



VELOCITY
SOFTWARE

*Automated Operations with the Velocity
Performance Suite (zVPS)*

Tim Kessler

Automated operations using:

- **Installer 4.2**
- **zOPERATOR**
- **zAlert**

Automatic installation

- SSI, single image or existing environments
- Complete installation in a couple hours

Check for Updates facility

- Supports HTTP or FTP
- Proxy servers
- FTP firewall
- Can be used for upload and downloads
- Automatic invocation option
- FTP option to delete members in user area
- Key updates
- Uninstalled products now on end

Disk configuration changes

- SSI support – All DASD defined on initial member
- SCSI blocks
- DIRMAINT AUTOG and AUTOV
- VMSECURE subpools
- DIRECT files created for zVPS userids
- EXECs created for DIRMAINT & VMSECURE commands
- SFS authorizations automatically run
- RACF definitions created

- Restart server option
 - Menu and will ask with automatic installation of updates
- PF14 – Select Disk Config for base components
- Automatic installation of 0 level release
- Initial configuration changes copied to other SSI members
- GETCONS option on logon for YES, NO, ASK
- PROFILE EXEC updated
 - Use USERPROF SAMPLE
- Server version checking
- Additional information on product status errors

Installer 4.2

MAIN

Velocity Software Inc.
Product Installation and Configuration

The following product packages are available for installation
Place "X" to mark the directory entries to create or update and press PF4
Place the cursor on a product package and press PF2 to install

Product Name	Status	Installed Version	Available Packages
INSTALL	Complete	4.2.1.2	4200 4201 4202 4203 4210 4211 4212
PORTAL	Complete	4.2.0.0	4150 4151 4152 4200
PTRACK	SFSInvalid	2.1.1.1	2110 2111
SFPURGER	Complete	4.1.2.0	4110 4120
VSESNMP	Incomplete	<none>	4100
ZALERT	Complete	4.2.0.3	4200 4201 4202 4203
ZDOC	Complete	4.1.1.0	4100 4102 4110
ZLDEV	Incomplete	<none>	4130 4150
ZMAP	Complete	4.3.0.0	4240 4243 4244 4245 4246 4300
ZMON	Complete	4.2.4.1	4200 4203 4230 4231 4232 4240 4241
ZOPER	Complete	4.2.0.0	4120 4121 4122 4123 4124 4200
ZPRO	Complete	1.3.6.0	1350 1360
ZPROV2	Complete	2.1.0.0	2100
ZSSL	User Inval	<none>	4170 4173
ZTCP	Complete	4.3.0.0	4230 4236 4237 4238 4239 4300
ZTUNE	Complete	4.2.0.0	4100 4110 4200
ZVIEW	Complete	4.2.4.0	4170 4173 4200 4201 4230 4231 4240
ZVWS	Complete	4.2.1.0	4200 4202 4203 4206 4209 4210
ZWRITE	Complete	4.3.0.0	4240 4244 4245 4246 4247 4248 4300

License Key, overtyp e to update:

License Key expires: Mar 2, 2017

Missing user(s): ZWBSADM ZWBS01 ZWBS02 ZWBS03 ZWBS04 ZWBS05

PF1: Help PF2: Select PF3: Exit PF4: Disk Config PF5: Key Update PF6: Delete

PF9: Check for Updates PF10: Config

Fast path commands

- VSIMAINT CONFIG product {filename {filetype}}
- VSIMAINT RESTART product
- VSIMAINT CLOSECON product

Console files age by server

Installer 4212

- Fix for console files not getting pruned

Installation steps

- Create ZVPS userid
- Create VMSSVPS SFS filepool
- Download and unpack INSTALL PROD4210
- EXEC VSIMAIN
- Use 'Check for Updates' facility to download products
- Exit VSIMAIN and restart
- Select Automatic install
- Configure DASD for zVPS components
- Run EXEC to define zVPS VM directory entries

Installation steps

- Update RACF or VMSECURE definitions (all SSI members)
- VSIMAIN – Install All – F11
- Configure zVPS components and ensure proper operation
- Log onto ZVPS on next SSI member
- VSIMAIN & select automatic installation
- Set system name
- Installation automatically run

zOPERATOR

- Console and automations manager
- No charge component of zVPS
- Scrollable, searchable console display
- Messages can be:
 - Colored, highlighted, held, suppressed, message to a user, written to file, execute command, emailed or SNMP trap sent
- Log files kept for user specified days
- Can be used on OPERATOR or any other user
- Integrated with zMON
 - After 4200 install ZOPER disk no longer needed

```
ICH408I USER(ANONYMOU) GROUP(      ) NAME(???)
LOGON/JOB INITIATION - USER AT TERMINAL          NOT RACF-DEFINED
ICH408I USER(ANONYMOU) GROUP(      ) NAME(???)
LOGON/JOB INITIATION - USER AT TERMINAL          NOT RACF-DEFINED
HCPMXE6224I Event recording is pending because there are no users connected to *
MONITOR for this type of data.
HCPMXE6224I Sample recording is pending because there are no users connected to
*MONITOR for this type of data.
DVHRLY3886I Hourly processing started; with 0 log
DVHRLY3886I files.
DVHRLY3886I Hourly processing started; with 0 log
DVHRLY3886I files.
DVHRLY3886I Hourly processing started; with 0 log
DVHRLY3886I files.
DVHRLY3886I Hourly processing started; with 0 log
DVHRLY3886I files.
DVHRLY3886I Hourly processing started; with 0 log
DVHRLY3886I files.
ICH408I USER(TIMK      ) GROUP(DEMO      ) NAME(#####)
LOGON/JOB INITIATION - INVALID PASSWORD ENTERED AT TERMINAL 98086472
GRAF L0005 DISCONNECT TIMVPS  USERS = 136
GRAF L0003 RECONNECT  TIMVPS  USERS = 136  BY TIMK      FROM 152.8.100.114
GRAF L0005 DIALED TO OPERATOR 0100 DIALED= 1      FROM 152.8.100.114
GRAF L0005 DROP FROM OPERATOR 0100 DIALED= 0
ICH408I USER(VSIMAINT) GROUP(SYS1      ) NAME(#####)
LOGON/JOB INITIATION - INVALID PASSWORD ENTERED AT TERMINAL 98086472
GRAF L0006 DIALED TO OPERATOR 0200 DIALED= 1      FROM 152.8.100.114
GRAF L0006 DROP FROM OPERATOR 0200 DIALED= 0
ICH408I USER(ZVPS      ) GROUP(SYS1      ) NAME(#####)
LOGON/JOB INITIATION - INVALID PASSWORD ENTERED AT TERMINAL 98086472
```

```

1
2050 44
:55:07 OPERATOR GRAF L0006 DISCONNECT TIMK      USERS = 154      FORCED BY SYS
:46:10 ZALERT      SUSELNX2 RUNNING CRAZY
:56:11 ZALERT      SUSELNX2 RUNNING CRAZY
:00:00 OPERATOR HCPMXE6224I Event recording is pending because there are n
sers connected to *MONITOR for this type of data.
:00:00 OPERATOR HCPMXE6224I Sample recording is pending because there are
users connected to *MONITOR for this type of data.
:01:06 DIRMAINT DVHRLY3887I Hourly processing completed; 0 log
:01:06 DIRMAINT DVHRLY3887I files processed, 1 log files remaining.
:01:10 ZALERT      S11S20RA RUNNING CRAZY
:06:10 ZALERT      SUSELNX2 RUNNING CRAZY
:16:10 ZALERT      SUSELNX2 RUNNING CRAZY
:16:41 OPERATOR GRAF L0007 LOGON  AS  ZMAP      USERS = 154      BY DSADEV  F
192.168.5.225
:26:11 ZALERT      SUSELNX2 RUNNING CRAZY
:46:11 ZALERT      SUSELNX2 RUNNING CRAZY
:56:11 ZALERT      SUSELNX2 RUNNING CRAZY
:00:00 OPERATOR HCPMXE6224I Event recording is pending because there are n
sers connected to *MONITOR for this type of data.
:00:00 OPERATOR HCPMXE6224I Sample recording is pending because there are
users connected to *MONITOR for this type of data.
:01:07 DIRMAINT DVHRLY3887I Hourly processing completed; 0 log
:01:07 DIRMAINT DVHRLY3887I files processed, 1 log files remaining.
:06:10 ZALERT      SUSELNX2 RUNNING CRAZY
:07:53 OPERATOR GRAF L000D RECONNECT  DSADEV      USERS = 154      FROM 192.168.
25
:16:11 ZALERT      SLES10  RUNNING CRAZY
:16:11 ZALERT      SUSELNX2 RUNNING CRAZY
:26:11 ZALERT      SUSELNX2 RUNNING CRAZY
:33:52 OPERATOR GRAF L0007 LOGOFF AS  ZMAP      USERS = 153
:34:01 OPERATOR GRAF L000D DISCONNECT DSADEV      USERS = 153
:36:11 ZALERT      SUSELNX2 RUNNING CRAZY
:46:10 ZALERT      SUSELNX2 RUNNING CRAZY
:50:42 OPERATOR GRAF L0007 LOGON  AS  ZVPS      USERS = 154      BY TIMK      F
75.103.4.82
:55:07 OPERATOR GRAF L0006 DISCONNECT TIMK      USERS = 154      FORCED BY SYS
:56:11 ZALERT      SUSELNX2 RUNNING CRAZY
1=Help      2=
3=Quit      4=Del Hold      5=All      6=PFKEY Off
7=Backward  8=
9=Log Back  10=
11=
12=Retriev

```

Time	---Users---			Transact.		CPUs	Processor		Cap- ture Ratio	--Storage (MB)--		
	On	Actv	In Q	per Sec.	Avg. Time		Utilization	Virt.		Fixed User	Active Resid.	Stor Load
14:31:00	92	49	17.0	21.3	0.34	2	17.3	14.5	100	22	11836	0.4
14:30:00	92	60	16.0	22.0	0.26	2	14.2	12.0	100	22	11875	0.4
14:29:00	92	46	18.0	21.1	0.29	2	14.4	12.3	100	22	11824	0.4
14:28:00	92	47	16.0	20.5	0.29	2	13.3	11.1	100	22	11824	0.4
14:27:00	92	53	15.0	21.2	0.27	2	14.9	12.7	100	22	11845	0.4
14:26:00	92	52	11.0	21.1	0.28	2	65.6	63.5	100	22	11844	0.4
14:23:00	92	45	14.0	20.1	0.32	2	15.5	13.0	100	22	11821	0.4
14:19:00	92	47	15.0	20.0	0.32	2	16.2	14.0	100	22	11826	0.4
14:18:00	92	47	16.0	20.4	0.31	2	15.5	13.1	100	23	11827	0.4
14:17:00	92	54	18.0	20.5	0.31	2	16.6	14.4	100	22	11850	0.4
14:15:00	92	60	27.0	21.2	0.30	2	13.1	10.9	100	22	11875	0.4

PF1=Help PF2=ESAMMENU PF3=Quit PF4=Select PF5=Plot PF6=ESATOC
 PF8=Forward PF9=Sort PF10=Parms PF11=More PF12=Cancel

14:16:10	ZALERT	LNPR	CPU UTIL FOR PROCESS	smallstr-18133	ON	suselnx2	IS	53%
14:20:11	ZALERT	LPCP	LPAR VSIVM5 IS AT	99%				
14:21:10	ZALERT	LPCP	LPAR VSIVM5 IS AT	99%				
14:22:10	ZALERT	LPCP	LPAR VSIVM5 IS AT	99%				
14:23:11	ZALERT	LPCP	LPAR VSIVM5 IS AT	99%				
14:24:10	ZALERT	LPCP	LPAR VSIVM5 IS AT	100%				
14:25:10	ZALERT	LPCP	LPAR VSIVM5 IS AT	99%				
14:26:10	ZALERT	LPCP	LPAR VSIVM5 IS AT	99%				
14:27:10	ZALERT	LPCP	LPAR VSIVM5 IS AT	100%				
14:27:40	OPERATOR	GRAF	L0003 DISCONNECT TIMVPS	USERS =	92			
14:28:10	ZALERT	LPCP	LPAR VSIVM5 IS AT	100%				
14:29:10	ZALERT	LPCP	LPAR VSIVM5 IS AT	100%				
14:29:21	OPERATOR	GRAF	L0007 DROP FROM TIMVWS	0200 DIALED=	1			
14:30:11	ZALERT	LPCP	LPAR VSIVM5 IS AT	100%				
14:31:10	ZALERT	LPCP	LPAR VSIVM5 IS AT	99%				

PF1=Help 2= 3=Quit 4=Del Hold 5=All 6=PFKEY Off
 PF7=Backward 8= 9=Loc Back 10= 11= 12=Retrieve

Redisplay and searching

- Page or search forward or backward
- Date and/or time
- Literals
 - Similar to XEDIT: */literal/*
 - Search backwards unless in redisplay mode will continue in same direction
- ALL command
- Multiple operands with & | ¬

```

1 REDISPEN: 06/21/13 OPERATOR COMSOLE
:57:19 OPERATOR USER DSC LOGOFF AS TIMVPS USERS = 144 FORCED BY SYS
:24:14 OPERATOR USER DSC LOGOFF AS TIMK USERS = 143 FORCED BY SYS
:22:11 OPERATOR USER DSC LOGOFF AS TIMVPS USERS = 143 FORCED BY SYS
:58:14 OPERATOR USER DSC LOGOFF AS TIMVPS USERS = 143 FORCED BY SYS
----- Friday June 21 2013 -----
:46:16 OPERATOR USER DSC LOGOFF AS DEMOWS61 USERS = 151 FORCED BY SYS
----- Saturday June 22 2013 -----
----- Sunday June 23 2013 -----
:04:24 OPERATOR USER DSC LOGOFF AS RKSDEV USERS = 145 FORCED BY SYS
----- Monday June 24 2013 -----
----- Tuesday June 25 2013 -----
----- Wednesday June 26 2013 -----
----- Thursday June 27 2013 -----
----- Friday June 28 2013 -----
----- Saturday June 29 2013 -----
:29:36 OPERATOR USER DSC LOGOFF AS DXTVPS USERS = 156 FORCED BY SYS
----- Sunday June 30 2013 -----
----- Monday July 01 2013 -----
:32:10 OPERATOR USER DSC LOGOFF AS DXTVPS USERS = 158 FORCED BY SYS
----- Tuesday July 02 2013 -----
----- Wednesday July 03 2013 -----
----- Thursday July 04 2013 -----
:59:44 OPERATOR USER DSC LOGOFF AS RKSDEV USERS = 157 FORCED BY SYS
----- Friday July 05 2013 -----
----- Saturday July 06 2013 -----
:27:41 OPERATOR USER DSC LOGOFF AS DXTDEV USERS = 156 FORCED BY SYS
:30:47 OPERATOR USER DSC LOGOFF AS DXTVPS USERS = 155 FORCED BY SYS
----- Sunday July 07 2013 -----
----- Monday July 08 2013 -----
----- Tuesday July 09 2013 -----
----- Wednesday July 10 2013 -----
:42:44 OPERATOR USER DSC LOGOFF AS TIMVPS USERS = 154 FORCED BY SYS
----- Thursday July 11 2013 -----
:33:43 OPERATOR USER DSC LOGOFF AS TIMK USERS = 154 FORCED BY SYS
:34:34 OPERATOR USER DSC LOGOFF AS TIMVPS USERS = 153 FORCED BY SYS
----- Friday July 12 2013 -----
:37:40 OPERATOR USER DSC LOGOFF AS DXTDEV USERS = 155 FORCED BY SYS
1=Help 2= 3=Return 4= 5=All 6=PFKEY Off
7=Backward 8=Forward 9=Loc Back 10=Loc Ewd 11= 12=Retrieve

```

Other display options

- Split screen
 - Performance display in one and OPERATOR log in other
- SCALE
 - Useful when creating rules
- ZONE
- PFKEY
- SUPPRESS (redisplay mode)
- USER
 - ON, OFF, *, ALL, userid1 userid2 ... or userid*
- TIME
- WRAP

- Customizable PFKEYS
 - zOPERATOR commands
 - Commands with data inserted from command line
- CLEAR key to clear current display

Remote access

- DIAL terminals
 - Option to restrict commands
 - One terminal buffer
 - Terminal size must be less than or equal to original size
- View from another CMS user
- zVIEW web page
 - Automatically updates every 30 seconds
 - Select date and time range
 - Select user
 - zALERT click through

Message rules processing

- Easy online configuration
- Fast and efficient processing
- Unique or common to each zOPERATOR instance

ZOPER ZOPRULES Configuration

zOPERATOR Action Rules

Match: Msg type CMSOUT User ID _____ Comment zOPERATOR error
 Start col 10 End col 12 = Target ZOP
 & Start col2 19 End col2 19 = Target E
 Action: Color RED Ext highlight REVERSE Suppress ___ Hold YES Stop ___
 Send to _____ Send type _____ Send zSERVE ___
 Cmd _____ File _____
 EMAIL address _____ SNMP trap _____

Match: Msg type CPOUT User ID _____ Comment Log ons
 Start col 30 End col 34 = Target LOGON
 Start col2 _____ End col2 _____ Target _____
 Action: Color GREEN Ext highlight _____ Suppress YES Hold ___ Stop YES
 Send to _____ Send type _____ Send zSERVE ___
 Cmd _____ File _____
 EMAIL address _____ SNMP trap _____

Match: Msg type * User ID _____ Comment DIRMAINT hour process start
 Start col 10 End col * = Target DVHRLY3886I
 Start col2 _____ End col2 _____ Target _____
 Action: Color GREEN Ext highlight _____ Suppress YES Hold ___ Stop YES
 Send to _____ Send type _____ Send zSERVE ___
 Cmd _____ File _____
 EMAIL address _____ SNMP trap _____

Match conditions

- Message type
 - *, CMD, CMS, CP, MSG, EMSG, IMSG, SMSG, WNG or SECUSER
- User ID
- Comment
- Start column
- End column
- Condition
 - = or [^]

Match conditions

- Target
- Optional second condition
- And (&) or or (|)

Actions

- Color
- Extended highlighting
- Suppress
- Hold
- Stop
 - Don't check any other rules
- Send to user
- Send type
 - MSG, SMSG, MSGNOH

Actions

- **Cmd**
 - Invoke command or EXEC
 - Parms &n where n is word of message or &ALL
- **File**
- **Email**
 - Email address or @filename.filetype for list
- **SNMP trap**

Condense option (F9) to view all rules

Events to automate

- TCP/IP or other server crashes
- SFS file space problems
- Security violations
- Linux issues
- zALERTs



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