



SL1 8.14.10 Release Notes

SL1 version 8.14.9

Table of Contents

Upgrade Notes	4
Caveats	5
Issues Addressed in 8.14.10	6
New and Updated Packages in 8.14.10	7
Issues Addressed in 8.14.9.1	7
New Features in 8.14.9	7
New and Updated Packages in 8.14.9	8
Issues Addressed in 8.14.9	8
New Features in 8.14.8	8
New and Updated Packages in 8.14.8	8
Issues Addressed in 8.14.8	9
New and Updated Packages in 8.14.8	9
Issues Addressed in 8.14.7	9
New and Updated Packages in 8.14.7	10
New Features in 8.14.6	10
Issues Addressed in 8.14.6	10
New and Updated Packages in 8.14.6	11
Issues Addressed in 8.14.5	11
Issues Addressed in 8.14.4	11
Issues Addressed in 8.14.3	12
New and Updated Packages in 8.14.3	12
Issues Addressed in 8.14.2	12
Issues Addressed in 8.14.1	13
Maps and Application Management in 8.14.0	13
SL1 Extended Architecture	13
New Features in 8.14.0	14
Issues Addressed in 8.14.0	18
PowerPacks in 8.14.0	22
New and Updated Packages in 8.14.0	25
Beta Features	25
Disabling the Knowledge Base	27
Special Upgrade Process for FIPS-Compliant System	27
Upgrade Process for Systems Running 8.1.0 and Earlier	28
Upgrade Process for Systems Running 8.1.1 and Later	28
Downloading SL1 Updates on SL1 Systems running 8.1.x - 8.5.x	28
Downloading SL1 Updates on SL1 Systems Running 8.6.0 or Later	29
Recently Deprecated Features	30
8.9.0	30
8.9.2	30
8.10.0	31
8.12.0	31
8.14.0	31
Known Issues	31

This document describes:

- [Upgrade Notes](#)
- [Caveats](#)
- [SL1 Extended Architecture](#)
- The [Issues Addressed](#) in the 8.14.10 release
- [New and Updated Packages](#) in the 8.14.10 release
- The [Issues Addressed](#) in the 8.14.9.1 release
- The [New Features](#) in the 8.14.9 release
- The [Issues Addressed](#) in the 8.14.9 release
- The [New Features](#) in the 8.14.8 release
- The [Issues Addressed](#) in the 8.14.8 release
- [New and Updated Packages](#) in the 8.14.8 release
- The [Issues Addressed](#) in the 8.14.7 release
- [New and Updated Packages](#) in the 8.14.7 release
- The [New Features](#) in the 8.14.6 release
- The [Issues Addressed](#) in the 8.14.6 release
- [New and Updated Packages](#) in the 8.14.6 release
- The [Issues Addressed](#) in the 8.14.5 release
- The [Issues Addressed](#) in the 8.14.4 release
- The [Issues Addressed](#) in the 8.14.3 release
- [New and Updated Packages](#) in the 8.14.3 release
- The [Issues Addressed](#) in the 8.14.2 release
- The [Issues Addressed](#) in the 8.14.1 release
- [Maps and Application Manager in 8.14 releases](#)
- [SL1 Extended Architecture](#)
- The [New Features](#) in the 8.14.0 release
- The [Issues Addressed](#) in the 8.14.0 release
- The [PowerPacks](#) included in the 8.14.0 release
- [New and Updated Packages](#) in the 8.14.0 release
- [The Beta Features available with the 8.14.0 release](#)
- [Disabling the Knowledge Base](#)
- [Special Upgrade Process for FIPS-Compliant Systems](#)
- [Upgrade Process for Systems Running 8.1.0 and Earlier](#)

- [Upgrade Process for Systems Running 8.1.1 and Later](#)
- The [features deprecated](#) in this release
- The [Known Issues](#)

TIP: 8.14.10 includes delta-less updates. If you have already deployed 8.6.0 or later, you can import, stage, and deploy a single update file to update to 8.14.9.

Upgrade Notes

- **8.14.10 includes important security updates. If you have not already installed 8.14.9 and rebooted all appliances, you must do so after installing 8.14.10.** If you would like assistance in planning an upgrade path that meets your security needs while minimizing downtime, please contact your Customer Success Manager
- The following table specifies which SL1 updates require you to reboot all SL1 appliances and which SL1 updates require you to upgrade MariaDB.
 - Some SL1 updates include security updates. After applying these SL1 updates, you must reboot all SL1 appliances to apply the security updates.
 - Some SL1 updates include an upgrade to MariaDB. These SL1 updates will automatically update MariaDB-client, MariaDB-common, and MariaDB-shared RPMs but will not update the MariaDB Server RPM. You must update the MariaDB Server RPM after you install the SL1 update.
 - SL1 updates are delta-less, meaning that you install a single SL1 update file, and that SL1 update file can apply all SL1 updates between 8.6.0 and the current SL1 update, as needed. However, you might be required to reboot all SL1 appliances if one of the interim SL1 updates included a security update. And you might be required to upgrade MariaDB to the latest version if one of the interim SL1 updates included an upgrade to MariaDB.

For example, if you upgrade from SL1 8.10.0 to SL1 8.10.3, you install only a single update. And looking at the table below, you can see that 8.10.3 does not require you to reboot all SL1 appliances after upgrade and does not require you to upgrade MariaDB. However, one of the releases between 8.10.0 and 8.10.3 require reboot and one of the releases between 8.10.0 and 8.10.3 include an upgrade to MariaDB. Therefore, you must reboot all SL1 appliances and upgrade MariaDB after you upgrade to 8.10.3.

SL1 Release	Requires Reboot?	Requires MariaDB Upgrade?
8.10.0	Yes	No
8.10.1	Yes	Yes
8.10.2	No	No
8.10.3	No	No

SL1 Release	Requires Reboot?	Requires MariaDB Upgrade?
8.12.0	Yes	Yes
8.12.1	Yes	No
8.12.2	No	No
8.14.0	Yes	Yes
8.14.1	No	No
8.14.2	No	No
8.14.3	Yes	No
8.14.4	No	No
8.14.5	No	No
8.14.6	Yes	No
8.14.7	No	No
8.14.8	Yes	No
8.14.9	Yes	No
8.14.9.1	No	No
8.14.10	Yes	No

Caveats

Consider the following caveats before deploying 8.14.9.1:

- **8.14.10 includes important security updates that require you to reboot all appliances after installing 8.14.10.** If you would like assistance in planning an upgrade path that meets your security needs while minimizing downtime, please contact your Customer Success Manager.
- The 8.14.10 release includes changes that are in the upcoming 10.1.5 release. Customers who want to upgrade to a 10.1.x should upgrade from 8.14.10 to 10.1.5 or later.
- 8.14.10 does not support Data Collectors running earlier versions of SL1 if the SL1 Database Server is 8.14.10. You must upgrade **all SL1 appliances** to 8.14.10, using the System Update tool (System > Tools > Updates).
- As of 8.12.2, ScienceLogic will no longer update the help that appears when you select the **[Guide]** button. The Unified UI provides a new tool for inline help. Under the user name in the upper right corner, click the down arrow and select **Help**. The browser will spawn a new window that displays the appropriate page from docs.sciencelogic.com.
- **SL1 updates overwrite changes to the configuration file `opt/em7/nextui/nextui.env`.** This is a known issue (see <https://support.sciencelogic.com/s/article/1161> and

<https://support.sciencelogic.com/s/article/1423>). ScienceLogic recommends that you backup this file before applying an update and then re-apply your changes to this file.

- **If you are running a version prior to 8.12.0, do not install 8.14.10 if you do not plan to immediately consume 8.14.10.** After you import the 8.14.10 release, all appliances in your SL1 system will now use the **new system update**. After you import the 8.14.10 release, you will not be able to stage and deploy any versions of SL1 previous to 8.12.0 or apply patches to versions of SL1 previous to 8.12.0. For details on the new system update, see the release notes for 8.12.0.
- **To install 8.14.10 and the new System Updates tool, you have must have already imported, staged, and deployed 8.6.0 or a later release.**
- 8.10.0 and later releases do not support Data Collectors and Message Collectors running the CentOS operating system. **If your system includes Data Collectors and Message Collectors running the CentOS operating system, contact your Customer Success Manager for details on upgrading Data Collectors and Message Collectors to Oracle Linux before installing 8.14.9.1.**
- The Knowledge Base includes known vulnerabilities for cross-site scripting and SQL injection. **If your first installation of SL1 was 8.9.1 or earlier, ScienceLogic strongly recommends that you [disable the Knowledge Base](#).**
- During the normal system update process, multiple processes are stopped and restarted. This might result in missed polls, gaps in data, and/or unexpected errors. ScienceLogic recommends that you always install ScienceLogic releases during a maintenance window.
- The ScienceLogic system update process starts a background process that can perform any required post-update tasks. The post-patch update process is automatically stopped after 24 hours. However, depending on the size of your database as well as the version from which you are upgrading, the post-update tasks can take several days to perform. If the post-patch update process is stopped after 24 hours, the process will automatically re-start and continue processing from the point at which it was stopped. If you see an event that indicates the post-patch update process was stopped, you do not need to contact ScienceLogic support for assistance until you see the same event for three consecutive days.

Issues Addressed in 8.14.10

Discovery

- Previously, discovery of Windows Servers was failing if SL1 used a PowerShell credential that included encryption. SL1 now includes an updated pyWinRM module and an updated encryption library to address this error. During discovery of Windows Server devices, SL1 no longer generates the log messages `"/opt/em7/lib/python/requests/_init_.py:91: RequestsDependencyWarning: urllib3 (1.25.10) or chardet (2.2.1) doesn't match a supported version"`, `"RequestsDependencyWarning"`, or `"CryptographyDeprecationWarning: Python 2 is no longer supported by the Python core team."` (Case 00136215) (JIRA ID: EM-40618)

Dynamic Applications

- Updated the PYMySQL module. During execution of Dynamic Applications in the AWS PowerPack or the Azure PowerPack, SL1 no longer generates the log messages `"/opt/em7/lib/python/requests/_init_.py:91: RequestsDependencyWarning: urllib3 (1.26.2)"` or `"chardet (2.2.1) doesn't match a supported version"`.

Security

- Security improvement to enforce HTTPS redirect when using the REST API. (Case 00125079) (JIRA ID: EM-39907)

New and Updated Packages in 8.14.10

8.14.10 includes multiple package updates to address security issues and improve performance.

WARNING: 8.14.10 includes important security updates that require you to reboot all appliances after installing 8.14.10. If you would like assistance in planning an upgrade path that meets your security needs while minimizing downtime, please contact your Customer Success Manager

Issues Addressed in 8.14.9.1

Run Book Automation

- Each SL1 appliance now includes the python-requests package and its dependent python-urllib3 package. These packages address an error where SL1 Run Book Automations failed when processing snippet actions. (Case ID: 00136215) (JIRA ID: 40618) (JIRA ID: EM-40743) (JIRA ID: 40650)

Windows

- Previously, discovery of Windows Servers was failing if SL1 used a PowerShell credential that included encryption. SL1 now includes an updated pyWinRM module and updated encryption package to address this error. During discovery of Windows Server devices, SL1 no longer generates the log message "cannot return the address of the raw string within a str or unicode or byte array object" and discovery is successful. (Case ID: 00136215) (JIRA ID: EM-40618) (JIRA ID: SOL-12453) (JIRA ID: SOL-12241)

New Features in 8.14.9

NOTE: 8.14.9 includes important security updates that require you to reboot all AIO appliances and all appliances in the Distributed stack after installing 8.14.9. If you would like assistance in planning an upgrade path that meets your security needs while minimizing downtime, please contact your Customer Success Manager.

ICDA Collection

- ICDA Dynamic Applications now collect "engineID" to support SNMPv3 traps and prevent an unhandled exception.

SNMPv3 Traps

- Added a new feature to SL1 for SNMPv3 traps. After a user selects the SNMP V3 Trap Config Push button in the Credential Management page (System > Credentials page > Actions button), SL1 automatically

configures the `/etc/snmp/snmptrapd.conf` file on Data Collectors and Message Collectors, so Data Collectors and Message Collectors can accept traps from monitored devices and communicate with those monitored devices.

New and Updated Packages in 8.14.9

8.14.9 includes multiple package updates to address security issues and improve performance.

WARNING: 8.14.9 includes important security updates that require you to reboot all appliances after installing 8.14.9. If you would like assistance in planning an upgrade path that meets your security needs while minimizing downtime, please contact your Customer Success Manager

Issues Addressed in 8.14.9

Security

- Addressed a security issue in the Device Relationship Trace page (Registry > Network > Device Relationships > Trace button). The page now respects multi-tenancy and the appropriate access hook. (Support ID: 119635) (Case: 00119635)
- Addressed a security issue in Asset Notes & Attachments page (Registry > Assets > Asset Manager > create/edit > Notes tab). To prevent cross-site scripting, only sanitized content can be posed to the Notepad. (Support ID: 119635) (Case: 00119635)

New Features in 8.14.8

NOTE: 8.14.8 includes important security updates that require you to reboot all AIO appliances and all appliances in the Distributed stack after installing 8.14.8. If you would like assistance in planning an upgrade path that meets your security needs while minimizing downtime, please contact your Customer Success Manager.

ScienceLogic REST API

- Improvements to the ScienceLogic API to improve performance of queries to `/api/data_performance_raw`.

Security

- Addressed a security vulnerability for cross-site scripting. (Case: 00114373) (JIRA ID: EM-38928)

New and Updated Packages in 8.14.8

8.14.8 includes multiple package updates to address security issues and improve performance.

WARNING: 8.14.8 includes important security updates that require you to reboot all appliances after installing 8.14.8. If you would like assistance in planning an upgrade path that meets your security needs while minimizing downtime, please contact your Customer Success Manager

Issues Addressed in 8.14.8

Device Management

- When the IP address for a device changes, SL1 now generates a log entry in the device log. This allows users to define Events that are triggered by the log entry. (Case: 00106422) (JIRA ID: EM-38646)

Network Interfaces

- Upon rediscovery, SL1 no longer creates duplicate records for network interfaces that use shared MACs. (Case: 00109391) (JIRA ID: EM-38726)

Reports

- Reports support multi-tenancy and role-based access. Non-administrator users cannot use the "download report" URL to download reports generated by administrators. However, members of an Organization can use the "download report" URL to download reports generated by other Organization members. (Case: 00114380) (JIRA ID: EM-38930)

Scheduled Maintenance

- Updated the behavior for enabling and disabling scheduled device maintenance. Now, when you disable an active maintenance schedule, the device will be pulled out of maintenance mode; if you re-enable the schedule during the "active maintenance schedule window", the device will return to maintenance mode. (Case: 0003865) (JIRA ID: EM-38675) (JIRA ID: EM-31162)

New and Updated Packages in 8.14.8

8.14.8 includes multiple package updates to address security issues and improve performance.

WARNING: 8.14.8 includes important security updates that require you to reboot all appliances after installing 8.14.9. If you would like assistance in planning an upgrade path that meets your security needs while minimizing downtime, please contact your Customer Success Manager

Issues Addressed in 8.14.7

Upgrade

- Customers who are running SL1 version 8.12 or earlier and are not running the UCAPL version of SL1 cannot upgrade to 8.14.6. These customers should upgrade to 8.14.7.

New and Updated Packages in 8.14.7

8.14.7 includes multiple package updates to address security issues.

New Features in 8.14.6

Layer-3 Topology

- You can now specify that SL1 should create Layer-3 relationships even if some of the hops do not match a device in SL1. For example, suppose layer-3 includes three devices, A, B and C. If B is not a device that is managed by SL1, SL1 will still create a Layer-3 topology and connect A to C.

To enable this behavior, run the following SQL query on the Database Server:

```
update master.system_custom_config set field_value = 1 where field = 'skip_l3_hops'
```

- By default, the process that discovers layer-3 relationships uses UDP during traceroute. The process now supports both ICMP and UDP.

To use ICMP instead of UDP during traceroute, run the following query on the Database Server:

```
update master.system_custom_config set field_value = 1 where field = 'l3_method'
```

Security

- Multiple security fixes for cross-site scripting following penetration testing.
- Multiple package updates to address security issues.

Issues Addressed in 8.14.6

Billing Server

- Addressed an issue that affects how SL1 delivers data to the Billing Server at ScienceLogic. Requests from the local SL1 system to the Billing Server at ScienceLogic now include a timeout value to prevent processes from hanging and blocking other processes on the local SL1 system. (Case: 00084696) (JIRA ID: EM-35694)

Credentials

- Added a new feature to credentials. Credentials for SNMP V3 now include an option for AES-256-C in the **Privacy Protocol** field. (Case: 00094658) (JIRA ID: EM-37052)

Device Groups

- Improved performance for dynamic Device Groups. (Case: 00089965) (JIRA ID: EM-36331)

IT Services

- Addressed an issue with IT Services. The key metric "Health" now uses the correct, defined severity levels. (Case: 00103639) (JIRA ID: EM-37812)

New and Updated Packages in 8.14.6

8.14.6 includes multiple package updates to address security issues and improve performance.

WARNING: 8.14.6 includes important security updates that require you to reboot all appliances after installing 8.14.6. If you would like assistance in planning an upgrade path that meets your security needs while minimizing downtime, please contact your Customer Success Manager

Issues Addressed in 8.14.5

Data Collection

- SL1 can now monitor the subnet 172.17.0.0/16. This subnet is no longer used by an internal docker interface. (Case: 00096478) (JIRA ID: EM-37204)

High Availability

- The query for HA status no longer first tries to access the RPM database to determine if the parent database is remote. The query for HA status now reads from a local file. If the local file does not provide the database status, the query for HA status will then try to access the RPM database. (Case: 00088565) (Case: Case 00091272) (Case: 00088565) (JIRA ID: EM-36123) (JIRA ID: EM-36126)

Security

- Multiple improvements to address security issues.

Issues Addressed in 8.14.4

Scheduler

- Improved performance of the Scheduler to ensure that scheduled device maintenance is started and ended as specified without interference from other scheduled tasks. (JIRA ID:EM-27111)
- Addressed an issue with Scheduler. Added additional functionality to detect corrupted schedules and prevent schedule conflicts. (JIRA ID: EM-35479)

System Update

- Addressed an issue with the System Update Manager, The System Update Manager now shuts down cleanly when systemd sends a STOP signal and then subsequently starts up cleanly when systemctl sends a START

signal. (JIRA ID: EM-35311)

Issues Addressed in 8.14.3

Dashboards

- In the unified UI, in the **Dashboards** page, when you select the **Share** menu and then select *Specific Organization*, the UI now displays all organizations that you are allowed to see instead of displaying only a maximum of ten organizations. (Case: 00081213) (Case: 00070970) (Case:00081213) (JIRA ID: EM-34649) (JIRA ID: EM-34405) (JIRA ID: SLUI-7603) (JIRA ID: SLUI-6368)

User Interface

- 8.14.3 includes a new version of the unified UI (ap2_5.155.0-hotfix.11), which includes the fixes listed above.

New and Updated Packages in 8.14.3

8.14.3 includes multiple package updates to address security issues and improve performance.

WARNING: *8.14.3 includes important security updates that require you to reboot all appliances after installing 8.14.3.* If you would like assistance in planning an upgrade path that meets your security needs while minimizing downtime, please contact your Customer Success Manager

Issues Addressed in 8.14.2

Alert Functions

- The "prior" function now successfully retrieves the previous value for collection objects in both Dynamic Applications of type Performance and Dynamic Applications of type Configuration. (Case: 00074024) (Case: 00074182) (Case: 00073334) (Case: 00074024) (JIRA ID: EM-34914) (JIRA ID: EM-35300)

PowerShell

- Addressed an issue with PowerShell Dynamic Applications. Added a lock to mysql to prevent multiple collection processes from writing or overwriting changes to the /etc/krb5.conf file. (Support ID: 118343) (Support ID: 19845) (Support ID: 178992) (Case: 00037699) (Case: 00040151) (Case: 00037699) (JIRA ID: POSH-127) (JIRA ID: POSH-36) (JIRA ID: POSH-126) (JIRA ID: EM-17823) (JIRA ID: EM-18388) (JIRA ID: EM-31327)
- Addressed an issue with PowerShell credentials. Set the credential cache file to use a user-specific name (/tmp/krb5cc_<ad domain>_<ad username>). This allows multiple users to run the same Dynamic Application in the same domain without generating the error "authGSSClientInit() failed." (Support ID: 178992), (Case: 00037699), (Case: 00040151), (Case: 00037699), (Case: 00053678), (Case: 00058763), (Case: 00067455) (JIRA ID: EM-31237) (JIRA ID: EM-35061)

Issues Addressed in 8.14.1

Documentation

- Addressed an issue with documentation. The value in the **Component Purge Timeout** field (in either the **Global Threshold Settings** page or the **Device Thresholds** page) specifies the number of hours the device has remained in vanished mode and not the last time SL1 was able to communicate with the device (as was previously documented). The Device Management manual and the System Administration manual have been updated accordingly. (Support ID: 180153) (Case: 00045566) (Case: 00055728)(EM-31947)

Maps and Application Management in 8.14.0

In 8.14.0, the **Maps** tab and **Applications** tab are disabled by default.

These features are considered **experimental** and will be released for general availability in a later release.

If you have been using Maps or Applications in previous releases and want to enable these features, contact your Customer Success Manager.

SL1 Extended Architecture

8.14.0 includes a significant addition to SL1 architecture that provides additional features in the ScienceLogic Agent and provides scale to large deployments.

There are three types of SL1 systems:

- **All-In-One**. In this type of system, a single **appliance**, such as a server, handles all the functions of SL1. The monitoring capacity of an **All-In-One** system cannot be increased by adding additional appliances.
- **Distributed**. The functions of SL1 are divided between multiple appliances. A **Distributed** system can be as small as two appliances or can include multiple instances of each type of appliance.
- **Distributed plus Extended Architecture**. Includes the SL1 Distributed system plus a compute cluster and a storage cluster. The compute cluster includes multiple Kubernetes nodes. The storage cluster includes multiple Scylla nodes.

In a **Distributed SL1 system**, there are five general functions that an SL1 appliance can perform. In large SL1 systems, a dedicated appliance performs each function. In smaller systems, some appliances perform several functions. In an **All-In-One Appliance** system, a single SL1 appliance performs all five functions.

In a **Distributed System with Extended Architecture**, there are four additional types of SL1 Appliances that support the full set of data collected by the ScienceLogic Agent and provide scale for large deployments.

8.14.0 allows users to upgrade an existing SL1 Distributed systems and then **add the SL1 Extended Architecture**, either hardware-based or VM-based. For details on the SL1 Extended Architecture, see the **Architecture** manual. For instructions on how to deploy the SL1 Extended Architecture, see the **Installation** manual.

New Features in 8.14.0

NOTE: The Unified UI includes pages from the SL1 Classic UI that have been ported to the SL1 Next UI and pages developed in the Next UI.

Architecture and Installation

- New feature for the installation process for Extended Architecture. The installation menu now includes an option for "Platform Node". This option allows users to build a Management Node, one or more Compute Nodes, one or more Storage Nodes, and one or more Load Balancers.
- Added deployment options for the SL1 Extended Architecture.

Automation

- Removed two default Run Book Actions from the SL1 platform: EM7 Ping Snippet and EM7 Event Trap.
 - On SL1 systems that use the action "EM7 Ping Snippet", the action will not be removed.
 - On SL1 systems that use the action "EM7 Event Trap", the action will not be removed.
 - The SL1 platform now includes a new default PowerPack, SL1 Event Trap Automation Action. This PowerPack includes an automation action for sending SL1 event details in an SNMP trap message.

Backups

- Configuration Backups no longer include updated bundles and packages. This results in a faster backup process and smaller backup files (reduced in size by up to 80%).
- Full Backups and Configuration Backups include new settings for daily, weekly, and monthly frequencies.
- Full Backups and Configuration Backups include new option to specify the timezone for scheduled backups.

Collection

- Updated the ScienceLogic Agent to make vital data collection for devices running on the extended SL1 architecture more consistent with data collection for devices running on the classic SL1 architecture.

Credentials

- Updated Net-SNMP to the latest version to add support for credentials that use SNMP v3 and AES encryption. (Support ID: 162987) (Case: 29941)
- Added new features to the Credential Editor page, to support SNMPv3 credentials with AES 128, AES 192, and AES 256 encryption.

Dashboards

- For device widgets that are not leaderboard widgets, you can use the **Select Index** metric option to choose which index to display from a particular metric.

Devices

- The **[Device Investigator]** tab now displays an **Events** pane at the top of the main viewing area instead of a **Logs** pane. The **[Device Investigator]** tab retains any changes you made to the set of device metrics displayed for each device, on a user-by-user basis.
- On the **Device Investigator** page, only tabs relevant to the selected device are available. For example, the **Interfaces** tabs does not display if the selected does not use interfaces. Also, sections on a **Device Investigator** tab display as "Empty" where no metrics exist for that section.
- On the **[Attributes]** tab for a device, you can edit or unalign an attribute by selecting that attribute and making your changes. You can also align, edit, or unalign more than one attribute without needing to click **Save** after each action.
- On the **[Collections]** tab for a device, you can view Version, Group, and Label information in the information pane in the **Presentation Objects** section. Also, the **Poll Frequency** field on the information pane now displays the current frequency instead of "not overridden." When you run a dynamic application on this tab, a status window displays the status and relevant logs for the dynamic application.
- The **[Software]** tab for a device was also updated to match the look and feel of the Unified user interface.

Diagnostics

- Added a new diagnostic tool. In the Appliance Manager page (System > Settings > Appliances), users can click the page icon to view diagnostic information about the SL1 appliance. The diagnostic data is collected every 15 minutes.

Discovery

- The universal discovery tool now includes a native credential test tool.

Dynamic Applications

- Improvements to Dynamic Application collection. Post processing of collected Dynamic Application data is now a standalone module.

Events

- On the Event Policies page, you can perform the following bulk actions on more than one event policy: Delete, Enable, Disable, and Clear Suppressions.
- Updated GQL to include bulk actions (Enable/Disable Event Policies, Delete Event Policies, Clear Suppressions for Event Policies) for Event Policies.
- For events of type Dynamic, in the Event Policy page, in the Match Logic tab, the Link-Alert page includes a search field so you can quickly find a specific Dynamic Application and alert.
- The **Masked Events** column on the **Events** page now lists a magnifying glass and the word "Masked" in the column for masked events. You can click this entry to view the details about the masked events on the **Event Investigator** page.
- You can align and unalign external tickets to a specific event or events using the *Align Ticket* option from the **Actions** menu on the **Events** page, or the *Align* option from the bulk action menu.

PhoneHome

- Improvements to PhoneHome:

- More robust connections and configuration.
- SL1 now stores PhoneHome configuration data in each Database Server and the database on each Data Collector. SL1 runs a sync command every 15 seconds that allows each appliance to pick up configuration changes, including changes to SSH keys.
- PhoneHome now includes centralized and robust methods to add/delete/update configuration data on each Database Server.
- PhoneHome configuration is included in Config Backup.
- For High Availability configurations, seamless support of failover that requires no user intervention.
- Improved PhoneHome Watchdog process so that it now mimics the task manager for Data Collectors.
- The PhoneHome command no longer supports the "enable" and "disable" options.
- The PhoneHome command no longer supports the "export" and "import" options.
- The Web Configuration Tool for PhoneHome no longer includes the checkbox "Make requests via HTTPS".
- To support new PhoneHome configurations on systems where the Database Server resides in a cloud service like AWS, PhoneHome no longer requires password-based authentication for the sshd process.

Platform

- Distributed SL1 system can run on Hyper-V on Windows Server 2016.
- The size of the /var partition increases and decreases dynamically to accommodate the system update tools and docker containers.

PowerPacks

- You can now include dashboards that run in the unified UI in a PowerPack.
- Improvement to the PowerPack Manager page. The PowerPack Manager page (System > Manage > PowerPacks). now displays a column for Dashboards SL1 (dashboards that run in the unified UI).

Publisher

- Added the first iteration of Publisher to SL1.

Reports

- In the Scheduled Report Job page (Reports > Create Report > Scheduled Jobs / Report Archive), if a report fails, SL1 displays its status as "Failed" and displays a count of failures, as well as additional information if available.
- Added a new field to the Device Outage History report. Users can now specify the number of missed polls that must occur for a device to appear in the report. (Case 00018759) (Support ID: 175725) (EM-28979)

ScienceLogic Agent and Agent Pipeline

- The ScienceLogic platform now processes information about Windows services, collected by the Agent.
- The ScienceLogic platform now processes information about network interfaces, collected by the Agent.

- The ScienceLogic Agent now processes information about system processes, collected by the Agent.
- Added new features to the ScienceLogic Agent, including aggregation and availability services. The ScienceLogic Agent was also updated to collect additional system vitals metrics including information about file systems, system swap, and network interfaces.

ScienceLogic REST API

- Made improvements to the REST API. User can now retrieve interface tags, create interface tags, and edit interface tags via the REST API.
- Added new features to the REST API, to support SNMPv3 credentials with AES 128, AES 192, and AES 256 encryption.

ScienceLogic Support PowerPack

- Improvements to the ScienceLogic Support PowerPack. This PowerPack is included with 8.14.0. The ScienceLogic Support PowerPack includes Dynamic Applications, Event Policies, Device Templates, Device Groups, Reports, Run Book Policies, and Credentials. The PowerPack monitors performance metrics, generate alerts when a metric is out-of-band, triggers events, and includes a Run Book Policy that notifies SL1 Administrators.
- The newest version of the ScienceLogic Support PowerPack deprecates SNMP-based monitoring of mysql. However, if you are using this feature, it will not be removed from your system.

Search

- You can save searches for Dashboards, Events, and Devices. After you enter search criteria, save a search by clicking the gear icon and selecting *Save*, and you can access saved searches by clicking the gear icon and selecting *Saved Searches*.

System Update

- The 8.14.0 release includes a delta-less update. Any system running 8.6.0 or later can be upgraded to the 8.14.0 release by importing, staging, and deploying a single update file.
- Added command-line tools for delta-less system-update, for use by ScienceLogic Customer Support.

Tools

- The **Tools** menu only appears for devices and events where the tools are relevant and can be used. For example, if a device associated with an event does not have an IP address, only the Availability tool will be available, and the following tools will not appear for that device and its events: Ping, Who IS, Port Scan, AP, and Trace Route.

Usage and Billing

- The payload of data sent to ScienceLogic as part of the subscription billing process now includes a list of Dynamic Applications aligned to each monitored device.
- A troubleshooting script has been added for the subscription usage process. The script validates the configuration of the subscription usage process and tests the connection to the ScienceLogic central billing

infrastructure. This script can be run from the command-line of the primary Database Server or All-in-One Appliance.

- The payload of data sent to ScienceLogic as part of the subscription billing process now specifies the number of applications, business services, IT services, and device services with which each device is associated.
- The usage payload that is sent to ScienceLogic as part of the subscription billing process now includes counts of device services, IT services, business services, application components, and applications.
- The payload of data sent to ScienceLogic as part of the subscription billing process now specifies the number of run book automation actions being executed in the system per type of automation action.
- The payload of data sent to ScienceLogic as part of the subscription billing process now includes a list of all installed PowerPacks, including the GUID, name, version, revision, and publisher for each PowerPack.

Users

- The new **User Groups** page (Manage > User Groups) lets you view a list of User Groups. This page is only visible to users with the new access hook `USER_GROUP_VIEW`.
- SL1 administrators can assign user permission groups to accounts created with LDAP and Active Directory.

Issues Addressed in 8.14.0

NOTE: The Unified UI includes pages from the SL1 Classic UI that have been ported to the SL1 Next UI and pages developed in the Next UI.

Access Logs

- In the unified UI, when a user opens a second session on the same SL1 appliance with the same user name, the Access Logs page (System > Monitor > Access Logs) now updates the existing log entry for that user on that system (and no longer creates a new entry). (EM-30003)

AWS

- When SL1 is installed on AWS instances, the SL1 process "The Enterprise Database: Collector Task Manager" no longer generates an unhandled exception related to mysql internal tables. (Case: 47605) (Support ID: 180138) (EM-32144) (EM-33230)

Backups

- After restoring a configuration backup, Run Book Automation policies that have the Status "Ticket IS Requested" will no longer trigger automation action based on old data. (Case 00043399) (Support ID: 179409), (EM-31809)

Business Services

- The Business Service Status Rule and the Availability/Health/Risk aggregation now retrieve data that was visible in the Classic Device Dashboards. (Case 00053186) (EM-32706)
- Addressed an issue where the "Business Service: Device Service Risk Is Very Low" event in the Business Services PowerPack was aligned with the wrong alert. (EM-33039)

Credentials

- In SSH Credentials, the Private Key (PEM Format) field is now obfuscated to those who do not have the required access keys. (Case 00035371) (Support ID: 178772) (EM-30891) (EM-30891)

Devices

- The Device Investigator page now displays full list of available presentation objects for a Dynamic Application. (Case 00052456) (EM-32720)
- The SSH Tool has been removed from the Device Toolbox (Registry > Devices > Device Manager > wrench icon > Toolbox). (Case 00022135) (Support ID: 176020), (EM-29178) (EM-29178)
- When two (or more) maintenance schedules apply to a single device or a single IT Service, and the second maintenance schedule starts while the first maintenance schedule is active, and the second maintenance schedule ends after the first maintenance schedule ends, the device or the IT Service no longer goes out of the 'Maintenance' state after the first maintenance schedule ends and no longer ignores the still active, second maintenance schedule. (Case IDs: 60231, 56907, 21945, 48749, 44271) (EM-34349) (EM-29071)
- In systems with over 300 Device Categories, SL1 now assigns accurate Device Categories to discovered devices. (Case 000401560) (Support ID: 179038) (EM-31496)
- In the Device Components page, (Registry > Devices > Device Components), the Select Actions menu now includes an option to recursively delete a root device and all its component devices with a single operation. (Support ID: 94914) (EM-7977)
- In the Device Components page (Registry > Devices > Device Components), the Actions menu includes an entry for Merge Devices only for physical devices with no children component devices. For component devices, the Device Bulk Merge modal page does not include the root device or other component devices as devices to merge with. (Support ID: 91767) (Support ID: 121838) (EM-7892)

Disaster Recovery

- In Disaster Recovery configurations, the primary Database Server is no longer automatically demoted to secondary during system update. (Case 00037880) (Support ID: 178841) (EM-31032)

Dynamic Applications

- After fixing a pathname, the Dynamic Application "EM7: Event Statistics" now returns values. (Case 23530), (Support ID: 107152), (Support ID: 152756), (Support ID: 90047) (EM-23482)

Events

- A search created on the Events page no longer remains in place after you go to another page and then return to the Events page. (Case 00043762) (EM-31724)

File System

- In distributed SL1 systems, SL1 no longer triggers events about a file system if that file system is hidden. (Support ID: 176956) (Case 00025457) (EM-29823)

- When a file system "major" event is cleared, a "healthy" alert is now triggered only for the "major" threshold. When a file system "critical" event is cleared, a "healthy" alert is now triggered for both the "major" threshold and the "critical" threshold. (Support ID: 172082) (EM-27151)

Form Fields

- Dynamic Applications (specifically a collection object) can now populate Form Fields (System > Customize Form Fields) of typed "Tabbed". (Support ID: 131127) (EM-19769)

Interfaces

- CBQoS Interface-specific thresholds now override global thresholds and trigger events appropriately. (Support ID: 110630) (EM-16403)

ITSM

- In IT Service Monitoring policies, addressed an issue with dynamic device groups that was generating spurious alerts "Service Unavailable" and "Service Health: Critical" when member devices were 100% available. (Support ID: 166523) (case 3379) (EM-27287)

Navigation Tabs

- The Navigation Tab Editor page (System > Customize > Navigation Tabs) no longer fails to load due to the low memory limit for PHP. (Support ID: 174543) (EM-30910)

PhoneHome

- The phonehome check command no longer throws the error "Problems when converting string to json". (Case 00036880) (Case 00018548) (Support ID: 176783) (EM-29473) (Support ID: 145680) (EM-22588)
- SL1 now stores configuration data in each Database Server and the database on each Data Collector. SL1 runs a sync command every 15 seconds that allows each appliance to pick up configuration changes within 15 seconds and reflect an accurate status. (Support ID: 161374) (EM-25761) (Support ID: 127506) (EM-19093)
- SL1 now stores configuration data in each Database Server and the database on each Data Collector. SL1 runs a sync command every 15 seconds and maintains accurate SSH keys on each Data collector. (Support ID: 137787) (Support ID: 159536) (EM-24499)
- SL1 now stores PhoneHome configuration data in each Database Server and the database on each Data Collector. SL1 now includes centralized and robust methods to add/delete/update configuration data on each Database Server. (Support ID: 157712) (EM-24243) (Support ID: 153147) (EM-23459)
- Improved PhoneHome Watchdog process so that is now mimics the task manager for Data Collectors. (Support ID: 103629) (EM-13153)
- To support new PhoneHome configuration on SL1 systems where the Database Server resides in a cloud service like AWS, PhoneHome no longer requires password-based authentication for the sshd process. (Support ID: 103274) (EM-12278)

Platform

- The order in which certain storage objects are collected no longer affects high-frequency collection and no longer causes collection outages, (Case 00015562) (Case 00015609) (EM-21037)
- The phpMyAdmin tool (port 8008) now uses HTTPS by default. (Case 00024722) (Support ID: 178237) (EM-30412)
- Pages no longer load slowly or fail to load due to the low memory limit for PHP. (Case 00023026) (Case 00031042) (Case 00025328) (Case 00011848) (Case 00018300) (Case 00013949) (Case 00030891) (Case 00011245) (Case 00025328) (EM-29271)

PowerPacks

- Several PowerPacks were updated to address an issue in which library version conflicts could cause the ScienceLogic Libraries included in those PowerPacks to become corrupted. To address this issue, if you are using the following PowerPacks, you must install the most recent versions, listed below (EM-26345):
 - Amazon Web Services v115
 - Dell EMC: Unity v101
 - Dell EMC: VMAX and PowerMax Unisphere API v201
 - Dynatrace v102
 - Google Cloud Platform v102
 - LayerX: Application Monitor v101
 - Microsoft: Office 365 v102
 - Microsoft: Windows Server Cluster v101
 - Microsoft: Windows Server Services v101
 - NetApp Data ONTAP v105
 - Nginx: Open Source and Plus v102
 - Pure Storage: Flash Array v102
 - REST v105
 - ScienceLogic: Integration Service v104
 - Tivoli Storage Manager v101
 - Windows Restart Automatic Services v101

Reports

- In the Report Job Editor (Reports > Create Report > Report Jobs > edit or create), if the Job Type field specifies "Email & Archive" and is sent to multiple recipients, Amazon SMTP servers no longer reject the email with the error "Illegal semicolon, not in group". (Support ID: 52,013) (Case 00023654) (Case 00036873) (EM-23409)
- In the File System Top Metrics report (Reports > Run Report > Storage > File system Top Metrics), added a new field, Divisor. Users can select either 1000 or 1024, to match the measurement used locally by the device. (Case 00024364) (Support ID: 176,657) (EM-29439)

Run Book Automation

- Run Book Actions of type "Send an AWS SNS Message" no longer fail with the error message "Error in AWS library". (Case 00028646) (Support ID: 177652) (EM-29917) (EM-29917)

ScienceLogic Support PowerPack

- In the Data Pull Support PowerPack, if the table "in_storage.hf_storage", the table "in_storage.mf_storage", or the table "in_storage" includes a null value, the Dynamic Application "[HF \ | MF \ | LF] Data Pull: Statistics" no longer displays the spurious error message "Non-digits in oid with object...when updating performance value (val:None)" (Case 00022816) (Support ID: 176740) (Support ID: 128891) (EM-30584)
- The Support PowerPack can now monitor the SL1 licenses on Database Servers and All-in-One appliances and generate events at 30 days before expiration and again at 14 days before expiration. (Case 00029236) (EM-28013)
- Each SL1 appliance now triggers an alert and event if the EM7 service is paused. The event is "proc_mgr received a close signal and is shutting itself down". (Case 00022682) (Case: 00024500) (EM-27696)
- The Support PowerPack now monitors the following additional MySQL metrics: table_open_cache and table_definition_cache. (Case 00030803) (EM-21104)
- Addressed an issue with the Data Pull Support PowerPack. If the in_storage.hf_storage table, in_storage.mf_storage table or in_storage.lf_storage table includes a null value, the Dynamic Application "[HF \ | MF \ | LF] Data Pull: Statistics" no longer displays the spurious error message "Non-digits in oid with object...when updating performance value (val:None)" (Case 00022816) (Support ID: 176740) (Support ID: 128891) (EM-19398)
- Improved the Support PowerPack to monitor the following additional MySQL metrics: slow_query_log, innodb_buffer_pool_size, innodb_data_file_path, max_connections, innodb_file_per_table, and general_log. (Support ID: 120825) (Support ID: 122611) (EM-18251)

System Update

- Addressed an issue with System Updates (System > Tools > Updates). After importing an update, the Staging Status no longer hangs with a status of "Scheduled". EM-31690.

Web Configuration Tool

- Addressed an issue with The Web Configuration Tool. The Web Configuration Tool no longer displays the error message "Save failed. Please fix form errors and try again" when users configure a Data Collector or Message Collector. (Case 00030636) (Support ID: 175541) (EM-28872) (EM-28872)

PowerPacks in 8.14.0

Before upgrading to 8.14.0, please verify whether any PowerPacks currently running on your system are "newer" than the PowerPacks included in this SL1 update. If the PowerPack on your system is "newer" than the one included with the SL1 update, you might see spurious error messages. To avoid spurious error messages:

1. Go to the **Device Components** page (Registry > Devices > Device Components).
2. Find each root device associated with the PP you do not want to update and select its checkbox.

3. Click the **Select Action** field and choose *Change Collection State: Disabled (recursive)*. Click the **[Go]** button.
4. Wait five minutes after disabling collection.
5. install the SL1 update.
6. Go to the **Device Components** page (Registry > Devices > Device Components).
7. Select the checkbox for all affected root devices.
8. In the Select Actions drop-down list, select *Change Collection State: Enabled (recursive)*.
9. Click the **[Go]** button.

The 8.14.0 release includes the following PowerPacks that are new or updated and included with the release:

- Amazon Web Services, v115
- Cisco: AppDynamics v101
- Cisco: Video Endpoints v106
- Dell EMC: Unity, v101
- Dell EMC: VMAX and PowerMax API, v201
- Host Resources Core Pack v106
- ScienceLogic Integration Service, v105
- LayerX Appliance Monitoring, v101
- Microsoft: SQL Server Enhanced, v104
- Netapp Base Pack, v105
- Nutanix: Base Pack, v102
- Pure Storage SNMP, v101
- Pure Storage SNMP, v102
- Pure Storage: Flash Array, v102
- SL1 Event Trap Automation Action, v100
- VMWare: vSphere Base Pack v213
- Window Restart Automatic Service, v101

Several PowerPacks were updated to address an issue in which conflicts with library version could cause the ScienceLogic Libraries included in those PowerPacks to become corrupted. To address this issue, if you are using the following PowerPacks, you must update to the most recent versions, as listed below:

- Amazon Web Services v115
- Dell EMC: Unity v101
- Dell EMC: VMAX and PowerMax Unisphere API v201
- Dynatrace v102
- Google Cloud Platform v102
- LayerX: Application Monitor v101

- Microsoft: Office 365 v102
- Microsoft: Windows Server Cluster v101
- Microsoft: Windows Server Services v101
- NetApp Data ONTAP v105
- Nginx: Open Source and Plus v102
- Pure Storage: Flash Array v102
- REST v105
- ScienceLogic: Integration Service v104
- Tivoli Storage Manager v101
- Windows Restart Automatic Services v101

Documentation and release notes for each PowerPack are available on the [ScienceLogic Portal](#).

CAUTION: If you are currently using the Amazon Web Services PowerPack included in the 8.1.0 platform release or included in an earlier platform release, please read the release notes for Amazon Web Services before migrating to later versions Amazon Web Services PowerPack. You must first migrate to Amazon Web Services, v100 before upgrading to later versions of the Amazon Web Services.

CAUTION: If you are currently using the VMware: vSphere Base Pack, v202 or earlier, please read the migration instructions in the release notes for VMware: vSphere Base Pack, v203 and migrate to v203 before upgrading to later versions of the PowerPack.

NOTE: The "Polycom Infrastructure" PowerPack is no longer included with platform releases. (POLI-11)

NOTE: The "Microsoft SharePoint" PowerPack is no longer included with platform releases. The PowerPack is superseded by the "Microsoft: SharePoint Server" PowerPack.

NOTE: The "Microsoft SQL Server" PowerPack is no longer included with platform releases. The PowerPack is superseded by the "Microsoft: SQL Server" and "Microsoft: SQL Server Enhanced" PowerPacks.

NOTE: The "Microsoft Exchange" PowerPack is no longer included with platform releases. The PowerPack is superseded by the "Microsoft: Exchange Server 2010" and "Microsoft: Exchange Server 2013" PowerPacks.

NOTE: The "Microsoft HyperV" PowerPack is no longer included with platform releases. The PowerPack is superseded by the PowerPack "Microsoft: Hyper-V Server".

New and Updated Packages in 8.14.0

8.14.0 includes multiple package updates to address security issues and improve performance.

WARNING: 8.14.0 included important security updates that require you to reboot all appliances after installing 8.14.0. ***If you have not previously installed 8.14.0 and rebooted all appliances, you must do so after installing 8.14.3.*** If you would like assistance in planning an upgrade path that meets your security needs while minimizing downtime, please contact your Customer Success Manager

Beta Features

The following beta features are included in the 8.14.9 release:

Manual Device Discovery

- This beta feature allows monitored devices to be added manually instead of via a discovery session.

Run Book Actions: Custom Action Type

- A Run Book Action of type "Custom Action Type" executes a reusable snippet. Unlike the Action Type "Snippet", a Custom Action Type can accept input parameters (in a JSON format) and create output (in a JSON format). A Custom Action Type allows a single snippet to be used in multiple Action Policies, each time with different inputs and different outputs. A Custom Action Type is associated with an Execution Environment. An Execution Environment contains the supporting modules and code (Content Libraries) required by the Custom Action Type. Content Libraries allow snippet developers to isolate the "heavy weight", re-usable code and write "lightweight" snippets that call the Content Libraries.

SNMP Collection


- Improvements to SNMP Collection to increase performance and capacity. Collections from high-latency devices will not slow collection from other devices. Collections that timeout will not block other collections from executing. This is a beta feature that is not enabled by default. Contact ScienceLogic Customer Support to enable this feature.

PowerPacks

- Beta versions of the following PowerPacks are available. You can download them from the Customer Portal and import them into SL1:

- Alibaba Cloud: Aliyun
- AMQP: RabbitMQ
- Cisco: ACI Multi-Site Manager
- Cisco: Cloud Center
- Cisco: Contact Center Enterprise
- Cisco: Hyperflex
- Cisco: Medianet/Mediatrace
- Cisco: Meraki (API)
- Cisco: Tetration
- Cisco: UC Ancillary PowerPack. Includes Dynamic Applications for monitoring Cisco CUBE devices.
- Cisco: UCS Director
- Cisco: Unity Express (Download from the Customer Portal and Import into SL1)
- Docker (Download from the Customer Portal and Import into SL1)
- ELK: AWS CloudTrail
- ELK: Azure Activity Log
- F5: BIG-IP DNS
- Google Cloud Platform
- Hitachi Data Systems: VSP
- Kubernetes
- Link Layer Neighbor Discovery (Download from the Customer Portal and Import into SL1)
- Microsoft: Office 365
- Microsoft: Windows Server Event Logs
- Palo Alto (Download from the Customer Portal and Import into SL1)

To install a beta PowerPack:

1. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
2. Select the **[Actions]** menu and select *Install PowerPack*. The **PowerPack Installer** modal page is displayed.
3. Select the lightning-bolt icon () for the PowerPack you want to install. Information about the contents of the PowerPack and the installation process is displayed.
4. Select the **[Install]** button.

TIP: By default, installing an updated version of a PowerPack will overwrite all content in a PowerPack that has already been installed on the target system. You can use the **Enable Selective PowerPack Field Protection** setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent new PowerPacks from overwriting local changes for some commonly customized fields.

Disabling the Knowledge Base

The Knowledge Base includes known security vulnerabilities. ScienceLogic no longer supports the Knowledge Base.


- If your first installation of SL1 was 8.9.1 or earlier, ScienceLogic strongly recommends that you disable the Knowledge Base. SL1 provides a setting in the `silos.conf` file to disable the Knowledge Base.
- For newer installations where the first installation was 8.9.2 or later, the Knowledge Base will be disabled by default.

WARNING: The Knowledge Base includes known vulnerabilities for cross-site scripting and SQL injection. ScienceLogic strongly recommends that you disable the Knowledge Base.

To disable the Knowledge Base:

1. Use SSH to connect to the Administration Portal and Database Server or All-In-One (all SL1 appliances that provide a web interface).
2. Use an editor like vi and edit the file `/etc/silos.conf`. In the LOCAL section, add the line:

```
kbasedisabled=1
```
4. Use an editor like vi and edit the file `/etc/siteconfig/silos.conf.siteconfig`. In the LOCAL section, add the line:

```
kbasedisabled=1
```
5. Open a browser session and log in to SL1 .
6. From the hamburger menu () in the upper right, select **Clear SL1 System Cache**.
7. Upon your next login, the Knowledge Base tab will not appear. Attempts to access the tab will result in an "Access Denied" error message.

Special Upgrade Process for FIPS-Compliant System

FIPS-compliant systems should use the classic SL1 user interface. The Unified User Interface is not yet FIPS-compliant.

FIPS-compliant systems (those that are FIPS 140-2 enabled) should [manually upgrade to the latest version of MariaDB](#).

The platform patch will automatically update MariaDB-client, MariaDB-common, and MariaDB-shared RPMs but will not update the MariaDB-server rpm.

Upgrade Process for Systems Running 8.1.0 and Earlier

WARNING: *ScienceLogic strongly suggest you contact Customer Support or your Customer Success Manager to plan your migration from CentOS (versions of SL1 prior to 8.1.1) to 10.1.3.*

The 8.1.1 release included a complete update of the ScienceLogic appliance operating system from CentOS 5.11 to Oracle Linux. Major operating system components, including the database, web server, and High Availability/Disaster Recovery packages have been updated or replaced by new, industry-standard packages.

When upgrading from a version prior to 8.1.1, each appliance must be migrated to 8.9.0 and the Oracle Linux 7.5 operating system. Contact Customer Support or your Customer Success Manager to plan your migration from CentOS (versions of SL1 prior to 8.1.1) to 10.1.3.

TIP: For detailed instructions on planning an upgrade, best practices for upgrades, and executing an upgrade, see the chapter on **Upgrading SL1** in the **System Administration** manual or this section online (the latest upgrade instructions include instructions for the SL1 8.14.x line of releases and later releases):
https://docs.sciencelogic.com/latest/index.htm#Web_Admin_and_Accounts/System_Administration/sys_admin_system_upgrade.htm

Upgrade Process for Systems Running 8.1.1 and Later

TIP: For detailed instructions on planning an upgrade, best practices for upgrades, and executing an upgrade, see the chapter on **Upgrading SL1** in the **System Administration** manual or this section online (the latest upgrade instructions include instructions for the SL1 8.14.x line of releases and later releases):
https://docs.sciencelogic.com/latest/index.htm#Web_Admin_and_Accounts/System_Administration/sys_admin_system_upgrade.htm

If you are running 8.4.0 or earlier and require access to all ticket notes immediately after upgrading, contact ScienceLogic Customer Support for details on manually updating the database schema **before you upgrade**.

If you are running 8.4.0 or earlier and have added one or more custom firewall rules, such as a non-standard port for Phone Home Collectors, you must migrate these rules to firewallld **before you upgrade**. Please contact ScienceLogic Support for more information.

If you are upgrading from a version of SL1 prior to 8.6.0, you will have to import, stage, run the pre-upgrade script, and deploy the update twice: once to upgrade to 8.6.0 and then again to use a delta-less upgrade to the latest update release.

Downloading SL1 Updates on SL1 Systems running 8.1.x - 8.5.x

To download updates for previous SL1 software versions that have reached their End of Life date and are no longer supported by ScienceLogic, contact ScienceLogic Support or a designated Customer Success Manager to get the

update files.

You must upgrade your system to 8.6.0 and then upgrade again with the newer delta-less upgrade process.

Store the update files in a location that you can use to upload files to the SL1 system.

NOTE: These steps do not affect the performance of SL1. ScienceLogic recommends that you perform these steps at least 3 days before upgrading.

TIP: For detailed instructions on planning an upgrade, best practices for upgrades, and executing an upgrade, see the chapter on **Upgrading SL1** in the **System Administration** manual or this section online (the latest upgrade instructions include instructions for the SL1 8.14.x line of releases and later releases):
https://docs.sciencelogic.com/latest/index.htm#Web_Admin_and_Accounts/System_Administration/sys_admin_system_upgrade.htm


Downloading SL1 Updates on SL1 Systems Running 8.6.0 or Later

If your SL1 System is running version 8.6.0 or later, you can download a single update file and update your SL1 system to the latest release.

Before you can load a patch or update onto your instance of the SL1 system, you must first download the patch or update to your local computer. To do this:

NOTE: These steps do not affect the performance of SL1. ScienceLogic recommends that you perform these steps at least 3 days before upgrading.

1. Log in to <https://support.sciencelogic.com>. Use your ScienceLogic customer account and password to access this site.
2. Select the Product Downloads button, select the **Product Downloads** menu, and choose *Platform*.
3. Find the release you are interested in and click its name.



Release Version

SL1 Big Ben 8.12.0

Edit

Delete

Release Version Name

SL1 Big Ben 8.12.0

End of Maintenance

10/31/2020

Online Documentation

Number of Files

2

Version

8.12.0

End of Life

4/30/2021

Allow Customers to View on Community

☐

Release Files (2)

New

FILE NAME	COMMENTS	RECORD TYPE	RELEASE DATE
8.12.0	System running 8.10.0+ or System has 8.10.0 siloupdat...	Product Update	4/24/2019
8.12.0		Image	4/24/2019

View All

- In the **Release Version** article, click on the link for the release image or release patch you want to download. Scroll to the bottom of the page.
- Under **Files**, select the link for the file you want to download. The file is then downloaded to your local computer.

TIP: For detailed instructions on planning an upgrade, best practices for upgrades, and executing an upgrade, see the chapter on **Upgrading SL1** in the **System Administration** manual or this section online (the latest upgrade instructions include instructions for the SL1 8.14.x line of releases and later releases):
https://docs.sciencelogic.com/latest/index.htm#Web_Admin_and_Accounts/System_Administration/sys_admin_system_upgrade.htm

Recently Deprecated Features

8.9.0

High-Availability and Disaster Recovery no longer support the command "drbd-overview". To check the status of drbd, use "cat /proc/drbd".

8.9.2

Added security features to the ScienceLogic API. The /api/account resource no longer includes the "passwd" field. To set a password for a user account, administrators can POST to "/api/account/<account_id>/password". The password value will be encrypted in storage. (EM-15299)

The Knowledge Base includes known security vulnerabilities. ScienceLogic no longer supports the Knowledge Base and strongly recommends that users disable the Knowledge Base. In future versions of SL1 will, the Knowledge Base will be disabled by default. (EM-26508)

8.10.0

Deprecated the Access Hook "Cred:Passwords". Added two new Access Hooks to provide more granular access: "Cred: Passwords: Edit" and "Cred: Passwords: View". (EM-27312)

8.12.0

Removed the password field from the account resource in the ScienceLogic API (EM-26716)

The FTP, SFTP, NFS, and SMB backup options that stage locally are no longer supported. (EM-28362)

Integration Server appliances are no longer supported. (EM-27126)

System Update no longer supports the shell command "deploy_patch". (EM-23982)

8.14.0

Deprecated the SNMP-based version of the ScienceLogic Support PowerPack (EM-30510)

The SSH Tool has been removed from the Device Toolbox (Registry > Devices > Device Manager > wrench icon > Toolbox). (Case 00022135) (Support ID: 176020), (EM-29178)

Known Issues

EM-33993


- If you are running SL1 on AWS with RDS, you must update the EM7 DB credential included with the platform. Run Book actions that create SQL connections to the SL1 database use the EM7 DB credential. The EM7 DB credential includes %D in the **Hostname/IP** field. However, %D resolves to "local host" of the Database Server. Because RDS does not run on the Database Server, it uses a different host, port, username and password than the Database Server. To update the EM7 DB credential:

1. Either go to the console of the SL1 Database Server or use SSH to access the server.
2. Open the file /etc/silo.conf.
3. Note the values of the following lines under [CENTRAL]:

```
dbserver=<IP>
dbport=<port_number>
dbuser=<username>
dbpasswd=<password>
```

where:

- the italicized text is replaced with actual values for the RDS without the "<" and ">" characters.
4. Exit the shell session.
 5. Go to the **Credential Management** page (System > Management > Credentials).

6. Find the **EM7 DB** credential and then click its wrench icon ().
7. In the **Edit Database Credential** page, edit the following fields:
 - **DB User**. Enter the value from the line "dbuser=<username>" in the silo.conf file.
 - **Password**. Enter the value from the line "dbpasswd=<password>" in the silo.conf file.
 - **Hostname/IP**. Enter the value from the line "dbserver=<IP>" in the silo.conf file.
 - **Port**. Enter the value from the line "dbport=<port_number>" in the silo.conf file.
8. Click Save.

For a list of additional Known Issues and workarounds, see the ScienceLogic Customer Portal at <https://support.sciencelogic.com/s/topic/0TO0z000000E6w7GAC/known-issues>.

© 2003 - 2021, ScienceLogic, Inc.

All rights reserved.

LIMITATION OF LIABILITY AND GENERAL DISCLAIMER

ALL INFORMATION AVAILABLE IN THIS GUIDE IS PROVIDED "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED. SCIENCELOGIC™ AND ITS SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

Although ScienceLogic™ has attempted to provide accurate information on this Site, information on this Site may contain inadvertent technical inaccuracies or typographical errors, and ScienceLogic™ assumes no responsibility for the accuracy of the information. Information may be changed or updated without notice. ScienceLogic™ may also make improvements and / or changes in the products or services described in this Site at any time without notice.

Copyrights and Trademarks

ScienceLogic, the ScienceLogic logo, and EM7 are trademarks of ScienceLogic, Inc. in the United States, other countries, or both.

Below is a list of trademarks and service marks that should be credited to ScienceLogic, Inc. The ® and ™ symbols reflect the trademark registration status in the U.S. Patent and Trademark Office and may not be appropriate for materials to be distributed outside the United States.

- ScienceLogic™
- EM7™ and em7™
- Simplify IT™
- Dynamic Application™
- Relational Infrastructure Management™

The absence of a product or service name, slogan or logo from this list does not constitute a waiver of ScienceLogic's trademark or other intellectual property rights concerning that name, slogan, or logo.

Please note that laws concerning use of trademarks or product names vary by country. Always consult a local attorney for additional guidance.

Other

If any provision of this agreement shall be unlawful, void, or for any reason unenforceable, then that provision shall be deemed severable from this agreement and shall not affect the validity and enforceability of any remaining provisions. This is the entire agreement between the parties relating to the matters contained herein.

In the U.S. and other jurisdictions, trademark owners have a duty to police the use of their marks. Therefore, if you become aware of any improper use of ScienceLogic Trademarks, including infringement or counterfeiting by third parties, report them to Science Logic's legal department immediately. Report as much detail as possible about the misuse, including the name of the party, contact information, and copies or photographs of the potential misuse to: legal@sciencelogic.com



800-SCI-LOGIC (1-800-724-5644)

International: +1-703-354-1010