

STORMSHIELD



SYSTEM CONFIGURATION GUIDE Version 2

Document last updated: July 4, 2024 Reference: sls-en system configuration gde



Table of contents

Change log	
Getting started	5
System Monitor	6
Services	
System Processes	
Network Stack	
Routing Table	
Address Resolution Protocol (ARP) Table	
Network Interface	
Disk Usage	
SNMP Monitoring	
System Settings	
General	11
Usage Data	
SMTP	
NTP	
SNMP	
HTTPS	
Syslog	
Support Connection	
Modes of Operation	
SLS Collector	20
Syslog Forwarder	23
Fetching logs from Remote Storage using Syslog Forwarder File Fetcher	
SSH Key Pair for li-admin	
Lockout Policy	
Configuring Lockout Policy	
Enrichment	
Standalone Mode	
Enrichment Propagation	
System Notifications	
Disk Usage Notification	
Configure Custom Disk Usage Notification	
CPU Usage Notification	
Memory Usage Notification	
Audit Logs	
Selectable Audit Logs	
My Preferences	
Account	
User Details	
Change Password	
Date/Time Preferences	
API Access Key	
User Interface	





Page Size Configuration	.48
Settings Page Help	49
Dashboard Behavior	49
Growl Notification Position	49
Search Help	49
Search Log Fields	.49
Export Management	51
Adding a Target	51
	52
Job Status	
	53
Sync	55
Using Sync	55
Further reading	57



Change log

Date	Description
July 4, 2024	New document





Getting started

Welcome to the SLS version 2 System Configuration Guide.

System Configuration incorporates all the system-related processes to configure SLS. You can use **System Settings** to configure settings and make changes in the functional operation of the system. You can monitor the resources used by the SLS using the **System Monitor**. **System Notifications** enables you to configure Disk, CPU, and Memory Notifications.

Using **Export Management**, you can export raw logs to a remote target. **Sync** setting item allows you to synchronize configurations between SLSs. You can also customize general settings, search-related settings, date/time settings, notification settings, and change the system password from the **My Preferences** section.

I!'	System						
Ø	(h)	p		13	C	ß	
0	System Monitor	System Settings	LogPoint License	Updates	Open Door	Backup and Restore	
ø		~	-				
۹	Plugins	Sync	LogPoint Director	Applications			
Þ							
B							
٩							

This guide helps you to understand and perform the following tasks:

- Configure SMTP to send e-mails from the SLS.
- Update the settings under the General tab.
- Synchronize the system time with network timeserver.
- · Secure the server connection to access SLS from the Internet.
- Create an encrypted end-to-end communication channel between the SLS and the SLS support.
- Operate SLS as a SLS Collector.
- Operate SLS as a Syslog Forwarder.
- Get notified about the total disk usage by the SLS file systems.
- Get notified about the CPU usage.
- Get notified about the Memory usage.
- Add a target to export raw logs from the Search results.
- Replicate the configurations in other SLS(s).

In this document, Stormshield Log Supervisor is referred to in its short form SLS. Images used in this document are from the partner vendor's (Logpoint) software program. In your SLS, the graphics may vary but user experience is exactly the same.





System Monitor

System monitor tracks what programs are running, how resources are used, and system status information. It also regularly tests services meant to be running and automatically generates alerts for problems so you can address them quickly.

Go to Settings >> System Settings from the navigation bar and click System Monitor.

Services

It lists all running services and their status. You can stop, start, or restart them if you need to.

Starting Services

Click the Start Service icon from Actions.

← BACK System Monitor	+ BACK System Monitor			
Services		SERVICES 🕨 START ALL 🔤 STOP ALL 🦪 RESTART ALL		
System Processes	•	S.N. Application	Status	Actions
Network Stack	•	1 alert_dispatcher	Stopped	\longrightarrow
Routing Table	•	2 alert_engine	Running	Stop
ARP Table	•	3 analyzer	Running	Restart
Network Interfaces	•	4 auto_tuner	Running	■2
Disk Usage	•	5 backup	Running	
Disk Usage	•	6 batch_processor	Running	■0

To start all the services, click Start All.

Stopping Services

Click the Stop Service icon from Actions.

To stop all the services, click Stop All.

Restarting Services

Click the Restart Service icon from Actions.

To restart all the services, click **Restart All**.

System Processes

It shows all the processes currently running on the operating system where SLS is installed. The process list shows users, memory used by processes, commands on run, and process ids.

You can reload the page by clicking Reload.

Network Stack

The Network Stacks are used in communication networks.

Routing Table

Displays the routes to particular network destinations.



Address Resolution Protocol (ARP) Table

A protocol for mapping an Internet Protocol address (IP address) to a physical machine address that is recognized in the local network. This item data lists all the connection status under this protocol.

Network Interface

Displays SLS's network status. It shows the state of all active interfaces such as eth0, I0, he-ipv6, tun0, tun1 and tun10000.

Disk Usage

Displays the total file system disk usage. It lists available disk space, disk usage and location of the file system. SLS generates disk notifications when disk usage reaches 80% and again when the disk usage reaches 90%.

When available disk space falls to less than 2 GB, SLS stops collecting or fetching any logs and resumes only when there is at least 4 GB of available space. When the available space for a partition containing a repo path is less than 250 MB, SLS stops storing log messages in that partition and generates an audit log specifying that there is insufficient disk space available to store logs. SLS resumes data storage when enough space is available.

SNMP Monitoring

In addition to the SLS UI, you can also monitor the status of your SLS using **SNMP walk**. Use the base OID **1.3.6.1.4.1.54322.1** with the provided community string to get a list of all the exposed OIDs and their corresponding details.

🚺 NOTE

You can also use enterprises.54322.1 as the base OID.

Syntax to monitor SLS using SNMP walk:

snmpwalk -v2c -c <Community String> <IP address of SLS>:161 <OID>

SN	OID	Information
1	1.3.6.1.4.1.54322.1.1	Last recorded messages per second in the normalizer
2	1.3.6.1.4.1.54322.1.2	Average messages per second in the last 5 minutes in the normalizer
3	1.3.6.1.4.1.54322.1.3	Last recorded messages per second in the store handler
4	1.3.6.1.4.1.54322.1.4	Average messages per second in the last 5 minutes in the store handler
5	1.3.6.1.4.1.54322.1.5	Services that are currently down
6	1.3.6.1.4.1.54322.1.6	SLS version
7	1.3.6.1.4.1.54322.1.7	Status of the log collection services

SLS exposes the following OIDs:





SN	OID	Information
8	1.3.6.1.4.1.54322.1.7.1	CPU consumption in collection (in %)
9	1.3.6.1.4.1.54322.1.7.2	Memory consumption in collection (in %)
10	1.3.6.1.4.1.54322.1.7.3	Queue in collection (in MB)
11	1.3.6.1.4.1.54322.1.8	Status of the normalization services
12	1.3.6.1.4.1.54322.1.8.1	CPU consumption in normalization (in %)
13	1.3.6.1.4.1.54322.1.8.2	Memory consumption in normalization (in %)
14	1.3.6.1.4.1.54322.1.8.3	Queue in normalization (in MB)
15	1.3.6.1.4.1.54322.1.9	Status of enrichment services
16	1.3.6.1.4.1.54322.1.9.1	CPU consumption in enrichment (in %)
17	1.3.6.1.4.1.54322.1.9.2	Memory consumption in enrichment (in %)
18	1.3.6.1.4.1.54322.1.9.3	Queue in enrichment (in MB)
19	1.3.6.1.4.1.54322.1.10	Status of indexing services
20	1.3.6.1.4.1.54322.1.10.1	CPU consumption in indexing (in %)
21	1.3.6.1.4.1.54322.1.10.2	Memory consumption in indexing (in %)
22	1.3.6.1.4.1.54322.1.10.3	Queue in indexing (in MB)
23	1.3.6.1.4.1.54322.1.11	Status of the dashboard and alerting service
24	1.3.6.1.4.1.54322.1.11.1	CPU consumption for dashboards and alerts (in %)
25	1.3.6.1.4.1.54322.1.11.2	Memory consumption for dashboards and alerts (in %)
26	1.3.6.1.4.1.54322.1.11.4	Disk usage by dashboards and alerts
27	1.3.6.1.4.1.54322.1.11.5	Number of active search processes (live searches)
28	1.3.6.1.4.1.54322.1.12	ZFS pool statistics
29	1.3.6.1.4.1.54322.1.12.1	Names of the ZFS pools
30	1.3.6.1.4.1.54322.1.12.2	Status of the ZFS pools
31	1.3.6.1.4.1.54322.1.12.3	Disk allocation for the ZFS pools
32	1.3.6.1.4.1.54322.1.12.4	Free disk space in the ZFS pools
33	1.3.6.1.4.1.54322.1.12.5	Read operations in the ZFS pools
34	1.3.6.1.4.1.54322.1.12.6	Write operations in the ZFS pools
35	1.3.6.1.4.1.54322.1.12.7	Read bandwidth in the ZFS pools
36	1.3.6.1.4.1.54322.1.12.8	Write bandwidth in the ZFS pools
37	1.3.6.1.4.1.54322.1.12.9	Failed disks in the pools (if any)
38	1.3.6.1.4.1.54322.1.13	Statistics for the log size in repos





SN	OID	Information
39	1.3.6.1.4.1.54322.1.13.1	Names of the repos
40	1.3.6.1.4.1.54322.1.13.2	Log size of repos in the previous day
41	1.3.6.1.4.1.54322.1.13.3	Log size of repos in the previous month
42	1.3.6.1.4.1.54322.1.14	Status of LUNs in systems with multipath devices
43	1.3.6.1.4.1.54322.1.14.1	Name of the multipath
44	1.3.6.1.4.1.54322.1.14.2	UUID of the multipath
45	1.3.6.1.4.1.54322.1.14.3	SysFS device-mapper's blocked device name of the multipath
46	1.3.6.1.4.1.54322.1.14.4	Device vendor/product/revision information
47	1.3.6.1.4.1.54322.1.14.5	Total number of detected paths of the multipath
48	1.3.6.1.4.1.54322.1.14.6	Total active paths of the multipath
49	1.3.6.1.4.1.54322.1.14.7	Product information
50	1.3.6.1.4.1.54322.1.14.8	Status of the multipath
51	1.3.6.1.4.1.54322.1.14.9	Size of the multipath
52	1.3.6.1.4.1.54322.1.14.10	Automatic failback configuration of the multipath
53	1.3.6.1.4.1.54322.1.30	Status of the SLS Collector buffer
54	1.3.6.1.4.1.54322.1.30.1	The logs in the buffer not received by the main SLS
55	1.3.6.1.4.1.54322.1.30.2	The time (in seconds) since the last message was received by the main SLS

NOTE

The OIDs for **ZFS pool statistics**, **statistics for the log size in repos**, and **LUN status** provide information for **all** these entities. To retrieve the information for a single one, add an extra number corresponding to the respective pool, repo, or LUN after the provided OID. For example, you can use **enterprises.54322.1.12.1** to retrieve the names of all the ZFS pools and **enterprises.54322.1.12.11** to retrieve the name of the first ZFS pool.

Additionally, you can use the following default OIDs for a Linux-based system:

General Statistics

SN	OID	Information
1	1.3.6.1.4.1.2021.11	CPU and swap information
2	1.3.6.1.2.1.2.2.1	Network interfaces information
3	1.3.6.1.2.1.25.2.3.1.6.2	Disk usage information
4	1.3.6.1.2.1.25.1.1.0	Uptime information

CPU load





SN	OID	Information
1	1.3.6.1.4.1.2021.10.1.3.1	CPU load over the last minute
2	1.3.6.1.4.1.2021.10.1.3.2	CPU load over the last 5 minutes
3	1.3.6.1.4.1.2021.10.1.3.3	CPU load over the last 15 minutes
4	1.3.6.1.4.1.2021.11.9.0	Percentage of CPU time consumed by user
5	1.3.6.1.4.1.2021.11.50.0	Raw CPU time consumed by user
6	1.3.6.1.4.1.2021.11.10.0	Percentage of CPU time used by system
7	1.3.6.1.4.1.2021.11.52.0	Raw CPU time used by system
8	1.3.6.1.4.1.2021.11.11.0	Percentage of idle CPU time
9	1.3.6.1.4.1.2021.11.53.0	Raw idle CPU time
10	1.3.6.1.4.1.2021.11.51.0	Raw nice CPU time

Memory statistics

SN	OID	Information
1	1.3.6.1.4.1.2021.4.3.0	Total swap size
2	1.3.6.1.4.1.2021.4.4.0	Available swap space
3	1.3.6.1.4.1.2021.4.5.0	Total RAM in the machine
4	1.3.6.1.4.1.2021.4.6.0	Total RAM used
5	1.3.6.1.4.1.2021.4.11.0	Total free RAM
6	1.3.6.1.4.1.2021.4.13.0	Total shared RAM
7	1.3.6.1.4.1.2021.4.14.0	Total RAM buffered
8	1.3.6.1.4.1.2021.4.15.0	Total cached memory

Disk statistics

SN	OID	Information
1	1.3.6.1.4.1.2021.9.1.6.1	Total size of the disk or partition (in KB)
2	1.3.6.1.4.1.2021.9.1.7.1	Available space on the disk
3	1.3.6.1.4.1.2021.9.1.8.1	Used space on the disk
4	1.3.6.1.4.1.2021.9.1.9.1	Percentage of used space on the disk
5	1.3.6.1.4.1.2021.9.1.10.1	Percentage of inodes used on the disk
6	1.3.6.1.2.1.1.3.0	System uptime



System Settings

System Settings is used to configure all the system related settings.

General

- 1. Go to Settings >> System Settings from the navigation bar and click System Settings.
- 2. Select General.

SYSTEM SETTINGS				?⊗
General	Þ	LOGPOINT INFORMATION		
SMTP	•	IP:	10.45.10.172	
NTP		Host Name:	Logpoint-172	
INTE		LogPoint Name:	LogPoint172	
SNMP	•	Browser tab title:		
HTTPS	•	Server Alias:	10.45.10.172	
Syslog	•	Identifier:	2ea932a7bea4451b855967837d552a34	
Support Connection	•	Modes:		•
Modes of Operation	•	DEFAULT LOGIN SCREEN		
SSH Key Pair for li-admin	▶	Default Login Screen From:	LogPoint Authentication	-
Lockout Policy	•	SESSION INACTIVITY TIMEOUT		
Enrichment	•	Timeout (minutes):	15	\$
Data Privacy Module	Þ	BASE REPO PATH FOR HIGH AV	AILABILITY	
Each section needs to be	VA	Path:	/opt/immune/storage/	
saved separately. Please save your changes before moving to next tab.			Save	ancel

- 3. Enter a SLS Name.
- 4. Enter a Browser tab title, this title is appended to the title of the tab.
- 5. Enter or update the **Server Alias**. Updating it does not update the system IP Address or the DNS.

🚺 NOTE

- Identifier is the unique value given to each SLS.
- **Modes** contains the options *Search Head* and *Distributed SLS*. Selecting either of these options does not have any effect on SLS. The **Modes** field is made available for future implementation of the SLS Director (Director Console).
- 6. Select the **Default Login Screen** for the SLS.
- 7. In **Session Inactivity Timeout, Timeout (minutes)**, enter a specific period of time, in minutes, when SLS users are timed out.





- Provide the Base Repo Path for High Availability to alter the default path /opt/immune/storage/. It is the base path for the repos from the remote machine.
- 9. Select either Collection Timestamp (col_ts) or Log Timestamp (log_ts) as per your requirement. The col_ts denotes the time when the log was collected in SLS, and the log_ts denotes the time when a device generated the log. The time conversion of log_ts occurs when a Normalization Policy is applied to the appropriate Collectors/Fetchers. Depending on the selection made in the Apply Time Range On section, either log_ts or col_ts value is displayed on the top of each row of the search results. Similarly, the time displayed in the search graph may either be log_ts or col_ts depending on the selection made.
- 10. Choose the **Over Scan Period (in minutes** and a **Time Zone**. The overscan period is the extra period (apart from the selected period) in which SLS searches for logs. Both the *col_ts* and the *log_ts* fields are saved in UTC and displayed according to the selected time zone.

🚺 NOTE

- Both the log_ts and col_ts key-value pairs are displayed in the search results.
- The **Time Range** is applied either on the *col_ts* or the *log_ts* across all the distributed SLSs.
- 9. Select a Time Zone.
- 10. Select Enable SOAR in SLS to enable incident investigation with Playbooks and Cases.

🚺 NOTE

- Enabling or disabling SOAR may take some time depending on available memory.
- SOAR is always disabled in the SLS Collector and Syslog Forwarder modes.
- 12. Click Save.

Usage Data

SLS collects and analyzes anonymized usage data by default. However, it does not collect Personally Identifiable Information (PII) data. You can also not share usage data by deselecting Share Usage Data. To deselect:

- 1. Go to Settings >> System Settings from the navigation bar and click System Settings.
- 2. Select General and scroll down to Usage Data.
- 3. Deselect Share Usage Data. You can also later share data by selecting it.

USAGE DATA
☑ Share Usage Data
Share anonymous usage data to help us improve our product and enhance your experience. Personally Identifiable Information (PII) data are not collected.
Save Cancel

4. Click Save.



SMTP

You need to configure SMTP so the alert engine can use it to forward information and SLS can send e-mails. You will also need to configure SMTP before using the **Data Privacy Module**.

- 1. Go to Settings >> System Settings from the navigation bar and click System Settings.
- 2. Select SMTP.

SYSTEM SETTINGS					88
General	•	SMTP			
SMTP	Þ	Server/Port:	10.0.3.4		25
NTP	•	Sender Name/Email:	John	john@logpoint.com	n
SNMP		Login Required:			
	•				
HTTPS	•				
Syslog	•	SMTP TEST			~
Support Connection	•				
Modes of Operation	►				
SSH Key Pair for li-admin	۱.				
Lockout Policy	•				
Enrichment	•				
Data Privacy Module	•				
Each section needs to be saved separately. Please save					
your changes before movin to next tab.	g			Save	Cancel

- 3. Provide the Server/Port.
- 4. Provide a Sender Name and an Email address.
- 5. If you enable the Login Required option, provide the Username and the Password.
- 6. Click Save.

To test the configuration, go through the following steps:

- 1. Click the SMTP Test section.
- 2. Enter the Subject of the test e-mail.
- 3. Provide an Email address.
- 4. Enter a Message.
- 5. Click Test SMTP.







SYSTEM SETTINGS						0 S
General	•	SMTP				
SMTP	•	Server/Port:		10.0.3.4	25	i i
NTP	•	Sender Name/Em	ail:	John	john@logpoint.com	
		Login Required:				
SNMP	•					
HTTPS	•					
Syslog	•	SMTP TEST				~
Support Connection	•	Subject:	SMTP confi	iguration test		
Modes of Operation	₽	Email:	lp.doc@log	point.com		
SSH Key Pair for li-admin	▶	Message:	Avenir	\$	I <u>U</u> T [*] T [*]	
Lockout Policy	▶		Test messag	ge		
Enrichment	•					ЛТР
Data Privacy Module	▶					
Each section needs to be saved separately. Please save						
your changes before movin to next tab.					Save Ca	ancel

NTP

NTP synchronizes the time of your SLS with a network timeserver.

- 1. Go to Settings >> System Settings from the navigation bar and click System Settings.
- 2. Select NTP.



SYSTEM SETTINGS			? 8
General	•	NTP SETTINGS	
SMTP	▶	✓ Is NTP enabled?	
NTP	Þ	Server: ntp.ubuntu.com	
SNMP	▶		
HTTPS	•		
Syslog	•		
Support Connection	•		
Modes of Operation	•		
SSH Key Pair for li-admin	•		
Lockout Policy	•		
Enrichment	•		
Data Privacy Module	•		
Each section needs to be saved separately. Please sa your changes before movin to next tab.		Save Restart	Cancel

- 3. Select Is NTP enable?.
- 4. Provide the Server address. You can add multiple server addresses by clicking the plus icon.
- 5. Click Save.

SNMP

SNMP allows you to monitor various metrics of SLS. If you enable the **SNMP**, your SLS listens to the **OIDs** that are forwarded to the 161 port.

To enable SNMP:

- 1. Go to Settings >> System Settings from the navigation bar and click System Settings.
- 2. Select SNMP.







SYSTEM SETTINGS			88
General	•	SNMP	
SMTP	►	SNMPD Port (UDP 161):	
NTP	•	COMMUNITY STRING	
SNMP	Þ	CommunityString	
HTTPS	Þ		
Syslog	•		
Support Connection	•		
Modes of Operation	۱.	Please provide single community string	
SSH Key Pair for li-admin	۱.		
Lockout Policy	•		
Enrichment	•		
Data Privacy Module	•		
Each section needs to be saved separately. Please save your changes before moving to next tab.			
		Save	Cancel

3. Select Enable.

- 4. Enter a **Community String**. The SNMP community string in SLS is a read-only community string that authenticates SLS. Use this community string in your SNMP clients to query SLS and retrieve information.
- 5. Click Save.

HTTPS

HTTPS authenticates SLS and prevents eavesdroppers from accessing the data in the network. **HTTPS** secures the server connection so SLS users can safely access SLS from the Internet.

You must have a certificate and a key to enable the HTTPS.

- 1. Go to Settings >> System Settings from the navigation bar and click System Settings.
- 2. Select HTTPS.







SYSTEM SETTINGS					8 8
General	•	HTTPS			
SMTP	•	Certificate:	certificate.crt		Browse
NTP	•	Key:	key.pfx		Browse
SNMP	Þ	LogPoint Certifica	tes have already been installed		
HTTPS					
Syslog	►				
Support Connection	▶				
Modes of Operation	▶				
SSH Key Pair for li-admin	▶				
Lockout Policy	►				
Enrichment	►				
Data Privacy Module	▶				
Each section needs to be saved separately. Please save					
your changes before movin to next tab.	g			Save	Cancel

- Click Browse to find and select the Certificate. The certificate file must have a .CRT extension and must meet the PEM encoded x.509 standard. SLS certificates do not replace existing user certificates of 2048 bits.
- 4. Click **Browse** to find and select the **Key**. The key file must have a .Key extension.
- 5. Click Save.

Syslog

You can add a custom TLS certificate for log collection via Syslog. The added certificate is used by the Syslog collector to collect logs through TLS on port 6514.

- 1. Go to Settings >> System Settings from the navigation bar and click System Settings.
- 2. Select Syslog.







SYSTEM SETTINGS			Q S
General	►	TLS	
SMTP	▶	Certificate:	Browse
NTP	Þ	Key:	Browse
SNMP	Þ	LogPoint Certificates have already be	en installed
HTTPS	▶		
Syslog	►	SEQUENCE NUMBERING	
Support Connection	►	Add sequence numbers on log rec	eived from syslog collector
Modes of Operation	▶	COLLECTOR	
SSH Key Pair for li-admin	▶	Message Length: 12	\$
Lockout Policy	▶		1KB / 64KB
Enrichment	▶		
Data Privacy Module	Þ		
Each section needs to be saved separately. Please save			
your changes before movin to next tab.			Save Cancel

- 3. Upload your **TLS Certificate** and **Key**. The certificate must have the .crt extension and the key must have the .key extension. Only SLS Administrators can add a certificate and key. The certificate must be of **PEM encoded x.509** standard.
- 4. Enable Add sequence numbers on log received from syslog collector to provide a sequence number to the syslogs. The number is assigned on a device per protocol basis to each log collected from the Syslog Collector.
- 5. In **Message length**, you can define the size for Syslog messages. The maximum message size can be 64 KB, with a default size of 12 KB. Any message that exceeds the maximum size is divided into multiple events and truncated at the defined size. For example, if the message length is 40 KB, logs larger than that size are chunked into 40 KB segments.
- 6. Click Save.

Support Connection

The **Support Connection** creates an encrypted end-to-end communication channel between **SLS** and **SLS** support. It is used by **SLS Support** to understand, troubleshoot, and fix the issues on your deployment issues.

Before enabling support connection, make sure that your firewall is not blocking the connection from your SLS to the following:

Domain	Port
reverse.logpoint.com	1193/UDP
customer.logpoint.com	443/TCP



1. Go to Settings >> System Settings from the navigation bar and click System Settings.

2. Select Support Connection.

SYSTEM SETTINGS						8
General	▶	SUPPORT CONNEC				
SMTP	▶	Enable Support	Connection			
NTP	Þ	Retrieving supp	port connection IP			0
SNMP	•					
HTTPS	▶	SUPPORT CONNEC	TION ENABLE DURATION			
Support Connection		🔽 Enable Support	Connection Forever			
Modes of Operation	•				Minutes:	
SSH Key Pair for li-admin	•	0 Support connectio	an is enabled	÷		*
Lockout Policy	•					
Data Privacy Module	▶					
Each section needs to be saved separately. Please sa your changes before moving to next tab.						
					Save	Cancel

3. Enable Support Connection. SLS starts retrieving the support connection IP.

SYSTEM SETTINGS						? ×
General	▶	SUPPORT CONNECTIO	N			
SMTP	Þ	Enable Support Control	nnection			
NTP	▶	10.99.0.18				0
SNMP	•					
HTTPS	►	SUPPORT CONNECTIO	N ENABLE DURA			
Support Connection		Enable Support Control	nnection Forever	r		
Modes of Operation	▶	Days: O	Hours:	A	Minutes:	
SSH Key Pair for li-admin	Þ	Support connection is	*	Ŧ		~
Lockout Policy	▶					
Data Privacy Module	•					
Each section needs to be saved separately. Please sa your changes before movin to next tab.						
					Save	Cancel

- 4. Provide the retrieved support connection IP to the SLS Support team.
- 5. Provide the **Support Connection Enable Duration**. The support session expires after it exceeds the duration.





🚺 NOTE

Support connection never expires if you select **0:0:0** as the time duration, or **Enable Support Connection Forever**.

6. Click Save.

Modes of Operation

SLS can be operated in two modes using the Modes of Operation.

- 1. SLS Collector
- 2. Syslog Forwarder

You can convert a regular SLS into either a SLS Collector or a Syslog Forwarder.

SYSTEM SETTINGS		୧ ଓ
General	•	LOGPOINT COLLECTOR CONFIGURATION
SMTP	۱.	If this LogPoint is configured as Collector, prescribed remote LogPoint will store all the forwarded logs. Devices for this LogPoint should be added at remote LogPoint by choosing this LogPoint as distributed collector.
NTP	•	
SNMP	Þ	 Is this a LogPoint Collector installation? Enable Buffering
HTTPS	•	- Buffering stores data in local persistence during network outage and makes stored data available when the network is back online.
Syslog	•	Stored data available when the network is back online.
Support Connection	•	
Modes of Operation	Þ	Is this a Syslog Forwarder installation?
SSH Key Pair for li-admin	•	
Lockout Policy	•	
Enrichment	•	
Data Privacy Module	•	
Each section needs to be saved separately. Please save your changes before moving to next tab.		
		Save Cancel

SLS Collector

SLS Collector collects logs from different sources, normalizes them using the signatures applied, and forwards them to a configured remote SLS. The remote SLS configures the sources and the storage locations for the logs. SLS Collector can only collect the logs. Therefore, it does not contain the *Dashboards*, the *Search*, the *Report*, and the *SLS SOAR* sections. The name of each SLS node must be unique in a distributed deployment.

Configuring a SLS to a SLS Collector

You need at least two SLS servers, one as the Collector and another as the Main SLS.



1. Go to Settings >> System Settings from the navigation bar and click System Settings.

2. Select Modes of Operation.

SYSTEM SETTINGS		0 0
General	•	LOGPOINT COLLECTOR CONFIGURATION
SMTP	Þ	If this LogPoint is configured as Collector, prescribed remote LogPoint will store all the forwarded logs. Devices for this LogPoint should be added at remote LogPoint by choosing this LogPoint as distributed collector.
NTP	•	
SNMP	Þ	 Is this a LogPoint Collector installation? Enable Buffering
HTTPS	•	Buffering stores data in local persistence during network outage and makes stored data available when the network is back online.
Syslog	•	
Support Connection	Þ	SYSLOG FORWARDER
Modes of Operation	Þ	
SSH Key Pair for li-admin	Þ	
Lockout Policy	•	
Enrichment	▶	
Data Privacy Module	•	
Each section needs to be saved separately. Please sa		
your changes before moving to next tab.	9	Save Cancel

- 3. In SLS Collector Configuration, select Is this a SLS Collector Installation?.
- 4. Select Enable Buffering to store the data in local persistence during a network outage.

🚺 NOTE

By default, the logs are stored in the buffer for 7 days. If you want to change the default retention period, contact SLS Support.

- 5. Click Save.
- 6. Switch to the Main SLS.
 - 6.1. Go to Settings >> System Settings from the navigation bar and click Open Door.
 - 6.2. Enable Open Door.
 - 6.3. Note the **Private IP** and the **Password**.





OPEN DOOR			8 8
LOGPOINT INFO	RMATION		
Open Door:			
Private IP:	10.13.176.1		
Netmask:	255.255.255.0		
MTU:	1200		\$
Password:	•••••		Change
		Submit	Cancel

7. Switch to the **Collector SLS**.

7.1. Go to Settings >> Configuration from the navigation bar and click Remote SLS.7.2. Enter the IP Address of the *Main SLS*, the Password, and the Private IP.

REMOTE LOGPOINT		0 X
REMOTE LOGPOINT INFORMATION		
IP Address or DNS Name:	10.45.3.70	
Password:		
Private IP:	10.89.166.1	
STATUS		
Connected		
		Submit

8. The **Collector** is automatically added under **Settings** >> **Configuration** from the navigation bar and click **Distributed Collector** in the **Main SLS**. Activate it from the *Actions* column.

Dis	stribu	ted Collectors							
						MORE 🔻	0 SELECTED	Search	0
	S.N.	Name	IP	Identifier	Туре		Description		Actions
	1	LogPoint91	10.45.3.91	c5f9735137804be8abcbfdc3862e28b8	LogPoint Collector				0 🛍

Using a SLS Collector

You can use the Collector to collect logs by adding it as a device in the Main SLS.

- 1. In the Main SLS, go to Settings >> Configuration from the navigation bar and click Devices.
- 2. Click Add.
- 3. Specify the Collector as a Distributed Collector.
- 4. To verify the connection between the devices, switch to the Collector SLS.
 - Go to View Devices.





LOGPOINT collector 🖵 View Devic	es 💠 Settings	05:02:43	🛔 admin 👻
DeviceB			
10.94.0.94			

To distinguish logs collected and normalized through the **Collector**, you can use the system defined field, **collected at** in the search query.

NOTE

- If you disable the **Collector**, make sure that you remove it from the list of devices on the **Main SLS**.
- If you change the password on the **Collector** machine from **Settings** >> **Remote SLS**, all the services of the Collector restart. The logs are not collected until the *Collectors and Fetchers* are up and running.

Syslog Forwarder

Syslog Forwarder collects logs from different sources, normalizes them using the signatures applied, and forwards them to a configured SLSs and a target storage. Unlike SLS Collectors, Syslog Forwarder can not act as a buffer.

Syslog Forwarder was implemented to introduce the concept of Air Gap. The Main SLSs are usually located in high-security zones whereas Syslog Forwarders and other devices are in low-security zones.

Converting a SLS to a Syslog Forwarder

- 1. Go to Settings >> System settings from the navigation bar and click System Settings.
- 2. Select Modes of Operation.
- 3. In Syslog Forwarder, select the Is this a Syslog Forwarder installation?.





SYSTEM SETTINGS		08
General	•	LOGPOINT COLLECTOR CONFIGURATION
SMTP	▶	If this LogPoint is configured as Collector, prescribed remote LogPoint will store all the forwarded logs. Devices for this LogPoint should be added at remote LogPoint by choosing this LogPoint as distributed collector.
NTP	•	
C1111D		☐ Is this a LogPoint Collector installation?
SNMP	•	Enable Buffering
HTTPS	•	Buffering stores data in local persistence during network outage and makes
		stored data available when the network is back online.
Syslog	•	
Support Connection	•	SYSLOG FORWARDER
Modes of Operation	•	✓ Is this a Syslog Forwarder installation?
SSH Key Pair for li-admin	۶.	
Lockout Policy	•	
Enrichment	•	
Data Privacy Module	•	
Each section needs to be saved separately. Please sa	10	
your changes before moving to next tab.		Save Cancel

4. Click Save.

18/06/05 10:24:56	
vg_ts=2018/06/05 10:24:56 < device_ip=10.94.0.94 < device_name=DeviceA < col_type= <mark>syslog</mark> < repo_name=_logpoint < col_ts=2018/06/05 10:24:56 < collected_at=LogPoint91 < logpoint_name=LogPoint < col_ts=2018/06/05 10:24:56 < collected_at=LogPoint91 < col_ts=2018/06/05 10:24:56	
llo	

Using a Syslog Forwarder

To use a Syslog Forwarder after converting it, you need to:

- 1. Exporting a config file
- 2. Importing the config file
- 3. Adding target
- 4. Adding devices

Exporting a config file

- Switch to the Main SLS and go to Settings >> Configuration from the navigation bar and click Distributed SLSs.
- 2. Add a Syslog Forwarder.
- 3. Click the Export configuration icon in the Actions column of the concerned Syslog Forwarder.





	D REMOTE LOGPOINT C ADD SYSLOG FORWARDER				Search	8
-	IP Address/DNS Name	LogPoint Name	Private IP Address	Status		Actions
1	10.45.3.91			SYSLOG FORWARDER		۵

巛 🗶 Page 1 of	ı > ≫ C		Displaying 1 - 1 of 1 Page size: 25	Ŧ
				*

- 4. The config file is downloaded on your machine.
- 5. Save the config file.

Importing the config file

 Switch to the Syslog Forwarder and go to Settings >> System Settings from the navigation bar and click Sync.



IMPORT LOGPOINT DATA			8
LogPoint Data:	sync_configjson		Browse
		Upload	Cancel

- 3. Browse for the config file saved earlier.
- 4. Click Upload.

Adding a Target

Targets are SLSs that receive logs from Syslog Forwarder.

1. On the Syslog Forwarder, go to Settings >> Configuration from the navigation bar and click Syslog Forwarder.





2. Click Targets.

REMOTE TARGET		8
Add IP Add Storage		
S.N. Name	Pattern	Actions
1 Target_10.45.3.70	\S+	Ē
2 Demo-Storage	\S+	<u>ا</u>
<pre>(({ Page 1 of 1)))</pre>	Displaying 1 - 2 of 2 Page size:	25 🔻

- 3. Click Add IP.
- 4. Enter the Name and IP address of the target.
- 5. Specify the **Pattern** of the logs to be forwarded. If you do not specify a pattern, all the logs are forwarded.
- 6. Provide a Port number for the input port of the remote target machine.
- Mark the Enable UDP checkbox to use the User Datagram Protocol (UDP). If you do not select the option, TCP is used.
 - If you Enable UDP, choose the UDP Size (In Bytes).

ADD REMOTE TARGET			۲
TARGET INFORMATION			
Name:	Target_10.45.3.70		
IP:	10.45.3.70		
Pattern:	\S+		
Port: Enable UDP:	514		\$
		Submit	Cancel

8. Click Submit.

Adding a Target Storage

Target storage enables airgap in low-security zones.

- 1. On the Syslog Forwarder, go to Settings >> Configuration from the navigation bar and click Syslog Forwarder.
- 2. Click Targets. Click Add Storage.
- 3. Provide the **Name** of the storage.





4. Specify the **Path** to the remote storage. The format of the path should be:

//<IP Address>/<Path>/ For example: //192.168.2.247/storage/

- 5. Specify the **Pattern** of the logs to be forwarded. If you do not specify a pattern, all the logs are forwarded.
- 6. Provide the Username and the Password.

ADD STORAGE TARGET			8
STORAGE INFORMATION			
Name:	Demo-Storage		
Path:	//10.45.1.38/SFFF_share/		
Pattern:	\S+		
Username:	administrator		
Password:	•••••		
		Submit	Cancel

7. Click Submit.

🚺 NOTE

- You can add multiple *Remote Targets* but only **one***Target Storage*. The **Add Storage** option is disabled once the configuration for a target is complete.
- For each IP added as the Remote Target, add Syslog Forwarder in the respective target SLS.

Adding a Device

- 1. On the Syslog Forwarder, go to Settings >> Configuration from the navigation bar and click Syslog Forwarder.
- 2. Click Add.

🚺 NOTE

The Device section lists all the devices configured as the Syslog Forwarder in the Main SLS.

- 3. Select devices by double-clicking on them.
- 4. Provide Remote Target(s). It can be a remote IP or a remote storage.
- 5. Click Submit.





CONFIGURE DEVICI	ES					8
DEVICE-TARGET INFO	RMATION					
Device:						
Available	Search	Q,	Selec	ted	Search	Q,
ps_mac Imported Device 1 Imported Device 2 Iocalhost			Pevice	₽Ă		
Remote Target:	Dura Guarda X	_				_
Target_10.45.3.70 ×	Demo-Storage ×					
				l	Submit	Cancel

Fetching logs from Remote Storage using Syslog Forwarder File Fetcher

- 1. Go to Settings >> Configuration and click on Devices.
- 2. Find the Remote Target and click on the "+" icon in the Actions column.
- 3. Select Syslog Forwarder File Fetcher.

SYSLOG FORWARDER FILE FETCHER								
SYSLOG FORWARDER FILE FETCHER								
Charset:	utf_8		•					
Remote Path:								
Username:								
Password:								
Delete		Submit	Cancel					

4. Add Syslog Forwarder File Fetcher with following details:

Charset: <desired charset> (utf8 by default) Remote Path: <add the path of the remote storgae> Username: <username of remote machine> Password: <system password of remote machine>

5. Click Submit.





🚺 NOTE

The logs stored in storage device contains the device_name="<end device name>". Use search query device_name=<end_device_name> to verify the logs from the remote target.

SSH Key Pair for li-admin

A SLS Administrator can generate SSH certificates for the li-admin.

- 1. Go to Settings >> System Settings from the navigation bar and click System Settings.
- 2. Select SSH Key Pair for li-admin.
- 3. Provide a **Pass Phrase**.
- 4. Click Regenerate Key Pair.

Lockout Policy

The Lockout Policy lets the admin users control user login and password security.

Lockout threshold: The number of failed login attempts that locks a user account. The default is five attempts. You can set the threshold anywhere from 0 to 999, where 0 means a user account is never locked.

After three consecutive failed login attempts, the use of CAPTCHA authentication in addition to the username and password is required. If there are additional unsuccessful login attempts, due to a wrong username, password, or CAPTCHA authentication, and the specified lockout threshold is reached, an account is locked for the specified lockout duration.

Lockout duration: The number of minutes an account remains locked. By default, the lockout duration is 30 minutes. When the lockout duration is over, there is one more login attempt. If this attempt fails, the account is locked for the additional specified lockout period. This process continues until a user logs in with valid credentials. The lockout duration can be between 1 to 99999.

🚺 NOTE

After a user is locked out, a *User Locked* icon appears in the Actions column of the respective user under **Settings** >> **User Accounts** from the navigation bar and **Users**. The SLS administrator can unlock the locked users by clicking the icon.

Configuring Lockout Policy

- 1. Go to Settings >> System Settings from the navigation bar and click System Settings.
- 2. Select Lockout Policy.







SYSTEM SETTINGS						88
General	•	LOCKOUT POLICY				
SMTP	•	Lockout threshold:	5	\$		
NTP	•	Lockout duration:	30	\$	minute(s):	
SNMP	▶					
HTTPS	►					
Syslog	▶					
Support Connection	•					
Modes of Operation	•					
SSH Key Pair for li-admin	►					
Lockout Policy	Þ					
Enrichment	▶					
Data Privacy Module	►					
Each section needs to be saved separately. Please save						
your changes before movin to next tab.	g			Sa	ave Cancel	Reset

- 3. Select a Lockout threshold from the drop-down list. The default is 5.
- 4. Enter the Lockout duration. The default is 30 minutes.
- 5. Click **Reset** if you want to reset the values to default.
- 6. Click Submit.

Enrichment

Enrichment settings manage whether you use Standalone Mode and Enrichment Propagation Mode.

Before configuring Enrichment in either of the modes, it is necessary to configure some prerequisites in SLS. These essentials include Enrichment Sources, Enrichment Policies, Normalization Policies, and Processing Policies.

🚺 NOTE

Integrations associated with the enrichment sources need to be installed before adding an enrichment source. For example, if you need to add an ODBC enrichment source, the ODBC Enrichment Source plugin must be present in the SLS.

Enrichment settings manage whether you use Standalone Mode and Enrichment Propagation.

Standalone Mode

In **Standalone Mode**, you need to add enrichment sources to SLS and perform the enrichment in the same SLS.





Configuring Enrichment in the Standalone Mode

- 1. Go to Settings >> System Settings from the navigation bar and click System Settings.
- 2. Select Enrichment.

SYSTEM SETTINGS		0 0
General	•	ENRICHMENT OPTION
SMTP	Þ	Standalone Mode When LogPoint is configured in a Standalone mode, Collector Nodes will still
NTP	▶	receive enrichment data
SNMP	Þ	 Enrichment Propagation Enrichment Propagation Setup
HTTPS	▶	 Enrichment Provider Enrichment Subscriber
Syslog	▶	Subscription source: IP Address
Support Connection	▶	
Modes of Operation	▶	
SSH Key Pair for li-admin	▶	
Lockout Policy	▶	
Data Privacy Module	•	
Each section needs to be saved separately. Please save your changes before moving to next tab.		
		Save Cancel

- 3. Select the Standalone Mode.
- 4. Click Save.

Enrichment Propagation

Enrichment Propagation uses multiple SLSs to perform enrichment tasks. A SLS machine can be either an enrichment provider or an enrichment subscriber. You must set up a distributed SLS connection to configure SLS in the **Enrichment Propagation** mode.

- Enrichment Provider: Collects raw data and shares it with enrichment subscribers. It keeps a list of all the *IP Addresses* of enrichment subscribers.
- Enrichment Subscriber: Receives enrichment data from an enrichment provider to create rules for the enrichment process. It also acts as a bridge between a *SLS Collector* and an enrichment provider. For Enrichment Subscribers, the *Enrichment Sources* option in [Settings >> Configuration] page is disabled. They have to use the sources of an enrichment provider.
- You can have any number of enrichment subscribers but only one enrichment provider. One enrichment provider can be connected to:
 - ° A single enrichment subscriber
 - ° Multiple enrichment subscribers
 - ° A single enrichment subscriber connected to a SLS Collector
 - Multiple enrichment subscribers connected to multiple SLS Collectors



sls-en_system_configuration_gde - 07/04/2024



Configuring Enrichment Propagation

When setting up **Enrichment Propagation**, make sure to configure an **Enrichment Provider** first. After setting up an Enrichment Provider, then setup the **Enrichment Subscribers**. When setting up an existing SLS instance as an Enrichment Subscriber, you need to delete all existing enrichment policies and their dependencies before configuring it as an enrichment subscriber.

🚺 NOTE

While removing the **UEBA_ENRICHMENT_POLICY** and **Threat_Intelligence** enrichment policies, remove *Threat Intelligence* and *UEBA PreConfiguration* too. After successfully removing the enrichment policies, manually install both the applications in the new enrichment subscriber.

- 1. Go to Settings >> System Settings from the navigation bar and click System Settings.
- 2. Select Enrichment.
- 3. Select Enrichment Propagation.
- Select Enrichment Provider or Enrichment Subscriber as needed. If you select Enrichment Subscriber, choose a Subscription Source, which is the IP address of an enrichment provider from the drop-down menu.

SYSTEM SETTINGS					88
General	►	ENRICHMENT OPTION			
SMTP	Þ	Standalone Mode When LogPoint is configure	ed in a Standalone r	node, Collector No	des will still
NTP	►	receive enrichment data		,	
SNMP	Þ	 Enrichment Propagatic Enrichment Propaga 			
HTTPS	▶	Enrichment Provid	der		
Syslog	▶	IP Address	LogPoint Name	Private IP	Status
Support Connection	▶	10.45.3.95	LogPoint-95	10.119.209.1	Active
Modes of Operation	Þ	 Enrichment Subset 	criber		
SSH Key Pair for li-admin	▶				~
Lockout Policy	Þ				
Data Privacy Module	•				
Each section needs to be saved separately. Please sa	ve				
				Save	Cancel

5. Click Save.

Enrichment Propagation Working Scenario

The following scenario depicts an enrichment process in the **Enrichment Propagation** mode with a configuration of 2 machines: *Machine 1* and *Machine 2*.

Select Enrichment Provider in Machine 1 and Enrichment Subscriber in Machine 2.





SYSTEM SETTINGS					88		
General	•	ENRICHMENT OPTION					
SMTP	•	Standalone Mode					
NTP	•	When LogPoint is configure receive enrichment data	d in a Standalone r	node, Collector No	odes will still		
SNMP	•	Enrichment Propagation	n				
HTTPS	•	Enrichment Propagat Enrichment Provid 					
Syslog	•	IP Address	LogPoint Name	Private IP	Status		
		10.45.3.95	LogPoint-95	10.119.209.1	Active		
Support Connection	•	 Enrichment Subsc 	riber				
Modes of Operation	•	Subscription source:	IP Address		-		
SSH Key Pair for li-admin	•						
Lockout Policy	•						
Enrichment	Þ						
Data Privacy Module	•						
Each section needs to be saved separately. Please sa	ve						
				Save	Cancel		
SYSTEM SETTINGS					0 0		
General	•	ENRICHMENT OPTION					
		 Standalone Mode 					
SMTP	•	When LogPoint is configure receive enrichment data	d in a Standalone n	node, Collector No	odes will still		
NTP	•	Enrichment Propagation	n				
SNMP	•	Enrichment Propagat					
HTTPS	•	Enrichment ProvidEnrichment Subsc					
Syslog	•	Subscription source:	LogPoint-18 (1	0.45.3.18)	•		
Support Connection	•						
Modes of Operation	▶						
SSH Key Pair for li-admin	►						
Lockout Policy	▶						
Enrichment							
Data Privacy Module	►						
Each section needs to be saved separately. Please sa	1/0						
saveu separatery. Frease sa	ve			Save	Cancel		

Next, add a CSV Enrichment Source to Machine 1 using the data from the following CSV file.





S.No.	Value	Task	Operation
1	read1	write1	RW1
2	read2	write2	RW2
3	read3	write3	RW3
4	read4	write4	RW4
5	read5	write5	RW5
6	read6	write6	RW6
7	read7	write7	RW7

After adding the source, add a normalization package containing log signatures to Machine 2. Furthermore, add a normalization policy, enrichment policy, and routing policy to Machine 2.

	IENT POLICY					8
ENRICHMENT BASI	C					
Policy Name:	Name_Enrich	ment_Policy				
Description:	CSV Enrichm	ent Policy				
SPECIFICATION						
Enrichment Crite	ria					
Enrichment rule	will be applied	only if all of the d	conditions are	satisfied by	log event	
Value Matches	▼ nam	9	found			
Enrichment Rule Enrichment rule	vill be applied	if all of the cond	itions below m	atches		
Enrichment Source	: Nar	ne_Enrichment_S	Source	-		
Source	Opera	ti@mategory				
S.No.	 Equals 	~	Simple	-	pid	
Add New Sp	ecification	Remove	• Specification			
					Submit	Cancel

Finally, add a processing policy to incorporate all the policies earlier created and add it to a device.

🚺 NOTE

In the **Standalone Mode**, all the above tasks are performed in a single machine.

You can now see the enriched results in the search results of the enrichment subscriber.





SLS - SYSTEM CONFIGURATION GUIDE - V 2 SYSTEM SETTINGS

♦ BACK ["device_name"="William"	Use wizard All 👻 LAST 6 HOURS 👻	SEARCH
Ø Found 8 logs	🕒 Add Search To 👻 🔺 📩 More 👻	Logs
Histogram III Interval: 15 minutes dat Normal at Cumulative		Column 🔫
3 2.5		● ■count()
2		
1.5 1 0.5		
10:41 PM 11:00 PM 11:30 PM 12:00 AM 12:30 AM 01:00 AM 01:30 AM 02:00 AM 02:30 AM July 9, 2018 July 9, 2018	03:00 AM 03:30 AM 04:00 AM	
2018/07/09 04:48:45 log_ts=2018/07/09 04:48:45 \ device_jp=10.94.2.94 \ device_name=William \ col_type=syslog \ sig_id=500001 \ repo_name=_logpoint \ c logpoint_name=LogPoint91 \ name=found \ pid=5 \	.ol_ts=2018/07/09 04:48:45 ~ collected_at=LogPointS	21 ~
2018/07/09 04:48:40 log_ts=2018/07/09 04:48:40 < device_ip=10.94:2.94 < device_name=William < col_type=syslog < sig_id=500001 < repo_name=_logpoint < repo_name=_logpoint < sig_id=500001 < repo_name=_logpoint < sig_id=500001 < repo_name=_logpoint < repo_name=_lo	vol_ts=2018/07/09 04:48:40 ∨ collected_st=LogPoint5 Use wizard All ← LAST 30 MINUTES ←	1 - ∣ SEARCH
Pound 5 logs	🚯 Add Search To 👻 🖌 🚖 More 👻	Logs
Histogram		Column 👻
1.8 1 0.2 02:35 AM 02:40 AM 02:45 AM 02:55 AM 02:55 AM July 9, 2018	03:00 AM	● ■count()
ă l		
2018/07/09 03:05:48 log_ts=2018/07/09 03:05:48 \ device_jp=10.94.2.94 \ device_name=William \ col_type=syslog \ sig_id=500001 \ repo_name=_logpoint \ Col_ts=2018/07/09 03:05:48 \ collected_at=LogPoint91 \ logpoint_name=LogPoint91 \ name=found \ pid=2 \ my name is 2	Dperation=RW2 ~ S.No.=2 ~ Task=write2 ~ Value=r	ead2 🗸
2018/07/09 03:05:10 log_ts=2018/07/09 03:05:10 \ device_jp=10.94.2.94 \ device_name=William \ col_type=syslog \ sig_id=500001 \ repo_name=_logpoint \ Col_ts=2018/07/09 03:05:10 \ collected_at=LogPoint91 \ logpoint_name=LogPoint91 \ name=found \ pid=7 \ my name is 7	Dperation=RW7 v S.No.=7 v Task=write7 v Value=r	ead7 ~
2018/07/09 03:04:38 log_ts=2018/07/09 03:04:38 v device_jp=10.94.2.94 v device_name=William v col_type=syslog v sig_id=500001 v repo_name=_logpoint v c	ol ts=2018/07/09 03:04:38 v collected at=1 opPoint	21 ×
logpoint_name=LogPoint91 v name=found v pid=09567 v my name is 09567		

Drilldown Operation in the Enriched Results

Click the drop-down menu on the enriched fields to view the different actions.







← BACK "device_name"="William"	Use wizard All 👻 LAST 1 HOUR 👻 SEARCH
Found 5 logs	🕄 Add Search To 👻 🗎 📩 🔛
Histogram	Column 👻
1.4	● ■count()
	03:20 AM 03:25 AM 03:30 AM 03:35 AM 03:40 AM 03:45 AM 03:50 AM
	July 9, 2018
· · · · · · · · · · · · · · · · · · ·	
2018/07/09 03:05:48	
log_ts=2018/07/09 03:05:48 < device_ip=10.94.2.94 < device_name=William < col_type= col_ts=2018/07/09 03:05:48 < collected_at=LogPoint91 < logpoint_name=LogPoint91 < n	syslog v sig_id=500001 v repo_name=_logpoint v Operation=RW2 v S.No.=2 v Task=IxoAByxB v Value=read2 v
2018/07/09 03:05:10	
	syslog v sig_id=500001 v repo_name=_logpoint v Operation=RW7 v S.No.=7 v Task= xoAByxE v Value=read7 v
col_ts=2018/07/09 03:05:10 ~ collected_at=LogPoint91 ~ logpoint_name=LogPoint91 ~	
	Top 10 Operation (for this search for whole database)
2018/07/09 03:04:38	Time trend for Operation (for this search for whole database)
log_ts=2018/07/09 03:04:38 v device_ip=10.94.2.94 v device_name=William v col_type	Time trend for Operation=RW7 (for this search for whole database) 3:04:38 v collected_at=LogPoint91 v
logpoint_name=LogPoint91 ~ name=found ~ pid=09567 ~	Exclude RW7
	Enrichment Source: Name_Enrichment_Source
2018/07/09 03:02:43	Participated Fields: pid
log_ts=2018/07/09 03:02:43 ~ device_ip=10.94:2.94 ~ device_name= <mark>William</mark> ~ col_type logpoint_name=LogPoint91 ~ pid=William ~	Hide this field 3:02:43 ~ collected_st=LogPoint91 ~

- 1. Enrichment Source: Displays the information of the source file the enriched field belongs to.
- 2. **Participated Fields**: Displays the field of a log specified in the enrichment rule to enrich the log.



In the above example, the Participated Field *pid* has been specified in the earlier created enrichment rule. The enrichment rule matches the value of the *pid* field in the log to the *S.No.* field in the source and enriches the log.




System Notifications

System Notification notifies you of Disk, CPU, and Memory usage of SLS. When there is a new notification, the navigation bar displays an alert. Click the **Notification** icon to open **Notification Center**.



These notifications are configured from Settings >> System Settings >> System Monitor >> Dashboard.





Disk Usage Notification

Two notifications are setup and activated in SLS out-of-the-box. You are notified when the total disk usage reaches 80% and 90%. The values can be configured to trigger the notification at any threshold. To create more disk usage notifications, go to **Configure Custom Disk Usage Notification**.

DI	SK NC	TIFICATION						8
O	ADD			MORE	0 SELEC	CTED	search	8
	S.N.	Title	Percent	Message		Scrip	ot	Actions
	1	Disk Alert	80	Disk usage greater than 80%				오 💼
	2	Disk Alert	90	Disk usage greater than 90%				오 🛍



You also get a pop-up notification when your disk usage is greater than 80%. This pop-up is displayed even when there are no disk notifications configured.



🚺 NOTE

• The Disk, CPU, and Memory Notifications use a common SSH Certificate.





Configure Custom Disk Usage Notification

- 1. Go to Settings >> System Settings from the navigation bar and click System Monitor.
- 2. Select Dashboard.
- 3. In Disk Usage, Click Add.

DISK NOTIFICATION				8
Notification				
Percent:	90			
Title:	Disk Alert			
Message:	Disk usage is greater than 90%			
Command:	Command			
Server/Port:	192.168.3.5	22		
Username:	harry			
Authentication:	Password		Ŧ	
Password:	•••••			
	Subm	it	Cancel	

- 4. Enter the **Percent** of total disk space used that triggers a notification, or at what threshold you want to be notified.
- 5. Enter the Title and Message you want the notification to have.
- If you want to initiate a command at the same time the notification is sent, specify a system Command. The command should be an executable bash command. Providing a Command is optional.

For Example: The following Bash command checks for free disk space at **/dev/sda** and also cleans up cached packages at that location:

```
df - Th/dev/sda
sudo apt-get clean
```

7. Enter the address of the remote Server and the Port number.



- 8. Select the Authentication type of the remote Server.
 - If you choose Password, enter a Password.
 - If you choose SSH Certificate, an SSH Certificate is automatically generated.

The password or the SSH certificate key are required for user validation while accessing the remote server. Make sure you are able to remember them.

9. Click Submit.

When the notification is triggered, the notification is displayed in the notification center.



CPU Usage Notification

There are no CPU usage notification setup and activated in SLS out-of-the-box. To configure CPU usage notification:

- Go to Settings >> System Settings from the navigation bar and click System Monitor.
- 2. Select **Dashboard**.
- 3. In CPU Usage, click Add.

CI	PU NO	TIFICATION					8
0	ADD			MORE 👻 0 SEL	ECTED	Search	0
	S.N.	Title	Percent	Message	Scr	ipt	Actions
	1	CPU Alert	90	CPU usage is greater than 90%			🗢 🛍



sls-en_system_configuration_gde - 07/04/2024



4. Enter the **Percent** of total disk space used that triggers a notification, or at what threshold you want to be notified.

CPU NOTIFICATION			8
Notification			
Percent:	90		
Title:	CPU Alert		
Message:	CPU usage is greater than 90%		
Command:	Command		
Server/Port:	192.168.3.5	22	
Username:	harry		
Authentication:	Password		-
Password:	•••••		
	Submi	t C	ancel

- 5. Enter the Title and Message you want the notification to have.
- If you want to initiate a command at the same time the notification is sent, specify a system Command. The command should be an executable bash command. Providing a Command is optional.

For Example: The following command checks for any files greater than 50MB and lists them in the terminal:

sudo find / -type f -size +50M -exec ls -lh {} \;

- 7. Enter the address of the remote **Server** and the **Port** number.
- 8. Select the Authentication type of the remote Server.
 - If you choose **Password**, enter a **Password**.
 - If you choose SSH Certificate, an SSH Certificate is automatically generated.

The password or the SSH certificate key are required for user validation while accessing the remote server. Make sure you are able to remember them.

9. Click Submit.





Memory Usage Notification

There are no Memory usage notification setup and activated in SLS out-of-the-box. To configure Memory usage notification:

- Go to Settings >> System Settings from the navigation bar and click System Monitor.
- 2. Select Dashboard.
- 3. In Memory Usage, Click Add.

м	EMORY	NOTIFICATION					8
0	ADD			MORE	e 👻 0 SELECTE	D Search	0
	S.N.	Title	Percent	Message		Script	Actions
	1	Memory Alert	90	Memory usage is greater than 90%			오 💼
		Page 1 of 1	> » a		Displaying 1 - 1 of	1 Dense since	25 👻

4. Enter the **Percent** of total disk space used that triggers a notification, or at what threshold you want to be notified.





MEMORY NOTIFICATION	N			8
Notification				
Percent:	90			
Title:	Memory Alert			
Message:	Memory usage is greater than 90%			
Command:	Command			
Server/Port:	192.168.3.5	22		
Username:	harry			
Authentication:	Password		Ŧ	
Password:	•••••			
	Submit		Cancel	

- 5. Enter the **Title** and **Message** you want the notification to have.
- If you want to initiate a command at the same time the notification is sent, specify a system Command. The command should be an executable bash command. Providing a Command is optional.

For Example: The following command clears all the PageCaches in the RAM:

sync; echo 1 > /proc/sys/vm/drop_caches

- 7. Enter the address of the remote **Server** and the **Port** number.
- 8. Select the Authentication type of the remote Server.
 - If you choose **Password**, enter a **Password**.
 - If you choose SSH Certificate, an SSH Certificate is automatically generated.

The password or the SSH certificate key are required for user validation while accessing the remote server. Make sure you are able to remember them.

9. Click Submit.





Audit Logs

Audit logs are records of events and activities that occur within SLS. SLS generates various audit logs related to different events for security purposes. Only authorized users can access audit logs.

User management

- Audit logs are generated when you add, edit, or delete users, user groups, and permissions.
- Sample query to view the logs:

```
-label=LPSearch label=SLS label=User or (label=User label=Management)
object=* | latest by object, action | fields log_ts, user, object, type,
action, source_address
```

н васк -label=LPSearch label=LogPoint label=L	User or (label=User label=Management) objec	t=* latest by object, action fields log_ts, user, object,	, type, action, source_address		Use wizard All 👻 LAST 24 HOURS 👻 SEA
S Found 12 logs					🗘 Add Search To 🔻 🛛 🌟 More 🔻 🗌 Logs
listogram 📗 🔲 Interval: 6 hours 🔤 🛄 Normal					Col
		_			(b) = co
.5					
3.5					
2.5					
0.5 01 AM 06 AM 12 PM 06 PM 12 AM	06 AM 12 PM 06 PM 12 AM 06 A		06 PM 12 AM 06 AM 12 PM 06 PM		2 AM 06 AM 12 PM 06 PM
.5		M 12 PM 06 PM 12 AM 06 AM 12 PM (arch 16, 2020 March 19, 2020	36 PM 12 AM 06 AM 12 PM 06 PM March 20, 2020	1 12 AM 06 AM 12 PM 06 PM 12 March 21, 2020	2 AM 06 AM 12 PM 06 PM March 22, 2020
.5 01 AM 06 AM 12 PM 06 PM 12 AM					March 22, 2020
1.5 01 AM 06 AM 12 PM 06 PM 12 AM March 16, 2020		arch 18, 2020 March 19, 2020			
.5 01 AM 06 AM 12 PM 06 PM 12 AM March 16, 2020	March 17, 2020 M	arch 18, 2020 March 19, 2020	March 20, 2020	March 21, 2020	March 22, 2020
9.5 01 AM 06 AM 12 PM 06 PM 12 AM March 16, 5000 9.15 20/03/19 07-07-41	March 17, 2020 M	arch 18, 2020 March 19, 2020	March 20, 2020 type	March 21, 2020	March 22, 2020 source_address
1.5 01 AM 06 AM 12 PM 06 PM 12 AM March 16, 2020 9_15 2020/03/19 07:07:41 2020/03/19 07:06:609	March 17, 2020 M user admin	arch 18, 2020 March 19, 2020	March 20, 2020 type audit_log	March 21, 2020 action deactivated	March 22, 2020 source_stdfress 10.94.128.47
	March 17, 2020 M user admin admin	arch 18, 2020 March 19, 2020 object user user group	March 20, 2020 type audit_log audit_log	March 21, 2020 action deactivated lists read	March 22, 2020 source_address 10.94.128.47 10.94.128.47

Identification and authentication

- Audit logs are generated for login attempts, login success, login failures, and user lock/unlock.
- Sample query to view the logs:

```
-label=LPSearch label=SLS label=Authentication user=* | fields log_ts,
user, object, type, action, source_address
```

BACK -label=LPSearch label=LogP	oint label=Authentication user=* fields lo	g_ts, user, object, type, action, source_addres	5		Use wiza	rd All 👻 LAST 24 HOURS 👻 SEAR
Found 9 logs					Add Se	Narch To 🔻 🍵 🌟 More 👻 🛛 Logs
listogram	III Normal III Cumulative					Colur
1.8 1.4 1.2 12 AM 06 AM 12 PM	06 FM 12 AM 06 AM 12 FM 06	PR 12AM 05AM 12PM 05PM	12 AM 06 AM 12 PM 06	PM 12 AM 06 AM 12 PM 06 PM	12 AM 06 AM 12 PM 06 PM 12 A	CO CO CO
12 AM 06 AM 12 PM March 17, 2020	March 18, 2020	March 19, 2020	March 20, 2020	March 21, 2020	March 22, 2020	M 06 AM 12 PM 06 PM March 23, 2020
			Ň			
ig_ts	user	object		type	action	source_address
20/03/24 01:10:44	admin	plugin logpointauthentication		audit_log	Login - Successful	10.94.128.4
20/03/23 09:01:21	admin	plugin logpointauthentication		audit_log	Login - Successful	10.94.128.71
20/03/23 07:36:42	admin	plugin logpointauthentication		audit_log	Login - Successful	10.94.128.71
20/03/23 05:46:51	admin	plugin logpointauthentication		audit_log	Login - Successful	10.94.128.27
20/03/23 04:43:27	admin	plugin logpointauthentication		audit_log	Login - Successful	10.94.128.27
20/03/20 08:38:52	admin	plugin logpointauthentication		audit_log	Login - Successful	10.94.128.22
20/03/19 10:12:32	admin	plugin logpointauthentication		audit_log	Login - Successful	10.94.128.47
20/03/19 07:09:50	john	plugin logpointauthentication		audit_log	Login - Successful	10.94.128.47
20/03/19 07:03:58	admin	plugin logpointauthentication		audit_log	Login - Successful	10,94,128,47

User actions

• Audit logs are generated when you add, edit, or delete Knowledge Base items, Configuration items (Device, Device Group, Log Collection Policies, Repos, Distributed SLS), Search,





Report, Dashboard, and Incident Management, and configure the UEBA Board.

• Sample query to view the logs:

```
-label=LPSearch label=SLS
label=Configuration (label=Change or label=Add or label=Delete or
label=Install or label=Mount) | chart count() by log_ts, user, type,
object, action
```

Four	nd 3 logs					🕒 Add Search To 🔻 🛛 🚖 More 🔻	Chart
							Colur
						_	COL
	2020/03/23 09:1	5:53, admin, audit_log, export, edited	2020/03/19 07:07:41, admin, audit_log, us	er, deactivated	2020/03/23 07:54:21, admin, audit_log, export, adde	d	
			Ā				
	log_ts	user	type	object	action	count()	
	2020/03/23 09:15:53	admin	audit_log	export	edited	1	
	2020/03/19 07:07:41	admin	audit_log	user	deactivated	1	

Inter-TSF trusted channel

- Audit logs are generated when attempts are made to connect or disconnect from another SLS.
- Sample query to view the logs:

-label=LPSearch label=SLS (label=Remote label=Connection) OR (label=DLP (label=Connect OR label=Disconnect OR label=Initialize)) | chart count() by log_ts, type, object, user, action



System

- Audit logs are generated when disk usage exceeds the predefined limit. The predefined limit for notification is 90% by default, and it is user-configurable. Audit logs are generated every hour.
- Sample query to view the logs:

```
label=SLS label=Harddisk use=* | rename use as PercentageUsed | fields
log_ts, object, total, PercentageUsed
```





Selectable Audit Logs

To sort event data, follow these steps:

- 1. After successful login, click **Search** from the top horizontal menu.
- 2. Enter a valid query in the search query bar.
- 3. Click the column header of the results table to sort the logs.



My Preferences

My Preferences lets you customize the SLS UI and update your account settings. It helps you personalize various UI components like result limits, notification positions and help-boxes to improve usability.

Go to User >> My Preferences in the navigation bar to access it.



My Preferences is grouped into:

- 1. Account: Update personal details, password, preferred date and time format and API Access Key.
- 2. **User Interface**: Configure the page limits and search fields, where notification pop-ups are displayed, help-boxes and whether to pre-compute dashboard data. Using the precomputation technique, the system calculates and stores the dashboard data ahead of time and reuses the data to speed up further inquiries.

Account

User Details

You can view your Full Name and Email in User Details.

Change Password

You can change your password in **Change Password**. It is only visible to the users authenticated with SLS's basic authentication.





Date/Time Preferences

In Date/Time Preferences, you can view and edit:

- Time Zone
- Date Format
- Hour Display Format

NOTE

The logs are collected in Coordinated Universal Time (UTC) irrespective of the **Time Zone** you select.

API Access Key

The **API Access Key** is a unique identification for each user. You can use it to access the API endpoints SLS exposes.

Account User Interface	
User Details	Date/Time Preference
Full Name Admin Admin Email Change Password	Time Zone: V UTC TimeZone V The logs are collected in Coordinated Universal Time (UTC) irrespective of the Time Zone you select. Date Format: 2022/06/08 V
Current Password: password New Password: password:	Time Format: 12 Hour 24 Hour Current User Time: 00:38:32
Retype New Password: password Change Password	API Access Key:

Click **Re-generate Key** (\square) to generate a new access key and **Copy to Clipboard** (\square) to copy your access key to the clipboard.

🚺 NOTE

Once you generate a new access key, the previous key becomes invalid and you cannot use it anymore.

User Interface

Page Size Configuration

Configure the Result Limit per page on the Settings and Reports pages.





User	
Account User Interface	
Page Size Configuration	Search Help
Result Limit: 25 ✓ Configure the result limit per page on the list-based pages under User Accounts, Configuration, Knowledge Base, System Settings, and Report.	Display Search Help Pop-up: Display a search assistance panel with detailed information for the keywords you type. Hide Histogram In Search Page:
Settings Page Help Show Settings Item Help:	Disable Interesting Fields In Search Page:
See a brief description of each item when you hover over the tiles on User Accounts, Configuration, Knowledge Base, and System Settings.	Search Log Fields
Dashboard Behaviour	Logs Fields: Display All Display Minimum Custom
Pre Compute Dashboard Data: Set whether the system should continuously prepare the results of your dashboards, even when the dashboards are not viewed. The system resource consumption depends on the number of dashboards in your system.	Hide These Fields: Display Minimum shows only log_ts, device_ip, device_name, col_type,source_name, and repo_name. Custom shows all the fields except the ones in <i>Hide These Fields</i> .
Growl Notification Position	
○ Top Left ○ Top Right ○ Bottom Left	

Settings Page Help

Select Show Settings Item Help to get a description of each setting when you hover your mouse over User Accounts, Configuration, Knowledge Base and System Settings.

Dashboard Behavior

Controls whether SLS continuously updates dashboard data even when they are not being viewed.

Growl Notification Position

Choose the position where the notifications appear.

Search Help

In Search Help you can select:

- 1. Select Search Help Pop-up to get search assistance when you type keywords.
- 2. Display or hide the histogram on the Search page.
- 3. Display or hide the Interesting Fields on the Search page.

Search Log Fields

Choose the fields to display in the search results.





- 1. Display All shows all fields in the log.
- 2. Display Minimum shows log ts, device ip, device name, col type, source name and repo name for each log.
- 3. **Custom** shows all the fields present in the log except the ones you provide in **Hide These Fields**.





Export Management

Export Management allows you to export raw logs from Search results to a target (storage location) placed on a remote machine. **Export Management** is only available for simple search queries and not for aggregated queries.

🚺 NOTE

Export Management is disabled in Data Privacy Module enabled systems.

Adding a Target

You can create a target either by using **Secure Copy Protocol (SCP)** or **File Transfer Protocol (FTP)**. Before configuring Export Management, you need to create a target. To create a target:

 Go to Settings >> Configuration from the navigation bar and click Export Management.



2. Click Add. Here, you have an option to add the target using either SCP protocol or FTP protocol as per your requirement.

For SCP:

EXPORT					8
SCP	Þ	SCP EXPORT			
FTP	•	Name:	SCP_Export1		
		IP:	10.45.3.91		
		Port:	22		
		Username:	anna		
		Authentication:	Password		•
		Password:	•••••		
		Path:	/Users		
				Save	Cancel







- 1. Provide a **Name**.
- 2. Specify the IP address of the remote machine.
- 3. Enter a **Port** number.
- 4. Provide the Username.
- 5. Select an Authentication mechanism.
- 6. If you selected Password, enter the Password for authentication.
- 7. If you selected **SSH Certificate**, copy the provided key and add it to **authorized keys** in the remote machine.
- 8. Specify the **Path** in the target machine.

For **FTP**:

EXPORT				8
SCP	•	FTP EXPORT		
FTP	Þ	Name:	FTP_Export1	
	_	IP:	10.45.3.92	
		Port:	21	
		Username:	Joseph	
		Password:	•••••	
		Path:	/Users	
			Save	Cancel

- 1. Provide a Name of the export file.
- 2. Specify a valid IP address of the remote machine.
- 3. Enter a Port number.
- 4. Provide the Username and Password recognized by the given IP address.
- 5. Specify the Path of the target.
- 6. Click Save.

Accessing a Target

Once you create and configure a target, you can access it via the **Export Logs** option under the **More** drop-down from the **Search** menu. The names of the created targets are populated in the drop-down menu under Search >> More >> Export Logs >> Target. Now, you can export the search results of any search query to any target as per the requirement.







🚺 NOTE

If you have configured **SCP Export**, multiple lines of the same log are counted as different logs. Therefore, the number of logs in the search results is different from the number of exported logs.

Job Status

This section displays the **Name**, **Type**, **Status**, and **Remarks** of the export log status along with their **Actions**.



Deleting an Export

- Go to Settings >> Configuration from the navigation bar and click Export Management.
- 2. Click the Delete icon under the Actions column of the concerned export.





€ ВАСК	Export Management			
ADD	Ø JOBS STATUS	0 SELECTED	Search	Θ
S.N.	Export Name			Actions
1	SCP_Export1			<u>∎</u>

	<	Page	1	of 1	>	>>	C

Displaying 1 - 1 of 1 Page size: 25 💌

3. Click Yes.





Sync

Sync allows you to export and import various configurations which can be synchronized with other SLS(s). It consists of primary and secondary settings.

You can sync the following settings.

Primary Settings	Secondary Settings
Device Groups	Devices
Normalization Packages	Repos
Normalization Policies	Log Collection Policies
Processing Policies	
Enrichment Policies	
Labeling Rules (Search Labels)	

Using Sync

Before syncing SLSs, there are a few things you should do.

Before importing configurations, install **CSV Enrichment Source** and configure the enrichment source with the same CSV source file in the same way as the SLS used to sync. You should also install **ODBC Enrichment Source**, **LDAP Enrichment Source**, and **Threat Intelligence Enrichment Source**, and should have the exact configuration in each source.

1. Go to Settings >> System Settings from the navigation bar and click Sync.



2. Select the **Include Devices, Repos, and Log Collection Policies also** if you want to include their configurations as well.







- 3. Click **Export Data** to export configurations. All the selected configurations are downloaded in your machine in a .json file. In addition, the .json file also includes all configurations about:
 - User Accounts, except the Incident User Groups.
 - Configuration, except the Distributed Collectors, Raw Syslog Forwarder, /Distributed SLSs, and Export Management.
 - Knowledge Base.
- 4. Logon to the SLS where you want the same configuration. Go to Settings >> System Settings from the navigation bar and click Sync.
- 5. Select the Include Devices, Repos, and Log Collection Policies also.
- 6. Click Import Data to import configurations.
 - Click Import Data.
 - Browse for the JSON file and click Upload.

After successfully importing the data, all the settings saved in the uploaded file are replicated in your machine.

🚺 NOTE

While using the **Import Data**, you can manually remove the configurations from the JSON file according to your requirements. However, remember not to remove important data.







Additional information and answers to questions you may have about SLS are available in the **Stormshield knowledge base** (authentication required).





sls-en_system_configuration_gde - 07/04/2024





documentation@stormshield.eu

All images in this document are for representational purposes only, actual products may differ.

Copyright © Stormshield 2024. All rights reserved. All other company and product names contained in this document are trademarks or registered trademarks of their respective companies.



