Monitoring devices

Events and alerts

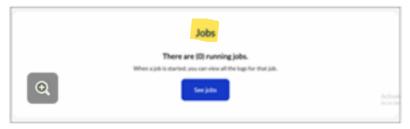
Monitoring functions

XClarity One can monitor the asset inventories, firmware, health status, and event history of managed devices. This information can be accessed by selecting **Monitor** from the context menu. The information is grouped into the following sections:

- Alerts are hardware or management conditions that require investigation and user action. XClarity One polls the resource managers and displays alerts that are received from those resources.
- Events are all the resource and audit events.
- Jobs are long-running tasks that run in the background. A log of all jobs that XClarity One has started is available.
- Forwarding can send event data from XClarity One to external applications for monitoring and analysis.







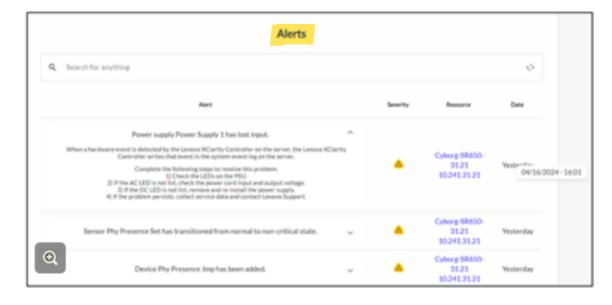


Monitoring alerts

The **Alerts** section of the **Monitor** page contains a donut chart, which shows the total number of critical and warning alerts, and also a bar chart, which shows how old the alerts are.

Click the donut chart to go to the **Alerts** page, where alerts are listed with a description, a severity level, and resource information. By hovering the cursor over the item, the date and time of the alert is also shown.





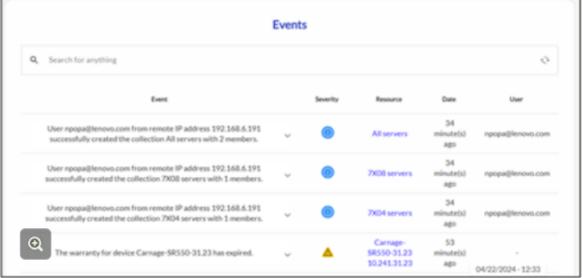


Monitoring events

The **Events** section of the **Monitor** page contains a donut chart and a bar chart. The donut chart shows the total number of critical, warning, and informational events. The bar chart shows how old the events are. All the information shown here relates to events created in the last 24 hours.

Click the donut chart to go to the **Events** page, where events are listed with a description, a severity level, and resource information. By hovering the cursor over the item, the date and time of the event is also shown.

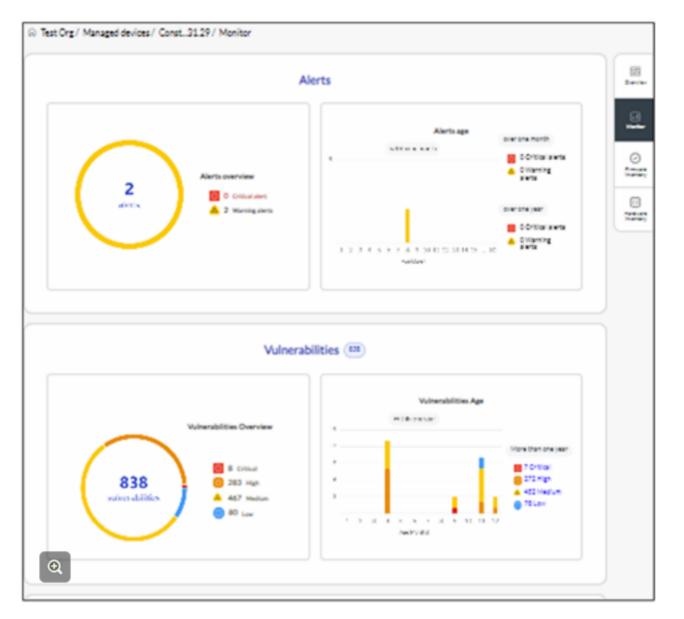






Monitoring specific device events

Specific devices can be monitored by selecting **Monitor** -> **Managed devices** -> and then choosing a device. Information about the device will be shown on a new page.



Custom alerts

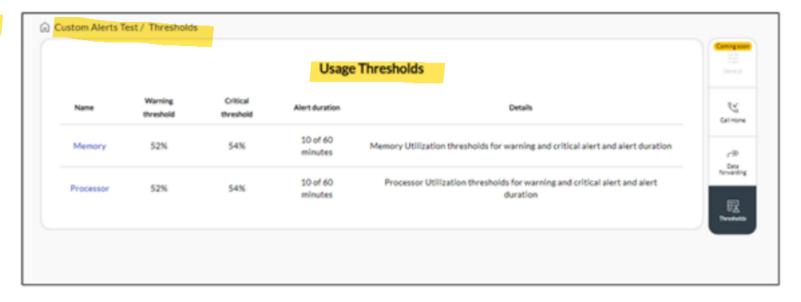
Setting up custom alerts to monitor a device

XC1 custom alerts

XClarity One can set up thresholds on devices to monitor processor and memory usage. On the settings screen, select **Thresholds** from the context menu on the right. The following configurable values are available:

- Usage: Select warning and critical thresholds
- Time: Select continuous or a specific period

If the specified threshold is exceeded, an alert will be raised along with a list of actions to take. For example, if memory usage exceeds 52% for a cumulative 10 minutes within a 60-minute window, a warning alert will be triggered.



Device J100CMM4 has CPU Utilization values above 52 % for 10 out of 60 minutes See details	A	J100CMM4 10.240.26.34	13 hour(s) ag
Device J100CMM4 has CPU Utilization values above 54 % for 10 out of 60 minutes © See details	0	J100CMM4 10.240.26.34	13 hour(s) ag
Device J100CMM4 has Memory Utilization values above 52 % for 10 out of 60 minutes © See details	Δ	J100CMM4 10.240.26.34	13 hour(s) a
Color J100CMM4 has Memory Utilization values above 54 % for 10 out of 60 minutes above 54 % for 10 out of 60 minutes	0	J100CMM4 10.240.26.34	13 hour(s) ag



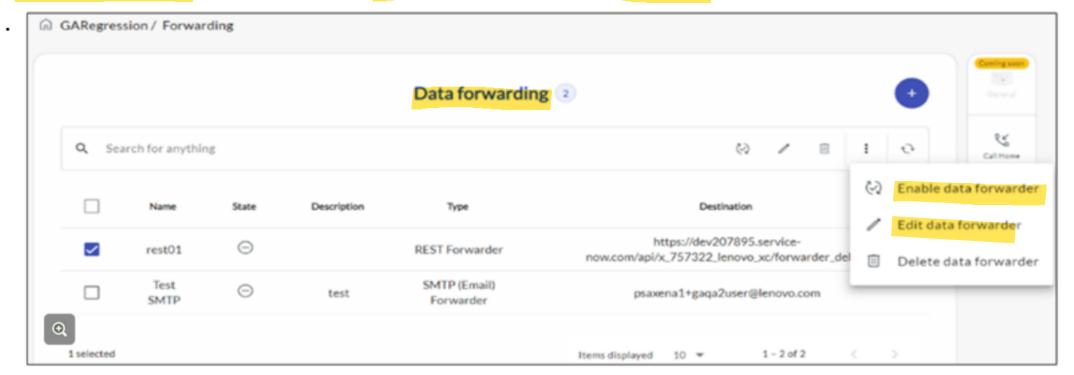
Forwarding monitoring data

Forwarding data by web service or email

Forwarding events

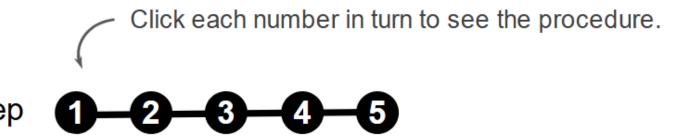
XClarity One can forward data about events to external services for monitoring and analysis. Filters can be used to make sure that only data that meets specific criteria is forwarded. After being set up, data forwarders can be enabled, edited, or deleted. The following methods can be used to forward data:

- Email: Event data is forwarded to selected email addresses
- Web service: Event data is forwarded over the network to a REST web service



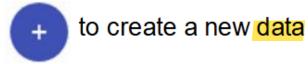


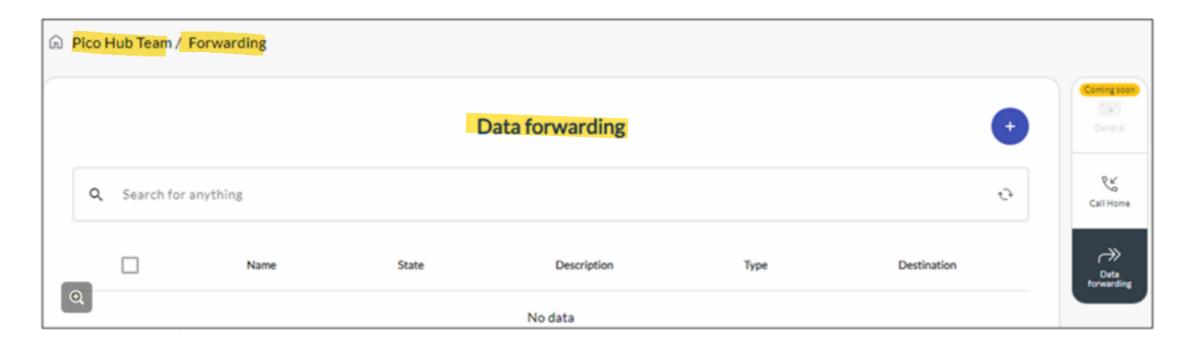
Work through the following steps to create a data forwarder:





Step 1. Select **Data forwarding** from the **Settings** menu, and then click **forwarder**.



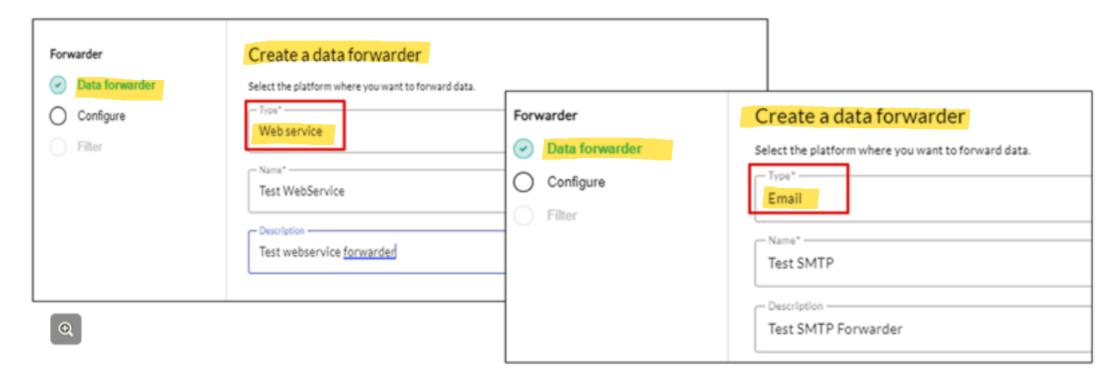








Step 2. The **Create a data forwarder** pop-up window will be displayed. Users can select either a **Web** service or **Email** data forwarder, and then enter a name and description before continuing to the next step.



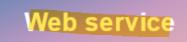






Step 3. Configure the forwarder destination. Click the buttons for more information.

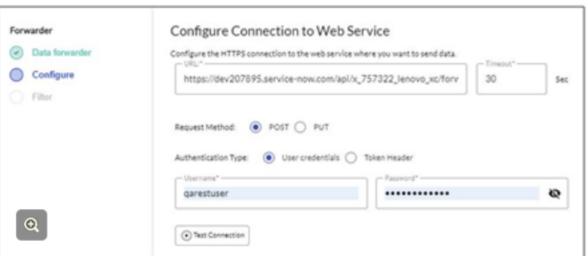




Configuring the forwarder destination through the web service

- Event data is forwarded over the network to an external REST web service using the HTTPS protocol.
 Secure port 443 is used by default.
- The Test Connection button can be used to test the settings. This test involves XClarity One importing
 and validating the certificate chain from the web service and then sending a sample event to the web
 service.







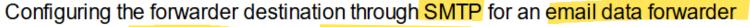


Web service

Email

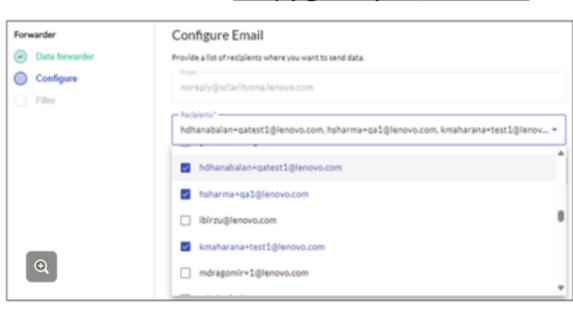
Creating a data forwarder

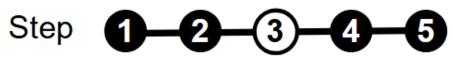
Step 3. Configure the forwarder destination. Click the buttons for more information.



- Users can forward event data to email addresses for one or more users in the organization.
- Users cannot send data to external users.
- The emails are sent from noreply@xclarityone.lenovo.com with an Event forwarding subject.







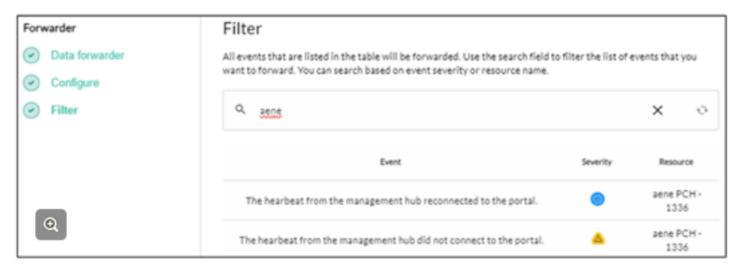




Step 4. Configure the event filter

- Filters can be used so that not all data is forwarded. Events can be selected based on the resource or device component that generated the event, or by event severity (informational, warning, critical).
- If you do not provide criteria, data is forwarded for all events generated by all resources.
- Users have the option to enable/disable the data forwarder.





Step 1-2-3-4-5



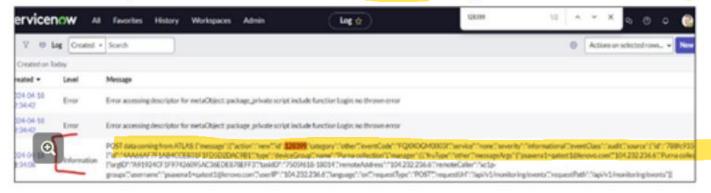


Step 5.

An example of an event forwarded by email



An example of an event forwarded by the web service to an external application



Step **1-2-3-4**-5



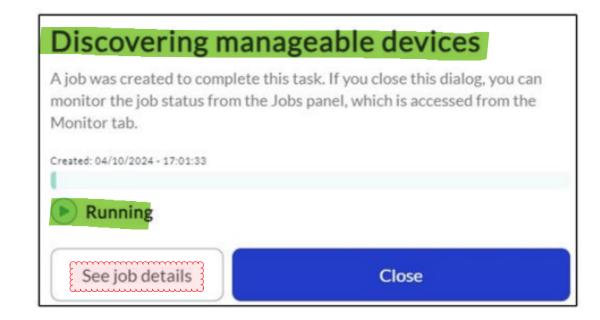


Monitoring jobs

Jobs details, sub-jobs, and logs

Jobs overview

- A job is a process created by a system or user action. The following actions generate jobs:
 - Unmanage hub
 - Discover device
 - Manage device
 - Unmanage device
 - Power operations
 - Firmware update
 - Create a service ticket
- When a job is started, a pop-up window with a progress bar will be displayed.
- The Jobs panel on the Monitor page shows how many jobs are in progress.
- Clicking the panel title or the See jobs button will redirect the user to the Jobs page.

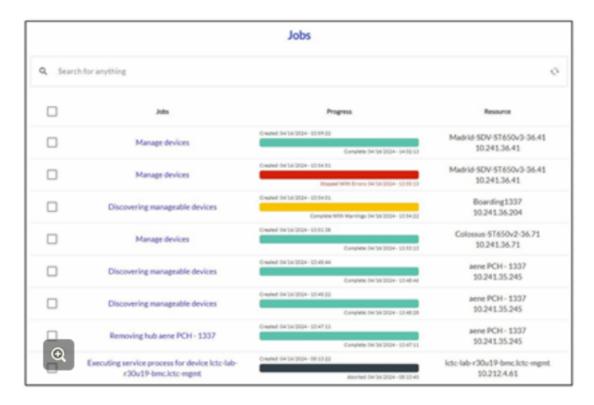






Jobs page

- On the Jobs page, root jobs are listed with their title, status, start and (if applicable) end time, and the resource for which the job was generated. By hovering the cursor over a running job, a percentage completion figure can also be seen.
- A maximum of 500 jobs can be listed. If more jobs are created beyond this number, the oldest jobs will be automatically deleted.
- Jobs can also be deleted manually.
- More information about a job can be seen by clicking the job title.







Filtering jobs by device

Starting from a device page, users can navigate to the **Monitor** page and then the **Jobs** page to see only the jobs for that specific device.

- Click on a job to open its sub-jobs, which provide additional details about progress and completion status
- Clicking any sub-job opens a dialog that displays a history of logs related to the device. (Click HERE for details)





