



SL1 10.2.1 Release Notes

SL1 version 10.2.1 , Revision 2

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Overview

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TIP: 10.2.1 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 10.2.1.

Upgrade Notes

- If you are running 10.1.5.3 or 10.1.6 and want to upgrade to the 10.2.x line, you can upgrade to 10.2.1.
- ***If you are running a version prior to 8.12.0, do not install 10.2.1 if you do not plan to immediately consume 10.2.1.*** After you import the 10.2.1 release, all appliances in your SL1 system will now use the ***new system update***. After you import the 10.2.1 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 10.2.1 and its new System Updates tool, you must have already imported, staged, and deployed 8.6.0 or a later release.***
- You can install 10.2.1 in AWS RDS/Aurora environments.
 - You can upgrade from 10.1.x running in AWS RDS/Aurora environments to 10.2.1 running in AWS RDS/Aurora environments.
 - However, you cannot upgrade from 8.14.x running in AWS RDS/Aurora environments directly to 10.2.1 running in AWS RDS/Aurora environments.
- 10.2.1 includes important security updates. ***You must reboot all AIO appliances and all appliances in the SL1 Distributed Architecture after deploying 10.2.1.*** 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 strongly recommends that you review the [Known Issues](https://support.sciencelogic.com/s/topic/0TO0z000000E6w7GAC/known-issues) for SL1 (<https://support.sciencelogic.com/s/topic/0TO0z000000E6w7GAC/known-issues>) before installing a new update. For Known Issues specific to 10.2.x, see the [Known Issues](#) section of these release notes
- ScienceLogic strongly recommends that you review the instructions on planning an upgrade, best practices for upgrades, and executing an upgrade. To do so, see the chapter on **Upgrading SL1** in the [System Administration](#) manual.
- 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. For instructions on rebooting, see the chapter on **Upgrading SL1** in the [System Administration](#) manual.
 - 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. For instructions on updating MariaDB, see the chapter on **Upgrading SL1** in the [System Administration](#) manual.
 - SL1 updates are delta-less, meaning 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 8.12.2 to SL1 10.1.4, you will install only a single update. And looking at the table below, you can see that 10.1.4 requires you to reboot all SL1 appliances after upgrade but does not require you to upgrade MariaDB. However, two of the releases between 8.12.2 and 10.1.4 include an upgrade to MariaDB. Therefore, you must reboot all SL1 appliances and upgrade MariaDB after you upgrade to 10.1.4.

SL1 Release	Requires Reboot?	Requires MariaDB Upgrade?
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	Yes
8.14.9	Yes	No
10.1.0	Yes	Yes
10.1.1	Yes	No
10.1.2	No	No
10.1.3	Yes	No
10.1.4	Yes	No
10.1.5	Yes	No
10.2.0	Yes	Yes
10.2.1	Yes	No

Caveats

Consider the following caveats before deploying 10.2.1:

- As of 10.1.0, SL1 no longer includes Flash.
- As of 8.12.2, ScienceLogic no longer updates 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 open a new window that displays the appropriate page from docs.sciencelogic.com.
- As of January 1, 2021, **new installations of SL1 Extended Architecture are available only on SaaS deployments**. For existing on-premises deployments of SL1 Extended Architecture, please contact ScienceLogic Customer Support for upgrade documentation and help with technical issues.
- **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.

- 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 10.2.1 .***
- 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](#).***
- Global Manager, SL1 Extended Architecture, the new UI, and PowerFlow do not provide MUD support.
- 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-upgrade 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-upgrade 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.

Known Issue in 10.2.x

Critical Known Issue with the Gen 1 Agent

Upgrading to the 10.2.x causes a service outage with Gen 1 Agents. After upgrade to the 10.2.x line, SL1 can no longer communicate with Gen 1 Agents. ScienceLogic recommends that customers using the Gen 1 Agent not upgrade to the 10.2.x line.

For details on about the known issue and status updates on the fix, please contact ScienceLogic Customer Support.

Major Known Issue with Data Collection

10.2.0 includes a major Known Issue that can cause performance degradation and a potential outage for Data Collectors. (Case: 00170950)

The Concurrent SSH Collection feature is enabled by default on 10.2.0 systems, both upgrades and new installations. The Concurrent SSH Collection feature generates temporary files for each connection attempt to the monitored devices. These temporary files can eventually use all the space in the /var directory of each Data Collector, which can cause performance degradation and a potential outage.

Currently, only the Linux Base Pack PowerPack v103 and later uses concurrent SSH collection.


For full details, see the Knowledge Base Article: <https://support.sciencelogic.com/s/article/5498>

To prevent performance degradation and a potential outage, perform the following workaround steps:

- **Disable Concurrent SSH Collection.** This does not affect PowerPacks that use SSH. When concurrent SSH collection is disabled, the Linux Base Pack PowerPack will use standard SSH collection.
- **Manually prune the temporary files on each Data Collector.** Currently, only the Linux Base Pack PowerPack uses concurrent SSH collection. If you know which Data Collectors are performing collection for the Linux Base Pack PowerPack, you can perform these steps on those Data Collectors. If you do not know which Data Collectors are performing collection for the Linux Base Pack PowerPack, you can safely perform these steps on all Data Collectors.

Disable Concurrent SSH Collection

To disable Concurrent SSH Collection:

1. Log in to the Administration Portal.
2. Go to the Process Manager page (System > Settings > Processes).
3. Find the process "Data Collection: SSH Collector" and select its wrench icon ().
4. Set the **Operating State** to *Disabled*.
5. Save your change.
6. Wait 10 minutes for all collection processes to complete

CAUTION: : If you are monitoring a large number of Linux devices, for example, 100 devices or more, you must re-balance the Data Collectors after stopping Concurrent SSH Collector. For details, see the chapter on *Collector Groups and Load Balancing* in the **Systems Administration** manual.

Manually Prune the files in /var

Currently, only the Linux Base Pack PowerPack v103 and later uses concurrent SSH collection. If you know which Data Collectors are performing collection for the Linux Base Pack PowerPack, you can perform these steps on those Data Collectors. If you do not know which Data Collectors are performing collection for the Linux Base Pack PowerPack, you can safely perform these steps on all Data Collectors.

To manually prune the temporary files in the /var directory on each Data Collector:

1. Go to the console of the Data Collector or use SSH to access the Data Collector.
2. To delete all the temporary files in the Docker container for Concurrent SSH Collection, enter the following at the shell prompt:

```
for container in $(sudo docker ps -a | grep silo_ssh_collector | awk '{ print $1}'); do sudo docker rm -f $container; done
```

3. Notice that /var has more free space now.
4. Perform these steps on either each Data Collector performing collection for the Linux Base Pack PowerPack or on each Data Collectors in your SL1 system.

New Features in 10.2.1

Authentication

- Existing SSH certificates are stored in SL1 with encryption.
- New SSH certificates are stored in SL1 with encryption and are not displayed during or after import.

New and Updated Packages in 10.2.1

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

WARNING: *10.2.1 includes important security updates that require you to reboot all AIO appliances and all appliances in the Distributed stack after installing 10.2.1.* 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 10.2.1

Agent

- The Agent for classic UI now starts successfully on new installations. (JIRA ID: [AP-1729](#))

Reports

- The vSphere Top Utilization report no longer fails with the error "PHP Fatal error: Call to undefined method groupsWrapper::shouldFilterByGroupid() in /dev/shm/codestore-master_reports.dynamic_reports_new.73.inc". (JIRA ID: EM-43321) (Case: 00163026)

SSH Concurrent Collection

- SSH Concurrent Collection is disabled by default. Due to a known issue that can degrade collector performance, ScienceLogic strongly discourages you from enabling SSH Concurrent Collection in 10.2.1. This does not affect PowerPacks that use SSH for collection. When concurrent SSH collection is disabled, those PowerPacks will use standard SSH collection. (JIRA ID: SOL-13728 (Case: 00170950)

User Interface

In 10.2.1 , the default user interface is the Classic User Interface. To change the default user interface to the Unified UI:

To change the default user interface to the Unified UI:

1. Go to the console of the Administration Portal or open an SSH session to the Administration Portal.
2. Navigate to `/opt/em7/share/config/nginx.d`
3. At the shell prompt, enter the following:

```
sudo vi em7ngx_web_ui.fragment
```

4. Find this section in the file:

```
location / {  
    root /usr/local/silo/gui/ap/www;  
    index index.em7;  
}
```

5. Edit as follows:

```
location = / {  
    proxy_set_header Host $host;  
    proxy_set_header X-Forwarded-For $remote_addr;  
    proxy_set_header X-Forwarded-Proto $scheme;  
    proxy_connect_timeout 10;  
    proxy_read_timeout 300;  
    proxy_pass http://localhost:3000;  
}  
  
location /em7 {  
    server_name_in_redirect off;  
    root /usr/local/silo/gui/ap/www;  
    index index.em7;  
}
```

6. Save your changes to the file (`:wq`).
7. Restart the web server. To do this, enter the following at the shell prompt:

```
sudo systemctl restart nginx
```

SL1 Extended Architecture

10.2.1 supports the SL1 Extended Architecture. ***The following SL1 features require the SL1 Extended Architecture:***

- **Expanded Agent Capabilities.** You can configure the SL1 Agent to communicate with SL1 via a dedicated Message Collector. However, this configuration limits the capabilities of the SL1 Agent. If you configure the SL1 Agent to communicate with SL1 via a Compute Cluster, you expand the capabilities of the SL1 Agent to include features like extensible collection and application monitoring.
- **Data Pipelines.** Data pipelines transport and transform data. Data transformations include enrichment with metadata, data rollup, and pattern-matching for alerting and automation. The Data Pipelines provide an alternative to the existing methods of data transport (data pull, config push, streamer, and communication via encrypted SQL) in SL1. Data pipelines introduce message queues and communicate using encrypted web services.
- **Publisher.** Publisher enables the egress of data from SL1. Publisher can provide data for long-term storage or provide input to other applications that perform analysis or reporting.

- **Scale-out storage of performance data** . Extended Architecture includes a non-SQL database (Scylla) for scalable storage of performance data.
- **Anomaly Detection and future AI/ML developments**. Anomaly detection is a technique that uses machine learning to identify unusual patterns that do not conform to expected behavior. SL1 does this by collecting data for a particular metric over a period of time, learning the patterns of that particular device metric, and then choosing the best possible algorithm to analyze that data. Anomalies are detected when the actual collected data value falls outside the boundaries of the expected value range.

The SL1 Extended Architecture includes four additional types of SL1 Appliances:

- **Compute Cluster**. Compute nodes are the SL1 appliances run services that transport, process, and consume the data from Data Collectors and the SL1 Agent. SL1 uses Docker and Kubernetes to deploy and manage these services. The following services and features require the compute function:
- **Load Balancer**. The SL1 appliance that brokers communication with services running on the Compute Cluster. Services running on the Compute Cluster are managed by Kubernetes. Therefore, a single service could be running on one Compute node in the Compute Cluster; to provide scale, multiple instances of a single service could be running on one, many, or all nodes in the Compute Cluster. To provide scale and resiliency, you can include multiple Load Balancers in your configuration.
- **Storage Cluster**. SL1 Extended includes a Storage Cluster that includes multiple Storage Nodes and one Storage Manager node. These SL1 appliances provide a NoSQL alternative to the SL1 relational database. The Storage Cluster can store performance and log data collected by the Data Collectors and the SL1 Agent.
- **Management Node**. The Management Node allows administrators to install, configure, and update packages on the Compute Nodes cluster, Storage Nodes , and the Load Balancer. The Management Node also allows administrators to deploy and update services running on the Compute Cluster.
- Resiliency and redundancy can also be accomplished by adding additional appliances to these configurations.

PowerPacks in 10.2.1

Before upgrading to 10.2.1 , 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 10.2.0 release included the following PowerPacks that are new or updated and included with the release:

- Cisco: UC Ancillary v103
- Cisco: UCS Standalone Rack Server v103
- Microsoft Hyper-V v101
- Microsoft: Azure v112

For 10.2.0 and later releases, only "Base" PowerPacks will be included with the platform ISO. The following PowerPacks have been removed from the 10.2.0 ISO to comply with the new SL1 pricing model:

NOTE: If you are upgrading from a previous version of SL1, the 10.2.1 upgrade will not remove any existing PowerPacks.

- Aruba Base Pack
- Avocent ACS Pack
- BlueCat Base Pack
- Cisco VPN Pack
- Cisco: AppDynamics
- Couchbase Base Pack
- Coyote Point Base Pack
- Dell OpenManage Old Base Pack
- H3C Base Pack
- IBM Director Base Pack
- LifeSize Endpoint
- Microsoft: Active Directory Server
- Microsoft: DHCP Server
- Microsoft: DNS Server
- Microsoft: Exchange Server
- Microsoft: Exchange Server 2010
- Microsoft: SharePoint Server
- Microsoft: SQL Server
- Microsoft: SQL Server Enhanced
- Tomcat

To upgrade your license and download PowerPacks, contact your Customer Success Manager.

Documentation and release notes for each PowerPack are available at the [PowerPacks Support](#) page.

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`
3. Use an editor like vi and edit the file `/etc/siteconfig/silos.conf.siteconfig`. In the LOCAL section, add the line:
`kbasedisabled=1`
4. Open a browser session and log in to SL1.
5. From the hamburger menu (☰) in the upper right, select *Clear SL1 System Cache*.
6. Upon your next login, the Knowledge Base tab will not appear. Attempts to access the tab will result in an "Access Denied" error message.

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 10.1.4.

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.

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 view that chapter [online](#).

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 deltaless 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 view that chapter [online](#).

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 SL1, you must first download the patch or update to your local computer:

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 view that chapter [online](#).

1. Log in to the [ScienceLogic Support](#) site. 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 Colosseum 10.1

Edit Printable View Delete ▼

Release Name SL1 Colosseum 10.1	Version 10.1
End of Maintenance 12/31/2021	Latest Release Date 7/2/2020
Online Documentation https://docs.sciencelogic.com/10-1-0/	End of Life 6/30/2022
	Allow Customers to View on Community <input checked="" type="checkbox"/>

Release Files (6+) New

File Name	Comments	Record Type	Release Date
10.1.5.3	8.12.1.3 introduced del...	Product Update	3/29/2021
10.1.5.2	[LA Release] 8.12.1.3 in...	Product Hotfix	3/18/2021
10.1.5.1	8.12.1.3 introduced del...	Product Update	2/4/2021
10.1.5	8.12.1.3 introduced del...	Product Update	1/26/2021
10.1.2.2	[LA Release] 8.12.1.3 in...	Product Hotfix	12/28/2020
10.1.3.2	[LA Release] 8.12.1.3 in...	Product Hotfix	12/28/2020

View All

Release Announcements

8.14.6 VERSION UPGRADE FAILURE / 21-08-20
In 8.14.6, ScienceLogic introduced an issue that causes System Update to fail on SL1 systems that do not use the UCAPL upgrade. For additional details, please read [this article](#). This issue will be addressed in the upcoming 8.14.7 release.

ALL VERSIONS OF SL1 8.12 / 01-07-20
If you are running an 8.12 version of SL1 and you update your AP2 version to AP2_5.155.0-hotfix.7 or later, Maps will be disabled. If you want to enable Maps, contact your Customer Success Manager.

ATTENTION: READ BEFORE INSTALLING 8.12.0 OR 8.12.0.1 / 05-10-19
In 8.12.0, ScienceLogic introduced an issue that caused System Update to fail on any SL1 appliance that contains 19 or more CPU cores. This issue will be addressed in the upcoming 8.12.0.2 release.
If your SL1 system includes one or more appliances with 19 or more CPU cores, please read [this article](#) and perform the steps in the article during installation of 8.12.0

[Release Announcements Archive](#)

4. 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.
5. Under **Files**, select the link for the file you want to download. The file is then downloaded to your local computer.

Recently Deprecated Features

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)
- The Content Management page appears in the user interface but has been deprecated. Updates to the user interface are now included in platform updates.

10.1.0

- The Content Management page no longer appears in the user interface.
- Deprecated harProviderSearch and deviceSearch and replaced with override search. (SLUI-7404)
- The Video Reports PowerPack is no longer included with ISO builds. (SOL-6778)
- The Devices > Agent tab is now part of Device Settings (SLUI-6386)

Known Issues

- If you are using SL1 Extended Architecture and have enabled Machine Learning for one or more devices, there is a Known Issue. If you have changed the default administrator's username or password, there is a Known Issue when starting the services for Machine Learning. The remediation steps are in this Knowledge Base article:
https://sciencelogic.lightning.force.com/lightning/r/Knowledge__kav/ka04z000000HCczAAG/view
- ScienceLogic strongly recommends that you review all [Known Issues](#) for SL1
(<https://support.sciencelogic.com/s/topic/0TO0z000000E6w7GAC/known-issues>).

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