

# Installation Procedure

## Step 1. Plan for Installation

1. 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.
2. Select your system default language. The choices are AMENG, UCENG, KANJI, or GERMAN.
3. Select the 3390 DASD model you will install, Mod 3 or Mod 9.
4. For 510RES, 510W01, and 510W02: Select the DASD required to install. If you choose 3390 Mod 9 (10017 cyl) you need one for the 510RES volume. If you choose 3390 Mod 3 (3339 cyl) you need three for the 510RES, 510W01, and 510W02 volumes. If selecting filepool for all items, you do not need the 510W02 volume.
5. For 510SPL and 510PAG: Select two DASD addresses, one for SPOOL space and one for PAGE space. These two DASD can be any 3390 model. 3390 Model 3 (3339 cylinders) is suggested.

## Step 2. First-Level OR Second-Level Installation

### Step 2a. First Level Installation Only

1. Mount volume 1 of the z/VM System DDR on a tape or CD drive.
2. IPL the tape or CD drive to load ICKDSF from the tape/CD. Specify a LOADPARM of CNSL`ccuu`, where `ccuu` is the address of the system console (for example, 0020)  
**console**  
...  
**console**
3. Initialize, format, and label the DASD needed for install. Labels must be 510RES, 510SPL, 510PAG, and 510W0n. Issue these commands for each DASD. (Do not run INSTALL for Enterprise Storage Server (Shark) DASD.)  
**install unit(dasdaddr) novfy**  
**cpvolume format unit(dasdaddr) novfy**  
**valid(510xxx) mode(esa) nofiller**  
If your DASD is already formatted and you did not run the `cpvolume format` command, you must relabel the DASD.  
**cpvolume label unit(dasdaddr) novfy valid(510xxx)**
4. IPL the tape or CD drive again to load the z/VM System DDR from the tape/CD. Specify a LOADPARM of `ccuu`, where `ccuu` is the address of the system console (for example, 0020).
5. Answer the prompts from the DDR program with the following:  
**sysprint cons**  
**input tapeaddr tape (skip 1 leave**  
**output dasdaddr dasd 510RES**  
**restore all**  
**input tapeaddr tape (rew**

**output dasdaddr dasd 510SPL**  
**restore all**  
If you get message HCPDDR725D, respond YES

6. IPL the tape or CD drive to load ICKDSF from the tape/CD. Specify a LOADPARM of CNSL`ccuu`, where `ccuu` is the address of the system console (for example, 0020)  
**console**  
...  
**console**
7. Allocate the 510SPL and 510PAG DASD.  
**cpvolume alloc unit(dasdaddr) novfy**  
**type(SPOL,200,size)**  
**cpvolume alloc unit(dasdaddr) novfy**  
**type(PAGE,0,size)**  
where size is 3338 for Mod 3 and 10016 for Mod 9  
If installing to 3390 Mod 9, also allocate the 510RES.  
**cpvolume alloc unit(dasdaddr) novfy**
8. IPL the 510RES DASD.
9. 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**
10. Go to "Step 3 First- AND Second-Level Installation."

### Step 2b. Second-Level Installation Only

1. Log on to a first-level user ID from your current operating system with privilege classes B and G.
2. Attach the number of packs selected in Step 1.  
**attach dasdaddr \***
3. Attach a tape or CD drive at virtual device address 181.  
**attach tapeaddr \* 181**
4. Mount volume 1 of the z/VM System DDR on the tape or CD drive attached as 181.
5. Load the installation tools from volume 1 of the z/VM System DDR to your 191 disk (it must be the 191 disk).  
**access 191 a**  
**rew 181**  
**vmfplc2 fsf 4**  
**vmfplc2 load \*\* a**  
**rew 181**
6. Select each product to load to minidisk (m) or filepool (f), the system default language, and the DASD model on which to install.  
**instplan 3390**
7. Format and label your installation DASD and restore the IIS.  
**instiis**
8. If you are installing from a CD-ROM or 3590, skip this substep and go to substep 11. If you are installing from 3480 or 3490 tape, Volume 1 of the z/VM System DDR is complete. Unload the tape from the drive.  
**tape run**

9. Attach the tape drives needed to install. (Enter the following command for each tape drive you plan to use for installation.)  
**attach tapeaddr \***
10. Mount volumes 2-14 of the z/VM System DDR.
11. Set up the system to IPL.  
**system clear**  
**terminal conmode 3270**  
**define storage 64m**  
**set machine xa**
12. Query the console and record the virtual console address (`consaddr`)\_\_\_\_\_.  
**query console**
13. IPL the IIS you loaded to the 510RES system residence pack (`dasdaddr`).  
**ipl dasdaddr clear loadparm consaddr**
14. 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 HCPISU9511 about volumes not mounted and you are not using those volume labels, ignore the message. If you receive message HCPIS95411, 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 6 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 13 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. Load the System DDR

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**

- If you are installing second-level, skip this substep and go to substep 3. If you are installing first-level, select each product to load to minidisk (m) or filepool (f), the system default language, and the DASD model on which to install.  
**instplan 3390**
- Attach the tape or CD drives to MAINT. *vtapeaddr* must be within the following ranges: 180 to 187 or 288 to 28F. Repeat this step for each tape or CD drive needed.  
**attach tapeaddr \* vtapeaddr**
- Mount volumes of the z/VM System DDR tapes/CDs that are not already mounted.
- Run the INSTVM exec to load the z/VM System DDRs.  
If you are installing from CD-ROM, enter:  
**instvm cd**  
If you are installing from 3590 tape, enter:  
**instvm 3590**  
Otherwise, enter:  
**instvm**  
On the LOAD DEVICE MENU panel, enter the tape or CD drive address for each volume in the VADDR column.  
  
Press **PF5** to load. You will receive messages for each minidisk that is loaded. Depending on the tape or CD devices you are using, you may receive some tape device management messages.

### **Step 5. Load the Recommended Service Tape**

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

- Attach the tape or CD drive.  
**attach tapeaddr \* 181**
- Mount the RSU on your tape or CD drive.  
  
If the RSU has multiple volumes, either:  
- Stack the RSU volumes on 181, **or**  
- Attach the other tape drives.  
  
If you are using an automated tape library (ATL), you must use a separate tape drive for each volume.
- Load the RSU.  
**ipl cms**  
  
If tapes are stacked on 181, enter  
**service**  
  
Otherwise, enter  
**service all tapeaddr1 tapeaddr2 . . .**
- Put the new service into production.  
**ipl cms**  
**put2prod**

### **Step 6. Complete the Post-Installation Tasks**

- Shutdown and re-IPL your system.  
**shutdown reipl**  
**logon maint**
- Backup your system to tape. Refer to chapter 4, steps 6 and 7 of *z/VM: Guide to Automated Installation and Service*.

**Note:** 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*.

**Your installation is complete!**

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

- System defaults
- Preinstalled licensed products and features

## **Service Procedure**

- Make sure you have a current backup of your system.
- Log on to the MAINT user ID.  
  
**logon maint**
- 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 =**

- Load the service.  
**ipl cms**  
**service**  
-or-  
**service all tapeaddr1 tapeaddr2 . . .**  
-or-  
**service all envfn1 envfn2 . . .**
- Perform any testing you find necessary before putting the new service into production.
- Put the new service into production.  
**ipl cms**  
**put2prod**
- Shutdown and re-IPL your system.  
**shutdown reipl**

# **z/VM Summary for Automated Installation and Service (Tape/CD-ROM Installation)**

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