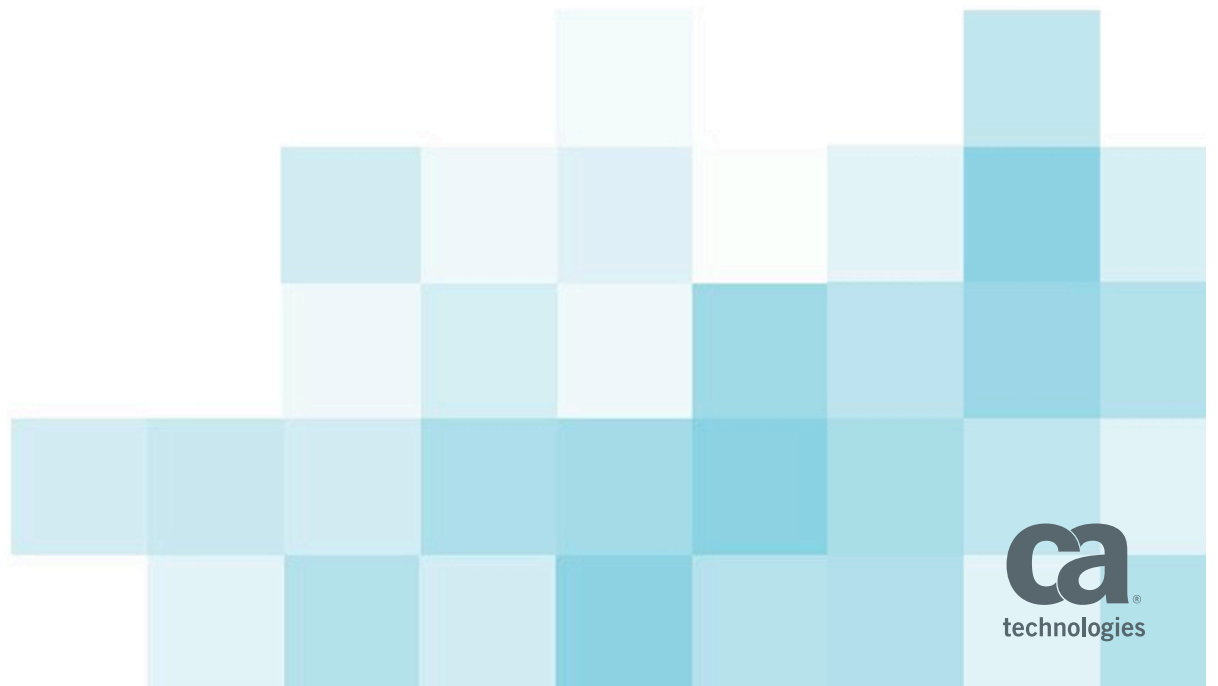


Lessons Learned from: Installing Second Level z/VM 6.3

Steps taken and roadblocks conquered

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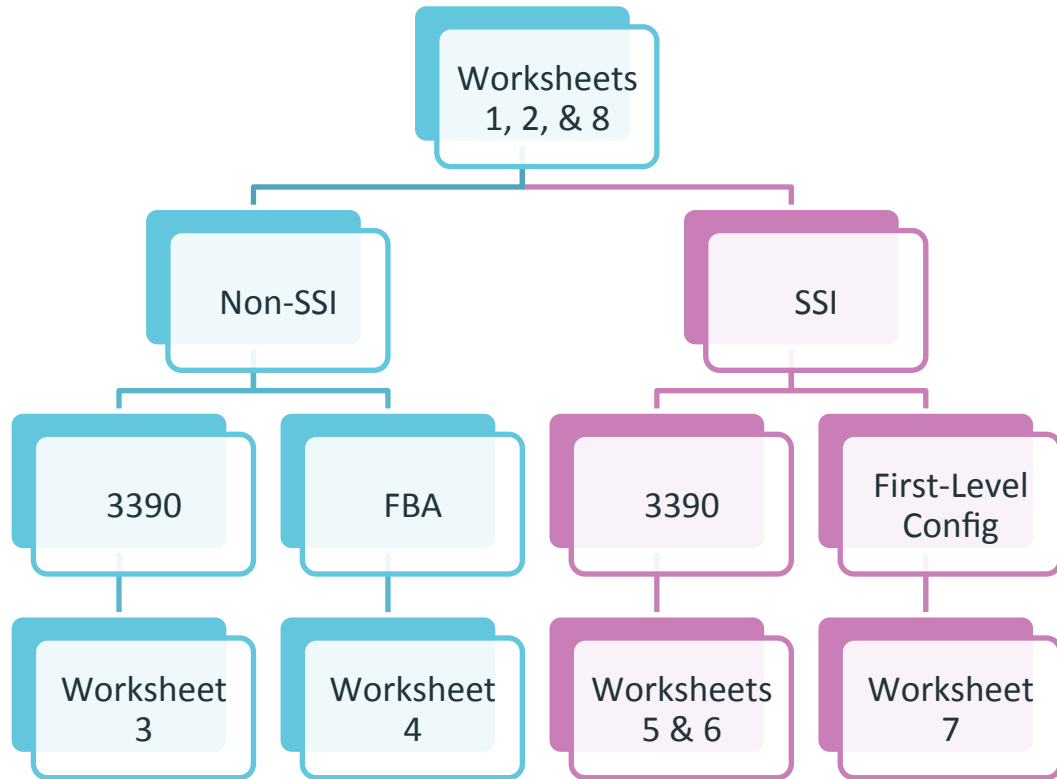
Agenda

- System Requirements
- Installation Worksheets
- Steps/Roadblocks

System Requirements

Installation ID	Any first level system administrator user ID
Current system	Access to INSTPIPE MODULE
Privilege classes	B and G
Virtual storage	64M
Language	AMENG, UCENG, or KANJI
Minidisk 191	Read/write access as file mode A
LINK to CMS minidisk that contains the VM deliverables.	
Minidisk 2222	2222 RW 3390 10 cyl
Minidisk 24CC	24CC RW 3390 10 cyl
Minidisk 2CF0	2CF0 RW 3390 10 cyl
Products	Installation and RSU tape

Installation Worksheets



- Notes:
- SSI: Single System Image
 - Non-SSI because it has less resource requirements (particularly DASD), and given we did not have SSI requirements we did not need the extra resources and set up.
 - FBA: Fixed Block Architecture

Worksheet 1

Table 7. DVD Installation Worksheet 1

Installation method (first-level or second level): _____

Record an "M" if you will load the product to a minidisk or an "F" if you will load the product to the VMPSFS file pool in the **Install To** column.

Install To	Product	Install To	Product	Install To	Product
	VM		DIRM		ICKDSF
	OSA		PERFTK		RACF
	RSCS		TCPIP		VMHCD

Default system language: _____

DASD type and model: _____

SCSI volume size: _____

Common service filepool name: _____

Installation Type:

Non-SSI System Name*: _____

SSI Number of Members: SSI Cluster Name: _____

* The system name you select should be considered a *permanent* name. Changing the system name after installation is a complicated process.



Worksheet 1

Installation Method	Second Level
Will each product be loaded to minidisks or file pools?	Minidisk
Default System Language	AMENG
DASD Type and Model	3390 Model 3
Common Service Filepool Name	VMPSYS3 (Normally VMPSYS)
Installation Type	Non-SSI
System Name	Sysname

Table 7. DVD Installation Worksheet 1

Installation method (first-level or second level): _____					
Record an "M" if you will load the product to a minidisk or an "F" if you will load the product to the VMPSFS file pool in the Install To column.					
Install To	Product	Install To	Product	Install To	Product
	VM		DIRM		ICKDSF
	OSA		PERFTK		RACF
	RSCS		TCPIP		VMHCD
Default system language: _____					
DASD type and model: _____					
SCSI volume size: _____					
Common service filepool name: _____					
Installation Type:					
___ Non-SSI		System Name*: _____			
___ SSI		Number of Members: ___		SSI Cluster Name: _____	
* The system name you select should be considered a <i>permanent</i> name. Changing the system name after installation is a complicated process.					

Worksheet 2

Table 8. DVD Installation Worksheet 2

Would you like to have your system automatically configured to be managed by a SMAPI client for system management, such as xCAT or IBM Director? (Y/N) _____

Keep the following in mind:

If you say YES, you should not attempt to manage your system in any other way.

If you'd like to manage your own system, or use a purchased external security manager or a purchased directory manager, say NO.

As an example

- For our system
 - CA VM: Director and CA VM: Secure

Worksheet 3

Volume Type

- COMMON
- COMMON2
- RELVOL
- RELVOL2
- RES
- SPOOL
- PAGE
- WORK
- WORK
- WORK

Default Label

- VMCOM1
- VMCOM2
- 630RL1
- 630RL2
- MO1RES
- MO1SO1
- MO1PO1
- MO1WO1
- MO1WO2
- MO1WO3

New Label

-
-
-
-
-
-
-
-
-
-

Address

- 158
- 159
- 15A
- 15B
- 150
- 151
- 152
- 153
- 154
- 155

Worksheet 8

Table 14. DVD Installation Worksheet 8

IP address or host name:	_____
FTP server user ID and password:	_____
DVD/FTP directory path name:	_____
VM user ID and address of VM minidisk to upload DVD:	_____

Steps 1 – 10

Step	Description	Command
1	Logon already established test system	logon jarko01
2	Link the disk with the INSTPIPE MODULE	link maintvrm 4cc vdev
3	Access the disk with the INSTPIPE MODULE	acc vdev fm
4	Copy a INSTPIPE MODULE over to the A disk/SFS directory	copy / = = a (olddate
5	Grant authority to the INSTPIPE MODULE file	grant auth instpipe module a to sysname
6	Log onto SYSNAME	logon sysname by userid
7	Access the directory the INSTPIPE MODULE was copied to in step 4	acc directoryName fm
8	Access SYSNAME's root directory as filemode A	acc . a
9	Create a 191 minidisk	define t3390 as 191 10
10	Prompt: Format 191? Make sure 191 is actually on the system	"Yes" q search

Steps 11 – 20

Step	Description	Command
11	Define a 2222 read/write minidisk	define t3390 as 2222 10
12	Define a 24CC read/write minidisk	define t3390 as 24CC 10
13	Define a 2CF0 read/write minidisk	define t3390 as 2CF0 10
14	Spool the console to make sure it is empty, started and spooled to the reader	spool cons close start *
15	Verify the 2222 disk is the right size	q v 2222
16	Access the minidisk that contains the INSTPIPE MODULE as file mode C	acc diskAddr C
17	Run INSTPIPE	instpipe
18	Link to the CMS minidisk with the image files	link userid 17E 17E
19	Access the minidisk linked in the previous step as file mode W	acc 17E w
20	Decode, unpack, and write the files needed to run DVDPRIME to the 2222 minidisk	pipe dvddecod CKD222 image w UNPACK ECKDREST 2222

Steps 21 – 29

Step	Description	Command
21	IPL CMS to remove the old INSTPIPE MODULE from storage	ipl cms
22	Access the 191 minidisk as file mode A	acc 191 a
23	View all INSTPIPE MODULE occurrences	filel instpipe module * (date
24	Access the minidisk that contains the image files as file mode W	acc 17E w
25	Access the 2222 minidisk as file mode C	acc 2222 c
26	Verify the first occurrence of the INSTPIPE MODULE is on the minidisk accessed as C	filel instpipe module *
27	Run DVDPRIME with the dasd type being installed	dvdprime 3390 (disk
28	Access minidisk 24CC as file mode C	acc 24cc c
29	Run INSTPLAN with the DVD operand	instplan DVD

Installation Panel

```
*** z/VM INSTALLATION PLANNING ***

Mark the product(s) selected to be installed into the filepool with an "F"
and those selected to be installed to minidisks with an "M"
M      VM      M      DIRM      M      ICKDSF
M      OSA     M      PERFTK     M      RACF
M      RSCS    M      TCPIP     M      VMHCD

Select a System Default Language.
_ AMENG      _ UCENG      _ KANJI

Select a System DASD model. FBA size can be changed.
_ 3390 Mod 3      _ 3390 Mod 9      _ FBA DASD 6.0

Enter name for common service filepool.
Filepool Name: _____

Select a System Type: Non-SSI or SSI (SSI requires the SSI feature)
_ Non-SSI Install:   System Name _____
_ SSI Install:      Number of Members _   SSI Cluster Name _____

F1 = HELP      F3/F12 = QUIT      F5 = Process      ENTER = Refresh
```

Installation Panel

*** z/VM INSTALLATION PLANNING PANEL 2 ***

Would you like to have your system automatically configured to be managed by a SMAPI client for system management, such as XCAT or IBM Director? (Y/N)

Keep the following in mind:

If you say YES, you should not attempt to manage your system in any other way.

If you'd like to manage your own system, or use a purchased external security manager or a purchased directory manager, say NO.

F1 = HELP F3/F12 = QUIT F5 = Process ENTER = Refresh

Installation Panel

```
*** z/VM INSTALLATION VOLUME DEFINITION ***  
TYPE LABEL ADDRESS FORMAT (Y/N)  
COMMON VMCOM1 _____  
COMMON2 VMCOM2 _____  
RELVOL 630RL1 _____  
RELVOL2 630RL2 _____  
  
TYPE LABEL ADDRESS  
sysname  
RES M01RES _____  
SPOOL M01S01 _____  
PAGE M01P01 _____  
WORK M01W01 _____  
WORK M01W02 _____  
WORK M01W03 _____  
  
F1 = HELP F3/F12 = QUIT F5 = Process ENTER = Refresh
```


Steps 30 – 37

Step	Description	Command
30	Run INSTALL to install z/VM 6.3	install
31	Log onto MAINT630	username: MAINT630 password: WD5JU8QP
32	Shutdown the second level system	shutdown
33	Log off of first level system	log
34	Receive the latest RSU	
35	Follow the steps in the Service Guide	z/VM V6.3 Service Guide
36	Edit the System Config file to include "User_Volume_List"	x system config
37	CP format the installation volumes if not already formatted	CPFMTXA/ICKDSF

Sample System Config File

```
/* **** */
/*          User_Volume_List          */
/* **** */
/* These volumes contain the minidisks for your guests, as well as */
/* the product disks for z/VM. Volumes that are not intended to hold */
/* "local" minidisks, i.e., minidisks that would be unique to a */
/* single system, should be kept on separate volumes.          */
/* **** */
/* Shared User Volumes          */
/* **** */
          User_Volume_List  VMCOM2 630RL1 630RL2

/* **** */
/* User volumes for local minidisks          */
/* **** */
          User_Volume_List  M01W01 M01W02 M01W03 SPACE1 SPACE2
```

References

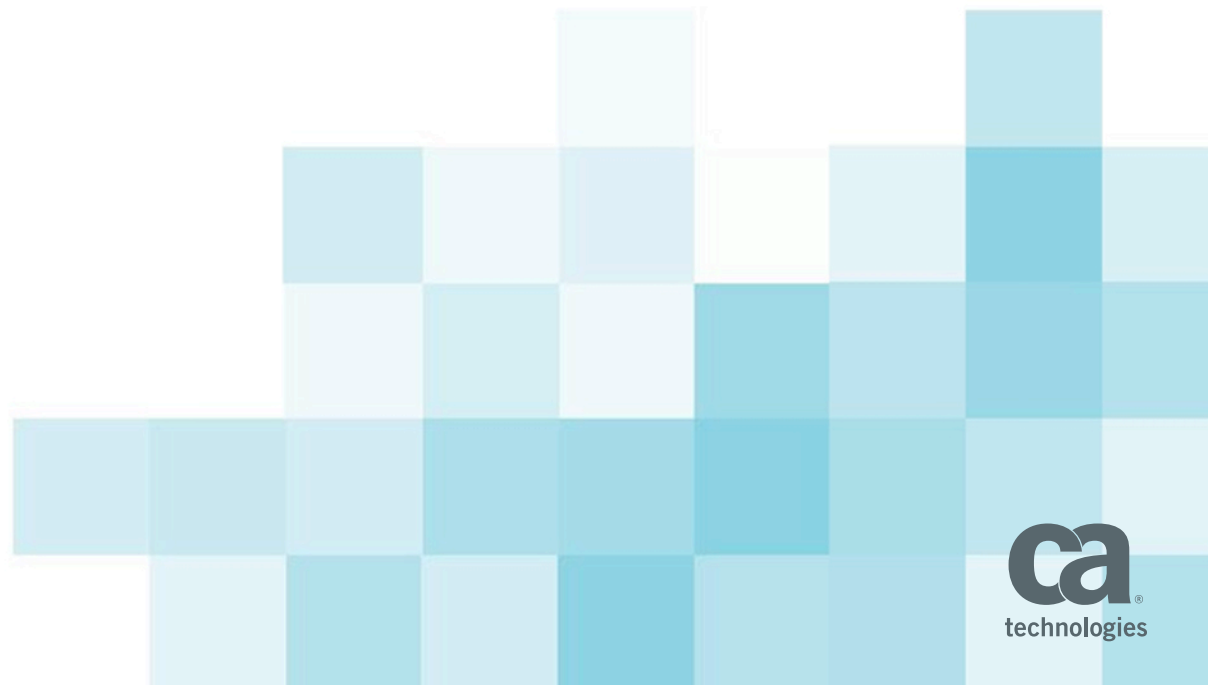
- [z/VM V6.3 CP Planning and Administration](#)
- [z/VM V6.3 Service Guide](#)
- [z/VM V6.3 Running Guest Operating Systems](#)
- [z/VM V6.3 Installation Guide](#)
- [z/VM V6.3 Other Components Messages and Codes](#)
- [Device Support Facilities: User's Guide and Reference](#)
- [z/VM V6.3 CP Commands and Utilities Reference](#)
- [z/VM V6.3 VMSES/E Introduction and Reference](#)

- All of these documents can be found at
<http://www.vm.ibm.com/library/index.html>

Questions?

CA Community Link for the VM: Manager Products

<https://communities.ca.com/community/ca-mainframe-virtualization>





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