

Operational Monitoring and Automation Scenarios for a z/VM Cluster and Linux on System z Guests

SHARE Session #15725

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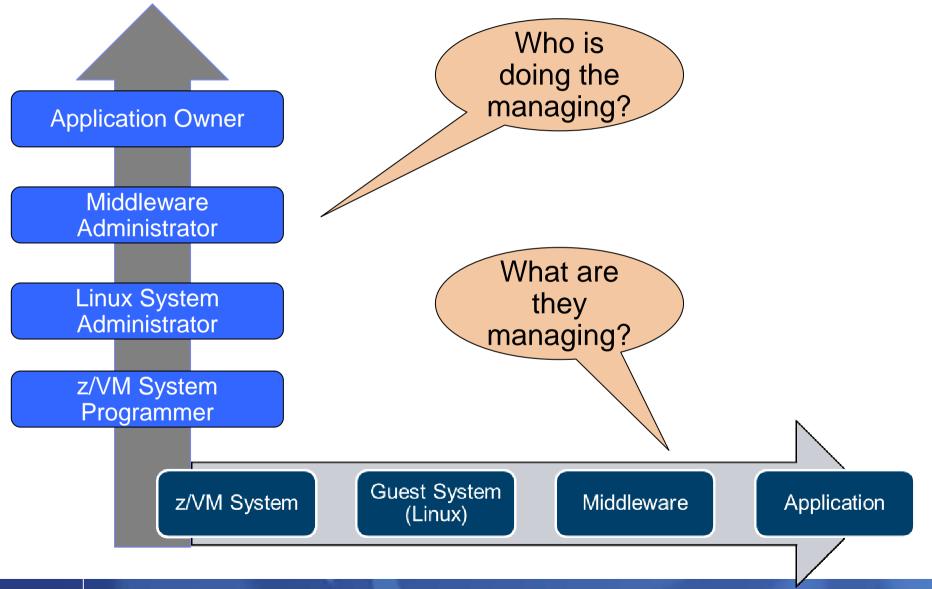


Agenda

- Where do the IBM products fit
- Introduction to recommended practices and examples
- Brief overview of product being used
 - IBM Operations Manager for z/VM
 - What's new in V1.5 available October 25, 2013
- Considerations for z/VM Single System Image
- Recommended practices in detail
 - Live demonstrations
 - Configuration and sample code
- Summary
 - Reference information
 - Additional demos
 - Configuration options and sample code for all demos

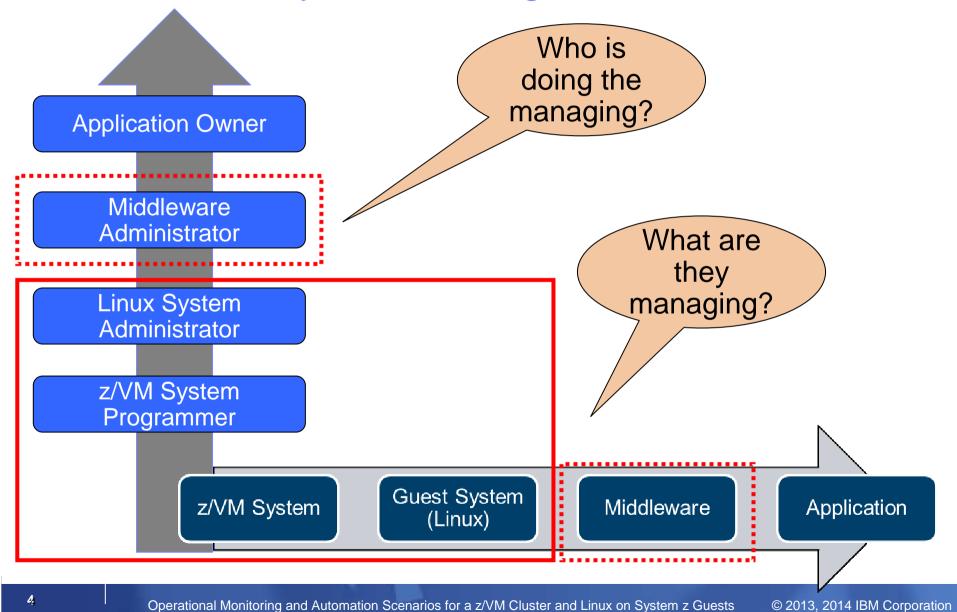


Dimensions of Systems Management

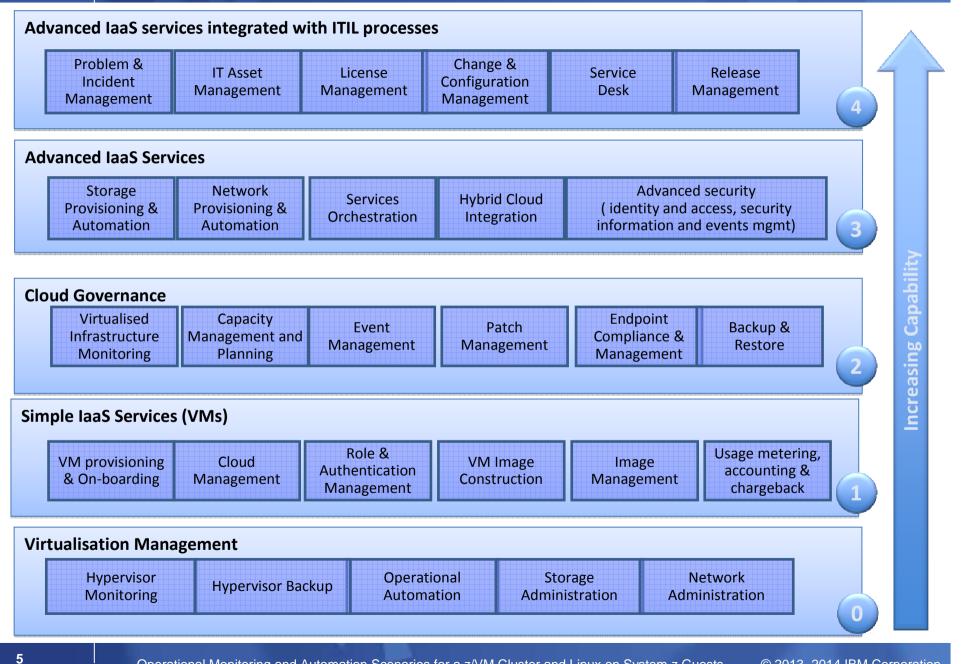




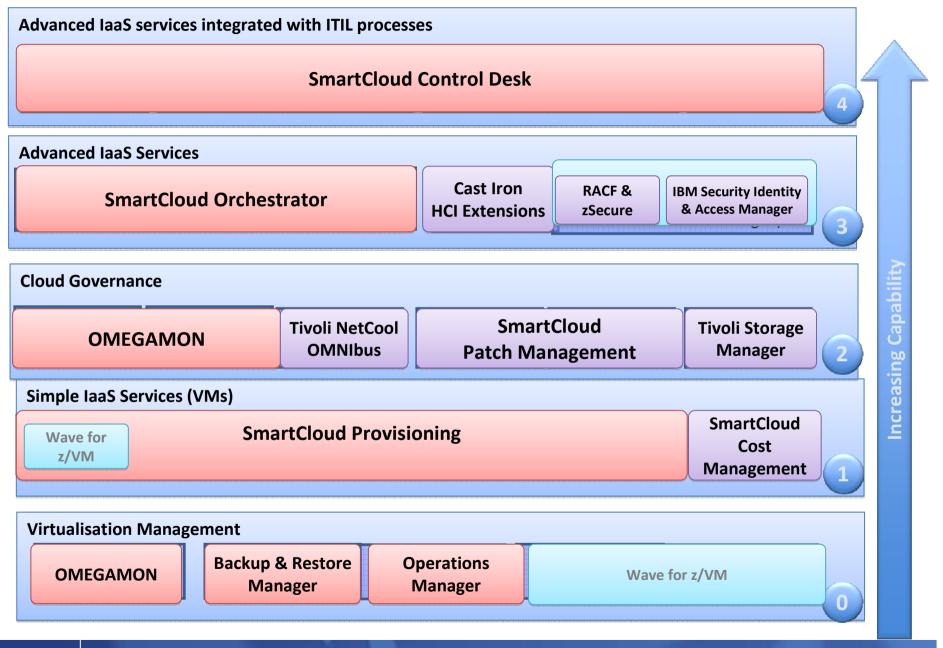
Dimensions of Systems Management













Managing z/VM and Linux on System z

- Security
 - RACF and zSecure Manager for z/VM
- Performance monitoring
 - OMEGAMON XE on z/VM and Linux
- Operational monitoring and automation
 - Operations Manager for z/VM
 - Including integration with existing monitoring and alert systems
- Backup and recovery
 - Backup and Restore Manager for z/VM
 - Tape Manager for z/VM
 - Tivoli Storage Manager
- Interactive provisioning and system resource management
 - IBM Wave for z/VM



IBM z/VM Management Solutions

Hands on Lab

- Operations Manage for z/VM
- Backup and Restore Manager for z/VM
- Session #15731
- Tuesday, 10am, Room 301



IBM Wave for z/VM and Operations Manager for z/VM

- IBM Wave for z/VM provides an <u>interactive</u> GUI interface for:
 - Provisioning of Linux guests
 - Basic performance information
 - Monitoring of virtual server <u>resources</u>
 - z/VM and Linux administrator tasks

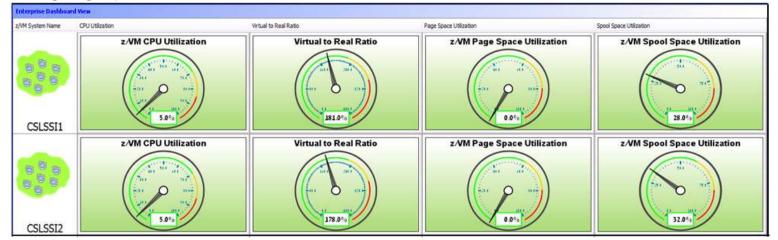
Operations Manager for z/VM provides operational monitoring & automation

- In the background
 - Monitoring of console messages for z/VM service machines and Linux guests
 - Monitoring "state" information for z/VM service machines and Linux guests
 - Monitoring spool and page space on the z/VM system
 - Automated responses to these monitors when they are triggered
 - Email
 - SNMP alerts
 - Integration with IBM Tivoli Netcool/OMNIbus enterprise alert system
 - Actions that address the problem immediately in addition to or instead of alert notification
- Interactive when needed
 - View and interact with live service machine and Linux guest consoles
 - View and manage spool files
- Complementary solutions
 - Use Operations Manager to monitor Wave service machines
 - Use Operations Manager to automatically initiate tasks in Wave via the Wave CLI



IBM Wave for z/VM and OMEGAMON XE on z/VM and Linux

 IBM Wave for z/VM provides point in time monitoring of virtual server resources from a single graphical interface



• OMEGAMON XE on z/VM and Linux provides

- Deeper level monitoring of z/VM
- Deeper level monitoring of individual Linux guest environments
- Ability to set service level thresholds and generate events when exceeded
- <u>Historical</u> view of monitoring data
- Both OMEGAMON XE on z/VM and Linux and IBM Wave can coexist in customer environments
- Both gather the data from the Performance Toolkit for z/VM



Recommended Practices – Operational Management

View and issue commands on consoles of Linux guests and CMS service machines

- > Operations staff monitoring multiple consoles or a central console of alerts
- > System programmers debugging a problem on a guest or service machine

Generate alerts and/or automatically recover from

- Abend, termination, or error messages
- Service machine disks approaching full
- Critical user IDs or guests being logged off or entering error state
- Spool and/or page space approaching full

Schedule automated system maintenance procedures

- Spool cleanup based on policies
- Minidisk cleanup (from logs), including archiving
- Orderly startup and shutdown
 - > Relocation of critical guests to another SSI member
- Backups of z/VM system



Automation Demos Available

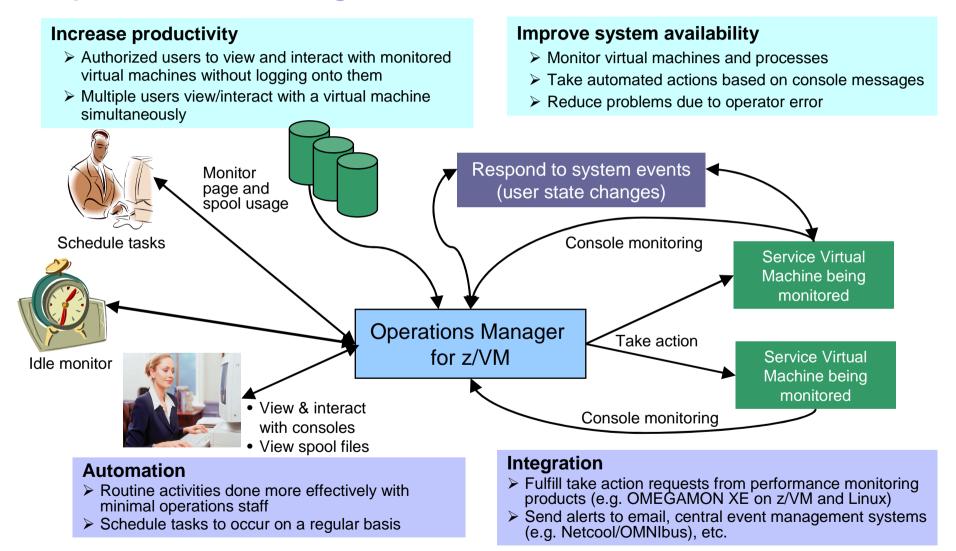
- 1. View consoles of Linux guests, Linux syslog data, and CMS user IDs or service machines
- 2. Send an e-mail based on a console message
- 3. Send an alert to Netcool/OMNIbus based on a console message, hold and unhold messages
 - a. Using POSTZMSG interface to Netcool/OMNIbus
 - b. Using SNMP interface to Netcool/OMNIbus
- 4. Send a message or email if spool approaches full
 - a. Send a message if spool usage is too high on any member of an SSI Cluster
 - b. Send an email if spool usage is too high on a single system
- 5. View and clean up spool files
- 6. Automated spool cleanup
- 7. Archiving DIRMAINT's log files when disk gets full
- 8. Process a file of test messages as a console
- 9. Process Linux syslog data as a console
- **10.** Create a central operations console on one z/VM system
- 11. Create a central operations console across multiple z/VM systems
 - a. When the systems are in an SSI cluster
 - b. When the systems are not in an SSI cluster
- 12. Integration with OMEGAMON XE on z/VM and Linux take action based on CPU usage of Linux guest
- **13.** Monitor service machines for logoff and autolog them
- 14. Send an email if page space approaches full
- 15. Monitor SSI connectivity between 2 cluster members
- 16. Suppress passwords on Linux consoles
- 17. Autolog a Linux Guest and Send Message if Doesn't Start Successfully



Product Overview IBM Operations Manager for z/VM



Operations Manager for z/VM



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Features and Functions

- Monitor service machine consoles
- Monitor page space and spool usage
- Monitor system events
- Schedule events/actions
- Take actions automatically based on monitoring results
- View and interact with monitored consoles from authorized user IDs
- Find and view spool files
- Dynamic configuration
- Separation of access control



Dynamic Configuration

- Initial configuration file loaded at startup
 - May imbed other configuration files
 - Filename can be a substitution variable for the system name
- Most configuration options can be updated while Operations Manager is running
 - Add, delete, or change:
 - Rules, actions, monitors, schedules, holidays, groups, user authorization
 - Suspend or resume rules, monitors, schedules
- Multiple methods
 - CMS command interface
 - (Re)load a new or updated configuration file
 - Commands in action routines

Sample configuration files provided

- Includes some of the demos in this presentation
 - Operations Manager configuration statements
 - Sample REXX code



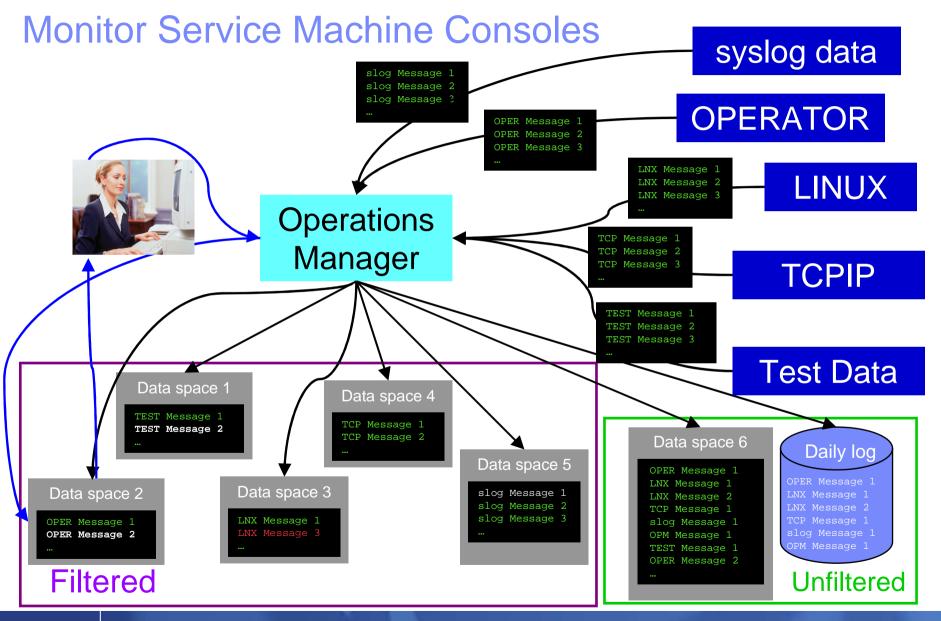
View and Issue Commands on Consoles Linux Guests and CMS Service Machines

Generate Alerts and/or Automatically Recover From Abend Messages Termination Messages Error Messages









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View and Interact with Consoles

Authorized users can view live consoles of monitored service machines & guests

- Multiple users can view the same console simultaneously
- No need to logon to the user ID to see its console
 - No interruption of the user ID
- No need to create and close console files of disjointed data
- Test data and Linux syslog data treated as a "console"
- Views can be defined to look at a group of consoles in one view
- Can specify a date and time range for your view within currently available data
- Can request a copy of the current console data for a user or set of users
- Format of date in the view is based on requestor's CP DATEFORMAT setting

Full screen mode

- Scroll up and down to view and search historical data
- Auto scroll (on or off) as new output is displayed on the console
- From command line, issue commands back to the monitored console
- Amount of data that is visible depends on specified or default data space size
 - Or date/time range specified
- Rules/actions may modify the view
 - Suppress messages from the console
 - Hold or highlight messages with color, blinking, etc.
- Authorized users can view the log file
 - Can also request a copy of the log file from today or a previous day



Monitor Service Machines

Define rules to

- Scan console messages for text matching
 - Includes column, wildcard, and exclusion support
 - Optionally restrict to specific user ID(s)
- Take actions based on matches
- Multiple rules can apply to one message
 - Rules processed in order of definition in the configuration file
 - FINAL option available to indicate no additional rules should be evaluated



Executing Actions

Define action(s) to be triggered

- Specify action to take as part of the console rule definition
 - Action is taken when match is found
- Types of actions
 - Change color, highlight, hold, or suppress a console message
 - CP or CMS commands
 - REXX EXECs
 - Write data out on a TCP/IP port
 - E.g. send data to a syslog daemon/server

Dynamically include data about the triggering event in the action

- Available to the action via substitution variables
- Take multiple actions based on one message
 - Chain actions together
 - Limit the number of times an action is taken in a specified period of time



Generate Alerts and/or Automatically Recover From Critical User IDs or Guests Logging Off Critical User IDs or Guests Enter Error State



Respond to System Events

- Create monitors for z/VM system events (*VMEVENT) related to user IDs
 - Class 0
 - 0 Logon
 - 1 Logoff
 - 2 Failure condition (including CP READ and Disabled Wait)
 - 3 Logoff timeout started
 - 4 Forced sleep started
 - 5 Runnable state entered (VM READ)
 - 6 Free storage limit exceeded
 - 9 Outbound relocation started
 - 10 Inbound relocation started
 - 11 Outbound relocation complete
 - 12 Inbound relocation complete
 - 13 Outbound relocation terminated
 - 14 Inbound relocation terminated
 - 15 Timebomb exploded
- Additional classes also supported
- Optionally restrict to specific user ID(s)
- Specify the action associated with the event
 - Actions specified are the same as those for schedules, console rules, and other monitors



Generate Alerts and/or Automatically Recover From Spool Space Approaching Full Page Space Approaching Full



Monitor Page and Spool Usage, View Spool Files

- Create page and spool space monitors to trigger actions when
 - Percent of spool usage falls within a specified range
 - Percent of spool usage increases at a specified rate
 - Percent of page space usage falls within a specified range
 - Percent of page space usage increases at a specified rate
- Actions triggered can be the same actions used by console monitoring

For spool files, authorized users can

- Display a list of spool files based on one or more attributes
 - Owner
 - Size
 - Date created
- From the list, the user can
 - Sort the list on any of the available columns
 - View the contents of an individual spool file
 - Purge, transfer, or change a spool file



Schedule Automated System Maintenance Procedures

Monitor for Rules, Monitors and Schedules that Were Not Triggered

Spool Cleanup Based on Policies Backups Disk Cleanup Orderly Startup and Shutdown



Schedule Events and Actions

Define schedules

- Hourly, daily, weekly, monthly, or yearly, nth weekday of the month
- Once on specified month, day, year, and time
- Based on ISO week definitions (week number; even, odd, first, last week)
- At regular intervals
 - Every x hours and y minutes
- Within a specified window of time
 - Specify start time
 - Specify conflicting schedules
 - Specify maximum time to defer this schedule
- Within limits
 - Restrict to specific days of the week: Monday through Sunday plus holidays
 - Restrict to certain hours of the day
- Specify the action associated with the schedule
 - Actions specified are the same as those for console rules and all other monitors



Idle Monitors

Define idle monitors

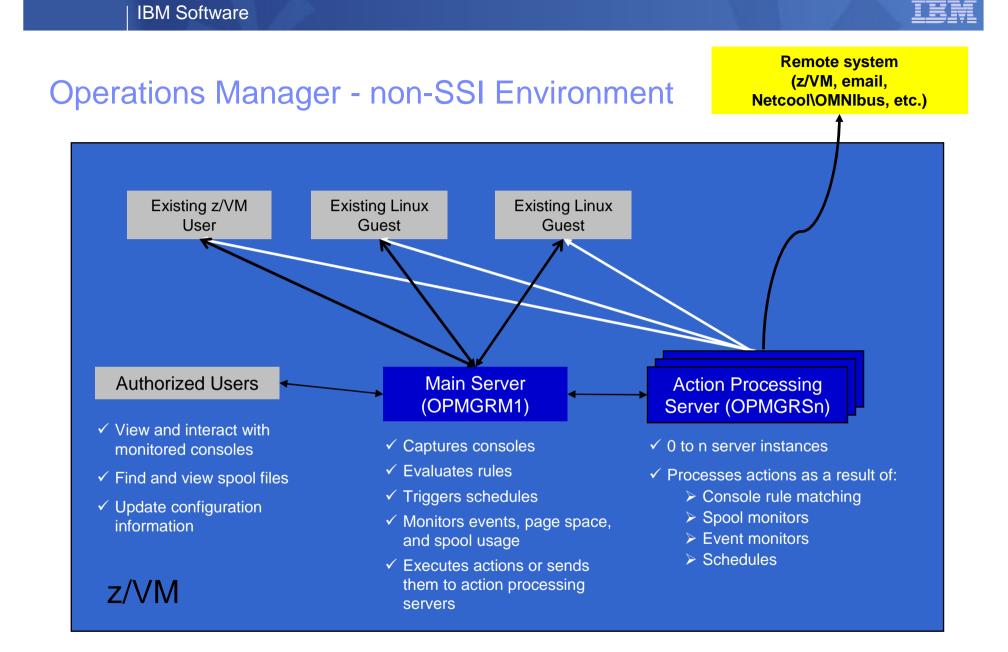
- Watch for idle rules, schedules, and monitors
 - Rule, schedule, or monitor <u>not</u> triggered *n* number of times within specified period of time

Specify the action associated with the idle monitor

 Actions specified are the same as those for schedules, console rules, other monitors

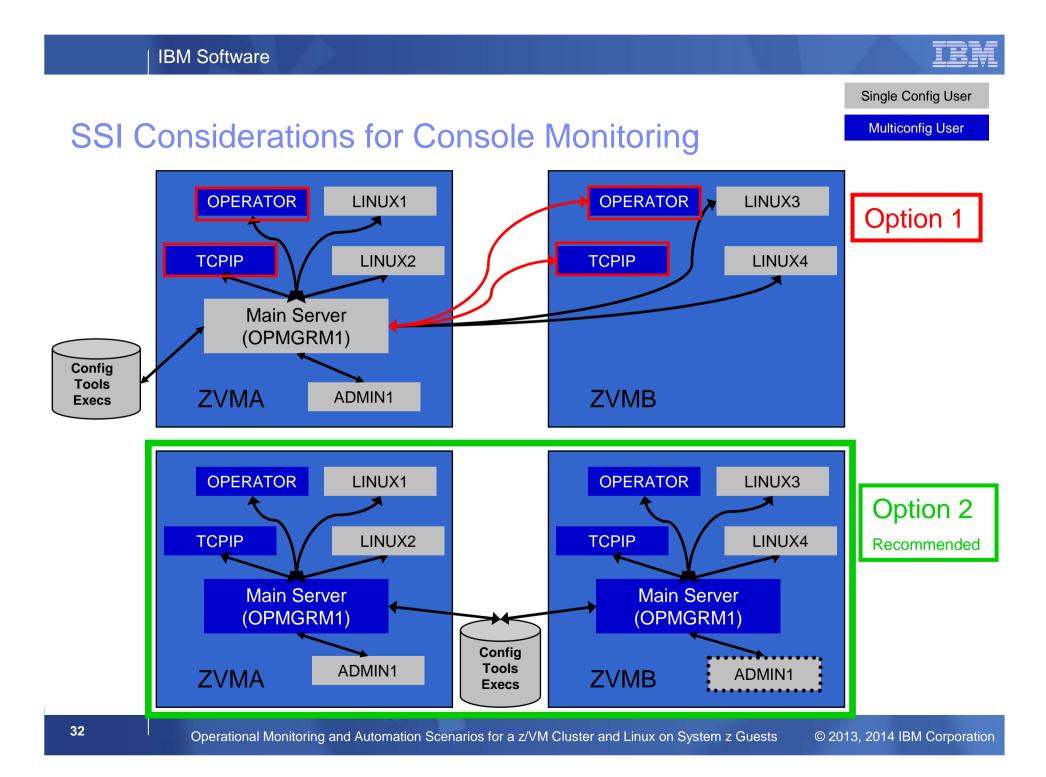


SSI vs non-SSI Considerations

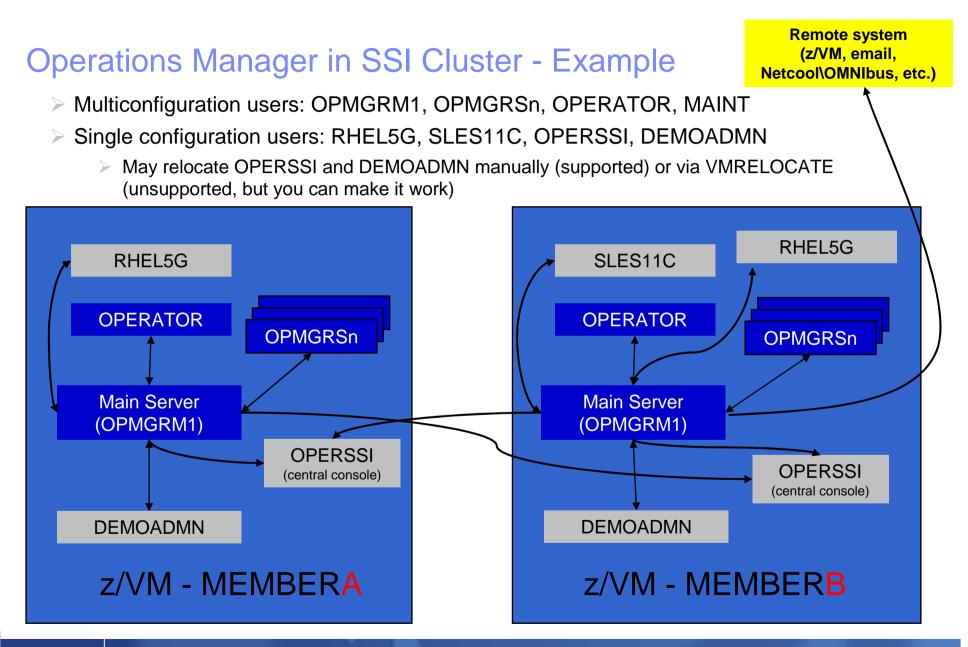




SSI Considerations









Relocating OPERSSI and DEMOADMN (CMS Users) ...

VMRELOCATE for CMS user IDs not officially supported

Can be done for some CMS users

- Create single configuration user ID for z/VM system disks
- Copy MAINT 190, 19D, 19E to minidisks owned by this new user ID
- Relocateable CMS user must IPL from identical NSS (CMS) or minidisk (190)
 - Use SPXTAPE to copy CMS NSS
 - VMRELOCATE uses checksum of NSS to determine if identical
 - CMS NSS includes date/time it was loaded
 - Or, have relocateable CMS users IPL 190 instead of IPL CMS

OPERSSI DIRECT

USER OPERSSI ...

... OPTION CHPIDVIRTUALIZATION ONE ... IPL 190

....

LINK CMAINT 0190 0190 RR LINK CMAINT 019D 019D RR LINK CMAINT 019E 019E RR

PROFILE EXEC for OPERSSI */ ... 'SET RELPAGE OFF' ...



... Relocating OPERSSI and DEMOADMN (CMS Users)

Beware

- It's worth repeating ... VMRELOCATE for CMS user IDs not officially supported
- All members of the cluster must be kept at same z/VM (or at least CMS) code level
- If IPL 190, will use more memory as each user ID will have private copy of CMS
- SET RELPAGE OFF may have a negative impact on overall system performance
- Only works for "basic" CMS users
 - All relocation rules still apply
 - E.g. user IDs connecting to VMCF or IUCV can't relocate



Monitor Service Machines - Considerations

Consoles received by Operations Manager via SECUSER or OBSERVER

- Prefer SECUSER
 - OBSERVER won't detect CP and VM READ messages
 - Output of actions on OBSERVEd console may not be viewable in console
- OBSERVER allows Operations Manager to receive console output even if user is logged on

Single System Image allows SECUSER and OBSERVER across members of cluster

- Content does not contain member name information
- Rules, actions, and users wouldn't be able to distinguish between IDENTITY users on multiple members
- Creates single point of failure on one member

Recommendation for z/VM V6.2 or V6.3 Single System Image environments

- Have all consoles monitored by an Operations Manager server on the same member as the monitored guest (i.e. all Operations Manager servers are IDENTITY users)
 - Requires action processing servers (OPMGRSn) to be on same member as main server
- Share configuration data on minidisk owned by single configuration user
 - For example: VMTOOLS 198
 - Master configuration file unique to each member
 - Imbed common file(s) used by all members
- Request a copy of the current console of a remote user
 - SMSG OPMGRM1 at membername VIEWCON USER(userid), MODE(RDR)



SSI Considerations

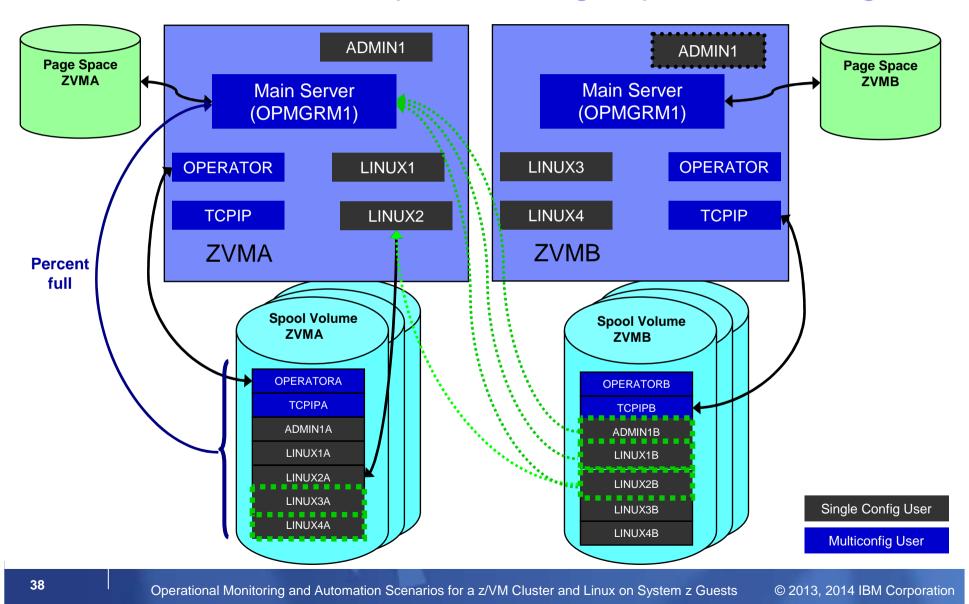
Page Space Monitoring Spool Space Monitoring Viewing and Managing Spool Files

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IBM	Software



SSI Considerations for Spool and Page Space Monitoring





Spool and Page Space Monitoring - Considerations

Page space is local

- Separate space for each member and only visible to the local member
- No impact from SSI

Spool data

- Spool files are placed on spool volumes owned by the member where the spool file was created
- Users see their own spool data no matter where they are logged on and where the data was created



Spool and Page Space Monitoring - Considerations

- Users and applications (like Operations Manager) who can see all spool files need to be aware:
 - Spool data for multiconfiguration users
 - Only spool files owned by the local instance of that user are visible on the local member
 - No visibility to spool files owned by other instances of that user on other members
 - Spool data for single configuration users:

Single configuration user Status	Spool files created on <u>this</u> member	Spool files created on other
User logged off	Visible	Not visible
User logged onto <u>this</u> member	Visible	Visible (but not on local spool volumes)
User logged onto <u>another</u> member	Visible	Not visible



Spool and Page Space Monitoring - Considerations

Recommendation

- Have an Operations Manager server on each member to monitor spool and page space
- Be aware of spool files visible in Operations Manager but not resident on this member's spool volumes
 - Indicated with "+" in VIEWSPL



SSI Considerations

Managing Configuration Files

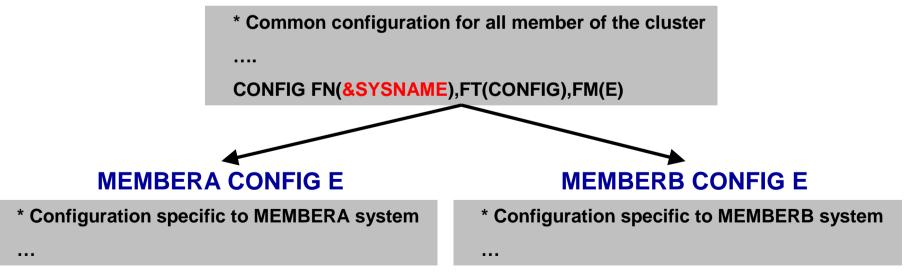
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Managing Configuration Files

- Put all configuration files on a shared disk
 - Minidisk owned by a single configuration user (not an Operations Manager service machine)
 - SFS
- Create a common configuration file used by all members
 - All Operations Manager servers on all members load this file
- Imbed a unique configuration file based on the system name of this member
- Request configuration file reload from user IDs on other members of a cluster
 - Use SMSG OPMGR1 at <member> CONFIG ...

OPMGRM1 CONFIG E





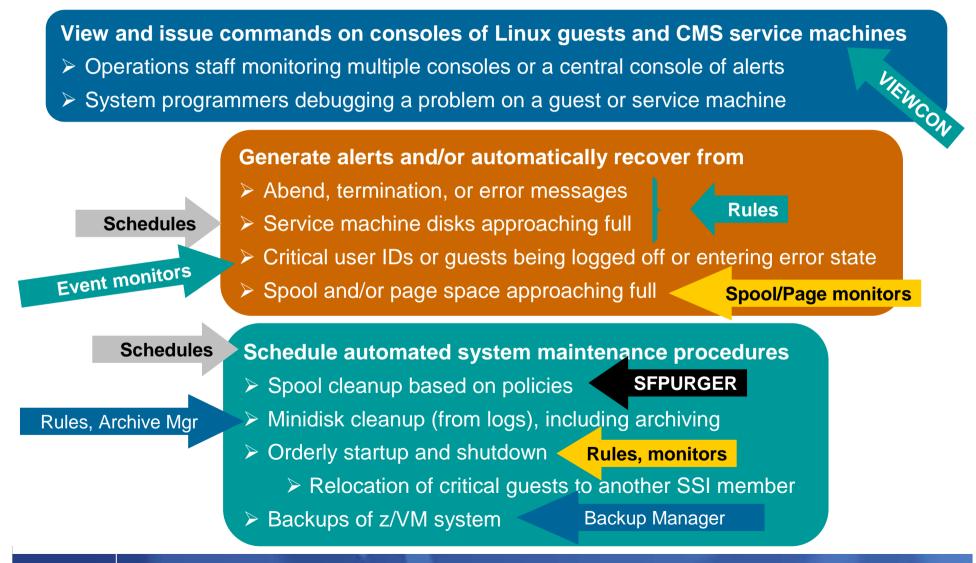
Summary

References Demos – Including Screenshots, Configuration Statements, and REXX

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Recommended Practices – Operational Management





Summary

Use Operations Manager to

- Automate daily operations
- Integrate your z/VM and Linux on System z environment with existing enterprise monitoring and alerting
- Prevent problems rather than react to them
- Automate reactions to problems when they can't be prevented
- Improve problem determination procedures
- Increase programmer and operator productivity
- Continue to monitor locally with improved management of clusters

Sometimes several alternatives for monitoring for the same event

- Console message (rules)
- Scheduled healthchecks (schedules)
- User ID status changes (event monitor)
- Actions allow integration with other platforms and products



Reference Information

- Product Web site
 - Start at http://www.ibm.com/software/products/en/operations-manager-for-zvm
 - Product pages include
 - Publications
 - Pre-requisites
 - Presentations
 - White papers
 - Support
- e-mail
 - Mike Sine, sine@us.ibm.com, Advanced Technical Skills (ATS)
 - Tracy Dean, tld1@us.ibm.com, Product Manager
- White papers on Operations Manager website (Resources tab)
 - Routing Linux syslog data
 - Sending alerts from Operations Manager to Netcool/OMNIbus
 - Using Shared File System to store Operations Manager configuration files and automation EXECs
 - Automatically logging on a user at Linux system boot time for easier console management and action execution



Demonstration Scenarios

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Automation Demos Available

- 1. View consoles of Linux guests, Linux syslog data, and CMS user IDs or service machines
- 2. Send an e-mail based on a console message
- 3. Send an alert to Netcool/OMNIbus based on a console message, hold and unhold messages
 - a. Using POSTZMSG interface to Netcool/OMNIbus
 - b. Using SNMP interface to Netcool/OMNIbus
- 4. Send a message or email if spool approaches full
 - a. Send a message if spool usage is too high on any member of an SSI Cluster see how spool files appear in SSI
 - b. Send an email if spool usage is too high on a single system
- 5. View and clean up spool files
- 6. Automated spool cleanup
- 7. Archiving DIRMAINT's log files when disk gets full
- 8. Process a file of test messages as a console
- 9. Process Linux syslog data as a console
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Scenario 1: View Live Consoles of Linux Guests, Linux Syslog Data, CMS Service Machines

- Configure user IDs / guests to be monitored by Operations Manager
- Route syslog data from a Linux guest to Operations Manager
- From authorized user, view the live console data of
 - OPERATOR
 - Issue VM commands
 - A Linux guest
 - Issue Linux commands
 - Linux syslog data



Scenario 1: Detailed Steps

- From an authorized VM user ID, verify OPERATOR and Linux guest are being monitored by Operations Manager
- q secuser operator
- q observer sles11c

View the console of OPERATOR

gomcmd opmgrm1 viewcon user(operator)

Issue VM commands allowed by OPERATOR

id

```
cp send bkrbkup cms listfile
```

View the console of the backup server

gomcmd opmgrm1 viewcon user(bkrbkup)

• View the console of a Linux guest and issue Linux commands

```
gomcmd opmgrm1 viewcon user(sles11c)
```

echo hello world

View the syslog data from a Linux guest

gomcmd opmgrm1 viewcon user(lxsyslog)



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		Running	TEST7SSI
M <u>A</u> A			31/001
GI Connected to remote server/host 9.60.86.71 using port 23			12

File Edit View Communication Actions Window Help Image: State Stat
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GOMCMD OPMGRM1 VIEWCON USER(operator) Running TEST7SSI
MA A 31/0
Connected to remote server/host 9.60.86.71 using port 23

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00:01:04 DVHD					
			4E IUCV reply		
00:01:23 *	Operations M	anager Actior	n EXEC sch	eduled for ex	ecution *
			ssing started.		
00:02:01 DVHB					
00:02:01 DVHB					
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					ecording *ACCO
00:20:03 AUTO			USERS = 39	BY OPMGRS3	
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File Edit View Communication Actions Window Help	
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10:13:42 OPERATNS - DSC , ATSSERV - DSC , VMSERVR - DSC	
	, OPERSYMP - DSC
10:13:42 DISKACNT - DSC , EREP - DSC , OPERATOR - DSC	
10:13:42 VSM - TCPIP	
10:13:42 Ready; T=0.01/0.01 10:13:42	
10:13:48 * Operations Manager VIEWCON session from DEMO	ADMN entered the foll
10:13:48 q disk	
	S USED-(%) BLKS LEFT
10:13:48 OPR191 191 A R/W 5 3390 4096 4	11-01 889
10:13:48 0P1191 192 D R/0 1 3390 4096 4	11-06 169
10:13:48 MNT190 190 S R/O 207 3390 4096 694	18264-49 18996
10:13:48 MNT19E 19E Y/S R/O 500 3390 4096 1181	30149-33 59851
10:13:48 Ready; T=0.01/0.01 10:13:48	
10:13:53 * Operations Manager VIEWCON session from DEMO	ADMN entered the foll
10:13:53 listfile * * d	
10:13:53 PROFILE EXEC D1	
10:13:53 PROFILE XEDIT D1	
10:13:53 SYN SYNONYM D1	
10:13:53 TEST OP1 D1	
10:13:53 Readu: T=0.01/0.01 10:13:53	
10:14:03 * Operations Manager VIEWCON session from DEMO	ADMN entered the foll
10:14:03 id	
10:14:03 OPERATOR AT TEST7SSI VIA RSCS 06/10/13 10:14:	03 EDT MONDAY
10:14:03 Ready; T=0.01/0.01 10:14:03	
10:14:17 * Operations Manager VIEWCON session from DEMO	ADMN entered the foll
10:14:17 cp send bkrbkup cms listfile	
10:14:17 Ready; T=0.01/0.01 10:14:17	TRACT IN THE COMPANY OF THE COMPANY
PF01= SOROLL PF02- PF00- END PF01- PF05-	HOLD PFOC FORMAT
PF07= UP PF08= DOWN PF09= PF10= LEFT PF11=	RIGHT PF12= RECALL
	OPERATOR (Scroll)
MAAA	31/001
💬 Connected to remote server/host 9.60.86.71 using port 23	1
	////

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Image: Second
File Edit View Communication Actions Window Help
Host: 9.60.86.71 Port: 23 LU Name: Disconnect
10:10:13 LISTFILE
10:10:13 +++
10:10:13 BKRBAK8515I Queued command #1: "*CONS *MYSELF* LISTFILE"
10:10:13 BKRBAK8538E Unrecognized command: LISTFILE received from *CONS *MYSELF
10:14:17
10:14:17 BKRBAK8510I 06/10/13 10:14:17 WAKEUP exited on a console interrupt.
10:14:17 BKRBAK8512I The stack contains 0 entries. There are 1 lines on the con
10:14:17 BKRBAK8514I Console stack entry dump:
10:14:17 +++
10:14:17 CMS LISTFILE
10:14:17 +++
10:14:17 BKRBAK8515I Queued command #1: "*CONS *MYSELF* CMS LISTFILE"
10:14:17 BKRBAK8523I Processing CMS command LISTFILE from *CONS *MYSELF*.
10:14:17 CMS: \$BKR\$ CFGFILES A1
10:14:17 CMS: \$BKR\$ SVMFILES A1
10:14:17 CMS: \$RESTORE SERIAL A1
10:14:17 CMS: CURRENT BKRDAY A1
10:14:17 CMS: DEMIDENT SERIAL A1
10:14:17 CMS: DEMOUSER SERIAL A1
10:14:17 CMS: IDSSI7FL SERIAL A1
10:14:17 CMS: IDSSI7IN SERIAL A1
10:14:17 CMS: INCRUSER SERIAL A1
10:14:17 CMS: LASTING GLOBALV A1
10:14:17 CMS: PROFILE EXEC A2
10:14:17 CMS: TESTOPM SERIAL A1
10:14:17 CMS: USERFULL SERIAL A1
10:14:17 CMS: USERINCR SERIAL A1
10:14:17 Return code: 0
PF01= S <mark>GROLL PF02 PF00 END PF01 PF05 HOLD PF00 FORMAT</mark>
PF07= UP PF08= DOWN PF09= PF10= LEFT PF11= RIGHT PF12= RECALL
BKRBKUP (Scroll)
MA A 31/001
Connected to remote server/host 9.60.86.71 using port 23

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32 x 80 - DEMOADMN SSI7 - [32 x 80]		
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o ria <i>.</i>) 📾 😓 💩 😹 🖉 🧇		
Host: 9.60.86.71	Port: 23	LU Name:	Disconnect
11:40:31 0.0.1e0	0: Device is a Guest LA	N ODIO card (level: '	/622)
	nk type GuestLAN QDIO (사람이 이렇게 사망하지 않는 것이 있는 것이 많이 많이 많이 했다. 이렇게 방법이 가지 않았어요. 이렇게 하는 것이 많이	
	11:40:31 sles11c kernel		e00: The qeth device
	11:40:31 sles11c kernel		
	11:40:31 sles11c kernel		
	953b: 0.0.1e00: Hardwar		
	11:40:31 sles11c kernel		
	0: Inbound source MAC-a		
	11:40:31 sles11c kernel		
	11:40:31 sles11c kernel		
	11:40:31 sles11c kernel		: 00 c2 40 17 1d 41
	'fdb4: 0.0.1e00: VLAN ena		01 02 00 00 00 00
	11:40:31 sles11c kernel 11:40:31 sles11c kernel		
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	0c78: 0.0.1e00: Multica		
	11:40:31 sles11c kernel		ANA RECOVERY PROC
	9d02: 0.0.1e00: IPV6 en		cool in recovery proc
	4d8a: 0.0.1e00: Broadca		
	c2aa: 0.0.1e00: Using S		n0.
	4c89: 0.0.1e00: Outbour		
	d88b: 0.0.1e00: Device :		
11:40:31 Jun 10	11.40.01 sles11c kernel	. with link type Oue	stEnN QDIO (portname
11:41:23 * Op	erations Manager VIEWCO	N session from DEMOA	OMN entered the foll
11:41:23 echo he			
11:41:23 echo he			
11:41:23 hello w			
11:41:23 sles11c			
PF01= SOROLL PF		PF01 PF05	ICLD PFOC FORMAT
PF07= UP PF	08= DOWN PF09=	PF10= LEFT PF11=	RIGHT PF12= RECALL
			SLES11C (Scroll)
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		syslog-ngÝ53012": Log	statistics; dropped=
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Connected to remote server/host 9.60	0.86.71 using port 23		
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Scenario 1: How Do You Do That?

For console data

- Make OPMGRM1 the secondary user of OPERATOR and SLES11D
 - Via CONSOLE statement in CP directory entry (recommended)
 - Via SET SECUSER command

For Linux syslog data

Set up TCP/IP listener for syslog data

```
*
DEFTCPA NAME(LNXSYSLG),+
TCPUSER(TCPIP),+
TCPAPPL(GOMRSYL),+
TCPADDR(000.000.000.000),+
TCPPORT(00514),+
PARM(LXSYSLOG03330417UTF8)
```

- Update TCP/IP configuration to allow Operations Manager to listen for UDP traffic on the specified port(s)
 - Port 514 used here
- Update the Linux guest to send its syslog data to the IP address and port of your z/VM system
- Refer to white paper on Operations Manager web site for details



Scenario 2:

Send an Email if Abend or Fatal Message Occurs

- Watch all monitored consoles for an error message that includes the word "fatal" or "abend"
 - Message must also contain the word "mail" (for demo purposes only)
- Send an email if one of the words appears on a console
- Dynamically include in the email
 - Host name of z/VM system where the error occurred
 - User ID that received the error message
 - Indicator of whether the word was fatal or abend
 - Full text of the error message



Scenario 2: Detailed Steps

From any VM user ID:

tell opmgrc1 this is an abend message from SHARE. Send an e-mail, please.

From an authorized VM user ID, view the console of OPMGRC1:

gomcmd opmgrm1 viewcon user(opmgrc1)

 Check the inbox of the appropriate person to see the e-mail



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File Edit View Communication Actions Window Help		
tell opmgrc1 this is an abend message from SHARE. Send an Ready; T=0.01/0.01 19:36:19	e-mail, pl	ease.
	RUNNING	ZVMV5R20
MA a Sonnected to remote server/host 9.82.24.129 using port 23		42/001
Connected to remote serveryhost 2/02/27/122 Using port 20		

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File Edit View Communication Actions Window Help	
00:00:00 HCPMID6001I TIME IS 00:00:00 EST SUNDAY 02/22/09 00:00:00	
00:00:03 HCPMID6001I TIME IS 00:00:00 EST MONDAY 02/23/09 00:00:03	
10:24:17 * MSG FROM SINE : this is a fatal message	
10:24:27 * MSG FROM SINE : this is a fatal message please send an e-mail 10:24:27 * Operations Manager Action EMAIL scheduled for execution	
10:25:29 * MSG FROM SINE : this is a fatal message please tell omnibus	
10:25:29 # Operations Manager Action ALRTOMNI scheduled for execution 11:48:50 RDR FILE 0007 SENT FROM SINE PUN WAS 0254 RECS 169K CPY 001 A	
12:03:07 RDR FILE 0008 SENT FROM SINE PUN WAS 0256 RECS 169K CPY 001 A	
12:03:20 RDR FILE 0009 SENT FROM SINE PUN WAS 0258 RECS 169K CPY 001 A 00:00:01 HCPMID6001I TIME IS 00:00:00 EST TUESDAY 02/24/09	мон
00:00:01	
00:51:58 * MSG FROM SINE : test abend message for omnibus	
00:51:58 # Operations Manager Action ALRTOMNI scheduled for execution 00:55:15 # MSG FROM SINE : test abend message for omnibus	^
00:55:15 # Operations Manager Action ALRTOMNI scheduled for execution	*
00:55:41 * MSG FROM SINE : test abend message for omnibus 00:55:41 * Operations Manager Action ALRTOMNI scheduled for execution	*
00:56:25 * MSG FROM SINE : test fatal message for omnibus	*
00:56:25 # Operations Manager Action ALRTOMNI scheduled for execution 00:58:05 # MSG FROM SINE : test fatal message for omnibus	*
00:58:05 * Operations Manager Action ALRTOMNI scheduled for execution	ж
01:01:47 * MSG FROM SINE : test fatal message for omnibus	
01:01:47 # Operations Manager Action ALRTOMNI scheduled for execution 01:02:36 # MSG FROM SINE : test fatal message for omnibus	*
01:02:36 \star Operations Manager Action ALRTOMNI scheduled for execution	*
01:03:31 * MSG FROM SINE : test fatal message for omnibus 01:03:31 * Operations Manager Action ALRTOMNI scheduled for execution	*
01:04:00 * MSG FROM SINE : test abend error for omnibus	~
01:04:00 # Operations Manager Action ALRTOMNI scheduled for execution 14:01:16 # MSG FROM SINE : test fatal error for omnibus	ж
14:01:16	*
14:05:33 * MSG FROM SINE : test abend error for omnibus	
14:05:33 * Operations Manager Action ALRTOMNI scheduled for execution 14:13:43 * MSG FROM SINE : test fatal error for omnibus	*
14.13.43 * Operations Manager Action ALKIOMNI Scheduled for execution	•
19:36:18 * MSG FROM SINE : this is an abend message from SHARE. Send an 19:36:18 * Operations Manager Action EMAIL scheduled for execution	
OPMGRC1 (Scroll	.)
M <u>A</u> a 42	7001
Connected to remote server/host 9.82.24.129 using port 23	11.

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Follow Up Unk Mail	High Importance O2/24/2009	01:57 PM 82,925	Re: SMCz	
Trash	* OPMGRM1 02/24/2009	04:36 PM 3,066	Abend on user ID OPMGRC1	on zNM system
and the second second			Re: Clear Tdisk guestion	
🛛 🗁 Folders	Steve Wilkins 02/24/2009 Marcy Cortes 02/24/2009	04:03 PM 21,907	He. Clear_Tuisk question	





Scenario 2: How Do You Do That?

Rules in Operations Manager:

```
*
* Send an e-mail to someone if I see a message containing the word
* "fatal" on any monitored console
DEFRULE NAME(FATLMAIL),+
MATCH(*FATAL*mail*),+
ACTION(EMAIL),+
PARM(FATAL)
*
* Send an e-mail to someone if I see a message containing the word
* "abend" on any monitored console
DEFRULE NAME(ABNDMAIL),+
MATCH(*ABEND*mail*),+
ACTION(EMAIL),+
PARM(ABEND)
```



Scenario 2: How Do You Do That?

Action in Operations Manager:

*

- * Replace "tld1 at us.ibm.com" with the e-mail address of the user that
- * should receive the e-mail
- * Leave &u, &p, and &t as-is. These represent the user ID that had the
- * "fatal" message, the parameter passed (fatal or abend), and the
- * text of the message. These will be included in the text of the
- * e-mail.

DEFACTN NAME(EMAIL),+

COMMAND(EXEC SMTPNOTE tld1 at us.ibm.com &u &p &t),+

OUTPUT(LOG),+

ENV(LVM)



Scenario 2: How Do You Do That?

SMTPNOTE EXEC (excerpts)

```
/* */
Parse arg mail user 'AT' mail node baduser errtype msqtext
if errtype = 'FATAL' then
  errtext = 'Fatal error on user ID' baduser 'on z/VM system'
else
 if errtype = 'ABEND' then
    errtext = 'Abend on user ID' baduser 'on z/VM system'
  else errtext = msqtext
/* Construct the e-mail */
line.1 = 'OPTIONS: NOACK LOG
                                   SHORT NONOTEBOOK ALL CLASS A'
line.2 = 'Date: ' Date() ',' Time()
line.3 = 'From: Operations Manager for z/VM'
line.4 = 'To: ' mail_user 'at' mail_node
line.5 = 'Subject: ' errtext
line.6 = 'The following message was received on' baduser 'running on'
line.7 = msgtext
line.8 = ' '
line.9 = 'DO NOT REPLY - This e-mail was generated by an automated service machine
line.0 = 9
'PIPE stem line. | > TEMP NOTE A'
'EXEC SENDFILE TEMP NOTE A (NOTE SMTP'
```



Scenario 3a: Send an Alert to OMNIbus – Using POSTZMSG

- Watch all monitored consoles for an error message that includes the word "fatal" or "abend"
 - Message must also contain the word "omni" (for demo purposes only)
- Send an alert to OMNIbus if one of the words appears on a console
 - Use POSTZMSG, running on Linux guest
 - Do not trigger the action if the message is on this guest
- Dynamically include in the alert
 - User ID that received the error message
 - Indicator of whether the word was fatal or abend



Scenario 3a: Detailed Steps

- View "All Events" in OMNIbus
- From any VM user ID:

tell opmgrc1 this user is abending at SHARE. Tell OMNIBUS.

From an authorized VM user ID, view the console of OPMGRC1:

gomcmd opmgrm1 viewcon user(opmgrc1)

From an authorized VM user ID, view the console of the Linux guest that runs POSTZMSG:

gomcmd opmgrm1 viewcon user(esmts112)

View the OMNIbus console to see the alert

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C A - ATS Demo		
Eile Edit View Communication Actions Window Help		
Ready; T=0.01/0.01 20:10:47		
tell opmgrc1 this user is abending at SHARE. Tell OMNIBUS. Ready; T=0.01/0.01 20:10:52		
M <u>A</u> a	RUNNING	ZVMV5R20 42/001
Connected to remote server/host 9.82.24.129 using port 23		

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Netcool/OMNIbus	Event List : Filter="All Ev	ents", View="Default"								Ð
File Edit View	File Edit View Alerts Tools Help							9		
Image: Second										
OPMGRC1	SCARY_EVENT	<mark>guest_is_abending</mark>				/24/2009 08:10:		1	rob	A
mwbt61	Administrator	Attempt to login as root from host mwbt61 failed				/06/2009 06:19:	51 P	1	Prob	
hasl112	TEST_EVENT	Test message from has	112			/12/2009 02:15:	45 P	3	Prob	
hasl112	MWBTEST	Test Messaage				/05/2009 05:36:	58 P	2	Prob	
hasle332	Unix Event List	A e@09522621@0952262	21:1.0 process e@09522	621@09522621:1.0 ru	nning on ha	/24/2009 08:06:	55 P	1	Prob	
East	ATS_A_SrvGroup	Server1 experiencing pr	oblems			/20/2009 07:23:	37 P	3	Prob	
	Unix Event List	A e@OmnibusEventConr	nector process running	on has connected as	username	/19/2009 09:13:	16 P	1	Prob	
hasi112	TEST_EVENT	Test message from has	Test message from hasl12			/12/2009 02:19:	52 P	1	Prob	
	RAD:Impact	A RAD:Impact process running on has connected as username root			/12/2009 09:24:	32 A	1	Prob		
hasle332	JJELD	A JJELD process running on hasle332 has connected as username root			ot	/05/2009 10:44:	58 A	1	Prob	
	RAD:Impact	A RAD:Impact process	running on has connect	ed as username root		/05/2009 10:44:	19 A	1	Prob	
hasi125	TESTEIF	test_message_from_eif	_2			/19/2008-03:30:	51 P	2	Prob	
USIBMWZV.HSLV12	TBSMV3_SOURCE390					/25/2008-05:23:	22 P	5	Prob	
USIBMWZV.HSLV12	TBSMV3_SOURCE390					/25/2008 05:23:	21 P	5	Prob	
USIBMWZV.HSLV12	TBSMV3_SOURCE390					/05/2008 09:38:	25 A	1	Prob	
mwbtp	TEST	Test_Message				/10/2008 02:45:	57 P	4	Prob	
				~						
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0	4	8	2	1		2		All Even	18	
No rows selected. 02/24/2009 08:11:30 PM root NCOMS[PRI]										



Scenario 3a: How Do You Do That?

Rules in Operations Manager:

```
*
* Send an alert to OMNIBUS for fatal errors on consoles
DEFRULE NAME (FATLOMNI), +
  MATCH(*fatal*omni*),+
  EXUSER(ESMTS112),+
  ACTION(ALRTOMNI), +
  PARM(FATAL)
*
* Send an alert to OMNIBUS for abends on consoles
DEFRULE NAME (ABNDOMNI), +
  MATCH(*abend*omni*),+
  EXUSER(ESMTS112),+
  ACTION(ALRTOMNI),+
  PARM(ABEND)
```



Scenario 3a: How Did You Do That?

Action in Operations Manager:

*

* Call POSTZMSG on a Linux guest to send alert to OMNIBUS

DEFACTN NAME(ALRTOMNI),+

```
COMMAND(EXEC POSTZMSG &u &p),+
```

OUTPUT(LOG),+

ENV(LVM)



Scenario 3a: How Did You Do That?

POSTZMSG EXEC (excerpts)

```
/* */
Address Command
Parse arg baduser errtype
if errtype = 'ABEND' then
  do
    zerrtype = 'CRITICAL'
    cmdpart2 = '-m quest is abending hostname='baduser
    cmdpart4 = 'sub origin=tcp SCARY EVENT OpsMgr'
  end
else
  do
    zerrtype = 'WARNING'
    cmdpart2 = '-m fatal_error_on_guest hostname='baduser
    cmdpart4 = 'sub_origin=tcp WARN_EVENT OpsMgr'
  end
cmdpart1 = './postzmsg -f e2o.conf -r' zerrtype
cmdpart3 = 'sub source=postzmsq origin='baduser
'CP SEND ESMTS112 cd /workloads'
'CP SEND ESMTS112' cmdpart1 cmdpart2 cmdpart3 cmdpart4
```



Scenario 3b: Send an Alert to OMNIbus – Using SNMP

- Watch all monitored consoles for an error message that includes the word "abend"
 - Message must also contain the word "snmp" (for demo purposes only)
- If this word appears on a console
 - Change the message to red and hold it
 - Send an alert to OMNIbus, using SNMPTRAP command on z/VM
 - Automatically unhold the message after 4 minutes
- Dynamically include in the alert
 - IP address of the z/VM system where the error occurred
 - User ID that received the error message
 - Text of the abend message



Scenario 3b: Detailed Steps

- View "All Events" in OMNIbus
- From any VM user ID:

tell esmts105 this user is abending during demo. Send SNMP alert to Netcool

From an authorized VM user ID, view the console of ESMTS105 (a Linux guest):

gomcmd opmgrm1 viewcon user(esmts105)

- Issue some Linux commands so the held message moves to the top of the screen
- View the OMNIbus console to see the alert
- After 4 minutes, view the console of ESMTS105 again and notice the held message has moved off the screen

gomcmd opmgrm1 viewcon user(esmts105)



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Host: 9.82.24.129	Port: 23	LU Name:		Disconnect	
Ready; T=0.03/0.03	11:43:12				N=+===
tell esmts105 this Ready; T=0.01/0.01	11:52:13	during demo.	Send SNMP	alert to	NETCOOL
		-			
gomemd opmgrm1 view	vcon user(esmts10	5)		RUNNING	ZVMV5R40
				RUNNING	2VMV5R40 42/03
Connected to remote server/host 9.8	32.24.129 using port 23				

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53 A - DEMOADMN ATS File Edit View Communication Actions Window Help d ... RA ka 💀 11:52:13 * MSG FROM DEMOADMN: this user is abending during demo. Send SNMP ale 11:54:29 tcp 0 0 :: ffff: 9.82.56.105:1414 :: ffff; 9, 76, 141, 152:49 11:54:29 tcp 0 0 :: ffff: 9.82.56.105:1414 ::ffff:9.65.203.251:17 11:54:29 tcp A 0 :: ffff: 9.82.56.105:1414 ::ffff:9.65.203.251:17 11:54:30 [root@hasl105 ~]# 11:55:09 🕷 -- Operations Manager VIEWCON session from DEMOADMN entered the foll 11:55:09 netstat -an | grep 50000 11:55:10 netstat -an grep 50000 11:55:10 tcp 0 0 0.0.0.0:50000 0.0.0.0:* 11:55:10 [root@hasl105 ~1# 11:55:19 * -- Operations Manager VIEWCON session from DEMOADMN entered the foll 11:55:19 netstat -an | grep 9080 11:55:19 netstat -an grep 9080 11:55:19 tcp O 0 :::9080 :::* 11:55:19 tcp 0 0 :: ffff: 9.82.56.105: 9080 ::ffff:9.82.56.119:541 11:55:19 [root@hasl105 ~]# 11:55:25 🕷 -- Operations Manager VIEWCON session from DEMOADMN entered the foll 11:55:25 netstat -an | grep 1414 11:55:25 netstat -an | grep 1414 11:55:25 tcp 0 0 :::1414 :::* 11:55:25 tcp O 0 :: ffff: 9.82.56.105:1414 ::ffff:9.80.8.22:2160 0 0 0 0 0 0 11:55:25 tcp 0 :: ffff: 9.82.56.105: 47497 ::ffff:9.82.56.125:141 11:55:25 tcp 0 :: ffff: 9.82.56.105:1414 ::ffff:9.76.141.152:49 11:55:25 tcp 0 :: ffff: 9.82.56.105:1414 ::ffff:9.49.157.148:12 0 :: ffff: 9.82.56.105:1414 11:55:25 tcp ::ffff:9.65.203.251:17 11:55:25 tcp 0 :: ffff: 9.82.56.105:1414 ::ffff:9.65.203.251:17 11:55:25 [root@hasl105 ~]# 11:55:28 🕷 -- Operations Manager VIEWCON session from DEMOADMN entered the foll 11:55:28 netstat -an | grep 50000 11:55:28 netstat -an grep 50000 0 0.0.0.0:50000 11:55:29 tcp 0 0.0.0.0:* 11:55:29 [root@hasl105 ~]# 11:55:35 # -- Operations Manager VIEWCON session from DEMOADMN entered the foll 11:55:35 netstat -an | grep 9080 11:55:35 netstat -an | grep 9080 11:55:35 tcp 0 0 :::9080 :::* 11:55:35 tcp ::ffff:9.82.56.119:541 0 0 :: ffff: 9.82.56.105: 9080 11:55:35 [root@hasl105 ~]# PF01= SCROLL PF02= EXCMD PF03= END PF04= netsta PF05= HOLD PE06 = FORMAT PF07 = UPPF08= DOWN PF10= LEFT PF11= RIGHT PF12= RECALL PF09 =ESMTS105 (Scroll) MA 42/001 A Connected to remote server/host 9.82.24.129 using port 23

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Node 9.82.24.129 OPMCPC1 hasi112 DEMOADMN testuser	Alert Group	Summary ESMTS105; this user is abending during demo. Send SNMP alert to Netcool : .	Last Occurrence	Count	
NEWCECI hasi112 DEMOADMN	Z/VM_SNMP	ESMTS105: this user is abanding during damp. Sand SNMP elect to Natcool		Count	Type
DEMOADMN	COADY EVENT	compared, the data reasoning damaged and denot denot the denoted of a	4/4/2013 12:52:1	118	Problem
DEMOADMN		report to shanding	2/97/9013 10:98	E1	Problem
	PROBLEM_EVENT	Problem has occurred alarm raised	2/2/2012 2:54:02	2	Problem
testuser	SCARY_EVENT	guest_is_abending	1/26/2012 8:16:5	1	Problem
	SCARY_EVENT	guest_is_abending	1/26/2012 8:15:1		Problem
hasi104	PROBLEM_EVENT	Problem has occurred	1/23/2012 10:01		Problem
hasle313:LZ	ITM_ControlSignal	Managed system <hasle313:lz> has switched to new thrunode <remote_ha.< td=""><td>10/14/2011 1.28:</td><td>2</td><td>ITM Problem</td></remote_ha.<></hasle313:lz>	10/14/2011 1.28:	2	ITM Problem
hasle313:LZ	ITM_CentrolSignal	Managed system <hasle313.lz> has switched to new thrunode <remote_ha.< td=""><td>. 10/14/2011 1.28:</td><td>2</td><td>ITM Problem</td></remote_ha.<></hasle313.lz>	. 10/14/2011 1.28:	2	ITM Problem
hasle313:KUL	ITM_ControlSignal	Managed system <hasle313:kul> has switched to new thrunode <remote< td=""><td>10/14/2011 11:1</td><td></td><td>ITM Problem</td></remote<></hasle313:kul>	10/14/2011 11:1		ITM Problem
Primary HASLE	TM_ControlSignal	Managed system <primary:hasle314:nt> has switched to new thrunode <r< td=""><td>9/14/2011 10:44:</td><td></td><td>ITM Problem</td></r<></primary:hasle314:nt>	9/14/2011 10:44:		ITM Problem
T42B ČMS	ITM_ManagedSyste	MS_Offline[(Status="N" AND Reason (>"FA") ON T42B:CMS (Status=*OFFL	7/26/2010 12:22:	1	ITM Problem
CICSTG00:MVS	ITM_ManagedSyste	MS_Offline[(Status="N" AND Reason ↔ "FA") ON CICSTG00 MVST:GWIRA (7/26/2010 12:22:	1	ITM Problem
Primary HASLE	ITM_NT_Process	NT_Process_CPU_Critical[(%_Processor_Time>=65 AND Priority_Bese<>0	7/26/2010 12:20:	5	ITM Problem
hasle316	NT Event List@0952	Attempt to login as root from host hasle316 failed	3/26/2013 9:18:4	2	Problem
hasle316	Administrator	Attempt to login as adminstrator from host hasle316 failed	3/10/2013 3:25:3	1	Problem
hasle316	NT Event List@0952	Attempt to login as from host hasle316 failed	1/23/2013 10:38:	3	Problem
mwbt61	Administrator	Attempt to login as root from host mwbt61 failed	10/4/2011 10:11:	2	Problem
hasle316	NT Event List@0952	Attempt to login as admin from host hasle316 failed	9/8/2011 12:09:3	1	Problem
9.82.24.129	Generic	Cold Start	6/29/2010 4:06:0	3	Type Not Set
9.82.24.129	Generic	Authentication	4/15/2012 2:05:4		Type Not Set
199.8.7.6	Generic	Egp Neighbour Loss	6/25/2010 9:57:2	1	Type Not Set
hasle316	Windows Event List	A NT Event List@09522611 process running on hasle316 has connected as u	3/26/2013 9:18:5	2	Problem
mwbt61	Windows Event List	A NT Event List@0941DC5C process running on mwbt61 has connected as u	3/13/2013 4:50:5	1	Problem
mwbt61	Windows Event List	A NT Event List@0941DC5C process running on mwbt61 has connected as u	3/13/2013 4:50:5	1	Problem
ESMTS105	WARN_EVENT	fatal_error_on_guest	3/8/2013 4:00:15	1	Problem
9.82.24.129	Generic	Link Up	3/14/2012 11:13:	1	Type Not Set
Primary:HASLE	ITM_NT_Event_Log	NT_Service_Error[(Source="Service Control Type="Error") ON Primary:HAS	11/11/2011 12:4	28	ITM Problem
Primary:HASLE	ITM_NT_Monitored	NT_Log_Space_Low[(%_Usage>=95) ON Primary:HASLE314:NT ON Syste	10/26/2011 12:4	2	ITM Problem
Primary:HASLE	ITM_NT_Monitored	NT_Log_Space_Low[(%_Usage>=95) ON Primary:HASLE340:NT ON Applic	10/26/2011 12:4	2	ITM Problem
Primary:HASLE	ITM_NT_Monitored	NT_Log_Space_Low[(%_Usage>=95) ON Primary:HASLE340:NT ON Syste	10/26/2011 12:4	2	ITM Problem
hasle313:KUL	ITM_Monitored_Logs	UNIX_LAA_Log_Size_Warning[(Log_Size>10485760) ON hasle313:KUL (Log	10/26/2011 12:4	1	ITM Problem
hasle313:LZ	ITM_Linux_CPU	Linux_High_CPU_Overload[(Idle_CPU<1000 AND CPU_ID=Aggregate) ON h	10/26/2011 12:4	1	ITM Problem
hasle31317	TTM Linux Process	Linux Process High Coull/Busy CPU Pct>6000.) ON hasle31317.ON iava (10/26/2011 12:4	1	ITM Problem
•					<u> </u>
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X A - DEMOADMN ATS File Edit View Communication Actions Window Help 00 00 60 00 🔛 🔳 Host: 9.82.24.129 Port: 23 LU Name: Disconnect 11:54:30 [root@hasl105 ~]# 11:55:09 ***** -- Operations Manager VIEWCON session from DEMOADMN entered the foll 11:55:09 netstat -an | grep 50000 11:55:10 netstat -an | grep 50000 11:55:10 tcp 0 0.0.0.0:50000 0.0.0.0:* 0 11:55:10 [root@hasl105 ~]# 11:55:19 * -- Operations Manager VIEWCON session from DEMOADMN entered the foll 11:55:19 netstat -an | grep 9080 11:55:19 netstat -an grep 9080 11:55:19 tcp 0 :::9080 O :::* 11:55:19 tcp 0 0 :: ffff: 9.82.56.105: 9080 ::ffff:9.82.56.119:541 11:55:19 [root@hasl105 ~]# 11:55:25 🕷 -- Operations Manager VIEWCON session from DEMOADMN entered the foll 11:55:25 netstat -an grep 1414 11:55:25 netstat -an | grep 1414 11:55:25 tcp 0 0 :::1414 :::* 11:55:25 tcp 0 :: ffff: 9.82.56.105:1414 0 ::ffff:9.80.8.22:2160 11:55:25 tcp 0 0 :: ffff: 9.82.56.105: 47497 ::ffff:9.82.56.125:141 Ø ::ffff:9.76.141.152:49 11:55:25 tcp 0 :: ffff: 9.82.56.105:1414 0 11:55:25 tcp 0 :: ffff: 9.82.56.105:1414 ::ffff:9.49.157.148:12 0 11:55:25 tcp 0 :: ffff: 9.82.56.105:1414 ::ffff:9.65.203.251:17 11:55:25 tcp 0 0 :: ffff: 9.82.56.105:1414 ::ffff:9.65.203.251:17 11:55:25 [root@hasl105 ~]# 11:55:28 * -- Operations Manager VIEWCON session from DEMOADMN entered the foll 11:55:28 netstat -an | grep 50000 11:55:28 netstat -an | grep 50000 11:55:29 tcp 0 0 0.0.0.0:50000 0.0.0.0:* 11:55:29 [root@hasl105 ~]# 11:55:35 * -- Operations Manager VIEWCON session from DEMOADMN entered the foll 11:55:35 netstat -an | grep 9080 11:55:35 netstat -an grep 9080 11:55:35 tcp 0 0 :::9080 :::* 11:55:35 tep Θ 0 :: ffff: 9.82.56.105: 9080 ::ffff:9.82.56.119:541 11:55:35 [root@hasl105 ~]# 2.04.38 * -- Operations Manager VIEWCON session from DEMOADMN entered the foll 12:04:38 echo 12:04:39 echo 12:04:39 l105 ~]# PF01= SCROLL PF02= EXCMD PF03 = ENDPF04= netsta PF05= HOLD PF06= FORMAT PF07= UP PF08= DOWN PF12= RECALL PF09= PF10 = LEFTPF11= RIGHT ESMTS105 (Scroll) <u>. . . .</u> . 1 MA Ĥ Connected to remote server/host 9.82.24.129 using port 23



Scenario 3b: How Do You Do That?

Rule and actions in Operations Manager:

```
*
* Send an alert to OMNIbus using SNMP for abend msgs on consoles
DEFRULE NAME(ABNDSNMP),+
  MATCH(*abend*snmp*),+
 ACTION(SNMPALRT)
*
DEFACTN NAME (SNMPALRT), +
  COMMAND(EXEC SNMP2OMN &T),+
  INPUT(CRE,HLD),+
  ENV(SVM),+
  NEXTACTN(UNHOLD),+
 NEXTDELY(03:30)
*
DEFACTN NAME(UNHOLD),+
  COMMAND('ALTRCON USER(ESMTS105), MATCH(*abend*snmp*), ELAPSED(180), HLD(N)'), +
```

ENV(GOM)



Scenario 3b: How Did You Do That?

SNMP2OMN EXEC

/* SNMP2OMN action routine for Operations Mgr */
address command
parse arg ":" msgtext
msgtext2 = '"'msgtext '"'
/* Send message */
snmptrap trape 1.1 number 30 1.2 text "UXZVM001" 1.3 text msgtext2 ent 1.3.6.1.4.1.9545.6
exit



Scenario 3b: Additional Steps Required on z/VM

- SNMPD user ID configured and running
- Update files on TCPMAINT 198 disk
 - Add OMNIbus IP address to SNMPTRAP DEST file
 - Open SNMPD and SNMPQE ports in PROFILE TCPIP
 - Update SNMPMIBX TEXT section of MIB_EXIT DATA
- Give OPMGRM1 and OPMGRSn access to SNMPTRAP command
 - On TCPMAINT 592 disk



Scenario 3b: Additional Steps Required on OMNIbus

- Install the IBM Tivoli Netcool/OMNIbus SNMP Probe
 - Install it on same platform as target OMNIbus server
- Customize operational information in the probe properties (mttrapd.props)
 - Listening port, heartbeat interval, mibs and mibs locations, etc.
- Customize the probe rules (mttrapd.rules)
 - Map variables created by the probe (from data extracted from the SNMP trap) into the desired OMNIbus event fields
 - Default mappings for the SNMP generic traps (trap types 0-5)
 - Enterprise-specific traps (trap type 6) require customization
- Documentation for installation and customization
 - IBM Tivoli Netcool/OMNIbus SNMP Probe Reference Guide (SC23-6003-04)



Scenarios 3a and 3b – POSTZMSG vs SNMP

Using POSTZMSG

- Can direct the alert to only the IP address(es) you specify
- Need a Linux guest running and logged on that can run POSTZMSG and must be on the same z/VM system
 - Can be overcome by using a socket interface to send POSTZMSG command to the guest
- Limit of 160 characters on POSTZMSG command sent to Linux guest (using CP SEND)
 - Can't always send full text of message
 - Can be overcome by using a socket interface to send POSTZMSG command to the guest
- Using SNMP
 - No requirement for a Linux guest. SNMP runs on z/VM.
 - No limit on message size
 - All SNMP alerts on z/VM go the same set of IP addresses



Scenario 4a:

Send a Message if Spool Usage is Too High on Any Member in an SSI Cluster

- Operations Manager monitors the spool usage (percent full) on each member of a cluster
 - For demo purposes, spool monitor is currently suspended
 - We'll dynamically resume (re-activate) the spool monitor
 - Must reactivate on each member of a cluster
 - Demo monitor requires spool to only be 5% full
- Usage exceeds the specified limit
- Automatically send a message to a central console for the entire cluster
 - Send a maximum of 3 messages per hour
- Message includes the member name and % full
- For demo purposes, suspend (de-activate) the spool monitors when complete
- Demonstrate which spool files are visible on each member



Scenario 4a: Detailed Steps

From an authorized VM user ID, see the spool usage on local member TEST7SSI:

gomcmd opmgrm1 viewspl

From a user ID with Operations Manager privileges:

gomcmd opmgrm1 resume spool(splfull)
smsg opmgrm1 at testcssi resume spool(splfull)

Check the Operations Manager log to see the spool monitor triggered on local member:

gomcmd opmgrm1 viewlog

View the central console for the cluster to see warning messages from each member:

gomcmd opmgrm1 viewcon user(operssi)

From a user ID with Operations Manager privileges:

```
gomcmd opmgrm1 suspend spool(splfull)
smsg opmgrm1 at testcssi suspend spool(splfull)
```



Scenario 4a: Detailed Steps

From member TEST7SSI, send a spool file to a single configuration and a multiconfiguration user:

sendfile test7 file a demoadmn op1

From member TEST7SSI, send a spool file to a multiconfiguration user on another member:

sendfile testc file a op1 at testcssi

From a user ID with Operations Manager privileges on TEST7SSI, view spool files on TEST7SSI:

gomcmd opmgrm1 viewspl

From a user ID with Operations Manager privileges on TESTCSSI, view spool files on TESTCSSI:

gomcmd opmgrm1 viewspl



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File Edit View Communication Actions Wi	ndow Help			
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Host: 9.60.86.71	Port: 23	LU Name:	Disconnect	
GOMCMD OPMGRM1 VIEWSPL			Dunning	TESTZEST
MA A			Running	TEST7SSI 31/023
Connected to remote server/host 9.60.86.71 usir	ig port 23			

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		1 1 1				@						
	Host: 9.60.86.7			Port: 23	1.11		10	Name:		 Disconnect	1	
	stem: TESI			ool:		6 Used		Files:	0% Used		 1 of	115
Jy	stem. TEST	11001		1ax:		2.3G			1655640	1. A.	1 01	115
			1.0									
Cmd	Owner	File	CLS	QUE	TYP	Size	Hold	Date	Time	Name	Туре	
	DIRMSAT3	0125	0	RDR	PUN	4K	NONE	03/09	16:14:10		1767	
	MAINT620	1325	A	RDR	PUN	8K	NONE	03/09	11:29:59	SLES11C	DIRECT	
	0P1	0002	A	RDR	PUN	4 K	NONE	03/12	17:26:59	TEST7	FILE	
	DIRMSAT3	0121	Θ		PUN				19:07:03			
	DIRMSAT3	0101	0	RDR	PUN	4 K	NONE	03/05	16:05:38			
	DIRMSAT3	0097	Ο	RDR	PUN	4 K	NONE	03/05	15:02:57			
	DIRMSAT3	0093	Ο	RDR	PUN	4 K	NONE	03/05	14:11:56			
	DIRMSAT3	0089	Θ	RDR	PUN	4K	NONE	03/02	15:13:20			
	DIRMSAT3	0085	0	RDR	PUN	4K	NONE	03/02	13:32:05			
	DEMOADMN	0177	A	RDR	PRT	68K	NONE	10/12	18:40:40	VIEWCON	RHEL6D	
	MAINT	0023	A	RDR	PUN	8K	NONE	10/12	15:28:11	RHEL6D	DIRECT	
	DIRMSAT3	0117	0	RDR	PUN	4K	NONE	03/06	19:20:38			
	DIRMSAT3	0137	0	RDR	PUN	4K	NONE	03/16	11:11:09			
	DIRMSAT3	0133	0	RDR	PUN	4K	NONE	03/16	10:58:50			
	DIRMSAT3	0113	0	RDR	PUN	4K	NONE	03/06	18:50:38			
	DIRMSAT3	0109	0	RDR	PUN	4K	NONE	03/05	20:50:27			
	DIRMSAT3	0105	0	RDR	PUN	4K	NONE	03/05	18:30:03			
	DIRMSAT3	0081	0	RDR	PUN	4K	NONE	03/01	14:46:16			
	DEMOADMN	0149	R	RDR	PUN	4K	NONE	10/05	13:06:41	TEST	0P1	
	DIRMSAT3	0129	0	RDR	PUN	4K	NONE	03/12	14:50:07			
	DEMOADMN	0129	A	RDR	PUN	16K	NONE	10/05	13:00:43	IDSSI7I1	JOB	
	DEMOADMN	0125	A	RDR	PUN	16K	NONE	10/05	13:00:43	IDSSI7I0	JOB	
	DIRMSAT3	0073	0		PUN				21:27:06			
	DIRMSAT3	0069	0	RDR	PUN	4K	NONE	02/29	11:00:00			
	DIRMSAT3	0065	0	RDR	PUN	4 K			10:39:32			
	DEMOADMN	0217	R	RDR	PUN	4K	NONE	10/16	15:31:26		0P1	
	1= HELP	PF02= 1	VIEW	PF	-03=	END	PF04		PF05=	SORTA PI	F06= S0	RTD
PF0	7= UP	PF08= [DOWN	PF	=09=	111.	PF10	0= LEFT	F PF11=	RIGHT P	F12=	
MA	A											05/001
ා ⁿ Co	nnected to remote ser	rver/host 9.60.86	i.71 using	port 23								2
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File Edit View Communication Actions Window Help			
Host: 9.60.86.71 Port: 23 L	U Name:	Disconnect	
Ready; 1-0.0170.01 21:45:04			
gomcmd opmgrm1 resume spool(splfull) Desdu: T-0.01/0.01 21:15:07			
smsg opmgrm1 at testcssi resume spool(splfu	ull)		
Readu: T=0.01/0.01 21:45:15			
gomcmd opmgrm1 viewlog		Running	TEST7SSI
MARA		Running	31/001
			01700

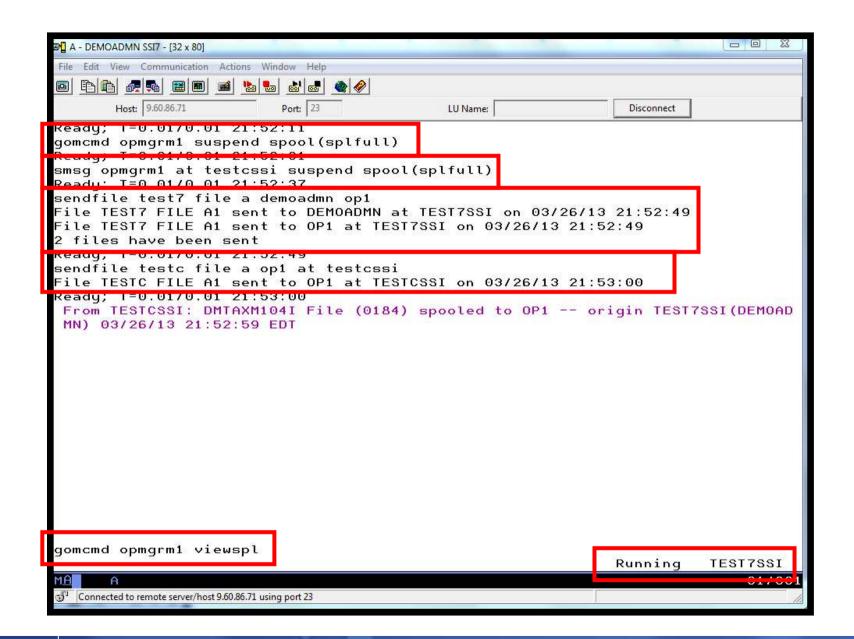
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과] A - DEMOADMN SSI7 - [32 x 80]		
File Edit View Communication Actio	ons Window Help	
	🐌 🖶 💩 🕳 🔌	Ø
Host: 9.60.86.71	Port: 23	LU Name: Disconnect
03/26/2013 21:45:00 03/26/2013 21:45:00 03/26/2013 21:45:00	GOMCMD0216L	PERFSVM "FCXAPC535I Connected to resource FCX IPGATE "IPGATEY0000059147 Request fromPERFSV IPGATE "IPGATEY0000059146Thread terminating
03/26/2013 21:45:00 03/26/2013 21:45:00	GOMCMD0216L GOMCMD0216L	IPGATE "IPGATEY0000059146 ended." VID=*MSG IPGATE "IPGATEY0000059147Thread terminating
03/26/2013 21:45:00 03/26/2013 21:45:00 03/26/2013 21:45:00	GOMCMD0216L GOMCMD0216L	PERFSVM "FCXAPC529I Path 000D to FCXRES0D sev PERFSVM "FCXAPC536I Path 000D to resource FCX IPCATE "IPCATEX0000059147 orded " VID=*MSC
03/26/2013 21:45:07 03/26/2013 21:45:21 03/26/2013 21:45:21 03/26/2013 21:45:21	GOMACT02601 GOMACT02621	DEMOADMN "RESUME SPOOL(SPLFULL)" VID=DEMOADMN SCHEDULE ISLINKI ACTION QISLINK TRIGGERED DT ACTION QISLINK BEGIN FOR _GOMSCHD SERVER OPMG COMMOND "EXEC OISLINK TESTZSSI TESTCSSI"
03/26/2013 21:45:21 03/26/2013 21:45:21 03/26/2013 21:45:21 03/26/2013 21:45:21	GOMSM004031 GOMSM004011	SPOOL ALERT: MONITOR SPLFULL USAGE CONDITI SPOOL USE: MONITOR SPLFULL SPACE 8 PERCENT, F SPOOL CHG: MONITOR SPLFULL SPACE 0 PERCENT, F
03/26/2013 21:45:21 03/26/2013 21:45:21 03/26/2013 21:45:21 03/26/2013 21:45:21	GOMACT0262I GOMACT0269L	SPOOL SPLFULL ACTION SPLPAGE TRIGGERED BY _G ACTION SPLPAGE BEGIN FOR _GOMSMON SERVER OPMG COMMAND "EXEC MSG20PER JUNK JUNK SPOOL & USAGE
03/26/2013 21:45:21 03/26/2013 21:45:21 03/26/2013 21:45:21 03/26/2013 21:45:21	GOMACT0270L GOMACT0270L	5 *-* Parse arg userid euser event source >>> "JUNK" >>> "JUNK"
03/26/2013 21:45:21 03/26/2013 21:45:21 03/26/2013 21:45:21	GOMACT0270L	>>> "SPOOL" >>> "8" >>> "USAGE"
03/26/2013 21:45:21 03/26/2013 21:45:21 03/26/2013 21:45:21	GOMACT0270L	7 *-* 'GOMGLBL INTO sysname NAME tcphostn >>> "GOMGLBL INTO sysname NAME tcphos 9 *-* if userid = '_GOMEMON'
PF01= SCROLL PF02= PF07= UP PF08=	PF03= DOWN PF09=	PF10= LEFT PF11= RIGHT PF12= RECALL
M <u>A</u> A		GOMALOG 31/001
Connected to remote server/host 9.60.8	6./1 using port 23	

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과입 A - DEMOADMN SSI7 - [32 x 80]			
File Edit View Communication Actions Window Help	p		
Host: 9.60.86.71 Port: 23		LU Name:	Disconnect
이야 같은 것 같은	00:00:00	EDT SATURDAY 03/16/13	
00:00:00 00:00:00 HCPMID60011 TIME IS	00:00:00	EDT SUNDAY 03/17/13	
00:00:00			
00:00:00 HCPMID6001I TIME IS 00:00:00	00:00:00	EDT MONDAY 03/18/13	
NEXTRA STRATEGY CONTRACTOR STRATEGY AND A STRATEGY	00:00:00	EDT TUESDAY 03/19/13	
00:00:00 00:00:00 HCPMID60011 TIME IS		EDT WEDNESDAY 03/20/1	2
00:00:00 HCPHID80011 TIME 13	00.00.00	LUT WEDNESDHT 0372071	0
2 Territ (1997) 2 Territ	00:00:00	EDT THURSDAY 03/21/13	
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00:00:00 HCPMID60011 TIME IS 00:00:00	00:00:00	EDT SATURDAY 03/23/13	
00:00:00 HCPMID6001I TIME IS	00:00:00	EDT SUNDAY 03/24/13	
00:00:00 00:00:00 HCPMID60011 TIME IS		EDT MONDAY 03/25/13	
00:00:00			
	00:00:00	EDT TUESDAY 03/26/13	
21:45:21 Spool is 8% full on	TEST7SSI		
21:46:09 Spool is 7% full on			
21:46:21 Spool 15 8% full on 21:47:09 Spool is 7% full on			
21:47:21 Spool is 8% full on			
21:48:09 Spool is 7% full on PF01= SCROLL PF02= PF	TESTCSSI 03= END	PF04= PF05= H	OLD PF06= FORMAT
PF07= UP PF08= DOWN PF	09=	PF10= LEFT PF11= R	IGHT PF12= RECALL
			OPERSSI (Scroll)
M <u>A</u> A			31/001
Gamma Connected to remote server/host 9.60.86.71 using port 23			1.





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Max: 2.36 Max: 1655640 Cmd Owner File CLS QUE TYP Size Hold Date Time Name Type DEMOADINN 0265 A RDR PUN 4K NONE 03/26 21:52:49 TEST7 FILE DEMOADINN 0265 A RDR PUN 4K NONE 03/26 21:52:49 TEST7 FILE DEMOADINN 0265 T RRF 0001 4K NONE 03/26 00:50:13 DISKACNT *0129 T PRT CON 4K NONE 03/26 00:10:03 DATAMOVE *0525 T PRT CON 132K NONE 03/25 00:20:03 \$SMF\$ ARCHIVE LOGS *9397 T PRT CON 4K NONE 03/13 12:58:55 S1705546 SERVLINK FTPSERVE *0058 T PRT CON 4K NONE 03/12 00:01:27				1 20			8						
Max: 2.36 Max: 1655640 Cmd Owner File CLS QUE TYP Size Hold Date Time Name Type DP1 0003 A RDR PUN 4K NONE 03/26 21:52:49 TEST7 FILE DEMOADDMN 0265 A RDR PUN 4K NONE 03/26 21:52:49 TEST7 FILE MAX: 2003 T RRF 001 1K NOME 03/26 00:50:13 DISKACNT *0129 T PRT CON 4K NONE 03/26 00:10:03 DATAMOVE *0525 T PRT CON 136K NONE 03/25 00:20:03 \$SMF\$ ARCHIVE LOGS *9397 T PRT CON 4K NONE 03/13 12:58:55 \$1705546 SERVLINK FTPSERVE *0058 T PRT CON 4K NONE 03/12 00:01:27 MAINT620 2733 A RDR PUN 136K NONE 03/12 00:01:27 MONGRID *0237 T <th></th> <th>Host: 9.60.86.7</th> <th>71</th> <th></th> <th>Port: 23</th> <th></th> <th></th> <th>LU</th> <th>Name:</th> <th></th> <th>Disconnect</th> <th>7</th> <th></th>		Host: 9.60.86.7	71		Port: 23			LU	Name:		Disconnect	7	
Cmd Owner File CLS QUE TYP Size Hold Date Time Name Type DP1 0003 A RDR PUN 4K NONE 03/26 21:52:49 TEST7 FILE DEMOADMN 0265 A RDR PUN 4K NONE 03/26 21:52:49 TEST7 FILE MAINT 0006 T RND 00N 4K NONE 03/26 00:50:13 DISKACNT *0129 T PRT CON 4K NONE 03/26 00:01:03 DATAMOVE *06525 T PRT CON 136K NONE 03/25 00:20:03 \$SMF\$ ARCHIVE LOGS *9397 T PRT CON 96K NONE 03/13 12:58:55 \$1705546 SERVLINK FTPSERVE *0061 T PRT CON 4K NONE 03/12 09:01:27 MAINT620 2733 A	Sy	stem: TEST	T7SSI	Spo	pol:	82	6 Used	ł	iles:	0% Use	d	1 of	117
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MAINT 0000 T NDR 00N 1K NONE 03/26 07.11.08 OPMGRS3 *0275 T PRT CON 4K NONE 03/26 00:50:13 DISKACNT *0129 T PRT CON 136K NONE 03/26 00:15:00 DATAMOVE *0525 T PRT CON 136K NONE 03/26 00:01:03 RACFSMF 0080 A RDR PUN 4K NONE 03/25 00:20:03 \$SMF\$ ARCHIVE LOGS *9397 T PRT CON 96K NONE 03/15 13:40:29 MAINT620 2733 A RDR PUN 4K NONE 03/13 00:00:00 OPMGRS2 *0061 T PRT CON 4K NONE 03/12 09:01:27 MONGRID *0237 T PRT CON 2K NONE 03/12 00:01:27 PERF	1246004284	0P1					4K	NONE	03/26	21:52:49			
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BKRCATLG *0171 T PRT CON 324K NONE 03/12 00:01:27 BKRBKUP *0064 T PRT CON 344K NONE 03/12 00:01:27 DTCVSW2 *0058 T PRT CON 4K NONE 03/12 00:01:27 IPGATE *0229 T PRT CON 912K NONE 03/12 00:01:27 TOOLS *0545 T PRT CON 36K NONE 03/12 00:01:27 PF01= HELP PF02= VIEW PF03= END PF04= PF05= SORTA PF06= SORTA		SMTP	*0070	Т	35 ST233	8 TE 1 TE 10 C			이렇게 주말하는 것이 못했다.	[프레 프레이 카이크 아파 프레이			
BKRBKUP *0064 T PRT CON 344K NONE 03/12 00:01:27 DTCVSW2 *0058 T PRT CON 4K NONE 03/12 00:01:27 IPGATE *0229 T PRT CON 912K NONE 03/12 00:01:27 TOOLS *0545 T PRT CON 36K NONE 03/12 00:01:27 PF01= HELP PF02= VIEW PF03= END PF04= PF05= SORTA PF06= SORTA		OPMGRS1	*0175	т									
DTCVSW2 *0058 T PRT CON 4K NONE 03/12 00:01:27 IPGATE *0229 T PRT CON 912K NONE 03/12 00:01:27 TOOLS *0545 T PRT CON 36K NONE 03/12 00:01:27 PF01= HELP PF02= VIEW PF03= END PF04= PF05= SORTA PF06= SORTI													
IPGATE *0229 T PRT CON 912K NONE 03/12 00:01:27 TOOLS *0545 T PRT CON 36K NONE 03/12 00:01:27 PF01= HELP PF02= VIEW PF03= END PF04= PF05= SORTA PF06= SORTI		BKRBKUP	*0064	-									
TOOLS *0545 T PRT CON 36K NONE 03/12 00:01:27 PF01= HELP PF02= VIEW PF03= END PF04= PF05= SORTA PF06= SORTA		그는 것 같은 것 같은 것은 것 같은 것 같은 것	*0058	S			4 K	NONE	03/12	00:01:27			
PF01= HELP PF02= VIEW PF03= END PF04= PF05= SORTA PF06= SORTI		1277-1671 (1979) 1773 (1977) 1877 (1977)	1.0.01 67 1.77 1.77 1.77	5 - 33 2	11	1200000025	1776 (TO) (TO) (SA		1651716332537700	16 16 16 16 17 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18			
		No.				CONTRACTOR OF				00:01:27			
							END						RTD
PF07= UP PF08= DOWN PF09= PF10= LEFT PF11= RIGHT PF12=	PF0	7= UP	PF08=	DOWN	PF	=09=		PF1(D= LEFT	F PF11=	RIGHT P	F12=	



3월 C - DEMOADM2 SSIC - [24 x 80]	_	
File Edit View Communication Actions Window Help		
Host: 9.60.86.170 Port: 23 LU Name:	Disconnect	
GOMCMD OPMGRM1 VIEWSPL		
	Running	TESTCSSI
MA		23/023
GP Connected to remote server/host 9.60.86.170 using port 23		1

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File Ed	lit View Commun	ication Action	ns Wind	low He	p							
	1 🗗 🖉 🔂 🖪		1		0	<i></i>						
	Host: 9.60.86.3	170	_	Port: 23			LU	Name:		Disconn	ect 📕	
Sy	stem: TEST	TCSSI	Spo	001:	72	6 Used	<u>.</u>	Files:	0% Used	d	1 of	36
			N	lax:	2	2.3G		Max:	1655640			
Cmd	Owner	File		52			Hold		Time	Name	Type	
	OP1	0003	A	RDR	PUN	4K	NONE	03/26	21:53:01	TESTC	FILE	
	OPMGR34	*0200			CON			03/20				
	DISKACNT	*0130	Т		CON		NONE		00:15:00			
	DIRMSAT2	*0602	Т		CON				00:01:02			
	DATAMOV2	*0534	Т		CON				00:01:02		~~~~	_
	RACFSMF	0029	A		PUN		NONE		00:20:25	\$SMF\$	ARCHIV	E
	OPERATOR	*0062	Т		CON		NONE	03/15	13:42:29			
	OPMGRS3	*0013	Т		CON				00:00:00			
	FTPSERVE	*0013	Т		CON		NONE		00:00:00			
	RSCS	*0013	Т		CON				00:00:00			
	VMSERVR	*0061	Т		CON	4K			00:01:21			
	PERFSVM	*0118	Т	PRT	CON	28K		03/12	00:01:21			
	BKRCATLG	*0061	Т		CON	324K	NONE	03/12	00:01:21			
	TCPIP	*0061	Т	PRT	CON	8K	NONE	03/12	00:01:21			
	PVM	*0061	Т	PRT	CON	8K	NONE	03/12	00:01:21			
	BKRBKUP	*0061	Т	PRT	CON	336K	NONE	03/12	00:01:21			
	SMTP	*0079	Т	PRT	CON	4K	NONE	03/12	00:01:21			
	DTCVSW2	*0061	T	PRT	CON	4K	NONE	03/12	00:01:21			
PFO	1= HELP	PF02=	VIEW	PF	-03=	END	PF04	4=	PF05=	SORTA	PF06= S0	RTD
PFO	7= UP	PF08= 1	DOWN	PF	-09=		PF10	D= LEFT	Γ PF11=	RIGHT	PF12=	
MA	С											05/001
J Co	nnected to remote ser	rver/host 9.60.86	5.170 using	g port 23								1.
	E EL /022	5.) II	19		_							



Scenario 4a: How Do You Do That?

Rule and action in Operations Manager:

```
*
*
* Send an alert to OPERSSI console if spool too full
DEFSMON NAME(SPLFULL),+
    USAGE(005-100),+
    INTERVAL(1),+
    LIMIT(3,3600),+
    ACTION(SPLPAGE)
*
DEFACTN NAME(SPLPAGE),+
    COMMAND(EXEC MSG2OPER junk junk &0 &4 &3),+
    ENV(LVM)
```

*

```
SUSPEND SPOOL(SPLFULL)
```



Scenario 4a: How Do You Do That?

MSG2OPER EXEC

```
Address Command
Parse arg userid euser event sourcesys msgtext
'GOMGLBL INTO sysname NAME tcphostname'
if userid = ' GOMEMON' then
 do
    if event = 9 then
      msgtext = 'Outbound relocation for' euser 'on' sourcesys 'started'
    else
      msgtext = 'Inbound relocation for' euser 'on' sourcesys 'started'
    'CP MSGNOH OPERSSI AT ALL From' sysname ':' msgtext
  end
else
  if event = 'SPOOL' then
    'CP MSGNOH OPERSSI AT ALL Spool is' sourcesys'% full on' sysname
  else
  if event = 'PAGE' then
    'CP MSGNOH OPERSSI AT ALL Page space is' sourcesys'% full on' sysname
  else
    'CP MSGNOH OPERSSI AT ALL From' userid 'on' sysname ':' msgtext
```

Exit rc



Scenario 4b: Send an Email if Spool Usage is Too High

- Operations Manager monitors the spool usage (percent full)
 - For demo purposes, spool monitor is currently suspended
 - We'll dynamically resume (re-activate) the spool monitor
 - Demo monitor requires spool to only be 5% full or higher
- Usage exceeds the specified limit
- Automatically send an e-mail to someone who can evaluate and take action
- For demo purposes, suspend (de-activate) the spool monitor when complete



Scenario 4b: Detailed Steps

From an authorized VM user ID, see the spool usage:

gomcmd opmgrm1 viewspl

From a user ID with Operations Manager privileges:

gomcmd opmgrm1 resume spool(splfull)

Check the Operations Manager log to see the spool monitor triggered:

gomcmd opmgrm1 viewlog

- Check the inbox of the appropriate person to see the e-mail
- From a user ID with Operations Manager privileges:

gomcmd opmgrm1 suspend spool(splfull)

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File Edit View Communication	Actions Window Help	1 1 h h	
Host: 9.82.24.129	Port: 23	LU Name:	Disconnect
Ready; T=0.01/0.01	21:15:02		
			1
)
gomcmd opmgrm1 view	•spi	VM RE	
			42/023
G ^O Connected to remote server/host	t 9.82.24.129 using port 23		li.

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	dit View Comm		1	Window	1 1	- 1 - 1						
			i 💩		00	۲						
	Host; 9.82.2	4.129		Port	23		_	LU Nan	ne:		Disconnect	
Sy	stem: ZVM	/5R40		:100		Used	F	iles:	0% Used		1 of	609
		1000	1.00	fax:	2	.3G		Max:	1655640			
md	Owner	File	CLS	QUE	ТҮР	Size	Hold	Date	Time	Name	Type	
	AMVADMIN	0010	T	RDR	CON				13:20:08		20 -11 2.08125	
	AMVARKIV	*0014	т	PRT			NONE		19:10:00			
	ATS01	*0018	A		CON				15:27:00			
	BKRADMIN	0091	I	RDR		10,000,000	NONE		20:04:03			
	BKRADMIN	0090	Ţ	RDR		1 M			20:03:59	HARKER	0.1.T.D.1.T	
	BKRADMIN	0087	Ţ	RDR					17:27:39		OUTPUT	868
	BKRADMIN BKRADMIN	0086	Ŧ	RDR RDR	CON	12K 2M	NONE	12/14	17:27:38 15:53:50	SINEDISK	201112	14
	BKRADMIN	0084	÷	RDR					15:27:28			
	BKRADMIN	0005	Ť	RDR			NONE		11:16:57	WORKER	OUTPUT	
	BKRADMIN	0004	Ť	RDR					11:16:56		201005	0
	BKRADMIN	0081	Ť	RDR					03:05:15	WORKER	OUTPUT	
	BKRADMIN	0079	Ť	RDR			NONE		03:05:15	SAMPLE	201105:	LO
	BKRADMIN	0080	Т	RDR		4K	NONE		03:04:20		OUTPUT	
	BKRADMIN	0078	т	RDR	CON			05/10	03:02:33	WORKER	OUTPUT	
	BKRADMIN	0076	т	RDR			NONE		03:02:33	SAMPLE	201105:	LO
	BKRADMIN	0077	Т	RDR					03:02:26		201105:	LO
	BKRADMIN	0075	Т	RDR					03:00:13	WORKER	OUTPUT	2.02
	BKRADMIN	0074	T	RDR					03:00:13	SAMPLE	201105:	LO
	BKRADMIN	0073	Ţ	RDR	CON		NONE	05/10	02:56:48		OUTPUT	2.20
	BKRADMIN	0069	Ţ	RDR					02:56:48	SAMPLE	201105:	LO
	BKRADMIN	0072	Ţ	RDR					02:55:33	WORKER	OUTPUT	
	BKRADMIN BKRADMIN	0071	R T	RDR RDR					02:55:25 02:53:54	WORKER Worker	OUTPUT OUTPUT	
	BKRADMIN	0066	Ť	RDR					02:53:54		201105:	0
	BKRADMIN	0068	Ť	RDR			NONE		02:53:42		201105	
	BKRADMIN	0065	Ť	RDR					02:53:42		201105	
	BKRADMIN	0067	Ť	RDR			NONE			ATS14	201105	
	BKRADMIN	0064	Ŕ	RDR			NONE		02:51:26	WORKER	OUTPUT	76593
	BKRADMIN	0063	т	RDR					02:51:24		OUTPUT	
	BKRADMIN	0062	т	RDR					02:51:23	SAMPLE	201105:	
	BKRADMIN	0061	Т	RDR			NONE	05/10			201105:	LO
	BKRADMIN	0060	R	RDR			NONE		02:48:11		OUTPUT	
	BKRADMIN	0059	A	RDR			NONE		02:48:11		FAILURE	2
	BKRADMIN	0058	R	RDR		2012/2020	NONE	CONTRACTOR AND CONTRACTOR OF	02:44:33	WORKER	OUTPUT	
	BKRADMIN	0056	A	RDR			NONE		02:44:33	RESTORE	FAILURE	2
DEO	BKRADMIN 1= HELP	0057 PF02= \	R	RDR	-03=		PFO		02:43:46 PF05=		0UTPUT PF06= S01	OTO
	1= HELP 7= UP	PF02= 0			09=	END		9= LEFT			F12=	KID.

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File Edit View Communication Actions	Window Help			4
D B B B 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 🛃 🛃 🍓 🔗			
Host: 9.82.24.129	Port: 23	LU Name:	Dis	connect
Ready; T-0.01/0.01 01/14 gomcmd opmgrm1 resume s Readu: T-0.01/0.01 21/14):45 Dool(splfull)	1		1
<u>Beadu: T-0 01/0 01 21·18</u>	3.28	-		
	1			
gomcmd opmgrm1 viewlog			RUNNING	ZVMV5R40
Connected to remote server/host 9.82.24.12	29 using port 23			42/001

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B - DEMOADMN ATS		
File Edit View Communication	Actions Window Help	
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Host: 9.82.24.129	Port: 23	LU Name: Disconnect
03/26/2013 21:12:14 03/26/2013 21:12:14		BKRBKUP "BKRBAK8510I 03/26/13 21:12:14 WAKEUP BKRBKUP "BKRBAK8512I The stack contains 0 ent
03/26/2013 21:17:17 03/26/2013 21:17:17	GOMCMD0216L	AMVARKIV"" VID=*MSG SRC=MASIUCV CLS=8 AMVARKIV"03/26/13 21:17:17 WAKEUP exited on a
03/26/2013 21:1/:1/ 03/26/2013 21:17:26 03/26/2013 21:18:58	GOMCMD0201L	AMVARKIV The stack contains 0 lines. There ar DEMOADMN "VIEWSPL" VID=DEMOADMN SRC=MASIUCV C DEMOADMN "RESUME SPOOL(SPLFULL)" VID=DEMOADMN
03/26/2013 21:19:02 03/26/2013 21:19:02	GOMSM004031	SPOOL ALERT: MONITOR SPLFULL USAGE CONDITI SPOOL USE: MONITOR SPLFULL SPACE 43 PERCENT,
03/26/2013 21:19:02 03/26/2013 21:19:02	GOMACT0260I	SPOOL CHG: MONITOR SPLFULL SPACE 0 PERCENT, F SPOOL SPLFULL ACTION SPLEMAIL TRIGGERED BY G
03/26/2013 21:19:02 03/26/2013 21:19:02 03/26/2013 21:19:02		ACTION SPLEMAIL BEGIN FOR _GOMSMON SERVER OPMG COMMAND "EXEC SMTPSPL TLD1 AT US.IBM.COM 43" OPMGRM1 "STATUS DETAIL(SPOOLUSR) " VID=OPMGRM
03/26/2013 21:19:02 03/26/2013 21:19:02 03/26/2013 21:19:02	GOMCMD09701	USER PERFSYM SPOOL FILE ID 1293 IS USING 2128 USER PERFSYM SPOOL FILE ID 1295 IS USING 2128
03/26/2013 21:19:02 03/26/2013 21:19:02		USER PERFSVM SPOOL FILE ID 1296 IS USING 2128 USER PERFSVM SPOOL FILE ID 1297 IS USING 2128
03/26/2013 21:19:02 03/26/2013 21:19:02 03/26/2013 21:19:02	GOMCMD0970I GOMCMD0970I GOMCMD0970I	USER PERFSVM SPOOL FILE ID 1275 IS USING 2127 USER PERFSVM SPOOL FILE ID 1276 IS USING 2127 USER PERFSVM SPOOL FILE ID 1277 IS USING 2127
03/26/2013 21:19:02 03/26/2013 21:19:02	GOMCMD09701	USER PERFSYM SPOOL FILE ID 1278 IS USING 2127 USER PERFSYM SPOOL FILE ID 1279 IS USING 2127
03/26/2013 21:19:02 03/26/2013 21:19:02	GOMCMD0971I	USER PERFSYM SPOOL FILE ID 1280 IS USING 2127 USER LISTGEN HAS 174 SPOOL FILES USING 174 SP
03/26/2013 21:19:02 03/26/2013 21:19:02 03/26/2013 21:19:02	GOMCMD0971I	USER MAINT HAS 97 SPOOL FILES USING 380 SPO USER BKRADMIN HAS 87 SPOOL FILES USING 2666 SP USER OPMGRM1 HAS 49 SPOOL FILES USING 126 SPO
03/26/2013 21:19:02 03/26/2013 21:19:02	GOMCMD0971I	USER PERFSYM HAS 43 SPOOL FILES USING 91465 S USER OPERATOR HAS 24 SPOOL FILES USING 467 SPO
03/26/2013 21:19:02 03/26/2013 21:19:02	GOMCMD0971I	USER HARRISJO HAS 15 SPOOL FILES USING 21 SPOO USER TCPMAINT HAS 13 SPOOL FILES USING 158 SPO
03/26/2013 21:19:02 03/26/2013 21:19:02 03/26/2013 21:19:02	GOMCMD0971I	USER DEMOADMN HAS 10 SPOOL FILES USING 11 SPOO USER SINE HAS 6 SPOOL FILES USING 540 SPOO STATUS DETAIL COMPLETE
03/26/2013 21:19:02 03/26/2013 21:19:02	승규가는 지난한 아이들은 동안을 가지 않지만 말할 수 있다. 것이	DMSXSU587I XEDIT: NOTE OPMGRM1 NOTE A1 sent to TLD1 at US.IBM.CO
03/26/2013 21:19:02	COMOCTOREOI	ACTION SPLEMAIL END RC=0 SERVER OPMGRM1
PF01= SCROLL PF02= PF07= UP PF08=	DOWN PF09=	END PF04= PF05= HOLD PF06= PF10= LEFT PF11= RIGHT PF12= RECALL
MABB		GOMALOG
O Connected to remote server/host	9.82.24.129 using port 23	

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	ne doouson	Ibivi coniluential, important, 2013 metu Ar Art (170A) mojections	12/13/2012 12.231 14	1201
	PMGRM1	Spool is 43% full on z/VM system on GDP4.GDPSPLEX.WSCLAB.WASHINGT	ION 03/26/2013 07:21 PM	4K
		Speel is 43% full on ZVM system on GDP4 GDP9PI EX WSCLAP WASHINGT		4K
		-,		
		Spool is 43% full on z/VM system on GDP4.GDPSPLEX.WSCLAB.WASHINGT		4K
-		17 H	00/00/0010 04 40 044	2017 #
Ү New 🔻 🚑 Reply 🔻	🔹 🍕 Reply to All 👻 💽	🗏 Forward 🔻 📄 🔻 🍺 Display 🛛 🔍 🕶 More 🕶		
Spo	ool is 43% full on	z/VM system on GDP4.GDPSPLEX.WSCLAB.WASHINGTON.IBM.COM		
	Hertini IO. Hacy D	-		03/26/2013 07:21 PM
Defau	ult custom expiration d	ate: 03/26/2014		Show Details
Following are t USER PERFSVM S USER PERFSVM S	the top ten larg SPOOL FILE ID 12 SPOOL FILE ID 12	em on GDP4.GDPSPLEX.WSCLAB.WASHINGTON.IBM.COM est spool files and the top ten users with the most spool files. 93 IS USING 2128 SPOOL BLOCKS 95 IS USING 2128 SPOOL BLOCKS 96 IS USING 2128 SPOOL BLOCKS 97 IS USING 2127 SPOOL BLOCKS 75 IS USING 2127 SPOOL BLOCKS 76 IS USING 2127 SPOOL BLOCKS 78 IS USING 2127 SPOOL BLOCKS 78 IS USING 2127 SPOOL BLOCKS 79 IS USING 2127 SPOOL BLOCKS 79 IS USING 2127 SPOOL BLOCKS		



Scenario 4b: How Do You Do That?

Spool monitor and action in Operations Manager:

```
*
```

```
DEFSMON NAME(SPLFULL),+
```

```
USAGE(025-100),+
```

```
INTERVAL(1),+
```

```
LIMIT(3,3600),_
```

```
ACTION(SPLEMAIL)
```

*

DEFACTN NAME(SPLEMAIL),+

COMMAND(EXEC SMTPSPL tld1 at us.ibm.com &4),+

ENV(LVM)



Scenario 4b: How Do You Do That?

SMTPSPL EXEC (excerpts)

```
/* */
Parse arg mail_user dummyat mail node spoolpct
errtext = 'Spool is' spoolpct'% full on z/VM system'
/* Get TCP hostname and domain from Ops Mgr global variables */
line.1 = 'OPTIONS: NOACK
                         LOG
                                      NONOTEBOOK ALL CLASS A'
                               SHORT
line.2 = 'Date: ' Date() ',' Time()
line.8 = errtext 'on' fqdomain name
line.9 = '
line.10 = 'Following are the top ten largest spool files and the top ten u
ith the most spool files.'
line.0 = 11
'PIPE stem line. | > TEMP NOTE A'
'PIPE command GOMCMD OPMGRM1 STATUS DETAIL(SPOOLUSR) | specs words 4-* 1 |
spooldata.'
spooldata.0 = 20
'PIPE stem spooldata. | >> TEMP NOTE A'
'EXEC SENDFILE TEMP NOTE A (NOTE SMTP'
```



Scenario 5: Find and View Spool Files – Clean up the Spool

Authorized user specifies spool search criteria

- By user ID
- By date
- By file size

Result list presented

- Sort
- Open/view a specific spool file
- Purge, modify metadata, or transfer a file



Scenario 5: Detailed Steps

From an authorized VM user ID, view the spool files:

gomcmd opmgrm1 viewspl

- Sort by date
 - Put cursor on date column header and hit F6
- Find the spool files just sent and type PURGE next to them
- From an authorized VM user ID, view the log to see that the spool monitor is no longer triggered:

gomcmd opmgrm1 viewlog

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<u>File Edit View Comm</u>	nunication <u>A</u>											
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System: 2		20	Spo	ol:	85%	Used	F	iles:	0% Used	Ŀ	1 of 1075	;
_			́ К	lax:		8 G		Max:	1655640			
Cmd Owne		File		QUE			Hold		Time	Name	Type	
_	RATNS	0008	D D	RDR RDR					16:58:40 21:04:24		CPDUMP CPDUMP	
	FSVM	0010 0339	A	RDR					15:00:28	BRSZVM44		
	FSVM	0690	Â	RDR			SYS		23:00:07	013201144	DOME	
MAIN		0217	Ť	RDR		16K			12:19:02			
	TS109	0074	Å	RDR			SYS		17:48:59			
	SA100	0003	A	RDR		10M	NONE	11/11	17:38:57	INITRD	BIN	
	SA100	0001	A	RDR					17:38:45	VMRDR	IKR	
	SA100	0002	A	RDR					17:38:52	PARM	FILE	
	SA114	0007	A	RDR					12:20:46	VMRDR	IKR	
	SA114	0009	A	RDR					12:20:50	INITRD	BIN	
	T104	0059	A	RDR						INITRD	IMG	
SIN	E TS109	0150 0072	A A	RDR RDR					10:55:21 15:20:07	INITRD	IMG	
	TS109	0072	Ĥ	RDR				10/27				
	TS109	0070	Ä	RDR				10/27				
	TS109	0069	A	RDR				10/27	07:44:46			
	MAINT	0030	A	RDR					18:27:58	TCPIP	MESSAGE	
OPE	RATOR	0039	A	RDR	PRT				18:27:58	TCPIP	MESSAGE	
SLES	SA114	0006	A	RDR	CON				12:20:39			
	SA114	0008	A	RDR					12:20:50	PARM	FILE	
	T104	0057	A	RDR					11:01:10	KERNEL	IMG	
	T100	0008	A	RDR					10:00:41		IKR	
SINE		0145	A	RDR				08/29	09:50:23	BKR120	SERVLINK	
SINE		0143	A	RDR RDR					09:48:36	BKR120	VMARC	
	ADMIN	0117 0021	A T	RDR					12:18:54 13:29:27	INITRD WORKER	IMG OUTPUT	
	T104	0060	Å	RDR					11:01:20	REDHAT	CONF	
	T104	0058	Â	RDR					11:01:13	GENERIC	PARM	
	T104	0055	A	RDR					10:42:30			
SIN		0144	A	RDR	PUN			08/29	09:50:18	UK27376	SERVLINK	
SINE	Ε	0142	A	RDR				08/29	09:48:23	UK18212	VMARC	
SINE		0141	A	RDR				08/29	09:46:20	UK31492	SERVLINK	
SINE		0140	A	RDR				08/29	09:46:12	UK18212	SERVLINK	
SINE		0139	A	RDR				08/29			SERVLINK	
SINE		0138	A	RDR					09:46:11		SERVLINK	
		0010	A	RDR					14:25:22		IKR	
	TS101 7J06B	0012	A T	RDR RDR					14:25:25 14:11:31		BIN Console	
	13008	0003		RUR	GON	4 K.	NUNE	00710	14:11:31	AULTINS		0.4
		0.00.04.400		h 00							05/0	01
Connected to remote	e server/host	9.82.24.129	using por	t 23								_ //

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Cmd	Owner	File	CLS	QUE	түр	Size	Hold	Date	Time	Name	Туре
_	OPMGRC1	0011	A		PUN		NONE			INITRD	IMG
	SINE	0267	A		PUN		NONE		20:40:17	INITRD	IMG
	OPMGRC1	0010	A		PUN		NONE		20:40:11		IMG
	SINE	0265	A		PUN		NONE		20:40:03	INITRD	IMG
	MAINT	0241	Т		CON		NONE		14:10:31		
	SINE	0264	A A	PRT	CON		NONE		00:51:44		
	MAINT OPMGRC1	0240 0007	T A		CON PUN		NONE NONE		11:58:22		IMG
	SINE	0248	A		PUN		NONE		11:40:44		IMG
	SINE	0240	Â		PUN		NONE		11:46:14		IMG
	SINE	0246	Ä		PUN		NONE		11:45:08		IMG
	SINE	0245	Ä		CON			02/20	11.45.00	INTIKD	1110
	SINE	0244	Â		CON				23:10:25		
	SINE	0243	Ä		CON				18:05:30		
	MAINT	0239	Ť		CON				15:44:50		
	PERFSVM	0727	À	PRT	PRT			02/19		FCONMON	LISTING
	PERFSVM	0726	Â		PRT				00:00:39		LISTING
	SINE	0241	A		CON				09:37:41		
	SMTP	0015	т	PRT	CON	12K	NONE	02/17	08:44:08		
	RICHARD	0010	A	RDR	PUN	4 K	NONE	02/17	08:41:39	SMTP	NOTE
	SINE	0240	A	RDR	PUN	4 K	NONE	02/17	08:28:43	SMTP	NOTE
	SINE	0239	A	RDR	PUN			02/17		SMTP	NOTE
	SINE	0238	A		PUN			02/17			NOTE
	SINE	0237	A	RDR				02/17			NOTE
	OPMGRM1	0003	A		PUN			02/17		SMTP	NOTE
	TCPMAINT	0038	Т		CON			02/17			
	TCPMAINT	0037	A	RDR				02/17			MESSAGE
	OPERATOR		A		PRT				08:28:36		MESSAGE
	PERFSVM	0725	A	PRT					00:00:39	FCONMON	LISTING
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	BISHOP	0048	T T		CON				14:08:44		
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	PERFSVM	0723	A	PRT	PRT				00:00:39	FCONMON	
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	RICHARD	0008	Ť	PRT	CON				18:04:27		
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_	MAINT	0241	Т		CON				14:10:31			
	SINE	0264	A	PRT	CON	12K	NONE	02/24	00:51:44			
	MAINT	0240	Т		CON			02/23	11:58:22			
	OPMGRC1	0007	A		PUN				11:48:44	INITRD	IMG	
	SINE	0248	A		PUN			02/23	11:46:14	INITRD	IMG	
	SINE	0247	A		PUN			02/23	11:45:38	INITRD	IMG	
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	MAINT	0238	Т		CON				14:05:32			
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	SINE	0246	A	RDR		17M	NONE	02/23	11:45:08	INITRD	IMG	
	SINE	0245	A	RDR					10.21.50			
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	SINE	0240	A	RDR	PUN	4K	NONE	02/17	08:28:43	SMTP	NOTE	
	SINE	0239	A		PUN				08:28:43		NOTE	
	SINE	0238	A		PUN			02/17		SMTP	NOTE	
	SINE	0237	A		PUN			02/17			NOTE	
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	BISHOP	0048	т		CON				14:08:44			
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File Edit View Communication Actions Window Help	
02/24/2009 20:52:48 GOMACT02671	ACTION SPL7 END RC=0 SERVER OPMGRM1
02/24/2009 20:52:48 GOMCMD0216L	SMTP "* From SMTP: Received Spool File 006
02/24/2009 20:52:48 GUMGMD0216L	SMIP "* From SMIP: Mail delivered to: (ILD
02/24/2009 20:53:48 GOMSM00403I	SPOOL ALERT: MONITOR SPL7 USAGE CONDITI
02/24/2009 20:53:48 GOMSM00401I 02/24/2009 20:52:48 GOMSM004021	SPOOL USE: MONITOR SPL7 SPACE 85 PERCENT,
02/24/2009 20:53:48 GOMACT0260I	SPOOL SPL7 ACTION SPL7 TRIGGERED BY
02/24/2009 20:53:48 GOMACT02621	ACTION SPL7 BEGIN FOR SPOOL SERVER OPMG
02/24/2009 20:53:48 GOMACT0269L	COMMAND "EXEC SMTPNOTE TLD1 AT US.IBM.COM SPOO
02/24/2009 20:53:48 GOMACT0270L	DMSXSU587I XEDIT:
02/24/2009 20:53:48 GOMACT0270L	NOTE OPMGRM1 NOTE A1 sent to TLD1 at US.IBM.CO
02/24/2009 20:53:48 GOMACT0267I 02/24/2009 20:53:48 GOMCMD0216L	ACTION SPL7 END RC=0 SERVER OPMGRM1 SMTP "* From SMTP: Received Spool File 006
02/24/2009 20:53:48 GOMCMD0216L 02/24/2009 20:53:48 GOMCMD0216L	SMTP "* From SMTP: Received Spool File 006
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02/24/2009 20:54:48 GOMSM004021	SPOOL CHG: MONITOR SPL7 SPACE 0 PERCENT, E
02/24/2009 20:54:48 GOMACT0260I	SPOOL SPL7 ACTION SPL7 TRIGGERED BY
02/24/2009 20:54:48 GOMACT0262I 02/24/2009 20:54:48 GOMACT0269L	ACTION SPL7 BEGIN FOR SPOOL SERVER OPMG
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02/24/2009 20:54:48 GOMCMD0216L	SMTP "* From SMTP: Received Spool File 007
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02/24/2009 20:55:48 GOMSM00403I 02/24/2009 20:55:48 GOMSM00401I	SPOOL ALERT: MONITOR SPL7 USAGE CONDITI SPOOL USE: MONITOR SPL7 SPACE 85 PERCENT,
02/24/2009 20:55:48 GOMSM004011 02/24/2009 20:55:48 GOMSM004021	SPOOL CHG: MONITOR SPL7 SPACE 0 PERCENT, F
02/24/2009 20:55:48 GOMACT02601	SPOOL SPL7 ACTION SPL7 TRIGGERED BY
02/24/2009 20:55:48 GOMACT0262I	ACTION SPL7 BEGIN FOR SPOOL SERVER OPMG
02/24/2009 20:55:48 GOMACT0269L	COMMAND "EXEC SMTPNOTE TLD1 AT US.IBM.COM SPOO
02/24/2009 20:55:48 GOMACT0270L	DMSXSU587I XEDIT:
02/24/2009 20:55:48 GOMACT0270L 02/24/2009 20:55:48 GOMACT0267I	NOTE OPMGRM1 NOTE A1 sent to TLD1 at US.IBM.CO ACTION SPL7 END RC=0 SERVER OPMGRM1
02/24/2009 20:55:48 GOMCMD0216L	SMTP "* From SMTP: Received Spool File 007
02/24/2009 20:55:49 GOMCMD0216L	SMTD "W Enom SMTD: Mail delivered to: /TLD
02/24/2009 20:56:41 GOMCMD0223I	USER SINE ISSUED COMMAND "PURGE OPMGRC1 R
02/24/2009 20:56:41 GOMCMD0223I	USER SINE ISSUED COMMAND "PURGE SINE R
02/24/2009 20:56:41 GOMCMD0223I	USER SINE ISSUED COMMAND "PURGE OPMGRC1 R
02/24/2009 20:56:41 GOMCMD0223I 02/24/2009 20:58:59 GOMCMD0201L	USER SINE ISSUED COMMAND "PURGE SINE R SINE "VIEWLOG" VID=SINE SRC=MASIUCV C
	STRE VIEWEGG VID-STRE SKG-MASIOGV G
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On Connected to remote server/host 9.82.24.129 using port 23	



Scenario 6: Automated Spool Clean Up

- Use z/VM SFPURGER utility to manage spool files based on criteria, e.g.
 - User ID
 - Days in spool
 - Class
 - Number of records

Automate SFPURGER execution

- Regularly scheduled using Operations Manager
- Triggered by Operations Manager spool monitor



Scenario 6: Detailed Steps

From an authorized VM user ID, view the spool files for a specific user:

gomcmd opmgrm1 viewspl user(tstadmn2)

Send a file to this user as class Z

sendfile profile exec a tstadmn2 (class z

View spool files for this user again to see the new file

gomcmd opmgrm1 viewspl user(tstadmn2)

Delete any existing schedules called DEMO

gomcmd opmgrm1 delschd name(demo)

Schedule SFPURGER for execution

- It will purge any files of class Z

gomcmd opmgrm1 defschd name(demo),action(sfpurger),WHEN(now)

View spool files for this user again to see the new file is gone

gomcmd opmgrm1 viewspl user(tstadmn2)

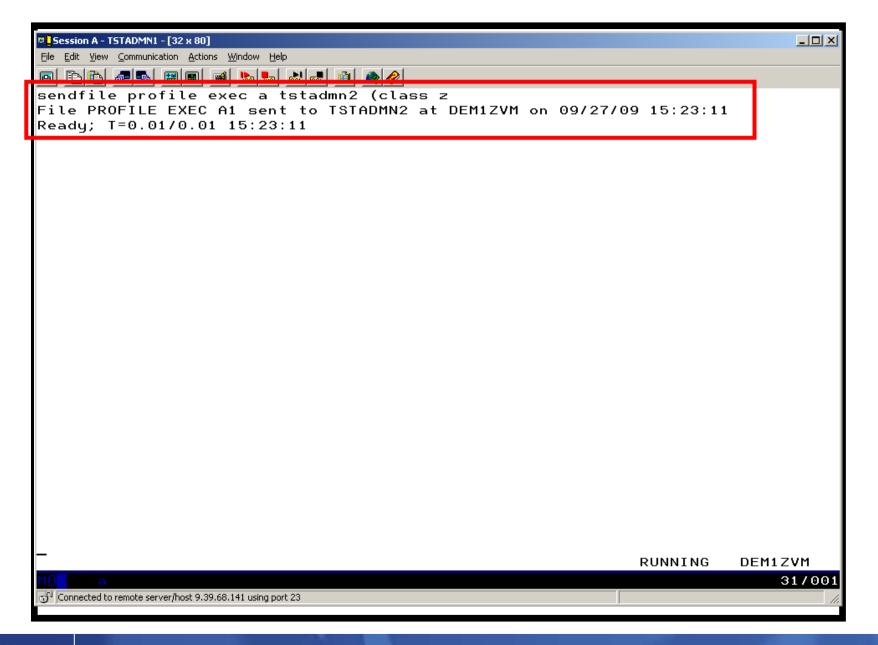
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Session A - TSTADMN1 - [32 x 80]		
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GOMCMD OPMGRM1 VIEWspl user(tstadmn2)_		
	RUNNING	DEM1ZVM
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	a											05/00

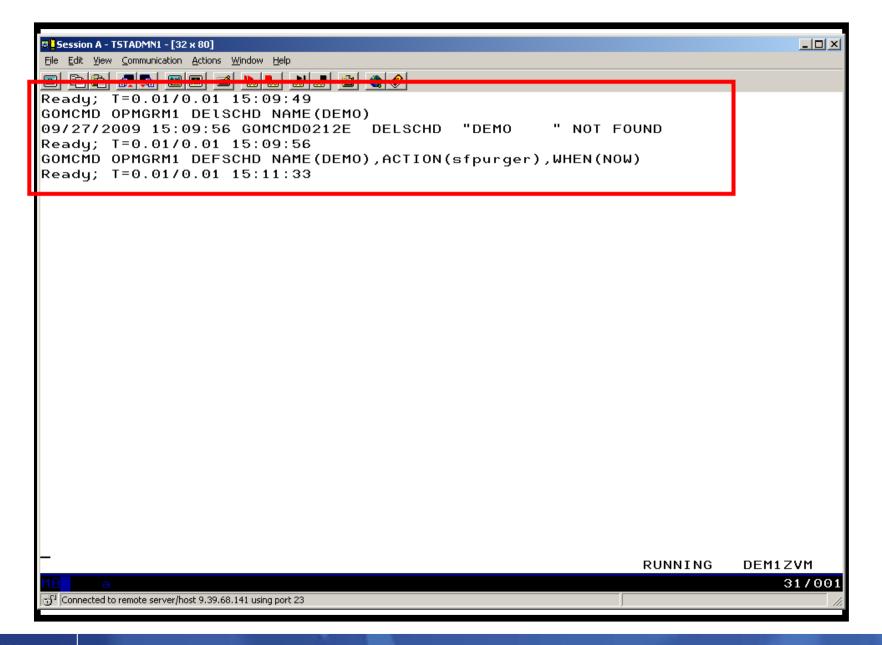




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Session A - TSTADMN1 - [32 x 80]	
<u>File Edit View Communication Actions Window Help</u>	
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00/27/2000 15:26:20 COMCMD0216L	LYSYSLOC "(11)DR2[2000]: Open of log file "/he
09/27/2009 Receive files from host GOMCMD0201 L	TSTADMN1 "DELSCHD NAME (DEMO)" VID=TSTADMN1 SRC
09/27/2009 15:26:37 GOMCMD0201L	TSTADMN1 "DEFSCHD NAME(DEMO),ACTION(SFPURGER),
09/27/2009 15:26:49 GOMCMD0201L	TSTADMN1 "VIEWLOG" VID=TSTADMN1 SRC=MASIUCV C
09/27/2009 15:26:59 GOMACT0260I	SCHEDULE DEMO ACTION SFPURGER TRIGGERED BY
09/27/2009 15:26:59 GOMACT0262I	ACTION SFPURGER BEGIN FOR SCHEDULE SERVER OPMG
09/27/2009 15:26:59 GOMACT0269L	COMMAND "EXEC SFPURGER FORCE"
09/27/2009 15:26:59 GOMACT0270L	DMSCVS24521 SEDUDCED statistics at 15,26,50 and
09/27/2009 15:26:59 GOMACT0270L	DMSCYS2452I SFPURGER starting at 15:26:59 on 2 DMSCYS2453I Running in FORCE mode - RUN09270.
09/27/2009 15:26:59 GOMACT0270L	DMSCYS24331 Kunning In FORCE mode Rondszin. DMSCYS2470I Using SFPURGER MODULE with SFPTRAC
09/27/2009 15:26:59 GOMACT0270L	DMSCYS2456I Erasing old output files till 2009
09/27/2009 15:26:59 GOMACT0270L	billoriozioor zrading ota oatpat ritto titt zoos
09/27/2009 15:26:59 GOMACT0270L	DMSCYS2496I Control card scan complete.
09/27/2009 15.20.59 00MACT0270L	
09/27/2009 15:26:59 GOMACT0270L	DMSCYS2459I Examining output file
09/27/2009 15:26:59 GOMACT0270L	DMSCYS2462I Spool file scanning begins
09/27/2009 15:26:59 GOMACT0270L	DMSCYS2482I Executing: CP PURGE TSTADMN2 RDR 0
09/27/2009 15:26:59 GOMACT0270L	0000001 FILE PURGED
09/27/2009 15:26:59 GOMACT0270L	DMSCYS2463I 1 of the 286 spool files HAVE been
09/27/2009 15:26:59 GOMACT0270L	DMSCYS2485I 0 of the 286 spool files HAVE been
09/27/2009 15:26:59 GOMACT0270L 09/27/2009 15:26:59 GOMACT0270L	DMSCYS2486I 0 of the 286 spool files HAVE been RDR FILE 0014 SENT FROM 0PMGRM1 CON WAS 0014
09/27/2009 15:26:59 GOMACT0270L	DMSCYS2466I Run terminating - Return code 0.
09/27/2009 15:26:59 GOMACT0270L	DMSCYS24651 SFPURGER RUN09270 has ended.
09/27/2009 15:26:59 GOMACT0267I	ACTION SFPURGER END RC=0 SERVER OPMGRM1
09/27/2009 15:26:59 GOMCMD0216L	OPERATOR "OPMGRM1: DMSCYS2452I SFPURGER starti
09/27/2009 15:26:59 GOMCMD0216L	OPERATOR "OPMGRM1: DMSCYS2453I Running in FORC
09/27/2009 15:26:59 GOMCMD0216L	OPERATOR "OPMGRM1: DMSCYS2456I Erasing old out
09/27/2009 15:26:59 GOMCMD0216L	OPERATOR "OPMGRM1: DMSCYS2459I Examining outpu
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md	Owner TSTADMN2 TSTADMN2	File 0004 0006	CLS A A	RDR	TYP PUN PUN	576K		04/20	Time 04:55:56 11:07:21		Type BADARC NETLOG	



Scenario 6: How Do You Do That?

Action in Operations Manager to call z/VM's SFPURGER EXEC

```
*
DEFACTN NAME(SFPURGER),+
COMMAND(EXEC SFPURGER FORCE),+
OUTPUT(LOG),+
ENV(LVM)
```

SFPURGER OPTIONS file

* Send console log to user ID TSTADMN1 at demo node CONSOLE TSTADMN1 DEM1ZVM

 \star Erase LOG and RUN files that are more than 3 days old

KEEPDAY 21

 \ast Set prime shift start and end times

PRIMSHFT 07:30:00 16:30:00

- * Use defaults for the following:
- * MSGTYPE SORTMOD SFPCNTL SOSCNTL SFPMOD APPEND SFPCNTL SFPTRACY



Scenario 6: How Do You Do That?

SFPTRACY CONTROL

- * Ignore any spool files found in the NSS queue (privilege class E)
 QUEUE NSS ACTION IGNORE
 *
- * Purge any spool files found in class Z

CLASS Z

ACTION PURGE

Make sure OPMGRM1 links and accesses MAINT 193 disk for access to SFPURGER functions



Scenario 7:

Detecting Disk Full Conditions of Logging IDs

- Operations Manager monitors the console of a user ID that does logging
 - DIRMAINT, for example
- Disk full or early warning message triggers a rule/action in Operations Manager
 - Quiesce or shut down DIRMAINT
 - Send the log files to a separate service machine
 - Erase the log files from DIRMAINT's logging disk
 - Restart DIRMAINT
 - Separately, other service machine automatically archives all files it receives (in Archive Manager for z/VM)
 - Log files are safely archived in Archive Manager and DIRMAINT is running with a clean log disk
- Get a copy of the console for further review/debugging

IBM Software



Scenario 7: Detailed Steps

From an authorized VM user ID, view the DIRMAINT console:

gomcmd opmgrm1 viewcon user(dirmaint)

- In the console view
 - Issue CMS commands to copy old (large) log files to DIRMAINT's log disk

cms copyfile dirmaint tlog0914 t = tlog0912 h

- Verify the logging disk is more than 75% full

cms q disk

Run DIRMAINT's hourly processing now

exec dvhourly

- Verify the logging disk is less than 75% full

cms q disk

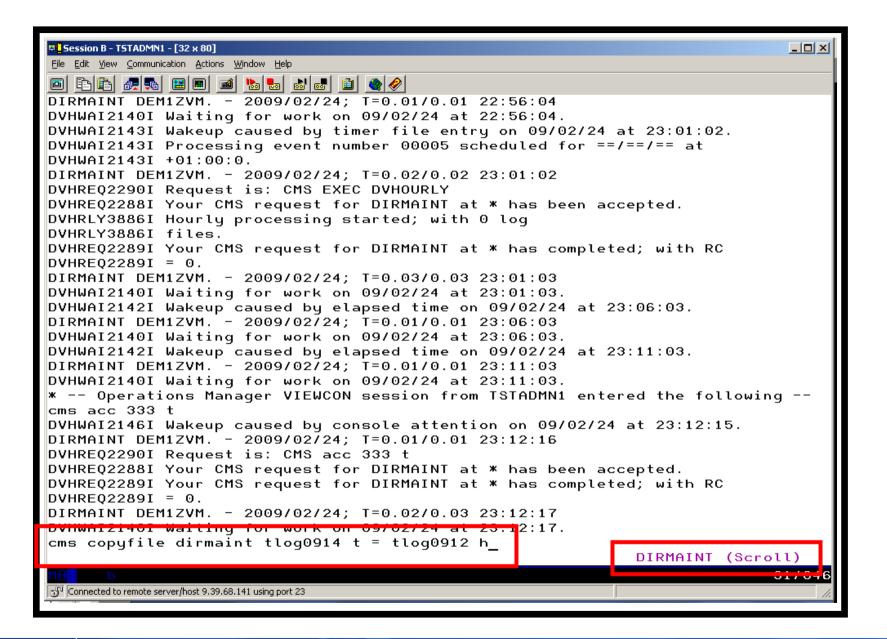
Exit the console view and find the files in the archive

amvlist

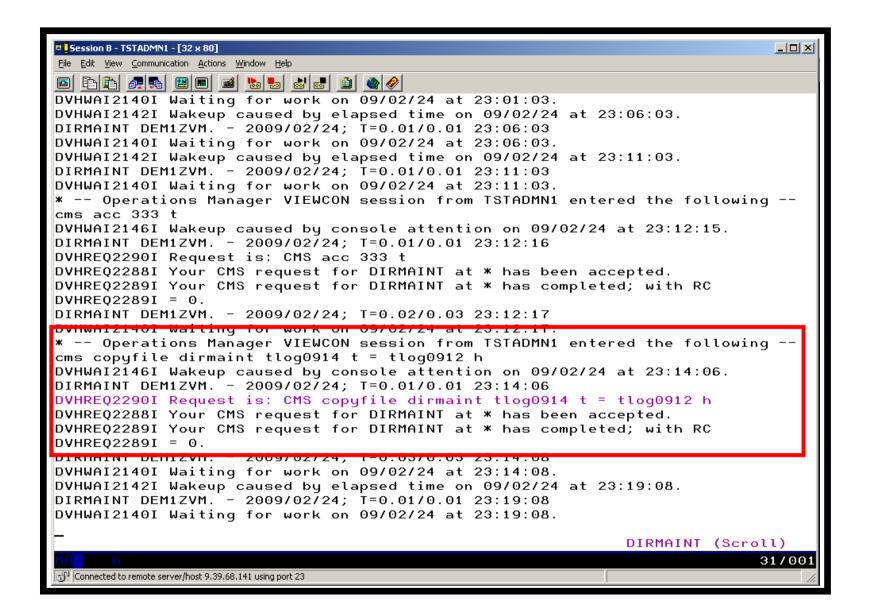
- Type "archlogs" in the owner field and press ENTER
- Request a copy of the console for further review/debugging

gomcmd opmgrm1 viewcon user(dirmaint),mode(rdr)









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Session B - TSTADMN1 - [32 x 80]		
Eile Edit View Communication Actions Window Help		
cms copyfile dirmaint tlog0914 t = tlog0910 h		
DVHWAI2146I Wakeup caused by console attention on 09/02/24 at 23	3:24:42.	
DIRMAINT DEM1ZVM 2009/02/24; T=0.01/0.01 23:24:42		
DVHREQ2290I Request is: CMS copyfile dirmaint tlog0914 t = tlog0)910 h	
DVHREQ2288I Your CMS request for DIRMAINT at * has been accepted	1.	
DVHREQ2289I Your CMS request for DIRMAINT at * has completed; wi	th RC	
DVHREQ2289I = 0.		
DIRMAINT DEM1ZVM 2009/02/24; T=0.03/0.03 23:24:43		
DVHUAI2140I Waiting for work on 00/02/24 at 23:24:43		<u> </u>
* Operations Manager VIEWCON session from TSTADMN1 entered the	ne follo	wing
cms q disk		
DIRMAINT DEM1ZVM 2009/02/24; T=0.01/0.01 23:25:08		
DVHREQ2290I Request is: CMS q disk		
DVHREQ2288I Your CMS request for DIRMAINT at * has been accepted	4	
LABEL VDEV M STAT CYL TYPE BLKSZ FILES BLKS USED-(%) BLKS		BLK TOTA
DIR155 155 A R/W 9 3390 4096 12 80-05	1540	162
DRM491 191 C R/W 15 3390 4096 250 1311-49	1389	270
DRM11F 11F D R/W 8 3390 4096 47 568-39	872	144
DIR1DF 1DF E R/W 9 3390 4096 124 265-16	1355	162
DIRIDE 108 C R/U 0 3300 4006 10 144-00	1476	162
DIR1AA 1AA H R/W 9 3390 4096 10 1385-85	235	162
MNITAA TAA 2 KAA TAA 100 33AA 40AP 281 14213-81	3487	1800
DIR333 333 T R/W 5 3390 4096 2 505-56	395	90
MNT19E 19E Y/S R/O 250 3390 4096 1102 28088-62	16912	4500
DIR1FA 1FA Z R/W 9 3390 4096 0 7-00	1613	162
DVHREQ2289I Your CMS request for DIRMAINT at * has completed; wi	th RC	
DVHREQ2289I = 0. DIRMAINT DEM1ZVM 2009/02/24; T=0.02/0.03 23:25:09		
DVHWAI2140I Waiting for work on 09/02/24 at 23:25:09		
by numizing to work on 09/02/24 at 20.20.09.		
	1AINT (S	croll)
MAL		31/001
Connected to remote server/host 9.39.68.141 using port 23		
I GA Destruction of the function of the function of the grand of the function		

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Session B - TSTADMN1 - [32 x 80]
<u>Eile E</u> dit <u>V</u> iew <u>Communication</u> <u>A</u> ctions <u>W</u> indow <u>H</u> elp
23:29:24 * Operations Manager VIEWCON session from TSTADMN1 entered the foll
23:29:24 cms exec dvhourly
23.29.24 Dviiwh121401 Wakeup caused by console attention on 09/02/24 at 23.29.24
23:29:24 DIRMAINT DEM1ZVM 2009/02/24; T=0.01/0.01 23:29:24
23:29:25 DVHREQ2290I Request is: CMS exec dvhourly
23:20:25 DVHDEQ22881 Your CMS request for DIRMAINT at & bas been accorted
23:29:25 DVHRLY3895W Disk 01AA is 75% full, exceeding its
23:29:25 * Operations Manager Action DIRMLOGB scheduled for execution *
23:29:33 DVHRLY3895W WARNING threshold of 75%.
20.29.00 DWIREYOBOOI Hourly processing started, with 0 log
23:29:33 DVHRLY3886I files.
23:29:33 DVHREQ2289I Your CMS request for DIRMAINT at * has completed; with RC
23:29:33 DVHREQ2289I = 0.
23:29:33 DIRMAINT DEM1ZVM 2009/02/24; T=0.04/0.04 23:29:25
23:29:33 DVHWAI2140I Waiting for work on 09/02/24 at 23:29:25.
23:29:33 DVHWAI2141I Wakeup caused by *SMSG on 09/02/24 at 23:29:25 from OPMGRM
23:29:33 DIRMAINT DEM1ZVM 2009/02/24; T=0.01/0.01 23:29:25
23:29:33 DVHREQ2290I Request is: REQUEST 74 SHUTDOWN
23:29:33 DVHREQ2288I Your SHUTDOWN request for OPMGRM1 at * has been accepted.
23:29:33 DVHSHU2193I A shutdown command has been issued by
23:29:33 DVHSHU2193I OPMGRM1 from DEM1ZVM.
23:29:33 DVHSHU2198A The DIRMAINT service machine is logging 23:29:33 DVHSHU2198A off.
23.29.33 DVH3H02198H 011. 23.20.33 CONNECT= $0.0.01.30$ VIDTODUE $0.00.00$ A0 TOTODUE $0.00.00$ A7
23:29:33 LOGOFF AT 23:29:27 CST TUESDAY 02/24/09
23:29:33 PRI FILE 0791 SENT FROM DIRMAINT CON WAS 0791 RECS 0095 CPY 001 0 HOL
23:29:33 DASD 0191 LINKED R/W; R/O BY DATAMOVE
23:29:33 DASD 011F LINKED R/W; R/O BY DATAMOVE
20:29:00 Bidb OII EINRED K/W, K/O BI BINNIOVE
DIRMAINT
MA b 31/001
ST Connected to remote server/host 9.39.68.141 using port 23



Session B - TSTADMN1 - [32 x 80]			<u>- ×</u>
Ele Edit View Communication Actions Window Help			
Ready: T=0 01/0 01 11:48:24			
gomcmd opmgrm1 viewcon user(dirmaint),mode(rdr) RDR FILE 0112 SENT FROM 0PMGRM1 PRT WAS 0043 RECS 4039 CP	Y 001	A NOHOLD	NOKEEP
Ready, T 0.01/0.01 11.50.24			
	RUNNI	NG DEM1	LZVM
M <u>A</u> b			31/001
Connected to remote server/host 9.39.68.141 using port 23			11.

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^a Session B - TSTADMN1 - [32 x 80]	
<u>File Edit V</u> iew <u>C</u> ommunication <u>A</u> ctions <u>W</u> indow <u>H</u> elp	
0112 PEEK A0 V 204 Trunc=204 Size=4037 Line=0	Col=1 Alt=0
File VIEWCON DIRMAINT from OPMGRM1 at DEM1ZVM Format is P	
<pre>K ¥ ¥ Top of File ¥ ¥ ¥</pre>	
DIRMAINT DEM1ZVM 2010/09/24; T=0.01/0.01 06:56:02	
DVHWAI2140I Waiting for work on 10/09/24 at 06:56:02.	
DVHWAI2143I Wakeup caused by timer file entry on 10/09/24	at 07:01:01.
DVHWAI2143I Processing event number 00005 scheduled for =	=/==/== at
DVHWAI2143I +01:00:0.	
DIRMAINT DEM1ZVM 2010/09/24; T=0.01/0.01 07:01:01	
DVHREQ2290I Request is: CMS EXEC DVHOURLY	
DVHREQ2288I Your CMS request for DIRMAINT at st has been a	ccepted.
DVHRLY3886I Hourly processing started; with 0 log	
DVHRLY3886I files.	
<code>DVHREQ2289I</code> Your CMS request for <code>DIRMAINT</code> at st has comple	ted; with RC
DVHREQ2289I = 0.	
DIRMAINT DEM1ZVM 2010/09/24; T=0.02/0.02 07:01:02	
DVHWAI2140I Waiting for work on 10/09/24 at 07:01:02.	
DVHWAI2142I Wakeup caused by elapsed time on 10/09/24 at	07:06:02.
DIRMAINT DEM1ZVM 2010/09/24; T=0.01/0.01 07:06:02	
DVHWAI2140I Waiting for work on 10/09/24 at 07:06:02.	
DVHWAI2142I Wakeup caused by elapsed time on 10/09/24 at	07:11:02.
DIRMAINT DEM1ZVM 2010/09/24; T=0.01/0.01 07:11:02	
DVHWAI2140I Waiting for work on 10/09/24 at 07:11:02.	07.40.00
DVHWAI2142I Wakeup caused by elapsed time on 10/09/24 at DIRMAINT DEM1ZVM 2010/09/24; T=0.01/0.01 07:16:02	07:16:02.
DIRMHINT DEMIZVM 2010/09/24; 1-0.01/0.01 07:16:02 DVHWAI2140I Waiting for work on 10/09/24 at 07:16:02.	
DVHWAI21401 Walting for work on 10/09/24 at 07.18.02. DVHWAI2142I Wakeup caused by elapsed time on 10/09/24 at 0	07:21:02
	cate 6= ?/Change
7= Backward 8= Forward 9= Receive 10= Rgtleft 11= Spl	
i backward of forward s- Receive to- Ryttert II- Spt	12- 001301
====>	
´ -	XEDIT 1 File
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The connected to remote server/host 9.39.68.141 using port 23	31/00



Scenario 7: How Do You Do That?

Console rule and action in Operations Manager:

```
DEFRULE NAME(DIRMLOG),+
```

```
MATCH(*DVHRLY3895*01AA*),+
```

```
USER(DIRMAINT),+
```

```
ACTION(DIRMLOG)
```

```
*
```

```
DEFACTN NAME(DIRMLOG),+
```

INPUT(AHI),+

```
NEXTACTN(DIRMLOGB)
```

```
*
```

```
DEFACTN NAME(DIRMLOGB),+
```

```
COMMAND(EXEC DIRM1AA &U),+
```

ENV(LVM)

Authorize Operations Manager to issue DIRM SHUTDOWN – from MAINT issue

DIRM AUTHFOR OPMGRM1 CMDLEVEL 150A CMDSET O



Scenario 7: How Do You Do That?

DIRM1AA EXEC (excerpts):

Parse Upper Arg Tuser . ;
/* Try to shut DIRMAINT down. */
Say 'DIRM1AA - Issuing DIRM SHUTDOWN';
Address CMS 'DIRM SHUTDOWN';

Address Command 'CP LINK' Tuser '1AA' Dev 'MR'; Address CMS 'ACCESS' Dev Fm;

Address Command 'CP XAUTOLOG' Tuser;



Scenario 8: Process a File of Test Messages as a Console

- Create a file containing lines of test messages
 - Test rules and actions without creating critical conditions
- Use Operations Manager to send the file for processing
 - Treat it as the console of one user
 - Send it again treating it as the console of another user
 - Notice triggered rules and actions are different
- View the "consoles" of these two users



Scenario 8: Detailed Steps

Create or view a file of test messages

xedit test consdata a

- Notice the "hello" message in the file

From a z/VM user ID, send the test file to Operations Manager

Send it twice, specifying two different "owning" user IDs. One generates a message and one doesn't:

gomrsif test consdata a 9.39.64.72 63000 tstadmn8

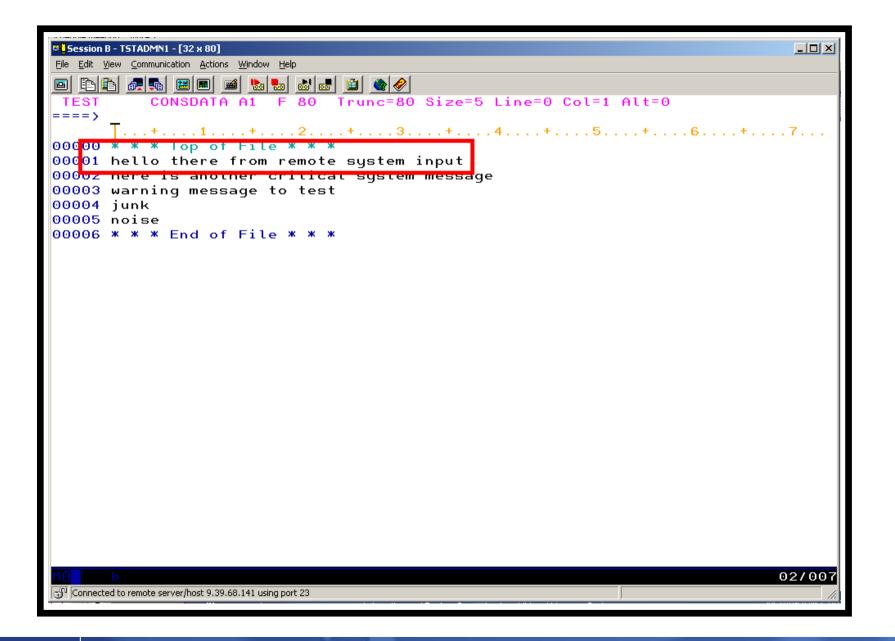
gomrsif test consdata a 9.39.64.72 63000 tstuser8

From an authorized z/VM user ID, view the consoles of the owning user IDs:

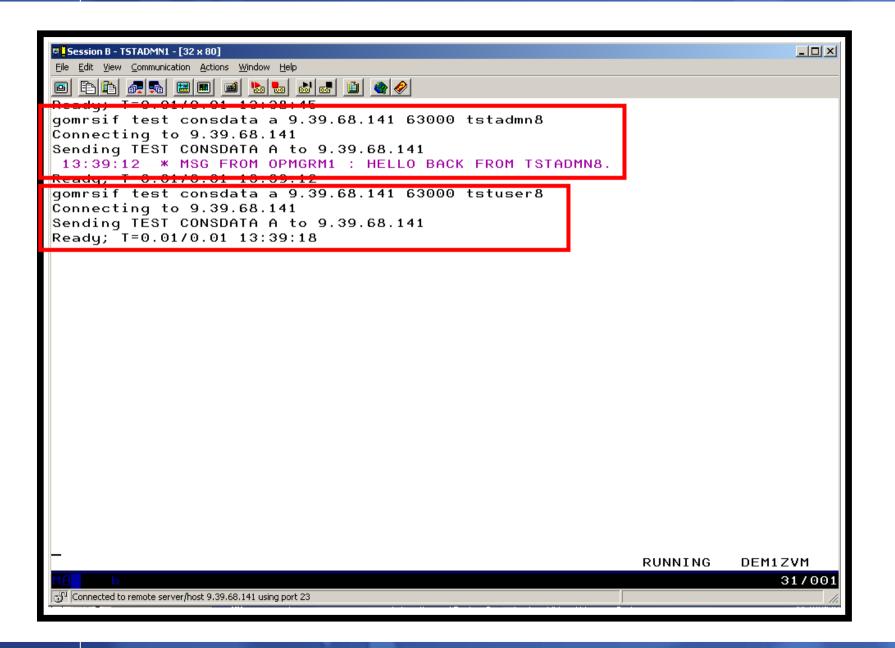
gomcmd opmgrm1 viewcon user(tstadmn8)

gomcmd opmgrm1 viewcon user(tstuser8)

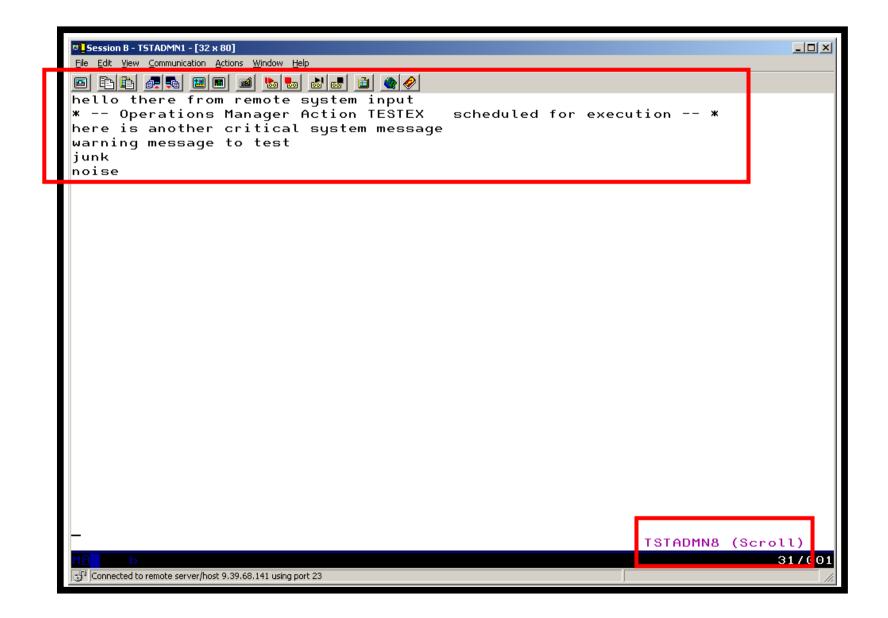
ten	<u>tem</u>	_	
	lem	-	



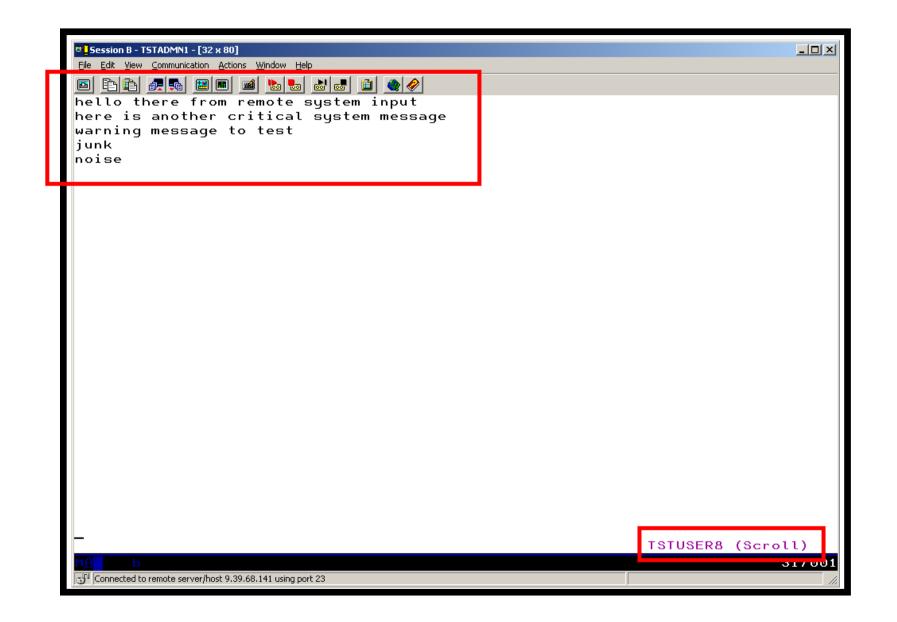
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Scenario 8: How Do You Do That?

Console rule and action in Operations Manager:

```
DEFRULE NAME(TESTEX),+
```

```
MATCH(*HELLO*),+
```

```
MCOL(001:030),+
```

```
ACTION(TESTEX),+
```

```
EXGROUP(TSTUSERS)
```

*

*

DEFACTN NAME(TESTEX),+

COMMAND(CP MSG TSTADMN1 HELLO BACK FROM &U.),+

OUTPUT(LOG),+

ENV(LVM)



Scenario 8: How Do You Do That?

Set up TCP/IP listener for test data and define group of consoles:

```
*
DEFTCPA NAME(TESTDATA),+
TCPUSER(TCPIP),+
TCPAPPL(GOMRSIF),+
TCPADDR(000.000.000.000),+
TCPPORT(63000)
*
DEFGROUP NAME(TSTUSERS),+
```

USER(TSTUSER*)

Update TCP/IP configuration to allow Operations Manager to listen on the specified port



Scenario 9: Process Linux Syslog Data as a Console

- Route syslog data from a Linux guest to Operations Manager for z/VM
 - Supports syslogd, syslog-ng, rsyslog
 - syslog-ng and rsyslog include hostname or IP address in message
- Treat it as the console of a "fake" user ID
- Trigger rules and actions based on syslog data
- View the "console" containing syslog data
- Option to create one console per syslog or combine multiple syslogs into one console



Scenario 9: Detailed Steps

 From an authorized z/VM user ID, view any syslog data already received

gomcmd opmgrm1 viewcon user(lxsyslog)

- Use PUTTY to connect to a Linux guest
- Login as root and issue the command

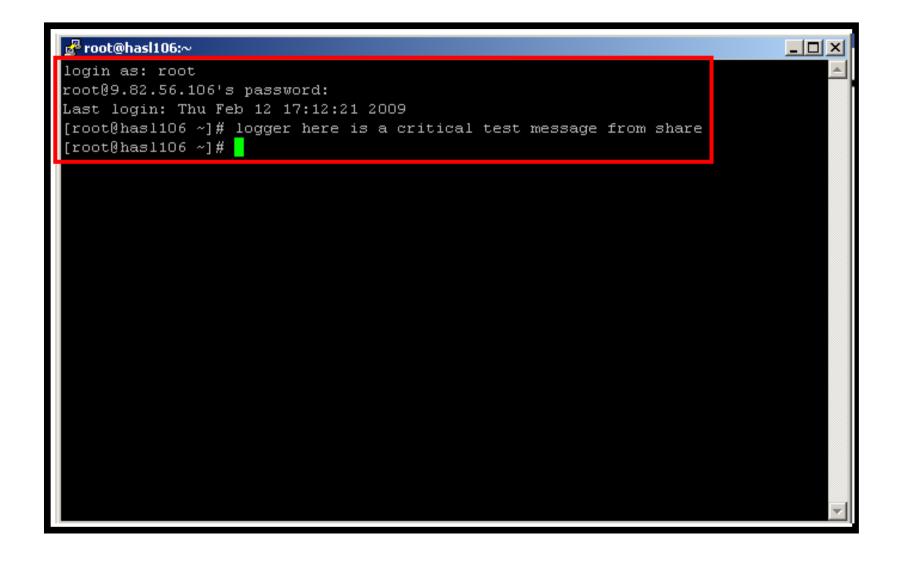
logger here is a critical test message from SHARE

- Return to the VIEWCON session
 - See the message in the syslog "console"
 - Using syslog, so no hostname or IP address
- Repeat from a different Linux guest that uses syslog-ng

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Session B - TSTADMN1 - [32 x 80]
Elle Edit View Communication Actions Window Help
14:59:47 <78>crond[17539]: (root) CMD (run-parts /etc/cron.hourly).
15:59:46 <78>crond[19771]: (root) CMD (run-parts /etc/cron.hourly).
16:59:46 <78>crond[21997]: (root) CMD (run-parts /etc/cron.hourly).
17:59:46 <78>crond[24224]: (root) CMD (run-parts /etc/cron.hourly).
18:59:47 <78>crond[26456]: (root) CMD (run-parts /etc/cron.hourly).
19:59:46 <78>crond[28682]: (root) CMD (run-parts /etc/cron.hourly).
20:59:46 <78>crond[30908]: (root) CMD (run-parts /etc/cron.hourly).
21:59:47 <78>crond[672]: (root) CMD (run-parts /etc/cron.hourly).
22:59:47 <78>crond[2945]: (root) CMD (run-parts /etc/cron.hourly).
23:59:47 <78>crond[5171]: (root) CMD (run-parts /etc/cron.hourly).
00:59:46 <78>crond[7397]: (root) CMD (run-parts /etc/cron.hourly).
01:59:46 <78>crond[9629]: (root) CMD (run-parts /etc/cron.hourly).
02:59:46 <78>crond[11855]: (root) CMD (run-parts /etc/cron.hourly).
03:00:46 <78>crond[11893]: (root) CMD (run-parts /etc/cron.daily).
03:00:46 <77>anacron[11897]: Updated timestamp for job `cron.daily' to 2009-03-
03:00:47 <22>sendmail[12016]: n239210V012016: from=root, size=1043, class=0, nr
03:00:48 <22>sendmail[12018]: n23921Dx012018: from= <root@hasl106.wsclab.washing< th=""></root@hasl106.wsclab.washing<>
03:00:48 <22>sendmail[12016]: n239210V012016: to=root, ctladdr=root (0/0), dela
03:00:48 <22>sendmail[12019]: n23921Dx012018: to= <root@hasl106.wsclab.washingto 03:59:47 <78>crond[14346]: (root) CMD (run-parts /etc/cron.hourly).</root@hasl106.wsclab.washingto
03.59.47 (Ta)crond[14348]. (root) CHD (run-parts /etc/cron.hourty). 04:59:46 (78)crond[16578]: (root) CMD (run-parts /etc/cron.hourly).
05:59:46 (78)crond[18804]: (root) CMD (run-parts /etc/cron.hourly).
06:59:46 <78>crond[21030]: (root) CMD (run-parts /etc/cron.hourly).
07:59:47 <78>crond[23256]: (root) CMD (run-parts /etc/cron.hourly).
08:59:47 <78>crond[25489]: (root) CMD (run-parts /etc/cron.hourly).
09:59:46 <78>crond[27715]: (root) CMD (run-parts /etc/cron.hourly).
10:59:47 <78>crond[29941]: (root) CMD (run-parts /etc/cron.hourly).
11:59:47 <78>crond[32167]: (root) CMD (run-parts /etc/cron.hourly).
12:59:46 <78>crond[1967]: (root) CMD (run-parts /etc/cron.hourly).
13:59:46 <78>crond[4204]: (root) CMD (run-parts /etc/cron.hourly).
LXSYSLOG (Scroll)
Connected to remote server/host 9.39.68.141 using port 23
U Connecteu to remote server/nost 9/05/00/141 dsing port 20

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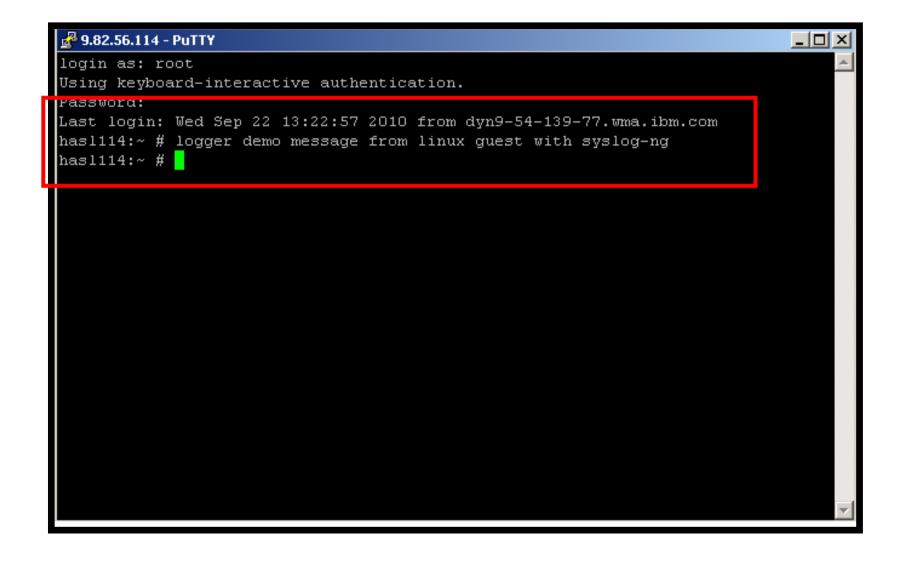
Session B - TSTADMN1 - [32 x 80]
<u>File Edit View Communication Actions Window Help</u>
18:59:47 <78>crond[26456]: (root) CMD (run-parts /etc/cron.hourly).
19:59:46 <78>crond[28682]: (root) CMD (run-parts /etc/cron.hourly).
20:59:46 <78>crond[30908]: (root) CMD (run-parts /etc/cron.hourly).
21:59:47 <78>crond[672]: (root) CMD (run-parts /etc/cron.hourly).
22:59:47 <78>crond[2945]: (root) CMD (run-parts /etc/cron.hourly).
23:59:47 <78>crond[5171]: (root) CMD (run-parts /etc/cron.hourly).
00:59:46 <78>crond[7397]: (root) CMD (run-parts /etc/cron.hourly).
01:59:46 <78>crond[9629]: (root) CMD (run-parts /etc/cron.hourly).
02:59:46 <78>crond[11855]: (root) CMD (run-parts /etc/cron.hourly).
03:00:46 <78>crond[11893]: (root) CMD (run-parts /etc/cron.daily).
03:00:46 <77>anacron[11897]: Updated timestamp for job `cron.daily' to 2009-03-
03:00:47 <22>sendmail[12016]: n239210V012016: from=root, size=1043, class=0, nr
03:00:48 <22>sendmail[12018]: n23921Dx012018: from= <root@hasl106.wsclab.washing< th=""></root@hasl106.wsclab.washing<>
03:00:48 <22>sendmail[12016]: n239210V012016: to=root, ctladdr=root (0/0), dela
03:00:48 <22>sendmail[12019]: n23921Dx012018: to= <root@hasl106.wsclab.washingto< th=""></root@hasl106.wsclab.washingto<>
03:59:47 <78>crond[14346]: (root) CMD (run-parts /etc/cron.hourly).
04:59:46 <78>crond[16578]: (root) CMD (run-parts /etc/cron.hourly).
05:59:46 <78>crond[18804]: (root) CMD (run-parts /etc/cron.hourly).
06:59:46 <78>crond[21030]: (root) CMD (run-parts /etc/cron.hourly).
07:59:47 <78>crond[23256]: (root) CMD (run-parts /etc/cron.hourly).
08:59:47 <78>crond[25489]: (root) CMD (run-parts /etc/cron.hourly).
09:59:46 <78>crond[27715]: (root) CMD (run-parts /etc/cron.hourly).
10:59:47 <78>crond[29941]: (root) CMD (run-parts /etc/cron.hourly).
11:59:47 <78>crond[32167]: (root) CMD (run-parts /etc/cron.hourly).
12:59:46 <78>crond[1967]: (root) CMD (run-parts /etc/cron.hourly).
13:59:46 (78)crond[4204]: (root) CMD (run-parts /etc/cron.hourly).
14:14:13 (86)sshd[4731]: Accepted password for root from 9.49.128.169 port 2403
14:14:13 <86>sshd[4731]: pam_unix(sshd:session): session opened for user root b
14:14:58 <13>root: here is a critical test message from share. 14:14:58 * Operations Manager Action LXLOG scheduled for execution *
14.14.00 m Operations hanager Hotion Exclose Scheduled for execution *
- LXSYSLOG (Scroll)
MA b 31/001
Gr Connected to remote server/host 9.39.68.141 using port 23

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Session B - TSTADMN1 - [32 x 80] Eile Edit View Communication Actions Window Help		<u>×</u>
■ E R R R R R R R R R R R R R R R R R R	3>ROOT: HER	E IS A CRI
	RUNNING	DEM1ZVM
TLE D [맛] Connected to remote server/host 9.39.68.141 using port 23		31/001

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D Session A - TSTADMN1 - [32 x 80]
File Edit View Communication Actions Window Help
<46>Oct 27 13:16:08 omegln×1 MARK
<46>Oct 27 13:16:08 omeglnx1 syslog-ng[1301]: Log statistics; dropped='pipe(/de
<46>Oct 27 13:36:08 omeglnx1 MARK
<45>Oct 27 14:43:49 hasl114 syslog-ng[1433]: STATS: dropped 0.
<46>Oct 27 13:56:08 omegln×1 MARK
<46>Oct 27 14:16:08 omegln×1 MARK
<pre><46>Oct 27 14:16:08 omeglnx1 syslog-ng[1301]: Log statistics; dropped='pipe(/de</pre>
<46>Oct 27 14:36:08 omegln×1 MARK
<pre><35>0ct 27 15:42:44 hasl114 sshd[7320]: error: PAM: Authentication failure for</pre>
<pre><45>0ct 27 15:43:49 hasl114 syslog-ng[1433]: STATS: dropped 1.</pre>
<pre>(34)Oct 27 15:44:38 hasl114 sshd[7320]: fatal: Timeout before authentication fo</pre>
<pre>* Operations Manager Action MSGOPER8 scheduled for execution * (00) 0 + 07 45 44 00 + 1444 + 1570001;</pre>
<pre>{83>0ct 27 15:44:38 has1114 sshd[7323]: pam_unix2(sshd:auth): conversation fail {25>0ct 27 15:44:28 has1114 sshd[7222]: same site</pre>
<pre><35>0ct 27 15:44:38 hasl114 sshd[7323]: error: ssh_msg_send: write.</pre>
<46>Oct 27 14:56:08 omegln×1 MARK <46>Oct 27 15:16:08 omegln×1 MARK
<pre><46>Oct 27 15:16:08 omeginx1 == NHKK ==: <46>Oct 27 15:16:08 omeginx1 syslog-ng[1301]: Log statistics; dropped='pipe(/de</pre>
<pre><46>Oct 27 15:18:08 omegthx1 system="right">system="right"</pre>
<45>0ct 27 15:38:08 0megtix1
<46>Oct 27 15:56:08 omeglnx1 MARK
(46) Oct 27 16:16:08 omegln×1 MARK
<pre><46>Oct 27 16:16:08 omeglnx1 syslog-ng[1301]: Log statistics; dropped='pipe(/de</pre>
<pre><46>Oct 27 16:36:08 omeginx1 == MARK ==.</pre>
<45>Oct 27 17:43:49 hasl114 syslog-ng[1433]: STATS: dropped 0.
<46>Oct 27 16:56:08 omegln×1 MARK
<46>Oct 27 17:16:08 omegln×1 MARK
<pre><46>Oct 27 17:16:08 omeglnx1 syslog-ng[1301]: Log statistics; dropped='pipe(/de</pre>
<46>0ct 27 17:36:08 omegln×1 MARK
(38) Oct 27 18:32:17 has 1114 cond[8168]: Accounted keyboard-interactive/nam for r
<13>Oct 27 18:32:35 hasl114 root: demo message from linux guest with syslog-ng.
LXSYSLG2 (Scroll)
MA a 317001
Connected to remote server/host 9.39.68.141 using port 23

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Session A - TSTADMN1 - [32 x 80]		
File Edit View Communication Actions Window Help		
Ready; T=0.01/0.01 17:08:19		
GOMCMD OPMGRM1 VIEWCON USER(LXSYSLg2),mode(rdr)		
RDR FILE 0135 SENT FROM OPMGRM1 PRI WAS 0004 RECS 0663 CP Readu: T=0.01/0.01 17:38:25	Y 001 A NOHOLD	NOKEEP
receive 135 (rep		
DMSRDC738I Record length is 204 bytes		
VIEWCON LXSYSLG2 A1 replaced		
File VIEWCON LXSYSLG2 A1 received from OPMGRM1 at DEM1ZVM G2 A	sent as VIEWCON	LXSYSI.
Readu: T=0.01/0.01 17:38:32		
	RUNNING DEM1	ZVM
ripe a		31/001
🕤 Connected to remote server/host 9.39.68.141 using port 23		1.

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<u> </u>	_	

🔊 Session A - TSTADMN1 - [32 x 80]
File Edit View Communication Actions Window Help
VIEWCON LXSYSLG2 A1 F 204 Trunc=204 Size=663 Line=0 Col=1 Alt=0
====)
T+1+2+3+4+5+6+7
===== * * * Top of File * * *
===== 10/22/2010 11:39:59 <43>0ct 22 12:34:53 hasl114 syslog-ng[1433]: Connect
===== 10/22/2010 11:47:31 <45>0ct 22 12:43:25 hasl114 syslog-ng[1433]: STATS:
===== 10/22/2010 11:57:08 <46>Oct 22 11:56:07 omegln×1 MARK
===== 10/22/2010 11:57:08 <43>Oct 22 11:56:07 omeglnx1 syslog-ng[1301]: I/O er
===== 10/22/2010 11:57:08 <43>Oct 22 11:56:07 omeglnx1 syslog-ng[1301]: Connec
===== 10/22/2010 12:05:21 <12>Oct 22 13:01:15 hasl114 zmd: ShutdownManager (WA
===== 10/22/2010 12:05:21 <12>Oct 22 13:01:15 hasl114 zmd: ShutdownManager (WA ===== 10/22/2010 12:16:08 <46>Oct 22 12:16:07 omeglnx1 MARK
===== 10/22/2010 12:16:08 <46>0ct 22 12:16:07 omegln×1 MARK ===== 10/22/2010 12:16:08 <46>0ct 22 12:16:07 omegln×1 syslog-ng[1301]: Log st
===== 10/22/2010 12:36:08 (46)0ct 22 12:36:07 omeginx1 systog-ng[1301]: Log st
===== 10/22/2010 12:47:31 (45)Oct 22 13:43:25 hasl114 syslog-ng[1433]: STATS:
===== 10/22/2010 12:56:08 <46>0ct 22 12:56:07 omeglnx1 MARK
===== 10/22/2010 13:16:08 <46>Oct 22 13:16:07 omeglnx1 MARK
===== 10/22/2010 13:16:08 (46)Oct 22 13:16:07 omeglnx1 syslog-ng[1301]: Log st
===== 10/22/2010 13:36:08 <46>Oct 22 13:36:07 omeglnx1 MARK
===== 10/22/2010 13:47:31 <45>0ct 22 14:43:25 hasl114 syslog-ng[1433]: STATS:
===== 10/22/2010 13:56:08 <46>Oct 22 13:56:07 omegln×1 MARK
===== 10/22/2010 14:16:08 <46>Oct 22 14:16:07 omeglnx1 MARK
===== 10/22/2010 14:16:08 <46>Oct 22 14:16:07 omeglnx1 syslog-ng[1301]: Log st
===== 10/22/2010 14:36:08 <46>0ct 22 14:36:07 omeglnx1 MARK
===== 10/22/2010 14:47:31 <45>0ct 22 15:43:25 hasl114 syslog-ng[1433]: STATS:
===== 10/22/2010 14:56:08 <46>0ct 22 14:56:07 omeglnx1 MARK
===== 10/22/2010 15:16:08 <46>0ct 22 15:16:07 omeglnx1 MARK
===== 10/22/2010 15:16:08 <46>0ct 22 15:16:07 omeglnx1 syslog-ng[1301]: Log st
===== 10/22/2010 15:36:08 <46>Oct 22 15:36:07 omeglnx1 MARK
===== 10/22/2010 15:47:31 <45>0ct 22 16:43:26 hasl114 syslog-ng[1433]: STATS:
MA a 02/007
🖓 Connected to remote server/host 9.39.68.141 using port 23



Scenario 9: How Do You Do That?

Console rule and action in Operations Manager:

```
*
DEFRULE NAME(LXLOG),+
MATCH(*critical test message*),+
ACTION(LXLOG),+
USER(LXSYSLOG)
*
DEFACTN NAME(LXLOG),+
COMMAND(CP MSG TSTADMN1 Got a critical message '&T' from &U.),+
OUTPUT(LOG),+
ENV(LVM)
```



Scenario 9: How Do You Do That?

Set up TCP/IP listener for syslog data

```
*
DEFTCPA NAME(LNXSYSLG),+
TCPUSER(TCPIP),+
TCPAPPL(GOMRSYL),+
TCPADDR(000.000.000.000),+
TCPPORT(00514),+
PARM(LXSYSLOG03330417UTF8)
*
DEFTCPA NAME(LNXSYSL2),+
TCPUSER(TCPIP),+
TCPAPPL(GOMRSYL),+
TCPADDR(000.000.000),+
TCPPORT(00515),+
PARM(LXSYSLG203330417UTF8)
```

Update TCP/IP configuration to allow Operations Manager to listen for UDP traffic on the specified port(s)

- Ports 514 and 515 used here

 Update the Linux guest to send its syslog data to the IP address and port of your z/VM system

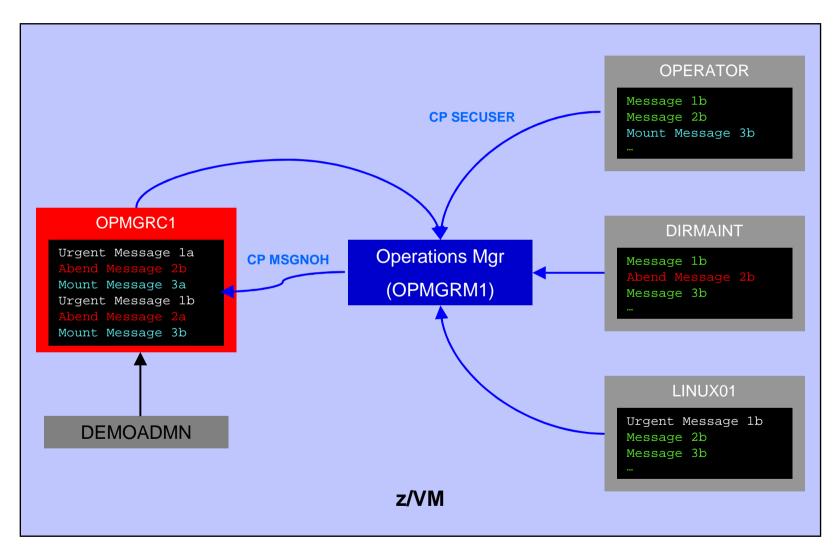


Scenario 10:

Create a Central Operations Console on One z/VM System

- Use Operations Manager to watch for error, warning, fatal messages on service machine consoles
 - DIRMAINT, TCP/IP, RACF, etc.
 - Linux guests
 - Linux syslog
- Route these messages to a central operations console
- Operations staff watches operations console for signs of trouble
 - View individual service machine consoles for more details when needed

Creating a Central Console on One z/VM System





Scenario 10: Detailed Steps

From an authorized z/VM user ID, put "abend", "fatal", and error messages on DIRMAINT console

msgnoh dirmaint this is a test abend message
msgnoh dirmaint this is a fake fatal message
msgnoh dirmaint DMSxxxxxxE here is a made-up CMS error msg

View the "Operations Console" to see the messages

gomcmd opmgrm1 viewcon user(oper8)

 Note the fatal message is red and abend message is highlighted and will be held when other messages come in



Scenario 10: Detailed Steps

From another user ID, run an EXEC to send multiple messages to the Operations Console

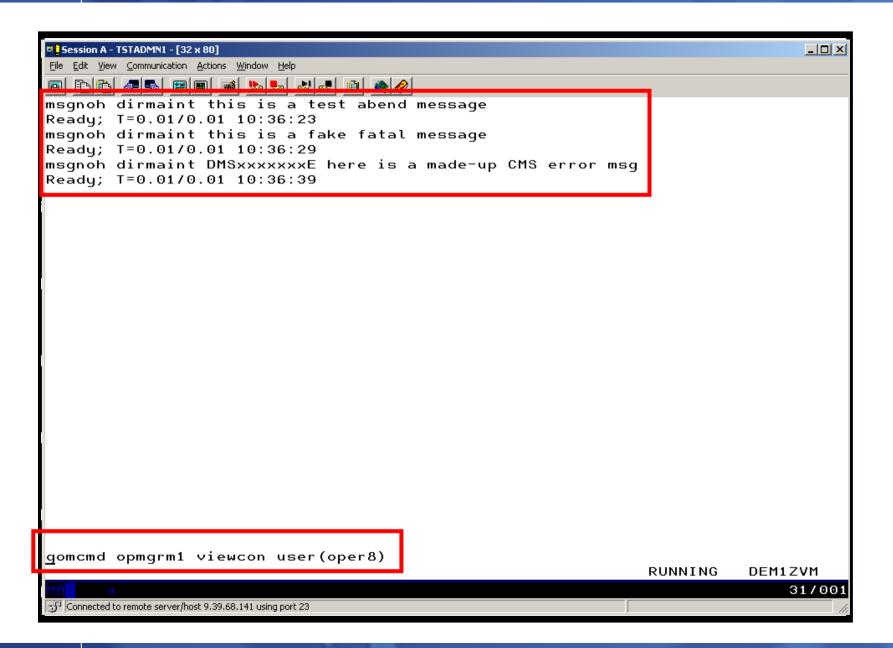
lotsmsgs

View the "Operations Console" to see the messages

gomcmd opmgrm1 viewcon user(oper8)

Watch the scrolling, held messages, etc.

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Session A - TSTADMN1 - [32 x 80]		
File Edit View Communication Actions Window Help		
o F1 f1 sz		
11:54:03 A FAKE ABEND HAS OCCURRED		
14:13:50 A fake abend has occurred		
14:14:32 This is standard non scary message 17		
14:14:33 This is standard non scary message 18		
14:14:34 This is standard non scary message 19		
14:14:35 This is standard non scary message 20		
14:14:36 This is standard non scary message 21		
14:14:37 This is standard non scary message 22		
14:14:38 This is standard non scary message 23		
14:14:39 This is standard non scary message 24		
14:14:39 This is standard non scary message 25		
14:14:41 This is standard non scary message 26		
14:14:42 This is standard non scary message 27		
14:14:42 This is standard non scary message 28		
14:14:43 This is standard non scary message 29		
14:14:44 This is standard non scary message 30 14:14:46 This is standard non scary message 31		
14:14:47 This is standard non scary message 32		
14:14:48 This is standard non scary message 32		
14:14:49 This is standard non scary message 34		
14:14:50 This is standard non scary message 35		
17:39:47 DIRMAINT : TEST MESSAGE WITH FATAL TEXT		
17:40:26 DIRMAINT : TEST MESSAGE WITH ABEND TEXT		
00:00:00 HCPMID6001I TIME IS 00:00:00 CDT FRIDAY 10/02/0)9	
00:00:00		
23:59:59 HCPMID6001I TIME IS 00:00:00 CDT SATURDAY 10/03	3709	
23:59:59		
10:36:23 DIRMAINT : THIS IS A TEST ABEND MESSAGE		
10:36:28 DIRMAINT : THIS IS A FAKE FATAL MESSAGE		
10:36:39 DIRMAINT : DMSXXXXXXE HERE IS A MADE-UP CMS ERF	R MSG	
	0PER8	(Scroll)
	VICENO	31/001
·····································		517001
D. Leonnecced to remote server/most prop/141 qsilld but 59		11.

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	 = 7 =

Session B - TEC1ZVM - [32 x 80]		
<u>File Edit View Communication Actions Window</u>		
lotsmsgs_	RUNN	
Connected to remote server/host 9.39.68.141 usin	g port 23	31/009

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C_Session A - TSTADMN1 - [32 x 80]	_ _ X
File Edit View Communication Actions Window Help	
11:54:03 A FAKE ABEND HAS OCCURRED	
14:13:50 A fake abend has occurred	
17:40:26 DIRMAINT : TEST MESSAGE WITH ABEND TEXT	
10:36:23 DIRMAINT : THIS IS A TEST ABEND MESSAGE	
10:46:16 A fake abend has occurred	
10:46:23 This is standard non scary message 8	
10:46:25 This is standard non scary message 9	
10.40.20 This is standard non scary message io	
10:46:26 This is standard non scary message 11	
10:46:27 This is standard non scary message 12 10:46:28 This is standard non scary message 13	
10:46:29 This is standard non scary message 13	
10:46:30 This is standard non scary message 15	
10:46:31 This is standard non scary message 16	
10:46:32 This is standard non scary message 17	
10:46:33 This is standard non scary message 18	
10:46:34 This is standard non scary message 19	
10:46:35 This is standard non scary message 20	
10:46:36 This is standard non scary message 21	
10:46:37 This is standard non scary message 22	
10:46:38 This is standard non scary mossage 23	
10:46:39 This is standard non scary message 24	
10:46:40 This is standard non scary message 25	
10:46:41 A fake fatal message 10:46:42 This is standard non scary message 1	
10:46:43 This is standard non scary message 2	
10:10:11 This is standard non scary message 0	
10:46:45 This is standard non scary message 4	
l0:46:47 This is standard non scary message 5	
10:46:48 This is standard non scarý message 6	
	OPER8 (Scroll)
	31/00:
Gonnected to remote server/host 9.39.68.141 using port 23	

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2 <mark>2</mark> Session A - TSTADMN1 - [32 × 80] File Edit View Communication Actions Window <u>H</u> elp		
1:54:03 A FAKE ABEND HAS OCCURRED		
4:13:50 A fake abend has occurred		
.7:40:26 DIRMAINT : TEST MESSAGE WITH ABEND TEXT .0:36:23 DIRMAINT : THIS IS A TEST ABEND MESSAGE		
0:36:23 DIRNHINT . THIS IS H TEST HDEND NESSAGE 0:46:16 A fake abend has occurred		
10:46:52 This is standard non scary message 11		
10:46:53 This is standard non scary message 12		
10:46:54 This is standard non scary message 13		
10:46:55 This is standard non scary message 14		
10:46:56 This is standard non scary message 15 10:46:57 This is standard non scary message 16		
10:46:57 This is standard non scary message 18 10:46:58 This is standard non scary message 17		
10:46:59 This is standard non scary message 18		
10:47:00 This is standard non scary message 19		
10:47:01 This is standard non scary message 20		
10:47:02 This is standard non scary message 20		
10:47:03 This is standard non scary message 22		
10:47:04 This is standard non scary message 22		
10:47:05 This is standard non scary message 24		
10:47:06 This is standard non scary message 25		
10:47:07 This is standard non scary message 26		
10:47:09 This is standard non scary message 27		
10:47:10 This is standard non scary message 28		
10:47:10 This is standard non scary message 29		
10:47:11 This is standard non scary message 30		
10:47:12 This is standard non scary message 31		
10:47:13 This is standard non scary message 32		
l0:47:14 This is standard non scary message 33		
10:47:15 This is standard non scary message 34		
10:47:16 This is standard non scary message 35		
-	0PER8	(Scroll)
1A a		31/00
ហ្វី Connected to remote server/host 9.39.68.141 using port 23		



Scenario 10: How Do You Do That?

Console rules in Operations Manager:

```
DEFRULE NAME(ABEND),+
MATCH(*abend*),+
EXUSER(OPER8),+
ACTION(MSGOPER8)
```

*

*

*

```
DEFRULE NAME(FATAL),+
MATCH(*fatal*),+
EXUSER(OPER8),+
ACTION(MSGOPER8)
```

Action in Operations Manager:

*

```
DEFACTN NAME(MSGOPER8),+
COMMAND(CP MSGNOH OPER8 &U : &T),+
OUTPUT(LOG),+
ENV(LVM)
```

```
DEFRULE NAME(EMSGS),+
MATCH(DMS*E),+
MCOL(001:011),+
EXUSER(OPER8),+
ACTION(MSGOPER8)
```



Scenario 10: How Do You Do That?

Console rules in Operations Manager:

```
DEFRULE NAME(ABENDHLT),+
```

MATCH(*abend*),+

USER(OPER8),+

ACTION(HLTHOLD)

```
*
```

*

```
DEFRULE NAME(FATALRED),+
MATCH(*fatal*),+
USER(OPER8),+
```

ACTION(RED)

Actions in Operations Manager:

```
*
DEFACTN NAME(HLTHOLD),+
   INPUT(AHI,HLD)
*
DEFACTN NAME(HILITE),+
   INPUT(AHI)
```

```
*
```

DEFACTN NAME(RED),+

INPUT(CRE)

IBM Software



Scenario 11a:

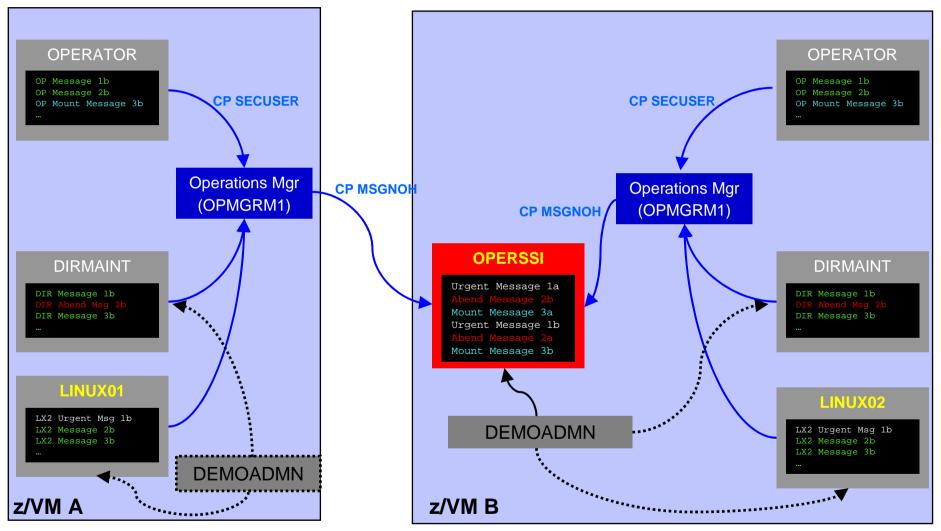
Create a Central Operations Console across multiple z/VM systems in an SSI cluster – Includes relocation of Linux and CMS guests

- Use Operations Manager to watch for error, warning, fatal messages on service machine consoles on one or more systems in an SSI cluster
 - OPERATOR, DIRMAINT, TCPIP, RACF, etc.
 - Linux guests
 - Linux syslog
- Route these messages to a central operations console on one of the z/VM systems
- Operations staff watches one operations console for signs of trouble across multiple z/VM systems
 - View individual service machine consoles for more details when needed

IBM Software

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Creating a Central Console Across Multiple Members of SSI Cluster



Single Configuration Users: LINUX01, LINUX02, OPERSSI, DEMOADMN Multiconfiguration (IDENTITY) Users: OPERATOR, DIRMAINT, OPMGRM1



Scenario 11a: Detailed Steps

On System B (TEST7SSI), view the "Operations Console" (user ID OPERSSI)

gomcmd opmgrm1 viewcon user(operssi)

 On System A (TEST7SSI), find a Linux guest running disconnected locally and relocate it

q names

VMRELOCATE MOVE USER RHEL5G TO TESTCSSI

 On System B (TEST7SSI), prepare for planned shutdown by relocating the central operations console (OPERSSI)

VMRELOCATE MOVE USER OPERSSI TO TESTCSSI

- Note the messages received on OPERSSI on TEST7SSI from OPERATOR on both TESTCSSI and TEST7SSI indicating RHEL5G was relocated
- Note the message received on OPERSSI on TESTCSSI indicating OPERSSI has been relocated

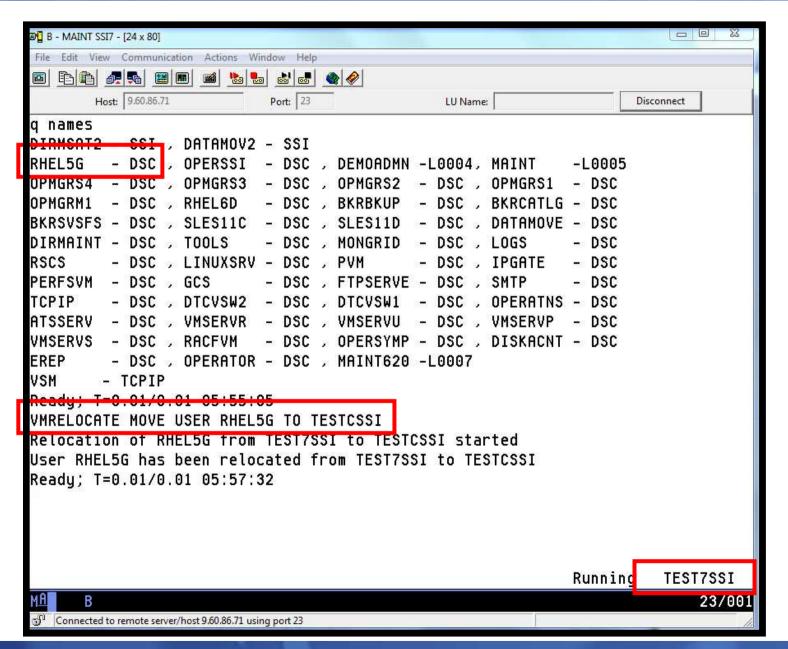


34 B - DEMOADMN SSI7 - [24 x 80]		
File Edit View Communication Actions Window Help	ii	
Host: 9.60.86.71 Port: 23	LU Name:	Disconnect
id		
DEMOADMN AT TEST7SSI VIA RSCS	08/07/12 15:20:24 EDT	TUESDAY
Ready; T=0.01/0.01 15:20:24		
~~~		
GOMCMD OPMGRM1 VIEWCON USER(O	PERSSI)	
		Running TEST7SSI
мА В		23/037
Connected to remote server/host 9.60.86.71 using port 23		

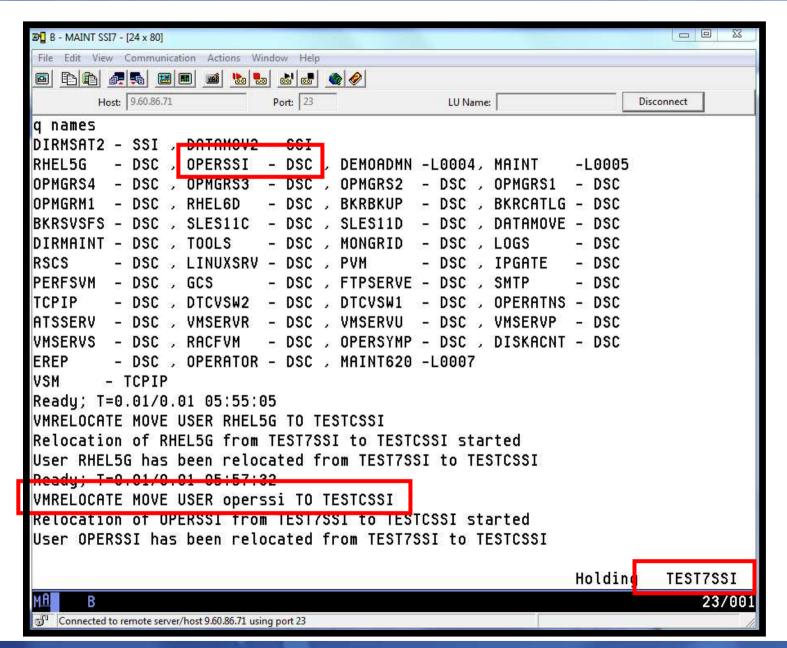
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				ndow Help						
		-	🛋 ⊵ 🍡		-				(	
	Host: 9.60.			Port: 23		LU Nam			Disconne	ct
						d from TEST				TEOTO
						er OPERSSI er OPERSSI				
						tion for RH				
						ation for R				
						er RHEL5G h				
5:51:0	19 From	OPERA	TOR on	TESTCSS	I : Us	er RHEL5G h	as been r	elocat	ed from	TESTCS
PE01=	SCROLL	PE02=		PF03=	END	PF04=	PF05=	HOLD	PE06=	FORMAT
PF07=		PF08=		PF09=	LIND	PF10= LEFT				RECALL
	Dat 8	Can Bergard	ANTING OF L	CH PROPERTY						
								OPERS	SI (Sc	roll)











B A - DEMOADMN SSI7 -	[32 x 80]				
File Edit View Comn	nunication Actions Wind	low Help			
🖻 🖻 🗖 🗖 🗖	🔳 🔳 🎽 🍉	💩 💩 🧶			
Host: 9.60.	86.71	Port: 23	LU Name:		Disconnect
05:50:32 From 05:50:32 From 05:51:08 From 05:51:08 From 05:51:09 From 05:51:09 From 05:57:31 From 05:57:31 From 05:57:32 From 05:57:32 From 05:57:32 From	OPERATOR on T OPERATOR on T TEST7SSI : In TESTCSSI : OC OPERATOR on T OPERATOR on T TEST7SSI : OC TESTCSSI : In OPERATOR on T OPERATOR on T OPERATOR on T EST79SI : OC	TESTCSSI : Us TEST7SSI : Us abound reloca atbound reloc TEST7SSI : Us TESTCSSI : Us atbound reloca TEST7SSI : Us TESTCSSI : Us	d from TESTCSSI er OPERSSI has er OPERSSI has tion for RHEL5G ation for RHEL5 er RHEL5G has b ation for RHEL5 tion for RHEL5G er RHEL5G has b er RHEL5G has b ation for OPERSS tion for OPERSS	been relocat on TESTCSS of on TESTTSS een relocate of on TESTCSS on TESTCSS on TESTCSS een relocate een relocate of on TESTCSS	ted from TESTC ted from TESTC Started SI started ed from TESTCS ed from TESTCS SI started t started ed from TEST7S ed from TEST7S
PF01= SCROLL PF07= UP	PF02= PF08= DOWN	PF03= END PF09=		PF05= HOLD PF11= RIGHT	PF06= FORMAT PF12= RECALL
				OPERSS	SI (Scroll)
M <u>A</u> A					31/001
Connected to remote	server/host 9.60.86.71 using	port 23			

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C - DEMOADM2 SSIC - [24 x 80]
le Edit View Communication Actions Window Help
Host: 9.60.86.170 Port: 23 LU Name: Disconnect
4:09:12 OPMGRS2 - DSC , OPMGRS1 - DSC , OPMGRM1 - DSC , BKRCATLG - DSC 4:09:12 BKRBKUP - DSC , DIRMSAT2 - DSC , RHEL5G - DSC , VMSERVR - DSC 4:09:12 DATAMOV2 - DSC , RSCS - DSC , PVM - DSC , PERFSVM - DSC 4:09:12 GCS - DSC , FTPSERVE - DSC , SMTP - DSC , TCPIP - DSC 4:09:12 DTCVSW2 - DSC , DTCVSW1 - DSC , OPERATNS - DSC , VMSERVU - DSC 4:09:12 VMSERVS - DSC , RACFVM - DSC , OPERSYMP - DSC , DISKACNT - DSC 4:09:12 EREP - DSC , OPERATOR - DSC , OPERSSI - DSC 4:09:12 Ready; T=0.01/0.01 14:09:12
4:09:15 * Operations Manager VIEWCON session from DEMOADMN entered the foll 4:09:15 id 4:09:15 OPERSSI AT TESTCSSI VIA RSCS 10/13/12 14:09:15 EDT SATURDAY 4:09:15 Ready; T=0.01/0.01 14:09:15 0:00:00 HCPMID6001I TIME IS 00:00:00 EDT SUNDAY 10/14/12 0:00:00
0:00:00 HCPMID6001I TIME IS 00:00:00 EDT MONDAY 10/15/12 0:00:00 0:00:00 HCPMID6001I TIME IS 00:00:00 EDT TUESDAY 10/16/12 0:00:00
5:59:34 User OPERSSI has been relocated from TEST7SSI to TESTCSSI PF01= S <u>CROLL PE02= PE03= END PE04= PE05= HOLD PE</u> 06= FORMAT PF07= UP PF08= DOWN PF09= PF10= LEFT PF11= RIGHT PF12= RECALL
OPERSSI (Scroll)
A C 23/001
Connected to remote server/host 9.60.86.170 using port 23



## Scenario 11a: How Do You Do That?

#### **Event monitor in Operations Manager:**

```
*
*
*
Notify OPERSSI console when relocations started
DEFEMON NAME(RELOC),+
TYPE(9,10),+
ACTION(RELOC)
```

#### **Action in Operations Manager:**

```
*
DEFACTN NAME(RELOC),+
COMMAND(EXEC MSG2OPER &u &3 &4 &5 junk),+
ENV(LVM)
```



## Scenario 11a: How Do You Do That?

#### **MSG2OPER EXEC (excerpts):**

```
Send a message to a central console OPERSSI for SSI cluster
/*
                                                                     */
/*
                                                                     */
trace r
Address Command
Parse arg userid euser event sourcesys msgtext
/* Get local TCP/IP hostname */
parse value Search_TCPIP_Data("hostname") with getrc tcphostname .
if getrc > 4 then tcphostname = "unknown host name"
if userid = ' GOMEMON' then
  do
    if event = 9 then
     msgtext = 'Outbound relocation for' euser 'on' sourcesys 'started'
    else
      msgtext = 'Inbound relocation for' euser 'on' sourcesys 'started'
    'CP MSGNOH OPERSSI AT TEST7SSI From' tcphostname ':' msgtext
  end
```



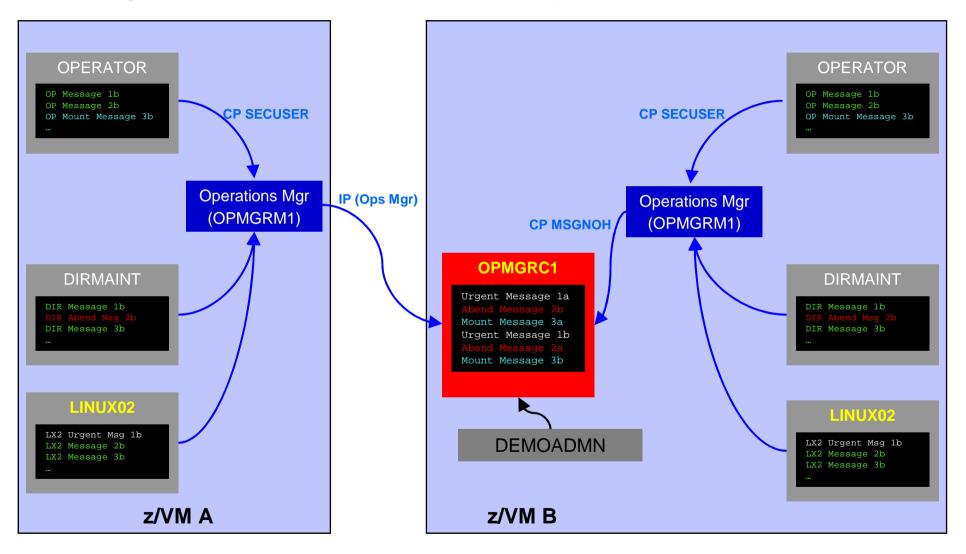
#### Scenario 11b:

Create a Central Operations Console across multiple z/VM systems that are **not in an SSI cluster** 

- Use Operations Manager to watch for error, warning, fatal messages on service machine consoles on one or more systems
  - OPERATOR, DIRMAINT, TCP/IP, RACF, etc.
  - Linux guests
  - Linux syslog
- Route these messages to a central operations console on one of the z/VM systems
- Operations staff watches one operations console for signs of trouble across multiple z/VM systems
  - View individual service machine consoles for more details when needed



### Creating a Central Console Across Multiple LPARS



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PL Session B - MAINT SSIC - [24 x 80]		
File Edit View Communication Actions Window Help		
<u> </u>		
msgnoh operator here is a test remote error message		
Ready; I=0.01/0.01 21:58:52		
gomcmd opmgrm1 viewcon user(operator)	<b>D</b>	TEATAAAA
	Running	TESTCSSI
MA b		23/038
ු Connected to remote server/host 9.60.86.170 using port 23		

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Session B - MAINT SSIC - [24 x 80]		
File Edit View Communication Actions Window Help		رقص فك رقت
AUTO LOGON *** OPMGRS1 USERS = 22 BY OPMGRM1		0
AUTO LOGON *** OPMGRS2 USERS = 23 BY OPMGRM1		
AUTO LOGON *** OPMGRS3 USERS = 24 BY OPMGRM1		
AUTO LOGON *** OPMGRS4 USERS = 25 BY OPMGRM1		
GRAF L0006 L0G0FF AS MAINT620 USERS = 24		
GRAF L0005 LOGON AS MAINT USERS = 25 FROM 9.65.15	1.67	
TESTING A REMOTE ERROR		
* Operations Manager Action MSG2SSI scheduled for executive scheduled fo	cution *	
HERE IS A TEST REMOTE ERROR MESSAGE		
* Operations Manager Action MSG2SSI scheduled for execution	cution *	
	OPERATOR	(Scroll)
M <u>A</u> b		23/001
G ^{n Connected} to remote server/host 9.60.86.170 using port 23		11



## **Scenario 11b: Detailed Steps**

- On System A (DEM1ZVM) put an "error" message on the OPERATOR console
  - Must contain the text "remote error"

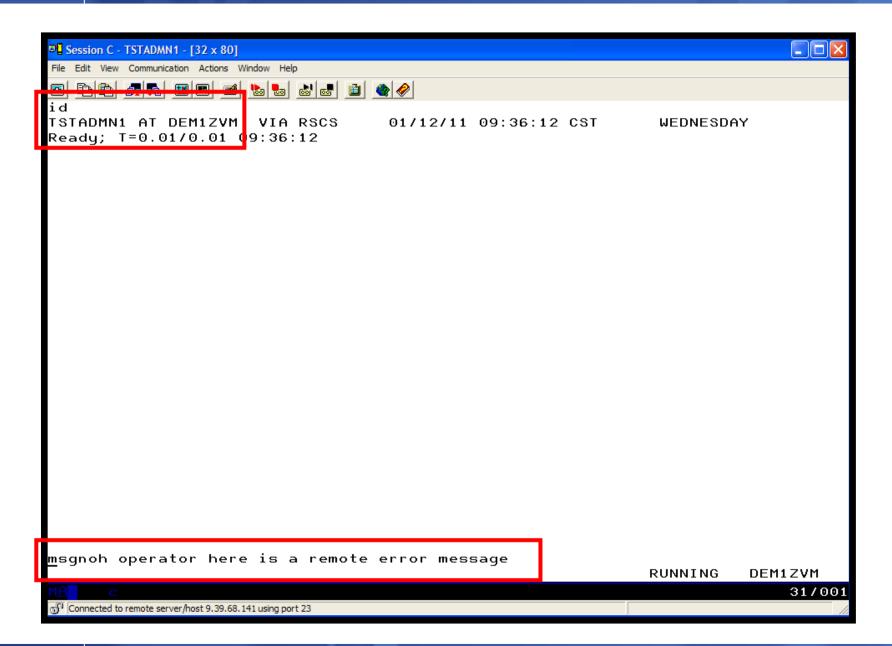
msgnoh operator here is a remote error message

 View the "Operations Console" (user ID OPMGRC1) on System B (ZVMV5R40) to see the message

gomcmd opmgrm1 viewcon user(opmgrc1)

Note the message received on OPMGRC1 on ZVMV5R40 from OPERATOR on DEM1ZVM

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<u> </u>	 

B - DEMOADMN ATS		
File Edit View Communication Actions Window Help		
<mark> </mark>		
id DEMOADMN AT ZVMV5R40 VIA RSCS 01/12/11 11:15:16 EDT Ready; T=0.01/0.01 1 :15:16	WEDNESDA	iΥ
gomcmd opmgrm1 viewcon user(opmgrc1)_	RUNNING	ZVMV5R40
M <u>A</u> b		31/037
Onnected to remote server/host 9.82.24.129 using port 23		11.

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_	

DEMOADMN ATS	
File Edit View Communication Actions Window Help	
00:00:00 HCPMID6001I TIME IS 00:00:00 EDT TUESDAY 01/04/11	_
00:00:00	
00:00:00 HCPMID6001I TIME IS 00:00:00 EDT WEDNESDAY 01/05/11	
00:00:00	
00:00:00 HCPMID6001I TIME IS 00:00:00 EDT THURSDAY 01/06/11	
00:00:00 00:00:00 HCPMID6001I TIME IS 00:00:00 EDT FRIDAY 01/07/11	
00:00:00	
00:00:00 HCPMID6001I TIME IS 00:00:00 EDT SATURDAY 01/08/11	
00:00	
00:00:00 HCPMID6001I TIME IS 00:00:00 EDT SUNDAY 01/09/11	
00:00:00	
00:00:00 HCPMID6001I TIME IS 00:00:00 EDT MONDAY 01/10/11	
00:00:00 00:00:00 HCPMID6001I TIME IS 00:00:00 EDT TUESDAY 01/11/11	
00:00:00 HCPHID80011 TINE 13 00:00 EDT TOESDAT 01/11/11	
21:56:42 hello there from remote system input	
21:56:42 * Operations Manager Action TESTEX2 scheduled for execution *	ĸ
21:56:42 hello there from remote system input	
21:56:42 * Operations Manager Action TESTEX scheduled for execution *	ĸ
21:56:42 here is another critical system message	
21:56:42 warning message to test	
21:56:42 junk 21:56:42 noise	
00:00:00 HCPMID6001I TIME IS 00:00:00 EDT WEDNESDAY 01/12/11	
00:00:00	
10:36:13 FROM DEM1ZVM: * MSG FROM TSTADMN1: error message on dem1zvm	
11:23:21 FROM DEM1ZVM: ERROR MESSAGE ON DEM1ZVM	
11.30.20 FROM OPERATOR ON DEMIZYM. HISONOH OPERATOR HERE IS A REMOTE ERROR MESSAGE 11:32:55 FROM OPERATOR ON DEM1ZVM: HERE IS A REMOTE ERROR MESSAGE	SSA
11.32.33 EKON UPEKHIUK UN DENIZYN, NEKE IS H KENULE EKKUK NESSHGE	
- OPMGRC1 (Scroll)	)
MA b 317	001
💬 Connected to remote server/host 9.82.24.129 using port 23	- //



# Scenario 11b: How Do You Do That?

### **Console rule in Operations Manager on System A:**

```
*
DEFRULE NAME(OPERMSGS),+
MATCH(*remote error*),+
USER(OPERATOR),+
ACTION(MSG2GBRG)
```

### Action in Operations Manager on System A:

*

DEFACTN NAME(MSG2GBRG),+

COMMAND(EXEC MSG2OPS OPMGRC1 From &u on DEM1ZVM: &t),+

OUTPUT(LOG),+

ENV(LVM)



## Scenario 11b: How Do You Do That?

### MSG2OPS EXEC on System A:

/* Send a message to a console in Ops Mgr on anoth	er system */
/*	* /
trace r	
Address Command	Central Console (OPMGRC1)
Parse arg cons_user msgtext	
'PIPE var msgtext   > TEMP NOTE A'	
'EXEC GOMRSIF TEMP NOTE A 9.82.24.129 63000' cons_u	ser
Exit	
IP address of Sys	stem B



# Scenario 11b: How Do You Do That?

### **TCP/IP** listener definition in Operations Manager on System B:

```
*
DEFTCPA NAME(TESTDATA),+
TCPUSER(TCPIP),+
TCPAPPL(GOMRSIF),+
TCPADDR(000.000.000.000),+
TCPPORT(63000)
```

- May also need to update TCP/IP on System B to allow Operations Manager to listen on port 63000
- Can alternatively use TELL (instead of GOMRSIF) to send messages from System A to System B, but requires RSCS

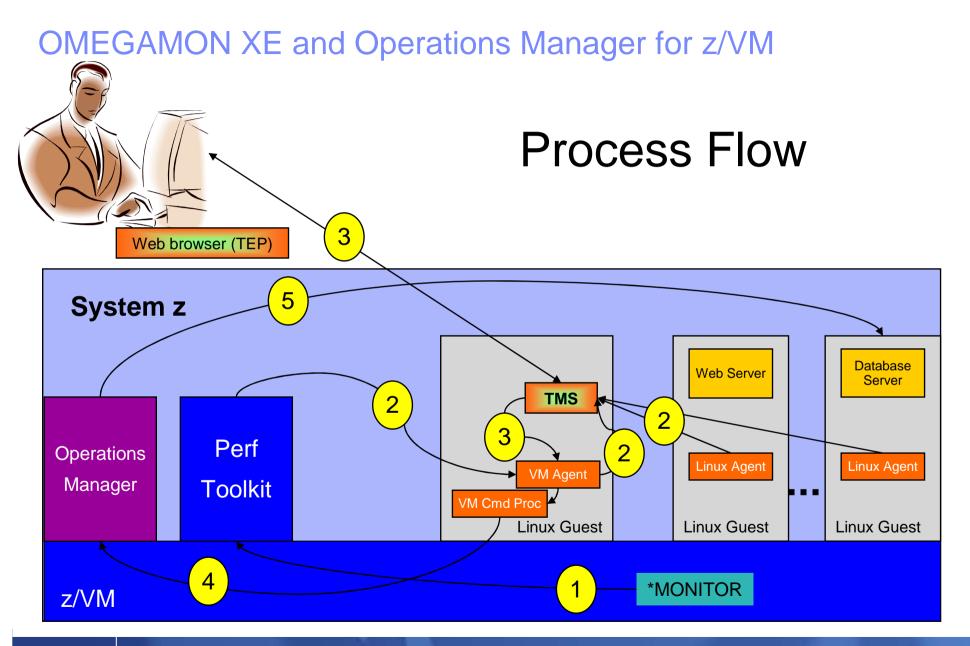


### Scenario 12

### Integration with OMEGAMON XE on z/VM and Linux

- Use Operations Manager to take action based on a triggered situation in OMEGAMON XE on z/VM and Linux
- Virtual CPU consumption is high for a Linux guest
- OMEGAMON detects the situation, creates an event, and sends message to Operations Manager
- Action is triggered by a rule in Operations Manager
- Operations Manager checks SHARE status of guest and issues CP commands to tune the guest
  - SET QUICKDSP
  - SET SHARE
- Event is resolved in OMEGAMON when virtual CPU consumption of guest is back down



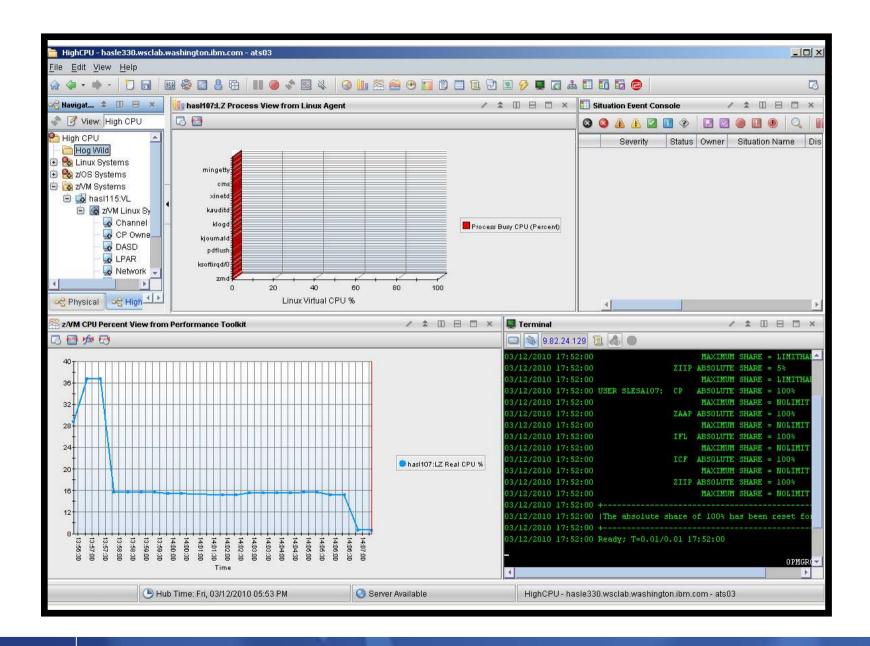




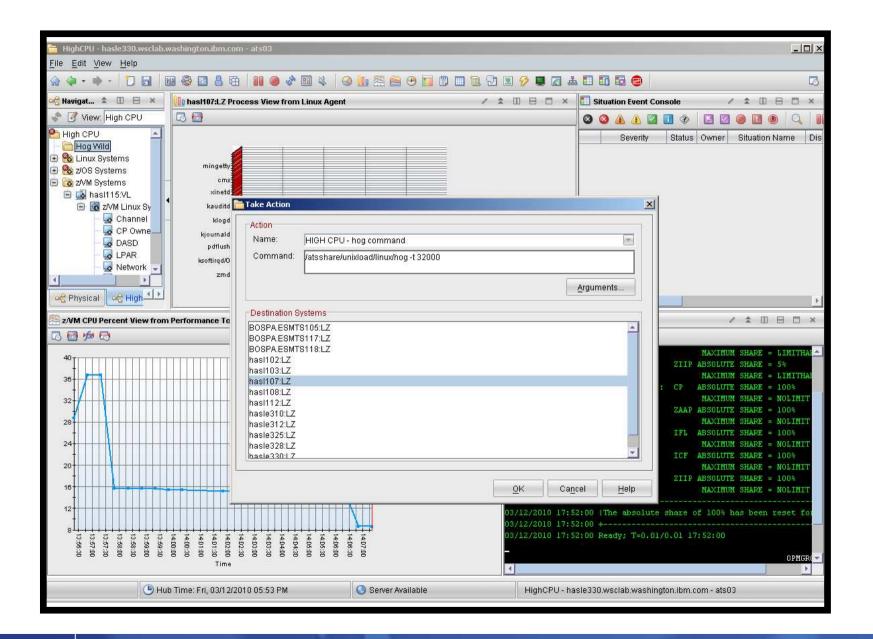
# **Scenario 12: Detailed Steps**

- Create and start an application on a Linux guest that uses more than 20% of virtual CPU
  - HOG command on our demo system
- Updates to Tivoli Enterprise Portal
  - z/VM CPU graph shows guest CPU % as it runs the application
  - Event pops up on situation event console to say higher than 20%
- Use Operations Manager to watch z/VM user console used by OMEGAMON
  - Message receive from OMEGAMON to address high CPU on the guest
  - Message from Operations Manager indicating action is triggered
- Updates on Tivoli Enterprise Portal
  - CPU used by that guest decreases below 20%
  - Event closed (removed from the event console)

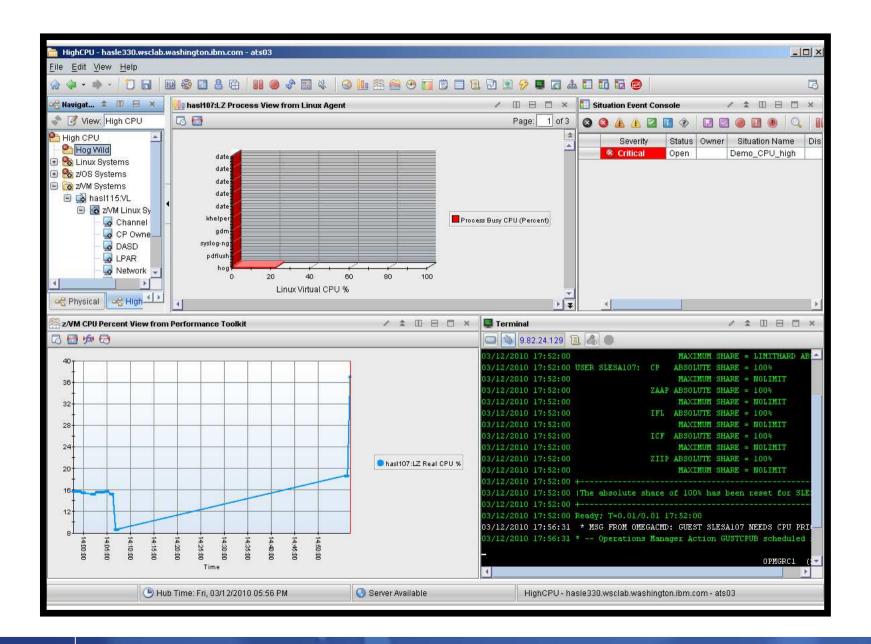




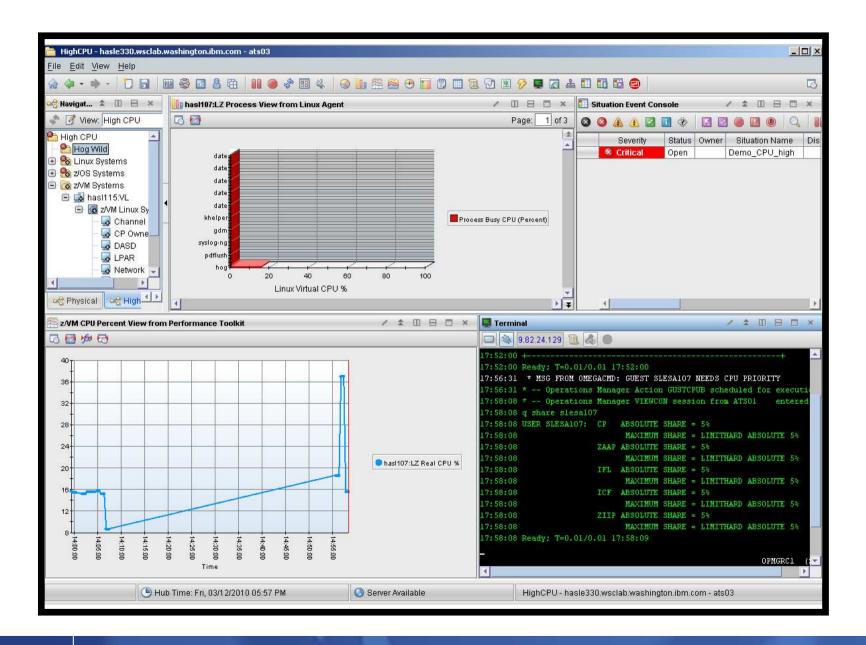
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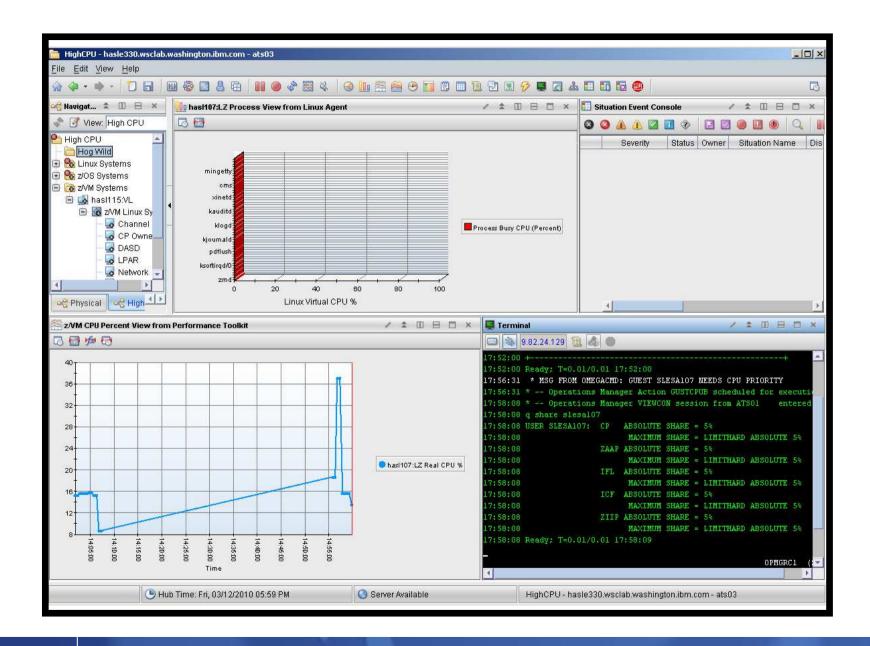














### Scenario 12: How Do You Do That?

### **Rules in Operations Manager:**

```
*
* Adjust SHARE of Linux quest if CPU usage is too high
* Watch for message from OMEGAMON
DEFRULE NAME(GUSTCPU),+
  MATCH(*NEEDS CPU PRIORITY*),+
 ACTION(GUESTCPU)
*
* Highlight message from OMEGAMON and call EXEC to check and adjust
* SHARE of Linux quest
DEFACTN NAME (GUESTCPU), +
  INPUT(AHI),+
 NEXTACTN (GUSTCPUB)
*
DEFACTN NAME(GUSTCPUB),+
  COMMAND(EXEC VCPU &4),+
  ENV(LVM),+
  OUTPUT(LOG)
```

#### **IBM Software**



### Scenario 12: Detailed Steps OMEGAMON Configuration

Situations for - Workload		$\mathbf{x}$
± 🌢 🏶 🍕	🎓 Formula 👔 Distribution 🎓 Expert Advice 🖅 Action 🚳 Until	
Workload VVM Linux Systems VM_User_CPU_Critical VM_User_CPU_High VM_Virtual_CPU_Critical VM_Virtual_CPU_High	CPU Percent > 30.00 2 3	
	Situation Formula Capacity       4%       Add conditions       Advanced         Sampling interval       Sound       State       State         0 / 0 : 0 : 30        Image: Critical wav       Image: Critical wav       Image: Critical wav         ddd       hh       mm       ss       Image: Critical wav       Image: Critical wav         Image: Walk       Image: Critical wav       Image: Critical wav       Image: Critical wav       Image: Critical wav         Image: Walk       Image: Critical wav       Image: Critical wav       Image: Critical wav       Image: Critical wav         Image: Walk       Image: Critical wav       Image: Critical wav       Image: Critical wav       Image: Critical wav         Image: Walk       Image: Critical wav       Image: Critical wav       Image: Critical wav       Image: Critical wav         Image: Critical wav       Image: Critical wav       Image: Critical wav       Image: Critical wav       Image: Critical wav         Image: Critical wav       Image: Critical wav       Image: Critical wav       Image: Critical wav       Image: Critical wav         Image: Critical wav       Image: Critical wav       Image: Critical wav       Image: Critical wav       Image: Critical wav       Image: Critical wav         Image: Critical wav       Image: Critical wav       Image: Crital	
, , , , , , , , , , , , , , , , , , ,	<u>OK</u> Cancel <u>Apply</u> <u>Group</u> <u>H</u> e	elp

#### **IBM Software**



### Scenario 12: Detailed Steps OMEGAMON Configuration

Situations for - Workload	
Image: Second system         Image: Second system	<ul> <li>Formula Distribution Expert Advice Action Unit</li> <li>Action Selection <ul> <li>System Command</li> <li>Universal Message</li> </ul> </li> <li>System Command <ul> <li>VL:msg opmgrc1 &amp;(KVLUser_Workload User_ID) needs CPU priority</li> <li>Attribute Substitution</li> </ul> </li> <li>If the condition is true for more than one monitored item: <ul> <li>Only take action on first item</li> <li>Take action on each item</li> </ul> </li> <li>Where should the Action be executed (performed): <ul> <li>Execute the Action at the Managed System (Agent)</li> <li>Execute the Action at the Managing System (TEMS)</li> </ul> </li> <li>If the condition stays true over multiple intervals: <ul> <li>Don't take action in each interval</li> </ul> </li> </ul>
	<u>O</u> K Cancel <u>Apply</u> <u>G</u> roup <u>H</u> elp



### Scenario 13:

Monitor Service Machines for LOGOFF Status – and AUTOLOG them

# Monitor specific service machines to make sure they stay logged on

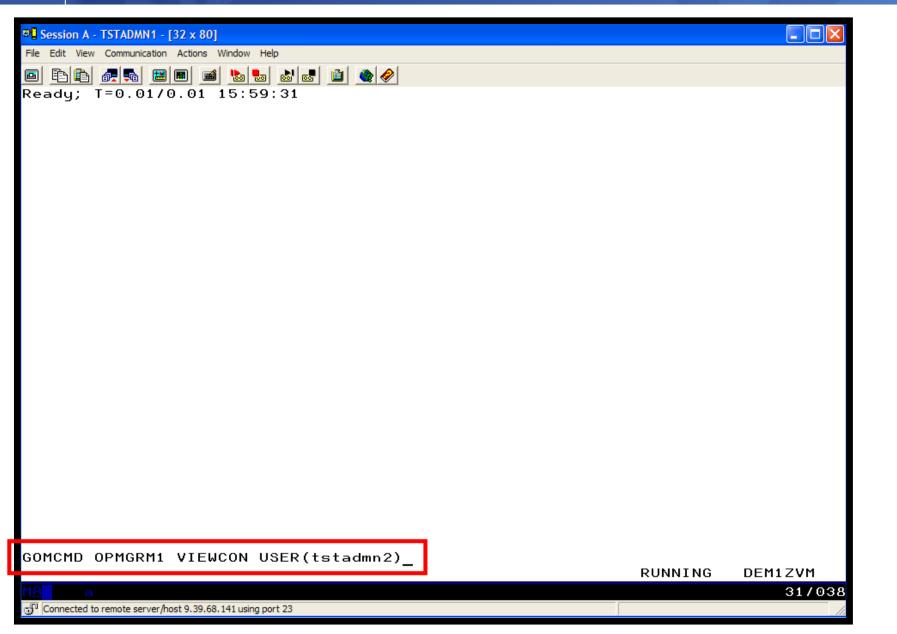
- Demo will monitor TSTADMN2 user ID
  - Could monitor a group of user IDs
- If it changes from logged on to logged off status, then restart it

# Dynamically pass the user ID to the action

- Re-use action for multiple monitors or user IDs

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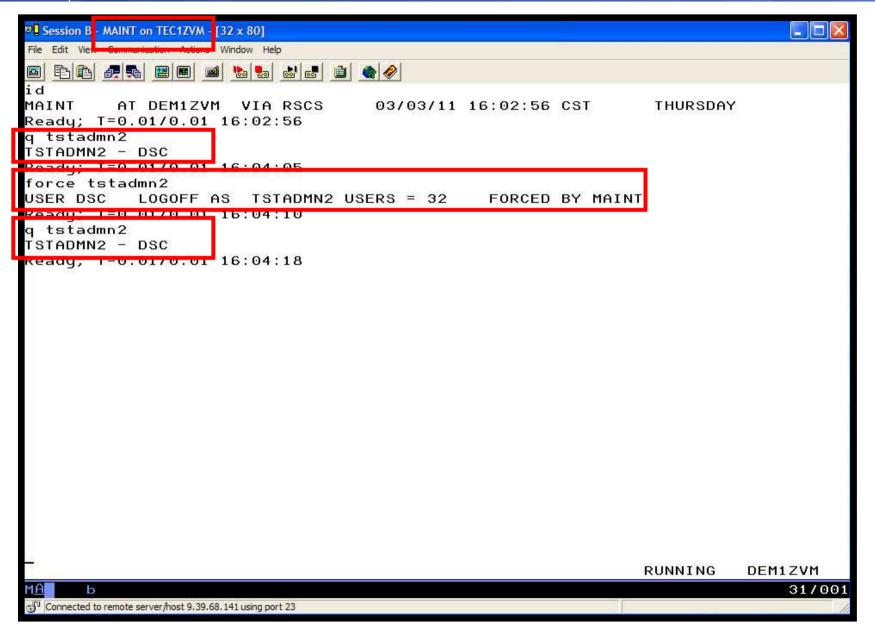


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Session A - TSTADMN1 - [32 x 80]	
File Edit View Commanication Actions Window Help	
11:57:57 z/VM V5.4.0 2009-09-23 15:29	
11:57:57 DMSACP723I C (198) R/O	
11:57:57 Ready; T=0.01/0.01 11:57:57	
11:58:08 CONNECT= 00:00:10 VIRTCPU= 000:00.00 TOTCPU= 000:0 11:58:08 LOGOFF AT 11:58:08 CST TUESDAY 03/01/11 BY MAINT	0.00
11:58:12 z/VM V5.4.0 2009-09-23 15:29	
11:58:12 DMSACP723I C (198) R/O	
11:58:12 Ready; T=0.01/0.01 11:58:12	
11:59:35 * Operations Manager VIEWCON session from TSTAD	MN1 entered the foll
11:59:35 id	
11:59:35 TSTADMN2 AT DEM1ZVM VIA RSCS 03/01/11 11:59:3	5 CST TUESDAY
11:59:35 Ready; T=0.01/0.01 11:59:35 00:00:00 HCPMID6001I TIME IS 00:00:00 CST WEDNESDAY 03/02/	11
00:00:00	
00:00:00 HCPMID60011 TIME IS 00:00:00 CST THURSDAY 03/03/1	1
00:00:00	
L-	TSTODMNO (Secol1)
	TSTADMN2 (Scroll)
	31/001
🕤 Connected to remote server/host 9.39.68.141 using port 23	





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<u>ikm</u>	_	
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Image: Strate	요 <mark>.</mark> Session A - TSTADMN1 - [32 x 80]	
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11:57:57 z/VM V5.4.0 2009-09-23 15:29 11:57:57 DMSACP723I C (198) R/O 11:57:57 Ready; T=0.01/0.01 11:57:57 11:58:08 CONNECT= 00:00:10 VIRTCPU= 000:00.00 TOTCPU= 000:00.00 11:58:12 z/VM V5.4.0 2009-09-23 15:29 11:58:12 DMSACP723I C (198) R/O 11:58:12 Ready; T=0.01/0.01 11:58:12 11:59:35 tid 11:59:35 TSTADHN2 AT DEMIZVM VIA RSCS 03/01/11 11:59:35 CST TUESDAY 11:59:35 TSTADHN2 AT DEMIZVM VIA RSCS 03/01/11 11:59:35 CST TUESDAY 11:59:35 TSTADHN2 AT DEMIZVM VIA RSCS 03/01/11 11:59:35 CST TUESDAY 11:59:35 TSTADHN2 AT DEMIZVM VIA RSCS 03/01/11 11:59:35 CST TUESDAY 11:59:35 Ready; T=0.01/0.01 11:59:35 00:00:00 HCPMID6001I TIME IS 00:00:00 CST WEDNESDAY 03/02/11 00:00:00 16:04:10 CONNECT= 52:05:57 VIRTCPU= 000:00.00 TOTCPU= 000:00.00 16:04:10 LOGOFF AT 16:04:10 CST THURSDAY 03/03/11 BY MAINT 16:04:13 z/VM V5.4.0 2009-09-23 15:29 16:04:13 Ready; T=0.01/0.01 16:04:13 15:04:13 Ready; T=0.01/0.01 16:04:13 15:04:13 Ready; T=0.01/0.01 16:04:13		
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11:58:12       DMSACP723I C (198) R/0         11:58:12       Ready; T=0.01/0.01 11:58:12         11:59:35 * Operations Manager VIEWCON session from TSTADMN1 entered the foll         11:59:35 id         11:59:35 TSTADMN2 AT DEM1ZVM VIA RSCS 03/01/11 11:59:35 CST TUESDAY         11:59:35 TRADM12 AT DEM1ZVM VIA RSCS 03/01/11 11:59:35 CST TUESDAY         11:59:35 TSTADMN2 AT DEM1ZVM VIA RSCS 03/01/11 11:59:35 CST TUESDAY         11:59:35 Ready; T=0.01/0.01 11:59:35         00:00:00       HCPMID6001I TIME IS 00:00:00 CST WEDNESDAY 03/02/11         00:00:00       00:00:00         00:00:00       HCPMID6001I TIME IS 00:00:00 CST THURSDAY 03/03/11         00:00:00       00:00:00         16:04:10 CONNECT= 52:05:57 VIRTCPU= 000:00.00 TOTCPU= 000:00.00         16:04:13 LOGOFF AT 16:04:10 CST THURSDAY 03/03/11 BY MAINT         16:04:13 UNSACP723I C (198) R/0         16:04:13 Ready; T=0.01/0.01 16:04:13		
11:58:12 Ready; T=0.01/0.01 11:58:12 11:59:35 * Operations Manager VIEWCON session from TSTADMN1 entered the foll 11:59:35 id 11:59:35 TSTADMN2 AT DEM1ZVM VIA RSCS 03/01/11 11:59:35 CST TUESDAY 11:59:35 Ready; T=0.01/0.01 11:59:35 00:00:00 HCPMID6001I TIME IS 00:00:00 CST WEDNESDAY 03/02/11 00:00:00 00:00:00 HCPMID6001I TIME IS 00:00:00 CST THURSDAY 03/03/11 00:00:00 16:04:10 CONNECT= 52:05:57 VIRTCPU= 000:00.00 TOTCPU= 000:00.00 16:04:10 LOGOFF AT 16:04:10 CST THURSDAY 03/03/11 BY MAINT 16:04:13 z/VM V5.4.0 2009-09-23 15:29 16:04:13 DMSACP723I C (198) R/0 16:04:13 Ready; T=0.01/0.01 16:04:13 TSTADMN2 (Scroll) 18 18 19 10 10 10 10 10 10 10 10 10 10		
11:59:35 id         11:59:35 TSTADMN2 AT DEMIZVM VIA RSCS       03/01/11 11:59:35 CST       TUESDAY         11:59:35 Ready; T=0.01/0.01 11:59:35       03/02/11       00:00:00         00:00:00 HCPMID60011 TIME IS 00:00:00 CST WEDNESDAY 03/02/11       00:00:00       00:00:00         06:00:00 HCPMID60011 TIME IS 00:00:00 CST THURSDAY 03/03/11       00:00:00       00         16:04:10 CONNECT= 52:05:57 VIRTCPU= 000:00.00 TOTCPU= 000:00.00       16:04:10 LOGOFF AT 16:04:10 CST THURSDAY 03/03/11 BY MAINT         16:04:13 Z/VM V5.4.0 2009-09-23 15:29       16:04:13 Ready; T=0.01/0.01 16:04:13         16:04:13 Ready; T=0.01/0.01 16:04:13       TSTADMN2 (Scroll)		
11:59:35 id         11:59:35 TSTADMN2 AT DEMIZVM VIA RSCS       03/01/11 11:59:35 CST       TUESDAY         11:59:35 Ready; T=0.01/0.01 11:59:35       03/02/11       00:00:00         00:00:00 HCPMID60011 TIME IS 00:00:00 CST WEDNESDAY 03/02/11       00:00:00       00:00:00         06:00:00 HCPMID60011 TIME IS 00:00:00 CST THURSDAY 03/03/11       00:00:00       00         16:04:10 CONNECT= 52:05:57 VIRTCPU= 000:00.00 TOTCPU= 000:00.00       16:04:10 LOGOFF AT 16:04:10 CST THURSDAY 03/03/11 BY MAINT         16:04:13 Z/VM V5.4.0 2009-09-23 15:29       16:04:13 Ready; T=0.01/0.01 16:04:13         16:04:13 Ready; T=0.01/0.01 16:04:13       TSTADMN2 (Scroll)		MN1 entered the foll
11:59:35       Ready; T=0.01/0.01       11:59:35         00:00:00       HCPMID60011       TIME IS       00:00:00       CST WEDNESDAY       03/02/11         00:00:00       HCPMID60011       TIME IS       00:00:00       CST THURSDAY       03/03/11         00:00:00       HCPMID60011       TIME IS       00:00:00       CST THURSDAY       03/03/11         00:00:00       HCPMID60011       TIME IS       00:00:00       CST THURSDAY       03/03/11         16:04:10       CONNECT=       52:05:57       VIRTCPU=       000:00.00       TOTCPU=       000:00.00         16:04:10       LOGOFF AT 16:04:10       CST THURSDAY       03/03/11       BY MAINT       16:04:13       ZMM V5.4.0       2009-09-23       15:29         16:04:13       ZMSACP723I C       (198) R/0       16:04:13       Ready; T=0.01/0.01       16:04:13         16:04:13       Ready; T=0.01/0.01       16:04:13       MI       TSTADMN2 (Scroll)	11:59:35 id	
00:00:00 HCPMĪD6001I TIME IS 00:00:00 CST WEDNESDAY 03/02/11 00:00:00 00:00:00 HCPMID6001I TIME IS 00:00:00 CST THURSDAY 03/03/11 00:00:00 16:04:10 CONNECT= 52:05:57 VIRTCPU= 000:00.00 TOTCPU= 000:00.00 16:04:10 LOGOFF AT 16:04:10 CST THURSDAY 03/03/11 BY MAINT 16:04:13 z/VM V5.4.0 2009-09-23 15:29 16:04:13 DMSACP723I C (198) R/0 16:04:13 Ready; T=0.01/0.01 16:04:13 TSTADMN2 (Scroll) M1 □ □ TSTADMN2 (Scroll)		5 CST TUESDAY
00:00:00 00:00:00 HCPMID6001I TIME IS 00:00:00 CST THURSDAY 03/03/11 00:00:00 16:04:10 CONNECT= 52:05:57 VIRTCPU= 000:00.00 TOTCPU= 000:00.00 16:04:10 LOGOFF AT 16:04:10 CST THURSDAY 03/03/11 BY MAINT 16:04:13 Z/VM V5.4.0 2009-09-23 15:29 16:04:13 DMSACP723I C (198) R/0 16:04:13 Ready; T=0.01/0.01 16:04:13 TSTADMN2 (Scroll) M1 a 3 31/001		
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00:00:00         16:04:10 CONNECT= 52:05:57 VIRTCPU= 000:00.00 TOTCPU= 000:00.00         16:04:10 LOGOFF AT 16:04:10 CST THURSDAY 03/03/11 BY MAINT         16:04:13 z/VM V5.4.0 2009-09-23 15:29         16:04:13 DMSACP723I C (198) R/0         16:04:13 Ready; T=0.01/0.01 16:04:13         ISTADMN2 (Scroll)         MA         a		
16:04:10 CONNECT= 52:05:57 VIRTCPU= 000:00.00 TOTCPU= 000:00.00         16:04:10 LOGOFF AT 16:04:10 CST THURSDAY 03/03/11 BY MAINT         16:04:13 z/VM V5.4.0 2009-09-23 15:29         16:04:13 DMSACP723I C (198) R/0         16:04:13 Ready; T=0.01/0.01 16:04:13         ISTADMN2 (Scroll)         16:04:13 a         ISTADMN2 (Scroll)		1
16:04:10 LOGOFF AT 16:04:10 CST THURSDAY 03/03/11 BY MAINT 16:04:13 z/VM V5.4.0 2009-09-23 15:29 16:04:13 DMSACP723I C (198) R/O 16:04:13 Ready; T=0.01/0.01 16:04:13 TSTADMN2 (Scroll) MA a 31/001		0 00
16:04:13 z/VM V5.4.0 2009-09-23 15:29 16:04:13 DMSACP723I C (198) R/O 16:04:13 Ready; T=0.01/0.01 16:04:13 TSTADMN2 (Scroll) MA a 31/001		0.00
16:04:13 DMSACP723I C (198) R/0 16:04:13 Ready; T=0.01/0.01 16:04:13 		
16:04:13 Ready; T=0.01/0.01 16:04:13 		
MA a 31/001		
		TSTADMN2 (Scroll)
🖓 Connected to remote server/host 9.39.68.141 using port 23	M <u>A</u> aa	31/001
	💬 Connected to remote server/host 9.39.68.141 using port 23	//



# Scenario 13: How Do You Do That?

### **Console rule and action in Operations Manager:**

```
*
DEFEMON NAME(ADMIN2),+
  TYPE(1), +
  USER(TSTADMN2),+
  ACTION(AUTOLOG1)
*
DEFACTN NAME (AUTOLOG1), +
  COMMAND(CP SLEEP 3 SEC),+
  NEXTACTN(AUTOLOG2),+
  OUTPUT(LOG),+
  ENV(OPMGRS1)
*
DEFACTN NAME (AUTOLOG2), +
  COMMAND(CP XAUTOLOG &3),+
```

```
OUTPUT(LOG),+
```

```
ENV(OPMGRS1)
```



## Scenario 14: Monitor Page Space – Send Email if Full

- Operations Manager monitors the page space usage (percent full)
  - For demo purposes, page space monitor is currently defined but suspended (not active)
  - We'll dynamically resume (re-activate) the page space monitor
  - Demo monitor requires the page space be only 0% full
- Usage exceeds the specified limit
- Automatically send an e-mail to someone who can evaluate and take action
- For demo purposes, suspend (de-activate) the page space monitor when complete



# Scenario 14: Detailed Steps

From an authorized VM user ID, see the page space usage:

q alloc page

From a user ID with Operations Manager privileges:

gomcmd opmgrm1 resume page(pgfull)

Check the Operations Manager log to see the spool monitor triggered:

gomcmd opmgrm1 viewlog

- Check the inbox of the appropriate person to see the email
- From a user ID with Operations Manager privileges:

```
gomcmd opmgrm1 suspend page(pgfull)
```

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_	
_	

A - DEMOADMN ATS								
File Edit View Communic			7					
9 🖻 🛍 🚮 💆 🖻	🔳 🛋 🗞 🛃	🕹 🛃 🔌 🤗	1					
Host: 9.82.24.129	P	ort: 23		LU Name:			Disconnect	
d						_		
EMOADMN AT ZVI			08/07/3	12 15:10	9:02 ES		TUESDAY	
eady, 1-0.0170   alloc page	.01 15:10:	52						
accoc page	EXTENT	EXTENT	TOTAL	PAGES	HIGH	%		
OLID RDEV	START	END	PAGES	IN USE		USED		
		<u>1919 - 919 - 919 - 919</u> 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019				1000-1000-1000-1000-1000-1000-1000-100		
40PAG 6804	1		전망 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	106231	장 ^^ 것 가 집 것 것 것 것 것	17%		
VMPG1 6B05	1			107778		17%		
VMPG2 6806 VMPG3 6807	1 1			107866		17% 17%		
VMPG4 6B10	0			109341		18%		
VMPG5 6B0B	õ			100116		16%		
VMPG6 6BOC	ō			107786		17%		
G6B0A 6B0A	0	10016	1761K	111151	149402	6%		
UMMARY			5869K	856141		14%		
SABLE			5869K	856141		14%		
teady; T=0.01/0								
							RUNNING	ZVMV5R40
A A							RUNNING	ZVMV5R40 31/0

과입 A - DEMOADMN ATS			
File       Edit       View       Communication       Actions       Window       Help         Image: I			
Host: 9.82.24.129 Port: 23	LU Name:	Disconnect	I
gomcmd opmgrm1 resume page(pgfull) Ready; T=0.01/0.01 15:14:21			
gomcmd opmgrm1 viewlog		RUNNING	ZVMV5R40
MA A			31/001
SPI Connected to remote server/host 9.82.24.129 using port 23			

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<u>lem</u>	-		
	_		

B A - DEMOADMN ATS		
File Edit View Communication Act		
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Host: 9.82.24.129	Port: 23	LU Name: Disconnect
08/07/2012 15:15:27		PAGE USE: MONITOR PGFULL SPACE 14 PERCENT
08/07/2012 15:15:27	승규는 방법에 있는 것을 가지 않는 것이 없는 것이 없는 것이 없다.	PAGE CHG: MONITOR PGFULL SPACE 0 PERCENT
08/07/2012 15:15:27		PAGE PGFULL ACTION PAGEMAIL TRIGGERED BY _GO
08/07/2012 15:15:27		ACTION PAGEMAIL BEGIN FOR _GOMPMON SERVER OPMG
08/07/2012 15:15:27		COMMAND "EXEC SMTPPG TLD1 AT US.IBM.COM 14"
08/07/2012 15:15:27		DMSXSU587I XEDIT:
08/07/2012 15:15:27		NOTE OPMGRM1 NOTE A1 sent to TLD1 at US.IBM.CO
08/07/2012 15:15:27		ACTION PAGEMAIL END RC=0 SERVER OPMGRM1
08/07/2012 15:15:27		SMTP "* From SMTP: Received Spool File 005
08/07/2012 15:15:28		SMTP "* From SMTP: Mail delivered to: <tld< td=""></tld<>
08/07/2012 15:16:20		USSYSLOG "<30>snmpdÝ1425": Connection from UDP
08/07/2012 15:16:20		LXSYSLOG "<30>snmpdÝ1425": Connection from UDP
08/07/2012 15:16:27		PAGE ALERT: MONITOR PGFULL USAGE CONDITIO
08/07/2012 15:16:27	GOMPM00451I	PAGE USE: MONITOR PGFULL SPACE 14 PERCENT
08/07/2012 15:16:27		PAGE CHG: MONITOR PGFULL SPACE 0 PERCENT
08/07/2012 15:16:27	GOMACT0260I	PAGE PGFULL ACTION PAGEMAIL TRIGGERED BY _GO
08/07/2012 15:16:27	GOMACT0262I	ACTION PAGEMAIL BEGIN FOR _GOMPMON SERVER OPMG
08/07/2012 15:16:27	GOMACT0269L	COMMAND "EXEC SMTPPG TLD1 AT US.IBM.COM 14"
08/07/2012 15:16:27	GOMACT0270L	DMSXSU587I XEDIT:
08/07/2012 15:16:27	GOMACT0270L	NOTE OPMGRM1 NOTE A1 sent to TLD1 at US.IBM.CO
08/07/2012 15:16:27	GOMACT0267I	ACTION PAGEMAIL END RC=0 SERVER OPMGRM1
08/07/2012 15:16:27	GOMCMD0216L	SMTP "* From SMTP: Received Spool File 005
08/07/2012 15:16:33	GOMCMD0216L	SMTP "* From SMTP: Mail delivered to: <tld< td=""></tld<>
08/07/2012 15:17:13	GOHCHDUZUIL	DEMONDHIN ATEMEOR ATD-DEMONDHIN 2KC-HUZTOCA C
08/07/2012 15:17:27	GOMPM00453I	PAGE ALERT: MONITOR PGFULL USAGE CONDITIO
08/07/2012 15:17:27	GOMPM00451I	PAGE USE: MONITOR PGFULL SPACE 14 PERCENT
08/07/2012 15:17:27	GOMPM00452I	PAGE CHG: MONITOR PGFULL SPACE 0 PERCENT
08/07/2012 15:17:27	GOMPM00455I	PAGE MONITOR "PGFULL " EXECUTION LIMIT EXCEED
PF01= SCROLL PF02=		END FF01 FF00 HOLD FF00
PF07= UP PF08=	DOWN PF09=	
		_GOMALOG (Scroll)
M <u>A</u> A		31/001
Connected to remote server/host 9.82	.24.129 using port 23	
	assing particular	1



## Scenario 14: How Do You Do That?

### Console rule and action in Operations Manager:

```
*
DEFPMON NAME(PGFULL), +
  USAGE(010-100),+
  INTERVAL(1),+
  LIMIT(3,3600),+
  ACTION(PAGEMAIL)
*
SUSPEND PAGE (PGFULL)
*
DEFACTN NAME (PAGEMAIL), +
  COMMAND(EXEC SMTPPG tld1 at us.ibm.com &4),+
  OUTPUT(LOG),+
  ENV(LVM)
```



### Scenario 14: How Do You Do That?

### **SMTPPG EXEC (excerpts)**

```
/* */
Parse arg mail user dummyat mail node pgpct
errtext = 'Page space is' pgpct'% full on z/VM system'
/* Get local TCP/IP hostname */
parse value Search_TCPIP_Data("hostname") with getrc tcphostname .
if getrc > 4 then tcphostname = "unknown_host_name"
parse value Search TCPIP Data("domainorigin") with getrc tcpdomain .
if getrc > 4 then tcpdomain = "unknown_domain_name"
fqdomain name = tcphostname'.'tcpdomain
/* Construct the e-mail */
line.1 = 'OPTIONS: NOACK
                            LOG
                                   SHORT
                                          NONOTEBOOK ALL CLASS A'
line.2 = 'Date: ' Date() ',' Time()
line.3 = 'From: Operations Manager for z/VM'
line.4 = 'To: ' mail user 'at' mail node
line.5 = 'Subject: ' errtext 'on' fqdomain name
line.6 = 'DO NOT REPLY - This e-mail was generated by an automated service machine'
Line.7 = ``
line.8 = msqtext
line.0 = 8
'PIPE stem line. | > TEMP NOTE A'
'EXEC SENDFILE TEMP NOTE A (NOTE SMTP'
```



### Scenario 15: Monitor SSI Connectivity between Two Members of a Cluster

- Create a schedule to query ISLINKs between two members of a cluster
- If less than 4 links up, send message to consolidated SSI console (OPERSSI)
  - For demo purposes, we'll dynamically deactivate a link then reactivate it when done



# Scenario 15: Detailed Steps

- From an authorized VM user ID, see the currently available ISLINKs:
- q islink node testcssi
- Deactivate one of the links:

deactivate islink 0d01

 Using Operations Manager, view the central operations console to see the alert:

gomcmd opmgrm1 viewcon user(operssi)

- Schedule is triggered every 2 minutes, so wait 2 minutes and see the messages again
- Reactivate the link:

activate islink 0d01



# Scenario 15: How Do You Do That?

### Schedule and action in Operations Manager:

```
*** Check every 10 minutes for any IS links being down
```

```
DEFSCHD NAME(ISLINK1),+
```

```
EVERY(00:02),+
```

```
ACTION(QISLINK),+
```

```
PARM(TESTCSSI)
```

```
*
```

DEFACTN NAME(QISLINK),+

```
COMMAND(EXEC QISLINK TEST7SSI &p),+
```

ENV(SVM)



# Scenario 15: How Do You Do That?

### QISLINK EXEC:

/* Find the number of IS Links available to another node */
/* If less than 4, then send message to OPERSSI */
trace o
Address command
Parse Arg thisnode othernode
'PIPE CP QUERY ISLINK NODE' othernode '| find _____State:____Up| COUNT LINES | VAR numlinks'
If numlinks < 4
Then 'CP MSGNOH OPERSSI AT TEST7SSI From' thisnode': Number of ISLINKs to' othernode 'is' numlinks
Exit 0</pre>



#### Scenario 16: Suppress Passwords on Linux Consoles

### TN3270 login to Linux guest displays password

- Password on separate line from password prompt
- Password captured in console and viewable in Operations Manager VIEWCON

# Use a rule in Operations Manager to suppress the password

- I.e. the line following the "password:" prompt

Can be expanded to suppress multiple lines following matching text



# Scenario 16: Detailed Steps

### Use Operations Manager to view the console of a Linux guest:

gomcmd opmgrm1 viewcon user(omeglnx1)

Enter the login command:

login root

- Enter the password
  - Note that it's not displayed



# Scenario 16: How Do You Do That?

### Rule and action in Operations Manager:

```
*
*
Change password prompt to red.
* Suppress the password when logging onto OMEGLNX1.
* Have to suppress next 2 lines to include the line Ops Mgr adds
* indicating the user entered a "command"
*
DEFRULE NAME(OMEGPW),+
MATCH(Password:*),+
USER(OMEGLNX1),+
ACTION(SUPPW),+
SUPNEXT(2)
*
DEFACTN NAME(SUPPW),+
INPUT(CRE)
```



#### Scenario 17:

Autolog a Linux Guest and Send Message if Doesn't Start Successfully

- Define a schedule and action to start a Linux guest
- Define a rule looking for the application specific message indicating up and ready for work
- Define an idle monitor for the above rule
  - If "up and ready" message is not found within 1 minute, then send message to central console
- Idle monitor is suspended until schedule is triggered
  - Before autologging the Linux guest, automatically resume idle monitor
- Idle monitor is automatically suspended again once it is triggered



# Scenario 17: Detailed Steps

- View the configuration file to see the action that will be "scheduled", plus the rules and monitors
- x tracy config
- Run the action that starts the guest (and monitors)

gomcmd opmgrm1 run action(strtlnx1)

View the console of LNXTEST to see that it gets autologged

gomcmd opmgrm1 viewcon user(lnxtest)

View the central console of OPERSSI to see the message that the guest did not start successfully

gomcmd opmgrm1 viewcon user(operssi)



8월 A - DEMOADMN SSI7 - [32 x 80]			
File Edit View Communication Actions Window Help			
o Fri Fi Bar Martin State (* *			
Host: 9.60.86.71 Port: 23	LU Name:	Disconnect	
Ready; T=0.01/0.01 21:32:46 GOMCMD OPMGRM1 run action(strtlnx1)			
Ready, 1-0.0170.01 21.33.12			
GOMCMD OPMGRM1 VIEWCON USER(lnxtest)		Running	TEST7SSI
M <u>A</u> A		Running	31/036
🖑 Connected to remote server/host 9.60.86.71 using port 23			1.

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🔊 🛛 A - DEMOADN	1N SSI7 - [32 x 80]					_	
File Edit View	Communication /	Actions Window	Help				
	<b>.</b>	a 🗞 🛃	a 🖉				
A STATE OF A	st: 9.60.86.71	Port:		LU Name:		Disconnect	
177.3 P.S	NY ALCONDUCTION OF		Acres .	110000000000000000000000000000000000000	SECID SO		
			reading f			I could be	ot be loaded
			EXEC not				
			OMDIR NAME				
						Directory,	, fileid = SC
21:24:45	DMSSEC639		n NAMEFIND		return cod	e was 28	
	z/VM V6.2		2-12-11 15				
성장님 유민이는 것이 같은 것이 아니다.			Y-STAT not				
			T : DMSINS				
21:24:45 HCPGIR450W CP entered; disabled wait PSW 000A0000 800214EE							
21:32:40 * Operations Manager VIEWCON session from DEMOADMN entered the foll 21:32:40 logoff							
	:32:40 CONNECT= 00:07:53 VIRTCPU= 000:00.00 TOTCPU= 000:00.00						
	2:40 LOGOFF AT 21:32:40 EDT TUESDAY 07/16/13						
21:32:42	2:42 * Operations Manager VIEWCON session from DEMOADMN entered the foll						
	cp logoff		177.65				
							not accesse
1999 C. (1997) C. (19						e Y (19E)	not accessed
			reading f			P	A tes Second and
							ot be loaded
21:33:15 DMSINS313W SYSPROF EXEC not found; notify system administrator 21:33:15 DMSOPN002E File SCOMDIR NAMES * not found							
21:33:15 DMSSEC1286E Error loading SYSTEM Communications Directory, fileid = SC							
21:33:15 DMSSEC639E Error in NAMEFIND routine; return code was 28							
21:33:15 z/VM V6.2.0 2012-12-11 15:49							
			Y-STAT not				1 C 513/069
NEW DISKIE SECTO			T : DMSINS				52
			red; disab				
PF01= S PF07= U		= = DOWN	PF03= END				PF06= FORMAT PF12= RECALL
	1100	DOWIN		TTTO L		REGITI F	TTE NEONEE
						LNXTEST	(Scroll)
M <u>A</u> A							317001
🕤 Connected t	o remote server/host 9	.60.86.71 using port	23				1



3월 A - DEMOADMN SSI7 - [32 x 80]			
File Edit View Communication Actions Window Help			
• • • • • • • • • • • • • • • • • • •			
Host: 9.60.86.71 Port: 23	LU Name:	Disconnect	
Ready; T=0.01/0.01 21:37:25			
GOMCMD OPMGRM1 VIEWCON USER(OPERSSI)			
SCHORD OF HORNE VIEWCON OSER(OFERSSI)		Running	TEST7SSI
M <u>A</u> A			31/037
Connected to remote server/host 9.60.86.71 using port 23			1.

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File Edit View Communicatio	on Actions Window Help		
	and the second se	هاها	
			ı
Host: 9.60.86.71	Port: 23	LU Name:	Disconnect
00:00:00 HCPMID6	001I TIME IS	00:00:00 EDT TUESDAY 07/09/13	
00:00:00			
00:00:00 HCPMID6	SOOII TIME IS	00:00:00 EDT WEDNESDAY 07/10/1	3
00:00:00		00.00.00 FRT TUURORAY 07/14/40	72
00:00:00 HCPMID6 00:00:00	NUOTI TIME IS	00:00:00 EDT THURSDAY 07/11/13	
00:00:00 HCPMID6		00:00:00 EDT FRIDAY 07/12/13	
00:00:00 HCFHIDE	JOOTT TINE IS	00.00.00 EDI TRIDHI 01/12/13	
00:00:00 HCPMID6	0011 TIME IS	00:00:00 EDT SATURDAY 07/13/13	8
00:00:00			
00:00:00 HCPMID6	001I TIME IS	00:00:00 EDT SUNDAY 07/14/13	
00:00:00			
00:00:00 HCPMID6	001I TIME IS	00:00:00 EDT MONDAY 07/15/13	
00:00:00			
00:00:00 HCPMID6	001I TIME IS	00:00:00 EDT TUESDAY 07/16/13	
00:00:00			
		7SSI : COMPLETE STARTUP	
		7SSI : COMPLETE STARTUP	
		7SSI : COMPLETE STARTUP	
21:01:15 From DE	행사가 가지 않는 것 같아요. 이 것 같아요. 이 것 같아요. 같아요.	7SSI : COMPLETE STARTUP 7SSI : COMPLETE STARTUP	
		7SSI : COMPLETE STARTUP	
		7SSI : COMPLETE STARTUP	
		7SSI : COMPLETE STARTUP	
		ESSFULLY COMPLETE STARTUP	
21:23:15 LNXTEST	DID NOT SUCCE	SSFULLY COMPLETE STARTUP	
21.20.10 LINATEOT	DID NOT SUCCI	SSPULLI CONFLETE STARTOF	
21:33:15 LNXTEST	DID NOT SUCCE	SSFULLY COMPLETE STARTUP	
PF01= SCROLL PF		03= END PF04= PF05= H	
PF07= UP PF	08= DOWN PFO	99= PF10= LEFT PF11= R	IGHT PF12= RECALL
			OPERSSI (Scroll)
M <u>A</u> A			31700
Connected to remote server/h	10st 9.00.86./1 using port 23		



# Scenario 17: How Do You Do That?

# **Schedule and action in Operations Manager:**

*DEFSCHD NAME(STARTLNX),+

- * WHEN(00:01),+
- * ACTION(STRTLNX1)

```
*
```

```
DEFACTN NAME(STRTLNX1),+
```

COMMAND('RESUME IDLE(NOLOGON)'),+

```
NEXTACTN(STRTLNX2),+
```

ENV(GOM)

*

```
DEFACTN NAME(STRTLNX2),+
COMMAND(CP XAUTOLOG LNXTEST),+
ENV(SVM)
```



# Scenario 17: How Do You Do That?

# Watch for successful startup of Linux guest

# If successful take no action

```
DEFRULE NAME(LNXLOGON),+
```

```
MATCH(*LNXTEST successfully started*),+
```

```
USER(LNXTEST),+
```

```
ACTION (NOACT)
```

*

```
DEFACTN NAME (NOACT)
```



## Scenario 17: How Do You Do That?

#### If Linux doesn't start successfully send message to central console and suspend monitor:

```
DEFIMON NAME(NOLOGON),+
  RULE(LNXLOGON),+
  CCCUR(1,1),+
  ACTION(MSG2SSI2),+
  PARM(LNXTEST)
*
SUSPEND IDLE(NOLOGON)
DEFACTN NAME(MSG2SSI2),+
  COMMAND(CP MSGNOH OPERSSI &p did not successfully complete startup),+
  NEXTACTN(SUSPIDLE),+
  ENV(SVM)
*
DEFACTN NAME(SUSPIDLE),+
  COMMAND('SUSPEND IDLE(NOLOGON)'),+
```

ENV(GOM)



