20110223 CRCe¾
DVHRXV3355I The preceding records are included from profile: IBMDFLT
 AUTOLOG AUTOLOG1 OP1 MAINT
 ACCOUNT 1 SYSPROG
 MACH ESA
 TPT 190
 LINK MAINT 123 123 MR
 LINK MAINT 191 192 RR
*DVHOPT LNK0 LOG1 RCM1 SMS0 NPW1 LNGAMENG PWC20110223 CRC¢"
DVHREV3356I The following are your user option settings:
DVHREV3356I Links DISABLED Logging ON RcvMsg ON Smsg OFF NeedPW ON
DVHREV3356I Lang AMENG
```



A Few Common Dirmaint Tasks

- Changing Storage
- Adding/Removing a LINK
- Creating a disk map
- Adding a Minidisk
- Adding Logonby entries
- Changing users password



Changing Storage

 The STORAGE command can be used to query or change a STORAGE value on the USER statement

dirm for sysadmin storage ?

DVHXMT1191I Your STORAGE request has been sent for processing.

Ready; T=0.02/0.03 20:06:57

DVHREQ2288I Your STORAGE request for SYSADMIN at * has been accepted.

DVHSTO3207I SYSADMIN currently has a maxstorage value of 16M and a

DVHSTO3207I default storage value of 16M.

DVHREQ2289I Your STORAGE request for SYSADMIN at * has completed; with

DVHREO2289I RC = 0.

dirm for sysadmin storage 24m

DVHXMT1191I Your STORAGE request has been sent for processing.

Ready; T=0.02/0.03 20:11:07

DVHREQ2288I Your STORAGE request for SYSADMIN at * has been accepted.

DVHSTO3213E Your current maximum storage size is 16M, your requested

DVHSTO3213E amount was 24M. Your request can not be satisfied.

DVHREQ2289E Your STORAGE request for SYSADMIN at * has failed; with RC =

DVHREQ2289E 3213.



Changing Storage

Must change the MAXSTORE value before the STORAGE value

```
dirm for sysadmin maxstor 24m
DVHXMT1191I Your MAXSTORE request has been sent for processing.
Ready: T=0.02/0.03 20:18:01
DVHREQ2288I Your MAXSTORE request for SYSADMIN at * has been accepted.
DVHBIU3450I The source for directory entry SYSADMIN has been updated.
DVHBIU3423I The next ONLINE will take place via Diagnose 84.
DVHBIU3428I Changes made to directory entry SYSADMIN have been placed
DVHBIU3428I online.
DVHREQ2289I Your MAXSTORE request for SYSADMIN at * has completed;
DVHREQ2289I with RC = 0.
dirm for sysadmin storage 24m
DVHXMT1191I Your STORAGE request has been sent for processing.
Ready; T=0.02/0.03 20:20:41
DVHREQ2288I Your STORAGE request for SYSADMIN at * has been accepted.
DVHBIU3450I The source for directory entry SYSADMIN has been updated.
DVHBIU3423I The next ONLINE will take place via Diagnose 84.
DVHBIU3428I Changes made to directory entry SYSADMIN have been placed
DVHBIU3428I online.
DVHREQ2289I Your STORAGE request for SYSADMIN at * has completed; with
DVHREQ2289I RC = 0.
```



Changing Storage

Check the change with the STORAGE and GET commands

```
dirm for sysadmin storage ?
DVHXMT1191I Your STORAGE request has been sent for processing.
Ready; T=0.02/0.03 20:27:43
DVHREQ2288I Your STORAGE request for SYSADMIN at * has been accepted.
DVHSTO3207I SYSADMIN currently has a maxstorage value of 24M and a
DVHSTO3207I default storage value of 24M.
DVHREQ2289I Your STORAGE request for SYSADMIN at * has completed; with
DVHREO2289I RC = 0.
dirm for sysadmin get nolock
USER SYSADMIN SYSADMIN 24M 24M G
  ACCOUNT SYSTEMS
   IPL CMS
  MACH ESA
  CONSOLE 0009 3215
  SPOOL 000C 2540 READER *
```



Add/Remove a LINK

 Specify the LINK command exactly as it is in the directory when adding a LINK

dirm for sysadmin link maint 193 193 rr

```
DVHXMT1191I Your LINF
Ready; T=0.02/0.03 20
DVHREQ2288I Your LIN
DVHBIU3450I The sour
DVHBIU3424I The next
DVHBIU3428I Changes
DVHBIU3428I online.
DVHREQ2289I Your LIN
DVHREQ2289I 0.
```

USER SYSADMIN SYSADMIN 24M 24M G ACCOUNT SYSTEMS IPL CMS MACH ESA CONSOLE 0009 3215 SPOOL 000C 2540 READER * SPOOL 000D 2540 PUNCH A SPOOL 000E 1403 A LINK MAINT 0190 0190 RR * CMS SYSTEM DISK LINK MAINT 019E 019E RR * PRODUCT CODE DISK LINK 5VMRAC40 029E 029E RR LINK 5VMRAC40 0505 0505 RR LINK 5VMRAC40 0191 0192 RR LINK RACFVM 0305 0305 RR LINK MAINT 0193 0193 RR MDISK 0191 3390 2149 001 VM5RES MR READ WRITE MULTIPLE



Add/Remove a LINK

- No change LINK command
- Any change to the LINK requires it to be deleted and readded
- Specify DELETE for the link mode to remove the link

dirm for sysadmin link maint 193 193 delete

DVHXMT1191I Your LINK request has been sent for processing.

Ready; T=0.02/0.03 21:31:34

DVHREQ2288I Your LINK request for SYSADMIN at * has been accepted.

DVHBIU3450I The source for directory entry SYSADMIN has been updated.

DVHBIU3424I The next ONLINE will take place immediately.

DVHBIU3428I Changes made to directory entry SYSADMIN have been placed

DVHBIU3428I online.

DVHREQ2289I Your LINK request for SYSADMIN at * has completed; with RC =

DVHREQ2289I 0.



Creating a Disk Map

- Traditionally used as a way to find available space
 - With the DISKMAP EXEC
- Dirmaint provides a set of commands to produce information related to disk usage
 - DIRM DIRMAP
 - DIRM FREEXT
 - DIRM USEDEXT



Creating a Disk Map

	0								
	VM5WK1	3390	\$ALLOC\$	0A04	*	0	0	1	
						1	165	165	Gap
			SFSZVPS	0191	*	166	205	40	
			SFSZVPS	0307	*	206	210	5	
			SFSZVPS	0302	*	211	225	15	
			SFSZVPS	0301	*	226	235	10	
			SFSZVPS	0303	*	236	250	15	
			SFSZVPS	0304	*	251	255	5	
						256	499	244	Gap
			RSSERV1	0191	*	500	569	70	
			RSSERV1	0302	*	570	584	15	
			RSSERV1	0301	*	585	644	60	
			RSSERV1	0303	*	645	659	15	
			RSSERV1	0304	*	660	709	50	
			RSSERV1	0305	*	710	1709	1000	
			MAINT	0500	*	1710	2509	800	
			ZPRO	0391	*	2510	2514	5	
			SFSZVPS	0305	*	2515	3014	500	
						3015	3338	324	Gap
	•		\$END\$	0A04	*	3339	3339	1	
	VM5WK2	3390	\$ALLOC\$	0A05	*	0	0	1	
			RSSERV1	0306		1	1000	1000	
			SFSZVPS	0306		1001	1500	500	
						1501	3338	1838	Gap
			\$END\$	0A05	*	3339	3339	1	_
1									

Can still perform manual allocation with Dirmaint

dirm for sysadmin amdisk 199 x autog 20 vmsystm mr pw radm wadm madm DVHXMT1191I Your AMDISK request has been sent for processing.

• Ready; T=0.02/0.03 08:06:08

DVHREQ2288I Your AMDISK request for SYSADMIN at * has been accepted.

DVHSCU3541I Work unit 27080609 has been built and queued for processing.

DVHSHN3541I Processing work unit 27080609 as MAINT from RKS2LV,

DVHSHN3541I notifying MAINT at RKS2LV, request 200 for SYSADMIN sysaffin

DVHSHN3541I *; to: AMDISK 0199 XXXX AUTOG 20 VMSYSTM MR PWS XXXX XXXX

DVHSHN3541I XXXX

DVHBIU3450I The source for directory entry SYSADMIN has been updated.

DVHDRC3428I Changes made to directory entry SYSADMIN have just been

DVHDRC3428I placed online.

DVHSHN3430I AMDISK operation for SYSADMIN address 0199 has finished

DVHSHN3430I (WUCF 27080609).

DVHREQ2289I Your AMDISK request for SYSADMIN at * has completed; with RC

DVHREQ2289I = 0.



DIRM

From EXTENT CONTROL

VMSYSTM VMSYSTM (ALLOCATE ROTATING)
VM5RES VM5W01 VM5W02

 Minidisk confirmed with DIRMAP

0								
VM5PG1	3390	\$PAGE\$	0A03	*	0	1113	1114	
		.PAGE.	0127	*	1	3338	3338	
0								
VM5RES	3390	\$ALLOC\$	0A01	*	0	0	1	Overlap
		MAINT	0123	*	0	3338	3339	Overlap
		SYSDUMP1	0123	*	0	3338	3339	Overlap
		.DRCT.	0123	*	1	20	20	Overlap
		\$DIRECT\$	0A04	*	1	20	20	
		\$SYSCKP\$	0A06	*	21	29	9	
		\$SYSWRM\$	0A07	*	30	38	9	
		MAINT	0CF1	*	39	158	120	
		MAINT	0CF2	*	159	278	120	
		• • • • • • • •		• • • • • • • • • • • • •				
		MAINT	049B	*	899	1298	400	
		MAINT	051D	*	1299	1324	26	
		SYSADMIN	0199	*	1325	1344	20	
		MAINT	0990	*	1925	1984	60	



- This methParal
- An easier
 DIRM FO

```
-DirMaint AMDISK-----
To add a new minidisk to a user definition, fill in the following:
  Minidisk Address ===> 199
                                 Device Type ===> 3390
Fill in one of the following rows:
  Explicit Start ===>
                                 Size ===>
                                                       Volser ===>
   AUTOV
                                 Size ===>
                                                       Volser ===>
         Blksize ===>
                               Blocks ===>
   VBLK
                                                       Volser ===>
   AUTOG
                                 Size ===> 20
                                                      Grpname ===> VMSYSTM
         Blksize ===>
                                                      Grpname ===>
   GBLK
                               Blocks ===>
                                                       Region ===>
                                 Size ===>
   AUTOR
         Blksize ===>
                                                       Region ===>
  RBLK
                               Blocks ===>
  T-DISK
                                 Size ===>
  TBLK
         Blksize ===>
                               Blocks ===>
  V-DISK
                                 Size ===>
  VDBS
         Blksize ===>
                               Blocks ===>
   DEVNO
                   Real Device Number ===>
Optionally fill in:
  Link Mode ===> MR
   BLKSIZE
                          LABEL ===>
   PWS Read ===>
                          Write ===>
                                              Multi ===>
                                                                  (passwords)
5741-A05 (c) Copyright IBM Corporation 1979, 2008.
  1= Help 2= Prefix Operands
                                      3= Quit
                                                  5=Submit
                                                                12=Cursor
===>
                                                          Macro-read 1 File
```



Regardless of the method shacen

Directory is up

Minidisk can b

```
USER SYSADMIN SYSADMIN 24M 24M G
  ACCOUNT SYSTEMS
  IPL CMS
  MACH ESA
  CONSOLE 0009 3215
  SPOOL 000C 2540 READER *
  SPOOL 000D 2540 PUNCH A
  SPOOL 000E 1403 A
  LINK MAINT 0190 0190 RR * CMS SYSTEM DISK
  LINK MAINT 019E 019E RR * PRODUCT CODE DISK
  LINK 5VMRAC40 029E 029E RR
  LINK 5VMRAC40 0505 0505 RR
  LINK 5VMRAC40 0191 0192 RR
  LINK RACFVM 0305 0305 RR
  MDISK 0191 3390 2149 001 VM5RES MR READ WRITE MULTIPLE
*
**********
  MDISK 0199 3390 1325 20 VM5RES MR RADM WADM MADM
```



Adding LOGONBY Entries

- LOGONBY is different than other commands
 - Values specified are ADDed or DELETEd from the LOGONBY statement
 - Use '?' to see current LOGONBY setting

DIRM FOR SYSADMIN LOGONBY ADD USER1

DIRM FOR SYSADMIN LOGONBY ADD USER2

USER SYSADMIN SYSADMIN 24M G

ACCOUNT SYSTEMS

IPL CMS

MACH ESA

LOGONBY USER1 USER2

CONSOLE 0009 3215

SPOOL 000C 2540 READER *



Changing User's Password

Change another user's logon password

dirm pw tcpboss1

DVHXMT1181R Enter the current logon password of TCPMAINT at RKS2LV for DVHXMT1181R authentication. It will not be displayed on the DVHXMT1181R terminal. To exit without processing the command, just DVHXMT1181R press ENTER.

DVHXMT1191I Your PW request has been sent for processing.

Ready: T=0.04/0.04 14:47:15

DVHREQ2288I Your PW request for TCPMAINT at * has been accepted.

DVHBIU3450I The source for directory entry TCPMAINT has been updated.

DVHBIU3423I The next ONLINE will take place via Diagnose 84.

DVHBIU3428I Changes made to directory entry TCPMAINT have been placed

DVHBIU3428I online.

DVHREQ2289I Your PW request for TCPMAINT at * has completed; with RC = DVHREO2289I 0.



References

- z/VM V6R1 Directory Maintenance Facility Commands Reference – SC24-6188
- z/VM V6R1 Directory Maintenance Facility Tailoring and Administration Guide – SC24-6190
- z/VM Getting Started With Linux on System z
 SC24-6194



Questions?



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