

Installation Procedure

Step 1. Plan for Installation

Note: These are DVD installation procedures. Your media deliverable should say "z/VM DVD Product Package." If your media label says "z/VM Product Package 3390 System DDR," you are using a CD and must use the Installation instructions for tape/cd.

- Each product on the z/VM System DDR allows VMSYS filepool directories to be used in place of some minidisks. Select to load to All minidisks, All filepool, or some products to minidisk and others to filepool. Select your system default language. The choices are AMENG, UCENG, KANJI, or GERMAN.
- Select the DASD type and model you will use to install, Either FBA or 3390 Mod 3 or Mod 9.
- For 510RES, 510W01, and 510W02:
 - If you selected 3390 Mod 9, you need one 3390 Mod 9 DASD (10017 cyl)
 - If you selected 3390 Mod 3:
 - To install all products to SFS you need two 3390 Mod 3 DASD (3339 cyl)
 - To Install any products to minidisk, you need three 3390 Mod 3 DASD
 - If you selected FBA:
 - You need two 3.5 GB SCSI disks (6835960 blocks each)
 - If you install only DIRM or RSCS and/or ICKDSF to SFS, you will need a third SCSI disk (510W02)
- For 510SPL and 510PAG: Select two more DASD addresses, one for SPOOL space and one for PAGE space. These two DASD can be any model. If you are using a 3390, a 3390 Model 3 (3339 cylinders) is suggested. If you are using FBA, 1-GB SCSI disks (6835960 blocks each) are suggested.

Step 2. First-Level OR Second-Level Installation

Step 2a. First Level Installation Only

- On the Hardware Management Console, bring up an integrated 3270 Console for the LPAR you are using to install.
- On the Hardware Management Console, bring up the Primary Support Element (SE) for the LPAR you are using to install.
- Load the z/VM System DVD in the DVD drive you will use to install.
- On the Primary Support Element (SE), select the LPAR you are using to install. Then, from the CPC RECOVERY area, double click on Load from CD-ROM or Server.
- Select one of the following radio buttons from the Load CD-ROM or Server window:
 - Hardware Management Console CD-ROM
 - Local CD_ROM
 - FTP SourceIf you are loading from the DVD Drive attached to the HMC, select the Hardware Management Console CD-rom radio button.
If you are loading from a DVD Drive with an FTP connection to the HMC, select the FTP Source radio button.
- Fill in the fields in the Load from CD-ROM or Server window:**
 - Hardware Management Console CD-ROM
 - Local CD_ROM

o FTP Source
Host computer _____
User ID _____
password _____
account (can be blank) _____
file location (can be blank) _____
If you selected to load from the Hardware Management Console CD-ROM, fill in file location with
/CPDVD
If you selected to load from FTP Source, fill in the above fields with your ftp connection and fill in file location with the ftp path to your DVD drive, following by CPDVD.

Click on Continue.

- Load the RAMDISK:
 - From the Load from CD-ROM or Server - Select the software to load window, select 510VM.ins, and click on continue.
 - From the Confirm the action window, click on yes.
 - When the completed successfully message is displayed, click OK to close and go to the Integrated 3270 Console window.
- In the Integrated 3270 Console window, the RAMdisk IPLs and the system comes up with the Maint userid logged on. You can now log off the primary SE.
- Run INSTPLAN with the correct dasdtype:
instplan dasdtype
where *dasdtype* is 3390 or FBA.
- If installing to FBA, define and vary on devices needed for installation (selected in Step 1).
 - Select a free FCP address that corresponds to your device (use Q CHPID and Q FCP commands)
 - Define the device (set edevice command)
 - Vary on the device (vary on command)
- Attach the packs selected in Step 1 or defined in the previous substep.
attach dasdaddr *
- Load the contents of the DVD to DASD.
instdvd
If you are installing to 3390 DASD, issue the following commands to format and allocate cylinders 200 through the end of the 510SPL pack, where *dasdaddr* is the address of the 510 SPL pack and *end* is 3338 for a Model 3 and 10016 for a Model 9.
ickdsf
console
console
cpvolume format unit(dasdaddr) novf range (200,end)
mode(esa) nofiller
u
cpvolume alloc unit(dasdaddr) novfy tape(SPOL,200,end)
u
end
- From the Hardware Management Console, IPL the new 510 system residence pack (510RES).
 - If installing on SCSI DASD (FBA):
 - Select the SCSI radio button
 - Fill in Load address with the address of the fcp used to define the 510RES
 - Fill in Load Parameter with SYSG
 - Fill in the World Wide port name with the WWPN used to define the 510RES
 - Fill in Logical unit number with the 16-character LUN

address of the 510RES
o Fill in Boot program selector with 0
o Fill in Boot record logical block address with 0000000000000000C8

- On the standalone program loader panel, move the cursor to the IPL parameters field and enter the following (spaces are not allowed around the equal sign):
cons=consaddr
For FBA, also specify pdvol (the dasd address of the 510RES)
cons=consaddr pdvol=dasdaddr

Step 2b. Second-Level Installation Only

- Log on to a first-level user ID from your current operating system with privilege classes B and G.
- Verify that your userid has the following:
 - R/W A-disk
 - Access to MAINT's 2CC disk
 - 22CC minidisk defined
 - 5 cylinders for 3390
 - 7200 blocks for FBA
 - 2CF1 minidisk defined
 - 45 cylinders 3390
 - 68400 blocks for FBA
- Access MAINT's 2CC as C
acc 2cc c
- Load the z/VM System DVD in the DVD drive.
- Run DVDPRIME
dvdprime dasdtype
where *dasdtype* is 3390 or FBA

DVD PATHNAME - Enter the path to the DVD drive with CPDVD appended to the end. For example:
mydvddrive/CPDVD
- Run INSTPLAN with the correct dasdtype:
instplan dasdtype
where *dasdtype* is 3390 or FBA.
- If installing to FBA, define and vary on devices needed for installation (selected in Step 1).
 - Select a free FCP address that corresponds to your device (use Q CHPID and Q FCP commands)
 - Define the device (SET EDEVICE command)
 - Vary on the device (VARY ON command)
- Attach the packs selected in Step 1 or defined in the previous substep.
attach dasdaddr *
- Load the contents of the DVD to DASD.
instdvd
- Set up the system to IPL.
system clear
terminal conmode 3270
define storage 64m
set machine xa
- Query the console and record the virtual console address (*consaddr*) _____.
query console
- IPL the new 510 system residence pack (510RES).
ipl dasdaddr clear loadparm consaddr
- On the standalone program loader panel, move the cursor to the IPL parameters field and enter the following (spaces are not allowed around the equal sign):
cons=consaddr

Step 3. First- AND Second-Level Installation

1. Press **PF10** to load. The IPL of your z/VM system continues.
If you receive message HCPIISU951I about volumes not mounted and you are not using those volume labels, ignore the message.

If you receive message HCPIIS9541I, you have duplicate volumes with the same label and must correct this error before continuing.

For first level installation:

- At the start prompt, enter **shutdown**
- Re-label the packs that are not to be used
- Re-IPL (refer to substep 13 in Step 2a).

For second level installation:

- At the start prompt, enter **shutdown**
- Detach the packs that are not to be used
- Re-IPL (refer to substep 10 in Step 2b).

2. At the Start prompt, enter:

cold drain noautolog

3. At the Change TOD clock prompt, enter:

no

4. If you receive spool file prompt HCPWRS2511A, enter:

go

After you receive the message:

FILES: nnnnnnnn RDR, nnnnnnnn PRT, NO PUN
disconnect from the operator.

disconnect

Step 4. Run INSTVM

1. Log on to the MAINT user ID. (The password is MAINT.) You may receive messages HCPLMN108E or DMSACP113S about disks not linked or attached. This is not a problem at this time.

logon maint

Enter

2. Run INSTVM with the DVD option to complete the installation tasks:

IPL CMS

INSTVM DVD

Step 5. Load the Recommended Service Tape

If you received an RSU with your z/VM System DDR:

1. Set up the userid:

ipl cms

acc 500 c

2. Get the filenames of the RSU envelopes on the 500 disk:

listfile * servlink c

envfn1 servlink c

.

envfn1 servlink c

3. Run service. Use 510RSU if it is the only RSU servlink on the 500 disk. Otherwise, use the other RSU servlink file(s):

service all envfn1 envfn2 ...

4. Put the new service into production.

ipl cms

put2prod

Step 6. Complete the Post-Installation Tasks

1. Shutdown and re-IPL your system.

shutdown reipl

Enter

logon maint

2. Backup your system to tape.

Notes:

1. If you want to define one IP configuration at this time, refer to "Configure TCP/IP for an Initial Network configuration" in chapter 4 of *z/VM: Guide for Automated Installation and Service*.

2. For FBA installs only:

- If you installed First Level, INSTDVD updated the SYSTEM CONFIG file to include EDEV statements that define the SCSI disks installed to. If you are going to IPL these disks second level, the EDEV statements need to be commented out of the SYSTEM CONFIG file before the IPL.

- If you installed Second Level, the EDEV statements were not added to the SYSTEM CONFIG. If you want to IPL the system First Level, you must add EDEV statements to the SYSTEM CONFIG file that defines the SCSI disks.

Your installation is complete!

Refer to *z/VM: Guide for Automated Installation and Service* if you want information about the following:

- Backing up NSS and segments
- Storing a backup copy on tape
- System defaults
- Preinstalled licensed products and features
- Other z/VM features

Service Procedure

1. Make sure you have a current backup of your system.
2. Log on to the MAINT user ID.
logon maint
Enter
3. **Tape:** Attach the tape drive as 181 and mount the RSU or COR tape.
attach tapeaddr * 181

If the RSU or COR tape has multiple volumes, either:

- Stack the volumes on 181, **or**
- Attach the other tape drives and mount each volume.

Electronic or CD-ROM: Follow instructions included with your order to retrieve (keep the file FIXED BINARY 1024), then use DETERSE. Maint's 500 minidisk may be used to load the servlink.

access 5e5 b

deterse envfn envft envtm = servlink =

4. Load the service.

ipl cms

service

-or-

service all tapeaddr1 tapeaddr2 ...

-or-

service all envfn1 envfn2 ...

5. Perform any testing you find necessary before putting the new service into production.

6. Put the new service into production.

ipl cms

put2prod

7. Shutdown and re-IPL your system.

shutdown reipl

Enter

z/VM Summary for Automated Installation and Service (DVD Installation)

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