## DXC Platform-X™ Dynatrace® Linux - SGLX Configuration



Important Information

## ServiceGuard Deployment

- Serviceguard is a clustering solution from Hewlett Packard Enterprise (HP) that helps protect applications from software and hardware failures. It is used on the HP-UX and Linux operating systems.
- SGMON module is only available on HPUX and in LINUX, and it's used to monitor the package switch in a HP Service Guard Cluster system.

## Steps

Seq.	Step / Description	Action / Detail	Example / Sc
1	Pre-		
	requisites		

- Install Dynatrace OneAgent on the ServiceGuard Server. SGMON solution requires Log monitoring in Dynatrace. To enable log monitoring we need to install Dynatrace OneAgent on the ServiceGuard server.

  Please refer Automated Oneagent Install guide Automated Install. Please refer manaul install guide Manu al Install
- Ensure monaco\_code 5.1 or above (https://github.dxc.com/Innovation-Automation/monaco\_code

  /releases/tag/v0.5.1) is loaded in the DT environment. 5.1 release (April 2024) contains all configuration
  required to support the Serviceguard monitoring on the host. This update causes all the following objects
  to become available in DT, however we still need to ensure they are enabeld:
  - Settings > Log Monitoring > Custom log sources > "DXC ServiceGuard Log Monitoring"
  - Settings > Log Monitoring > Log ingest rules > "DXC ServiceGuard Cron Log Monitoring"
  - Settings > Log Monitoring > Log ingest rules > "DXC ServiceGuard Log Monitoring"
  - Settings > Log Monitoring > Events extraction > "DXC ServiceGuard Error Logs"
  - Settings > Log Monitoring > Events extraction > "DXC ServiceGuard Cron Error Logs"
  - Settings > Log Monitoring > Processing > "DXC ServiceGuard Processing Rule-1"
  - Settings > Log Monitoring > Processing > "DXC ServiceGuard Processing Rule-2"

For more information you can check the PX documentation on Serviceguard monitoring:

 $https://github.dxc.com/pages/Innovation-Automation/dynatrace\_documentation/user\_guides/monitoring/cluster\_monitoring/serviceguard/serviceguard\_monitoring/$ 

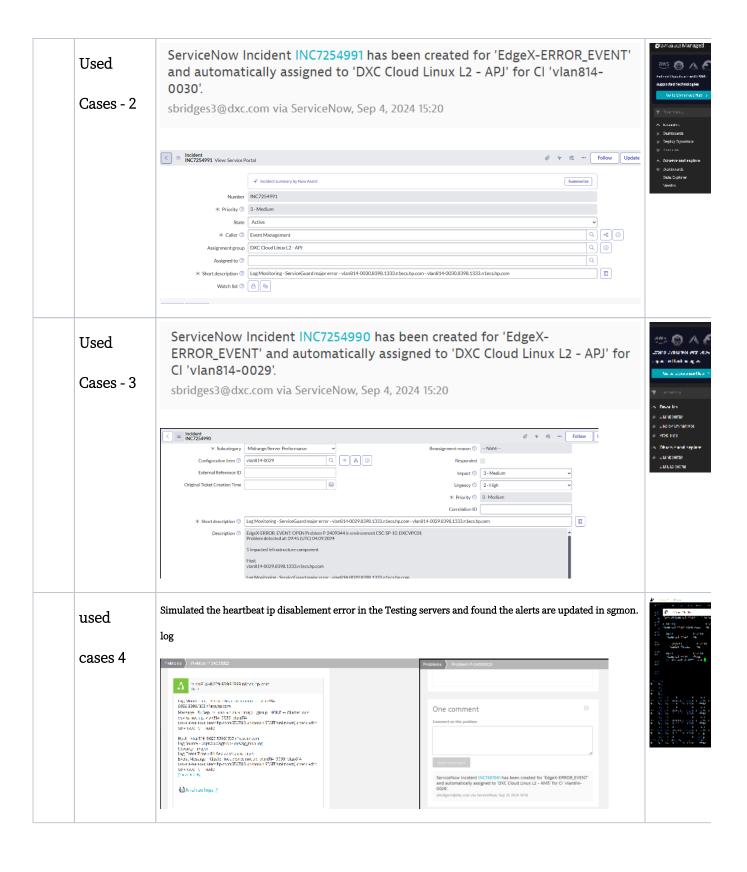
- A user with permission to connect on Port 22 and run the required commands and install SGMON.
- Ensure the server has been onboarded in Raffia inventory.
- Ensure you have Davis data units (DDU), since extension will require DDUs to collect metrics.
- Ensure the server has gunzip tool to unzip and install the serviceguard package.
- SGMON solution requires PERL on the ServiceGuard RHEL / HP-UX server.
- SGMON will use the default PERL running on the ServiceGuard RHEL / HP-UX server. Default perl will run on /bin/perl.
- Check the perl version using command /bin/perl -v. Perl version should be 5.26.3 or greater.
- SGMON solution requires the below list of perl modules, which are available in standard perl distribution itself.

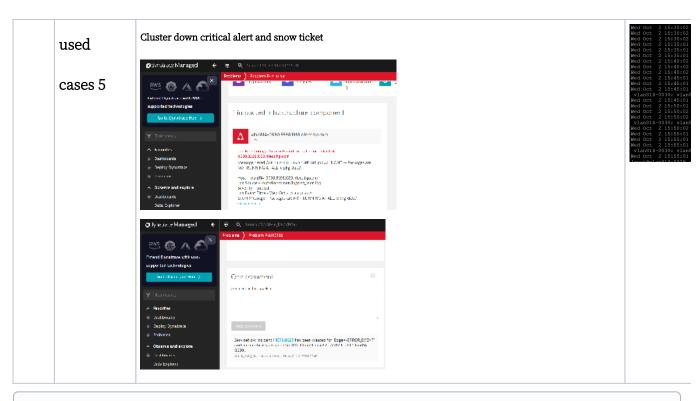
0	File::Basename
0	File::Spec::Functions
0	Fentl qw(:flock)
0	POSIX qw(strftime)

Getopt::Long

2	Deploy	SGMON solution has to be deployed in the ServiceGuard sever.	JFrog Platforn
	•	Download the SERVICEGUARD package (serviceguard.tar.gz) from SERVICEGUARD	O Artifactory
	SGMON •	Login to your servicegaurd HPUX / Linux server.	Packages
	•	Verify whether the server has perl running on it using /bin/perl -v command.	● Builds  E Artifacts
	Solution	Verify whether you have a directory /opt/dxc in serviceguard server.	
	•	If not available create the director.mkdir /opt/dxc	$\underline{\psi}$ Distribution
	•	Copy the serviceguard.tar.gz package into servicegaurd HPUX / Linux server into /opt/dxc directory.	<ul><li>Pipelines</li><li>Integrations</li></ul>
	•	Run the below commands to install the package,	EnterpriseX licens rev 75514900 Lice
		od /opt/dxc	Ji TOS © Copyright 2024
		○ gunzip serviceguard.tar.gz	
		tar -xvf serviceguard.tar	
		ls –l /opt/dxc/sgmon #to check all scripts available with conf/ and logs folder	
		Opt/dxc/sgmon folder will contain the below list of files / folder	
		UXMONlock.pm	
		■ UXMONloglib.pm	
		UXMONreadparam.pm	
		UXMONsgmon	
		changelog.md	
		conf/sg_mon.conf	
		logs/	
		vi /opt/dxc/sgmon/conf/sg_mon.conf #To update your sgmon configuration file.	
3	Update	Example sg_mon.cfg file # PKG[0]=XYZ Package name 1 # PKG_NODE[0]=ABC Primary node on	# ############# # example con # REARM = TRU PKG[0]=clpkg
	SGMON	which the package must run # PKG_SWTCH[0]=1 Set to 1 if Package_switching should be	# PKG[0]=sg_p # PKG[1]=sg_p # PKG[2]=sg_p
	DOMOT	ENABLED # Set to 0 if Package_switching must not be ENABLED PKG[0]=pkginfra;	# QUORUM_SERV # QUORUM_SERV # LAN_MON=1 # GROUP=MYGRO
	Configur	<pre>PKG_NODE[0]=pov-eprh802; PKG_SWTCH[0]=1 PKG[1]=pkgapache; PKG_NODE[1]=pov-eprh802; PKG_SWTCH[1]=1</pre>	# ALM 20761 - DISABLE_CLUST ####################################
	ation		froot@vlan814
	File		

4	Setup SGMON Scheduler	Create a cron job with the following command to setup sgmon solution.  crontab -e #add the below command at the bottom and save  0,5,10,15,20,25,30,35,40,45,50,55 * * * * /bin/perl -I /opt/dxc/sgmon /opt/dxc /sgmon/UXMONsgmon -c /opt/dxc/sgmon/conf/sg_mon.cfg -l /opt/dxc/sgmon/logs /sg_mon.log >/dev/null 2>/opt/dxc/sgmon/logs/sg_mon_cron.log  SGMon solution will run every 5 mins to check the status of the packages that are configured.	# QUORNEM_SERVER[1]=# # LAN MON=1 # LAN MON=1 # GROID-WINGROUP # ALM 20761 - Enable DISABLE_CLUSTER_LOCK ####################################
5	SGMON Log Update	■ SGMon solution will run every 5 mins and check the status of the serviceguard setup and update the log file with details. Sample log file contains below information,  #Sample sg_mon log file content #tail -f /opt/dxc/sgmon/logs/sg_mon.log Wed Mar 13 13:04:25 2024:  INFO: UXMONsgmon is running now, pid=2938672 Wed Mar 13 13:04:25 2024: INFO: UXMONsgmon end, pid=2938672 Wed Mar 13 13:10:33 2024: INFO: UXMONsgmon is running now, pid=2940999 Cluster lock device not up: pov-eprh802: /dev/sdc(STATUS:unknown) check with cmviewcl -v -l node Wed Mar 13 13:10:33 2024: major: group=NONE - Packages pkgapache, pkginfra: PKG_SWITCH is DISABLED, enable with "cmmodpkg -e -v pkgapache pkginfra" Wed Mar 13 13:10:33 2024: INFO: UXMONsgmon end, pid=2940999 Mon Mar 18 09:50:03 2024: INFO: UXMONsgmon is running now, pid=2005796 Mon Mar 18 09:51:43 2024: major: group=NONE - Packages are running on ADOPTIVE nodes: pkginfra (pov-eprh803), pkgapache (pov-eprh803) Mon Mar 18 09:51:43 2024: major: group=NONE - No alternate node available for package(s) pkginfra, pkgapache: check with cmviewcl -v Mon Mar 18 09:51:43 2024: major: group=NONE - Mon Mar 18 09:51:43 2024: INFO: UXMONsgmon end, pid=2005796	######################################
6	Used Cases - 1	Message: Wed Sep 4 15:30:02 2024: major: group=NONE Packages clpkg_data1: PKG_SWITCH is DISABLED, enable with "cmmodpkg -e -v clpkg_data1"	





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① Internal Use Only

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