



Detecting Anomalies and Identifying Advisories in Your Nexus Dashboard, Release 4.1.1

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New and changed information

The following table provides an overview of the significant changes up to this current release. The table does not provide an exhaustive list of all changes or of the new features up to this release.

Release Version	Feature	Description
Nexus Dashboard 4.1.1	Improved navigation and workflow when detecting anomalies for Nexus Dashboard	Beginning with Nexus Dashboard 4.1.1, the navigation and workflow when detecting anomalies for Nexus Dashboard have been enhanced.
Nexus Dashboard 4.1.1	Ability to view platform and system alerts in global anomalies and advisories tables	Beginning with Nexus Dashboard 4.1.1, an option to view platform and system alerts in the global Anomalies page and Advisories page of Nexus Dashboard has been introduced. For more information, see View platform and system alerts in global anomalies table and View platform and system alerts in global advisories table .
Nexus Dashboard 4.1.1	Fix me option to resolve telemetry configuration anomalies	Beginning with Nexus Dashboard 4.1.1, Nexus Dashboard includes Fix me option to resolve telemetry configuration anomalies and restore normal telemetry operations on affected switches. For more information, see Resolve telemetry configuration anomalies on switches .

Anomalies

Nexus Dashboard proactively detects different types of anomalies across the network, analyzes the anomalies, and identifies remediation methods.

Nexus Dashboard collects and analyzes data from all nodes within the fabric, establishing a baseline to define "normal" behavior. Deviations from this baseline are flagged as anomalies. This allows you to focus on resolving issues rather than tracking them. Furthermore, the Nexus Dashboard can assess the anomaly's impact and provide tailored recommendations based on its nature, thereby reducing the mean time to troubleshooting and resolution (MTTR). This helps in accelerated troubleshooting, enhanced operational efficiency, and effective remediation.

The **Anomalies** page displays the anomalies by level and category for your fabrics, based on the chosen time range.

- The **Anomaly level** donut chart displays the total number of anomalies of Critical, Major, Minor, and Warning severities.
- The **Category** list displays the number of anomalies grouped by various categories, such as Hardware, Capacity, Compliance, Connectivity, Configuration, Integrations, Active bugs, Telemetry configuration, and System.

Understanding anomaly correlation

The anomaly correlation functionality identifies cause-and-effect relationships between various anomalies within a specific time frame. It examines attributes such as device, interface, and protocols to pinpoint the root cause anomaly. This root cause anomaly acts as the primary issue that triggers the secondary anomalies, known as correlated anomalies. This approach helps in pinpointing the root cause, enabling efficient resolution of related issues.

Root cause anomalies

A root cause anomaly is an anomaly that causes other anomalies, which are referred to as correlated anomalies. Resolving the root cause anomaly should resolve the correlated anomalies.

Correlated anomalies

A correlated anomaly occurs because another anomaly, known as the root cause anomaly, triggers it. Resolving the root cause automatically resolves the correlated anomalies, without needing to take further action for them.

Uncorrelated anomalies

An uncorrelated anomaly neither causes correlated anomalies nor results from a root cause anomaly. Therefore, it does not affect any other anomalies. You must resolve each uncorrelated anomaly individually.

An uncorrelated anomaly can also be an anomaly that Nexus Dashboard does not yet evaluate for correlated anomalies. Nexus Dashboard will be able to evaluate these anomalies for correlated anomalies in a future release.

Anomaly levels

Anomalies are classified into the following levels based on their severity and impact.

- **Critical**—Anomalies are shown as critical when the network is down. Some of the examples include:
 - When connectivity to a given prefix or endpoint is lost
 - When a fabric or switch is not operational.
- **Major**—Anomalies are shown as major when connectivity to a given prefix or endpoint could be compromised. An example includes:
 - Overlapping IP addresses or subnets
- **Minor**—Anomalies are classified as minor when they represent less severe issues that do not immediately impact network connectivity but may require attention. Examples include:
 - Interface errors or packet drops below threshold
 - Non-critical hardware component warnings
- **Warning**—Anomalies are shown as warnings when there are best practice violations or when components such as power supply units (PSUs) are non-redundant.

Anomaly properties

You can configure these properties on an anomaly.

- Assign a user
- Add tags
- Add a comment
- Set verification status
- Acknowledge an anomaly so that the acknowledged anomalies are not displayed in the **Anomalies** table

For more information, see [Configure anomaly properties](#).

You can acknowledge anomalies in these ways.

- Manually acknowledge an anomaly. See [Configure anomaly properties](#).
- Manually acknowledge multiple anomalies. See [Analyze anomalies](#).
- Use anomaly rules to automatically acknowledge anomalies matching anomaly rules. See [Create anomaly rules](#).

Navigate to the Anomalies

You can view anomalies in Nexus Dashboard at different levels such as across all fabrics, for a specific fabric, for a specific switch, or for system-wide anomalies. Use the following methods to access anomaly information.

1. To view all anomalies across all fabrics, you can navigate to **Analyze > Anomalies**.

This displays all anomalies detected across all fabrics in your environment.

2. Follow these steps to view the anomalies for a single fabric.
 - a. Navigate to **Home > Overview**.
 - b. Choose online fabrics or snapshot fabrics from the drop-down list.
 - c. Click the **Anomaly level** card.
 - d. In the **Anomalies** page, click **Analyze Anomalies** to view detailed information for the selected fabric.
3. You can also view the anomalies for a single fabric in the **Fabrics Overview** page.
 - a. Navigate to **Manage > Fabrics**.
 - b. Choose an appropriate fabric.

The **Fabrics Overview** page displays.

- c. Click the **Anomalies** tab to view anomalies specific to that fabric.

Follow these steps to view the anomalies for a single switch in the **Inventory** page.

1. Navigate to **Manage > Inventory**.
2. Choose online fabrics or snapshot fabrics from the drop-down list.
3. Choose a switch.

The **Switch Overview** page displays.

4. Click the **Anomalies** tab.

Follow these steps to view the system anomalies.

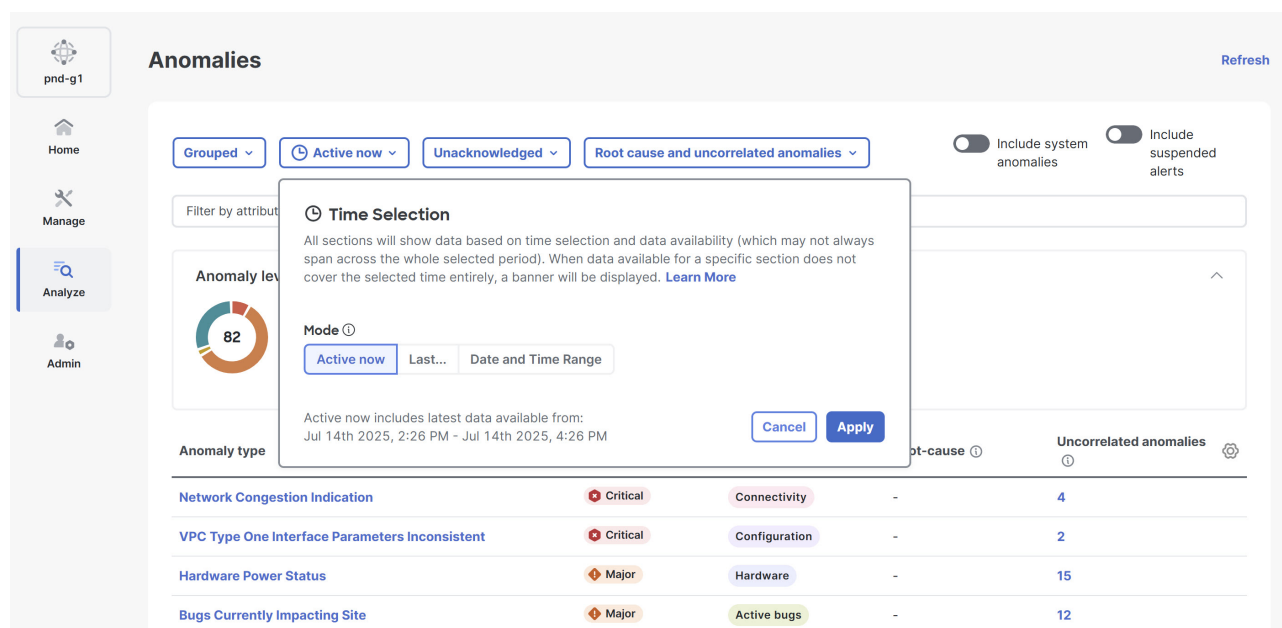
1. Navigate to **Admin > System Status**.
2. Click the **Anomalies** tab.

Analyze anomalies

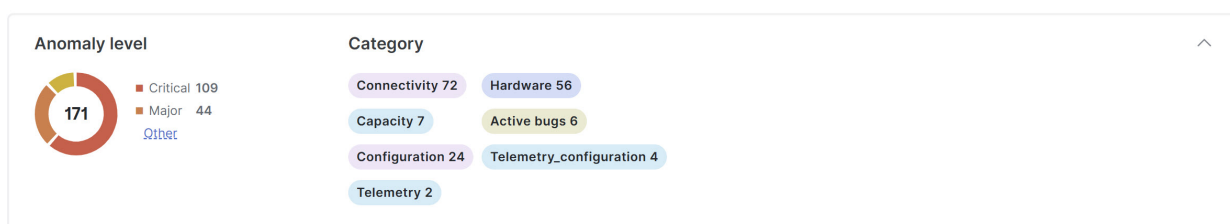
Follow these steps to analyze anomalies.

1. [Navigate to the Anomalies](#).
2. From the drop-down list, choose **Grouped**, **Ungrouped**, or **Root events**.
 - o The **Ungrouped** view displays the individual anomalies raised for your fabrics.
 - o The **Grouped** view displays the aggregated view of the anomalies based on the anomaly type.
 - o The **Root events** table displays root events that cause dependent anomalies. You can view root events until Nexus Dashboard deletes them, which happens only after it deletes all the associated dependent anomalies.
3. Go to **Active now > Time Selection**, to choose the date and time range. By default, **Active now** is chosen. You can customize the date and time range to determine the data displayed in the **Anomalies** table.

The **Anomalies** page displays the anomalies by level and category for your fabrics, based on the chosen time range.



- o The **Anomaly level** donut chart displays the total number of anomalies of Critical, Major, Minor, and Warning severities.
- o The **Category** list displays the number of anomalies grouped by various categories, such as Hardware, Capacity, Compliance, Connectivity, Configuration, Integrations, Active bugs, Telemetry configuration, and System.



- o For snapshot fabrics, the anomalies shown represent all detected anomalies across all snapshots, not just those from the latest snapshot.
4. If you want to include system anomalies in the **Anomalies** table, click the **Include system anomalies** toggle button. Note that the **System** category appears in the **Category** list only when you enable the **Include system anomalies** toggle button.

For more information, see [View platform and system alerts in global anomalies table](#).

5. If you want to include suspended alerts, click the **Include suspended alerts** toggle button.

For more information, see [Alerts suspend mode for anomalies and advisories](#).

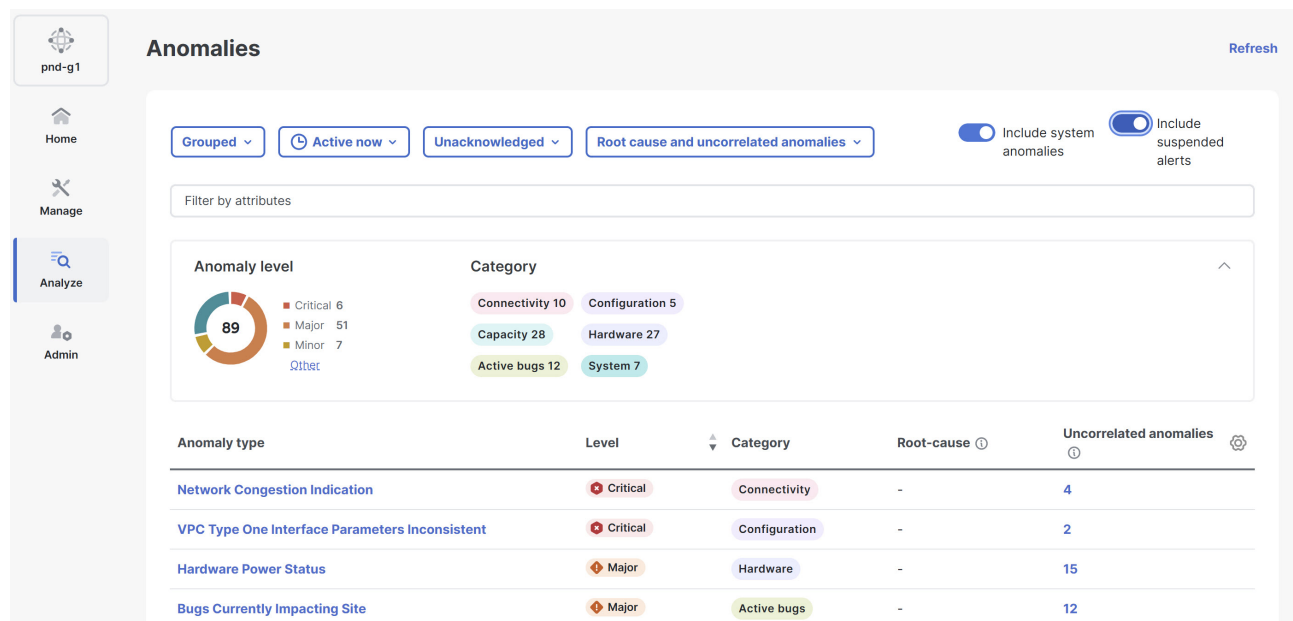
6. Use the filter field to filter the anomalies. You can filter affected objects such as interface, VRF instance, EPG, or BD and view the associated anomalies.
 - a. When you view the ungrouped anomalies, you can use the drop-down list next to the filter field to filter for unacknowledged or acknowledged anomalies. The default is **Unacknowledged**.
 - b. You can use the drop-down list next to the unacknowledged and acknowledged anomalies

drop-down list to filter by root cause and uncorrelated anomalies, root cause anomalies only, uncorrelated anomalies only, or all anomaly types. The default is **All anomaly types**.

For more information about the filters, see [Anomaly filters](#).

7. The **Anomalies** table displays the filtered anomalies. By default, the anomalies are sorted by level. Click the column heading to sort the anomalies in the table.

When you view the ungrouped anomalies and configure the table to display the **Status** column, the status appears as either **Active** or **Cleared**. An **Active** status means the anomaly is present in your network, while a **Cleared** status means the anomaly is no longer present.



8. Click the gear icon to configure which columns display in the **Anomalies** table.

By default, the columns **Anomaly type**, **Level**, **Category**, **Root-cause**, and **Uncorrelated anomalies** are displayed for grouped anomalies. The **Root-cause** column shows how many anomalies in that group are root cause anomalies.

By default, the columns **What's wrong**, **Level**, **Category**, **Fabric**, **Detection time**, and **Correlated anomalies/events** are displayed for ungrouped anomalies.

9. Click an anomaly to view more information.

The *Anomaly Name* page displays these details.

- **What's wrong?**—provides a problem description with the specific affected objects.
- **What triggered this anomaly?**—provides the primary source of the anomaly, including a link that you can click to see information about it. This area includes a graph that shows the root cause anomaly and all correlated anomalies. You can click an anomaly in the graph to get more information about that anomaly. The controls at the lower right of the area enable you to zoom the graph in or out and view the topology legend. This area appears only for correlated anomalies.
- **What's the impact?**—explains the potential impact if the problem is not fixed. If the anomaly is a root cause, it also shows the number of correlated anomalies. You can click this number to view a table listing those correlated anomalies.

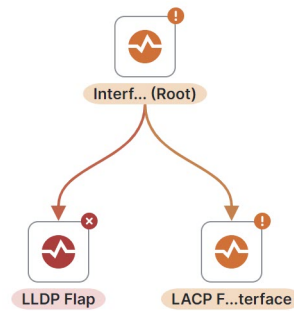
For root cause anomalies, this area includes a graph that shows the root cause anomaly and all correlated anomalies. You can click an anomaly in the graph to get more information about that anomaly. The controls at the lower right of the area enable you to zoom the graph in or out and view the topology legend.

What's the impact?

- 3 IP(s) will be affected.

[View Report](#)

2 additional correlated anomalies may have been caused by this root anomaly. View all associated anomalies in the graph below, including root-cause and correlated anomalies.



When you view the correlated anomalies page and you configure the table to display the **Status** column, the status can be **Active**, **Cleared**, or **Deleted**. The **Active** status indicates that the anomaly is present in your network. The **Cleared** status indicates that the anomaly is not present in your network anymore. The **Deleted** status indicates that the system deleted the anomaly from the anomalies database due to being aged out, but the anomaly is not yet deleted from this page because some of its correlated anomalies still exist.

- **How do I fix it?**—provides prescriptive recommendations.

10. From the drop-down list in the **Anomalies** page, choose **Ungrouped**.

- Choose anomalies from the **Anomalies** table and click **Acknowledge anomalies** to acknowledge the anomalies.
- You can also click an anomaly, then click the ellipses (...) next to each anomaly, and choose **Acknowledge anomaly** from the drop-down list.

By default, all the unacknowledged anomalies are displayed in the **Anomalies** table. After you acknowledge an anomaly, choose **Acknowledged** from the drop-down list to view all the acknowledged anomalies.

Resolve telemetry configuration anomalies on switches

Policy gateway anomalies are categorized under **Telemetry configuration**. If telemetry configuration fails on a switch, you can resolve the issue using the **Fix me** option available in the **How do I fix it?** section in the **Telemetry Configuration Failed** page. This option helps to systematically resolve telemetry configuration anomalies and restore normal telemetry operations on affected switches.

Follow these steps to resolve the telemetry configuration anomalies.

1. In the **Anomalies** table, click a **Telemetry configuration** anomaly.

The **Telemetry Configuration Failed** page displays.

intersight

Home

Manage

Analyze

Admin

< Telemetry Configuration Failed

Actions

What's wrong?

Failed to enable/disable telemetry on switch dcnm2-leaf1.fx.dos on fabric nxfabric-38.Reason: Cannot invoke "com.cisco.dcbu.deployer.resource.SIMTaskResult.setJobid(java.lang.String)" because "result" is null

Anomaly levelWarning

Status activeLast seenJul 14, 2025, 09:32:58 PM

CategoryTelemetry_configurationFabricnxfabric-38Nodesdcnm2-leaf1.fx.dosInitial detection timeJul 14 2025 09:32:58 PM

What triggered this anomaly?

One of the following actions
a) Telemetry Enable
b) Telemetry Disable
c) Pause Telemetry
d) Resume Telemetry

What's the impact?

- Failed to enable telemetry on the fabric nxfabric-38 following pages can be impacted :
 - Hardware resources
 - Interface details
 - CPU, memory, and other system details
 - Connectivity, Routes, Endpoint

How do I fix it?

Fix me

Recommended solution

Failing condition (1/2)

Please check the switch status

< ● >

2. In the **How do I fix it?** section, click the **Fix me** drop-down list.

You can view these options.

Field	Description
Retry failed switch configuration	Attempts to re-apply the configuration only on switches where the telemetry configuration previously failed.
Retry all failed switch configuration	Attempts to re-apply the configuration on all switches that have failed telemetry configuration. This option does not remove any stale or failed configurations on the affected switches, it only attempts to reconfigure the telemetry configurations on the failed switches.
Resync failed switch configuration	Synchronizes and re-applies the telemetry configuration on switches with failed configurations to ensure consistency. This option is ideal for issues related to flow collection, traffic analytics, and flow rules configuration anomalies.
Resync all failed switch configuration	Synchronizes and re-applies telemetry configurations on all switches with any failed telemetry configuration.

How do I fix it?

Fix me

Please check the switch status

Recommended solution

Failing condition (1/2)

< ● >

Retry failed switch configuration

Retry all failed switch configurations

Resync failed switch configuration

Resync all failed switch configurations

3. Choose one of these options from the **Fix me** drop-down list to resolve telemetry configuration anomalies.

View platform and system alerts in global anomalies table

Anomalies that affect a Nexus Dashboard cluster but are not necessarily associated with a fabric are referred to as system anomalies. These anomalies can include issues such as hardware malfunctions, capacity constraints, compliance violations, connectivity disruptions, configuration errors, and active bugs. Enabling system anomalies allows you to identify the root cause, improve network health, and enhance operational efficiency.

Follow these steps to include system-related anomalies.

1. Navigate to **Analyze > Anomalies**.

The **Anomalies** page displays.

2. Click the **Include system anomalies** toggle button in the top-right corner, to include system-related anomalies in the **Anomalies** table.

Once enabled, the **System** category appears under anomalies by category in the **Anomalies** page.

Anomaly type	Level	Category	Root-cause	Uncorrelated anomalies
Connectivity Device Access SSH	Critical	Connectivity	-	2
Underlay Nve Peer Loopback Not Reachable	Critical	Connectivity	-	2
Node Login Failure	Critical	Telemetry	-	1
VPC Peer Keep Alive Error	Critical	Configuration	-	1

Follow these steps to include system-related anomalies at fabric level.

1. Navigate to **Manage > Fabrics**.
2. In the **Fabrics** page, choose the appropriate fabric.

The **Fabric Overview** page displays.

3. In the **Fabric Overview** page, click the **Anomalies** tab.
4. Click the **Include system anomalies** toggle button in the top-right corner, to include system-

related anomalies in the **Anomalies** table.

Once enabled, the **System** category appears in the anomalies by category card in the **Anomalies** page.

blr1-cluster

Home

Manage

Analyze

Admin

DC-blr1

Refresh View in topology Actions

Overview Inventory Connectivity Segmentation and security **Anomalies** Advisories Integrations History

Grouped Active now Unacknowledged Root cause and uncorrelated anomalies

Filter by attributes

Anomaly level

Category

Anomaly type	Level	Category	Root-cause	Uncorrelated anomalies
PBR Redirect Destination Learning Error	Critical	Configuration	-	2
Bugs Currently Impacting Site	Major	Active bugs	-	3
PBR Incomplete Interface Configuration In Device Cluster	Major	Configuration	-	3
BD With Subnet Marked External Is Not Advertised	Major	Configuration	-	2
Consumer EPG Has No Scope Matching Providers	Major	Configuration	-	2

System anomaly notification

When an active system anomaly impacts the cluster health, a notification alert appears on the **Notifications** bell icon located in the common navigation bar at the top of the page. Click the notification bell icon to open the **Notifications** pane. In the **Notifications** pane, click **View system anomalies**. Nexus Dashboard redirects you to the **System Status** page, where you can review the full list of current and past system anomalies in the **Anomalies** table.



Nexus Dashboard will not display a notification alert if the cluster health is not affected.

Guidelines and limitations for anomalies

- In the following scenarios, anomalies are not displayed in the Anomalies page.
 - Anomalies that belong to the category "System" are not displayed in the Anomalies page by default.
 - When there is any collection or login failure, in the **Admin > System Settings > System Status Details** page, Assurance status is displayed as Healthy. At the same time, in the **Admin > System Settings > System Issues** page, anomalies related to any collection or login failure are not displayed.

To view the anomalies, perform the following steps:

- To view these anomalies, Navigate to **Analyze > Anomalies**.
- Select **Online Fabrics** from the drop-down list.
- Select **Ungrouped** from the All Anomalies drop-down list.

4. Use the search bar to filter on category == system. All system anomalies are displayed in the anomalies table.

- For any fabric, the data is purged in either of the following scenarios:
 - After the thirty day retention period
 - When the storage threshold is reached

As a result, the anomalies and advisories for that fabric are not displayed. You have to rerun the analysis to view the anomalies and advisories.

- In Nexus Dashboard, invalid and stale alarms are periodically cleared every 24 hours.
- When you upgrade a device, there may be instances where traps are not sent or received by the Nexus Dashboard, resulting in anomalies not being raised or cleared."

Configure anomaly properties

Use the following procedure to configure properties on an anomaly.

1. Navigate to **Analyze > Anomalies**.
2. Choose Online fabrics or Snapshot fabrics from the drop-down menu.
3. From the Anomalies drop-down menu, choose **Ungrouped**.

The Ungrouped view displays the individual anomalies raised for your fabrics.

4. From the **Time Selection** dialog, choose the desired mode, then click **Apply**. The default is **Active Now**.
 - For **Last...**, you must also choose a period.
 - For **Date and Time Range**, you must also choose the range.
5. Click an anomaly from the table and then choose a property from the **Actions** menu.
 - a. Choose **Acknowledge Anomaly** to acknowledge an anomaly. By default all the unacknowledged anomalies are displayed in the anomalies table. After you acknowledge an anomaly, choose Acknowledged from the drop-down list to view all the acknowledged anomalies.
 - b. Choose **Verification Status** to set a user defined status such a New, In Progress, or Closed to an anomaly. Choose a status from the drop-down list and click **Save**.
 - c. Choose **Assigned To** to assign an anomaly to an user. Enter the username and click **Save**.
 - d. Choose **Comment** to assign a comment to an anomaly. Enter a comment and click **Save**.
 - e. Choose **Manage Tags** to add user-defined tags to an anomaly. Enter the tag name and click **Save**. You can enter multiple tags. After entering the tag name, press Enter.
6. To acknowledge multiple anomalies, select the anomalies. Click **Acknowledge anomalies**.
7. To view the the properties assigned to an anomaly, click an anomaly to view the Anomaly page. In the Anomaly page, properties such as **Verification Status**, **Acknowledge**, and **Assigned To** are displayed. To view comments and tags assigned to an anomaly, from the **Actions** menu, choose **Comment** or **Manage Tags**.

Physical Device Cluster Has No Physical Domain

Refresh

Actions

What's wrong?

The device cluster of device type 'PHYSICAL' has no physical domain association.



Anomaly Level Major



Status Active

Last Seen: Jun 26, 2024, 03:21:39 PM

Category

Configuration

Fabric

DC-ute11

Nodes

ute11-apic1

Initial Detection Time

Jun 26 2024 11:21:41.000 AM

Recent

sjc07-nxos-cl
uster

Home

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Admin

< CPU High Threshold

In Progress Tester1

Actions

What's wrong?

CPU usage on Node sjc07-aci-spine1 is consistently above the threshold over the time period

Anomaly level

Major

Status active

Last seen: Jul 30, 2025, 09:28:50 AM

Category

Hardware

Fabric

DC-sjc07-aci

Nodes

sjc07-aci-spine1

Initial detection time

Jul 29 2025 11:49:45 PM

Tags

tester-tag1

Verification status

In progress

Assigned to
tester1

What triggered this anomaly?

Processes on Node sjc07-aci-spine1 are consuming more CPU than they were previously. This has caused the overall CPU utilization on the node to increase over time

[Check hardware resources](#)

What's the impact?

There is higher CPU consumption on Node sjc07-aci-spine1 which could cause the node or module to reload if the available usage increases past the available CPU. If the Node or module reloads, 0 endpoints will be impacted.

How do I fix it?

Recommended solution

Failing condition (1/3)

If CPU on Node sjc07-aci-spine1 is continuously running above the recommended threshold, the node may be overloaded.



- When you acknowledge an anomaly using the **Actions** menu, it will override any of the properties you have configured on an individual anomaly using the ellipsis icon in the **Anomalies** table.
- You must refresh the timeline range to view the configured properties on an anomaly.
- All the properties configured on an anomaly are only applicable to future analysis.
- To view an active anomaly for snapshot fabric analysis, you must select the time range when the analysis was created.

Anomaly filters

The filter field allows you to filter the table of anomalies when viewing the ungrouped anomalies, or filter the table of anomaly types when viewing the grouped anomalies.

In the Anomalies page, you can use the following filters to refine entries in the table:

- Anomaly Type - Display anomalies with a specific type.
- Assigned To - (Ungrouped, only) Display anomalies assigned to a specific user.
- BD - Display anomalies with a specific bridge domain.
- Category - Display anomalies from a specific category.
- Check code - (Ungrouped, only) Display anomalies with a specific check code.
- Cleared Time - (Ungrouped, only) Display anomalies with a specific cleared time.
- Comment - (Ungrouped, only) Display anomalies with a specific comment.
- Detection Time - (Ungrouped, only) Display anomalies with a specific detection time.
- EPG - Display anomalies with a specific EPG.
- Fabric - (Ungrouped, only) Display anomalies for a specific fabric.
- Interface - Display anomalies with a specific interface.
- IP address - (Ungrouped, only) Display anomalies with a specific IP address.
- Last Seen Time - (Ungrouped, only) Display anomalies with a specific last seen time. Last Seen Time indicates the time the anomaly was updated while under active status. If the status of the anomaly is not cleared, then the anomaly is active.
- Level - Display anomalies of a specific level.
- MAC address - Display anomalies with a MAC address.
- Nodes - Display anomalies for specific nodes.
- Status - Displays anomalies that have the specified status.
- Tags - (Ungrouped, only) Display anomalies with a specific tag.
- VPC - Display anomalies with a specific virtual port channel (vPC).
- VRF - (Ungrouped, only) Display anomalies with a specific virtual routing and forwarding (VRF) instance.
- Verification Status - (Ungrouped, only) Display anomalies with a specific verification status.
- What's Wrong - (Ungrouped, only) Displays anomalies of a specific affected object.

As a secondary filter refinement, use the following operators:

- == - With the initial filter type, this operator, and a subsequent value, returns an exact match. This operator is available for all filters.
- != - With the initial filter type, this operator, and a subsequent value, returns all that do not have the same value. This operator is available for most filters.
- contains - With the initial filter type, this operator, and a subsequent value, returns all that contain the value. This operator is available for some filters.
- !contains - With the initial filter type, this operator, and a subsequent value, returns all that do not contain the value. This operator is available for some filters.

Filtering for acknowledged or unacknowledged anomalies

This drop-down menu next to the filter field enables you to filter the anomalies the unacknowledged or acknowledged status. Choose **Acknowledged** to filter out unacknowledged anomalies. Choose **Unacknowledged** to filter out acknowledged anomalies.

Filtering for root cause and uncorrelated anomalies

This drop-down menu near to the filter field enables you to filter for root cause and uncorrelated anomalies, which filters the table of anomalies accordingly.

You can choose the following filters:

- **Root Cause and Uncorrelated Anomalies** - The table displays root cause anomalies and uncorrelated anomalies, but not correlated anomalies. This is the default value because it shows only the anomalies that you must manually resolve. If you resolve the root cause anomalies, then the correlated anomalies also get resolved. Because of this, it is not as important for you to see the correlated anomalies.
- **Root Cause Anomalies Only** - The table displays only root cause anomalies.
- **Uncorrelated Anomalies** - The table displays only uncorrelated anomalies.
- **All Anomaly Types** - The table displays all anomalies.

Determine the primary affected object for an anomaly

To filter for anomalies using a combination of affected object filters, such as IP address, MAC address, interface, VPC, EPG, and VRF, all the provided filter objects should be a primary affected object for any given anomaly. The filter will not return results if the query contains non-primary affected objects.

Follow these steps to determine the primary affected object for a particular anomaly.

1. To determine the primary affected object for a particular anomaly, navigate to **Analyze > Anomalies**.
2. If you want determine the object from the ungrouped anomalies, choose **Ungrouped** from the drop-down menu.
3. If you want determine the object from the grouped anomalies, choose **Grouped** from the drop-down menu, then click the desired anomaly type in the table.
4. Choose an anomaly from the Anomalies table.
5. In the What's the impact? area, the primary affected objects are highlighted in bold.

Global rules

Global rules page enables you to see which anomaly levels are enabled for the different anomaly categories. You can also customize the thresholds that determine whether an anomaly is assigned the warning, major, or critical level.

Customize anomaly level thresholds

Follow these steps to customize anomaly level thresholds.

1. Navigate to **Manage > Anomaly and Compliance Rules > Global Rules**.
2. Locate the row with the anomaly category that you want to customize, then click the entry in the **Status** column on that row.

These are the anomaly categories that you can customize in **Global Rules** - the threshold customizations that are available differ for each of the anomaly categories:

- [Capacity](#)
- [Hardware](#)
- [Connectivity](#)

Capacity

This information applies if **Capacity** is the entry in the **Anomaly Category** column and you click the entry in the **Status** column on that row.

1. In the **Customize thresholds for capacity anomalies** table, find the anomaly whose thresholds you want to customize and click the edit (pencil) icon.

The **Customize thresholds for capacity anomalies** table can have multiple pages. If necessary, use the page controls at the bottom of the table to find the desired anomaly.

2. Enter the desired percent for each anomaly level, then click the green check mark.

After you customize the thresholds, Nexus Dashboard recalculates the anomaly levels of existing anomalies, which takes approximately 30 minutes to complete.

You can click **Reset** to reset the values to their default or **X** to cancel the edit.

- The values can be from 0 to 100. A value of 0 indicates Nexus Dashboard will not raise any anomalies for that severity. If you enter 0 for all of the severities, Nexus Dashboard suppresses the anomaly completely.
- The value for **Warning** must be lower than the value for **Major**, and the value for **Major** must be lower than the value for **Critical**.
- The value defined for **Major** sets the upper end limit of the range defined for **Warning**, and the value defined for **Critical** sets the upper end limit of the range defined for **Major**.

Hardware

This information applies if **Hardware** is the entry in the **Anomaly Category** column and you click the entry in the **Status** column on that row.

In the **Customize Hardware** page, choose the appropriate category:

- [Fabric Management](#)
- [Telemetry](#)

Fabric Management

The **Fabric Management Anomaly Thresholds** option under **Hardware** is available for NX-OS fabrics only.

1. In the **Fabric Management Anomaly Thresholds** table, find the anomaly whose thresholds you want to customize and click the edit (pencil) icon.

The **Fabric Management Anomaly Thresholds** table can have multiple pages. If necessary, use the page controls at the bottom of the table to find the desired anomaly.

2. In the **Warning**, **Minor**, **Major**, and **Critical** columns, enter the desired percent for each anomaly level, then click the green check mark.
 - o The values can be from 0 to 100. A value of 0 indicates Nexus Dashboard will not raise any anomalies for that severity. If you enter 0 for all of the severities, Nexus Dashboard suppresses the anomaly completely.
 - o The value for **Warning** must be lower than the value for **Minor**, the value for **Minor** must be lower than the value for **Major**, and the value for **Major** must be lower than the value for **Critical**.
 - o The value defined for **Minor** sets the upper end limit of the range defined for **Warning**, the value defined for **Major** sets the upper end limit of the range defined for **Minor**, and the value defined for **Critical** sets the upper end limit of the range defined for **Major**.
3. In the **Forwarding** column, determine if you want to enable forwarding using email, SNMP, or all, or leave the option set at **None** if you do not want to enable forwarding.

After you customize the thresholds, Nexus Dashboard recalculates the anomaly levels of existing anomalies, which takes approximately 30 minutes to complete.

You can click **Reset** to reset the values to their default or **X** to cancel the edit.

4. To enable notifications for the CPU, memory, power usage, or temperature anomaly types, locate the appropriate row and toggle the button in the **Enable** column to the on position.

Toggle the button in the **Enable** column back to the off position to disable the appropriate notification.

Telemetry

1. In the **Customize thresholds for capacity anomalies** table, find the anomaly whose thresholds you want to customize and click the edit (pencil) icon.

The **Customize thresholds for capacity anomalies** table can have multiple pages. If necessary, use the page controls at the bottom of the table to find the desired anomaly.

2. Enter the desired percent for each anomaly level, then click the green check mark.

After you customize the thresholds, Nexus Dashboard recalculates the anomaly levels of existing anomalies, which takes approximately 30 minutes to complete.

You can click **Reset** to reset the values to their default or **X** to cancel the edit.

- o The values can be from 0 to 100. A value of 0 indicates Nexus Dashboard will not raise any anomalies for that severity. If you enter 0 for all of the severities, Nexus Dashboard suppresses the anomaly completely.
- o The value for **Warning** must be lower than the value for **Major**, and the value for **Major** must be lower than the value for **Critical**.

- o The value defined for **Major** sets the upper end limit of the range defined for **Warning**, and the value defined for **Critical** sets the upper end limit of the range defined for **Major**.

Connectivity

These areas are available under **Connectivity**:

- [Fabric Management Anomaly Thresholds](#)
- [Interface Anomaly Option](#)
- [Syslog Rules](#)

Fabric Management Anomaly Thresholds

The **Fabric Management Anomaly Thresholds** option under **Connectivity** is available for NX-OS fabrics only.

1. In the **Fabric Management Anomaly Thresholds** table, find the anomaly whose thresholds you want to customize and click the edit (pencil) icon.

The **Fabric Management Anomaly Thresholds** table can have multiple pages. If necessary, use the page controls at the bottom of the table to find the desired anomaly.

2. In the **Warning**, **Minor**, **Major**, and **Critical** columns, enter the desired percent for each anomaly level, then click the green check mark.
 - o The values can be from 0 to 100. A value of 0 indicates Nexus Dashboard will not raise any anomalies for that severity. If you enter 0 for all of the severities, Nexus Dashboard suppresses the anomaly completely.
 - o The value for **Warning** must be lower than the value for **Minor**, the value for **Minor** must be lower than the value for **Major**, and the value for **Major** must be lower than the value for **Critical**.
 - o The value defined for **Minor** sets the upper end limit of the range defined for **Warning**, the value defined for **Major** sets the upper end limit of the range defined for **Minor**, and the value defined for **Critical** sets the upper end limit of the range defined for **Major**.
3. In the **Forwarding** column, determine if you want to enable forwarding using email, SNMP, or all, or leave the option set at **None** if you do not want to enable forwarding.

After you customize the thresholds, Nexus Dashboard recalculates the anomaly levels of existing anomalies, which takes approximately 30 minutes to complete.

You can click **Reset** to reset the values to their default or **X** to cancel the edit.

4. To enable notifications for any of the anomaly types available under **Fabric Management Anomaly Thresholds**, locate the appropriate row and toggle the button in the **Enable** column to the on position.

Toggle the button in the **Enable** column back to the off position to disable the appropriate notification.

Interface Anomaly Option

1. In the **Interface Anomaly Option** table, find the anomaly whose thresholds you want to customize

and click the edit (pencil) icon.



The **Interface Anomaly Option** table can have multiple pages. If necessary, use the page controls at the bottom of the table to find the desired anomaly.

The **Edit Interface Anomaly Option** page appears.

2. In the **Edit Interface Anomaly Option** page, make the appropriate choices for the interface anomaly option:
 - a. Toggle the button in the **Enable** field to the on position to enable this option, or in the off position to disable this option.
 - b. In the **Forwarding** field, determine if you want to enable forwarding using email, SNMP, or all, or leave the option set at **None** if you do not want to enable forwarding.
 - c. In the **Severity** field, determine if you want to set the severity threshold at **Minor**, **Major**, **Warning**, or **Critical**.
 - d. Click **Save** to save the configured interface anomaly option.

After you customize the thresholds, Nexus Dashboard recalculates the anomaly levels of existing anomalies, which takes approximately 30 minutes to complete.

Syslog Rules

Syslog Alarm Policy defines a pair of Syslog messages formats; one which raises the alarm, and one which clears the alarm.

1. To add a syslog rule, click **Add Syslog Rule**.

The **Add Syslog Rule** page appears.

2. Enter the necessary information to add a syslog rule.

Field	Description
Identifier	Specify the identifier portions of the raise and clear messages.
Syslog Raise	Define the format of a syslog raise message. The syntax is as follows: Facility-Severity-Type: Message
Syslog Clear	Define the format of a syslog clear message. The syntax is as follows: Facility-Severity-Type: Message
Policy Name	Specify the name for this policy. It must be unique.
Policy Details	Specify a brief description for this policy.
Forwarding	Determine if you want to enable forwarding using email, SNMP, or all, or leave the option set at None if you do not want to enable forwarding
Severity	Determine if you want to set the severity threshold at Minor , Major , Warning , or Critical .
What is wrong	Enter text that describes what went wrong.
What triggered it	Enter text that describes what went triggered the alarm.
What's the impact	Enter text that describes what the impact is.

Field	Description
How do I fix it?	Enter text that describes how to fix the issue.

3. Determine how you want to proceed after entering the information for the syslog rule.
 - Click **Save and Add New** to save the information for this syslog rule and to add another syslog rule
 - Click **Save** to save the information for this syslog rule and exit the page
 - Click **Cancel** to exit out of the page without saving

Anomaly rules

Anomaly rules feature enables you to acknowledge all new detected anomalies that match the criteria and adjust the anomaly score accordingly. You can also match an alert against an anomaly rule using the match criteria.

It also allows you to customize an anomaly by adding a custom message that will be displayed when an anomaly is raised based on the anomaly rule.

- An anomaly rule contains the match criteria required to match an anomaly against the rule and the action that should be applied on the matched anomaly.
- An anomaly rule can contain multiple match criteria.
- You can use attributes such as severity, category, event name, and object match rule, to define the match criteria for the anomaly rule.
- A match criteria can contain one attribute or multiple attributes.
 - If a match criteria contains multiple attributes, then the anomalies containing all the attributes will be matched. The **AND** operator will apply to the attributes.
 - If a match criteria contains multiple affected object match rules, then the anomalies containing all of the affected object match rules will be matched.
- If an anomaly rule contains multiple match criteria, then the anomalies containing the union of the match criteria will be matched. Any anomalies that match any criteria will apply to the rule. The **OR** operator will apply to the criteria.
- Anomaly Rules using **Match Criteria** with **Object Match Rule** will only support the **Equals to** regex criteria.
- An Anomaly rule can be enabled only if it contains at least one match criteria.
- Anomaly rules are not supported for advisories.
- If you created multiple anomaly rules, all rules that match get applied.
- If you specified multiple attributes in an anomaly rule, the conditions of each attribute must be met for the rule to apply.
- If you specified multiple conditions for an attribute, any of the conditions must be met for the attribute to evaluate as true.
- If you specified multiple match criteria within an affected object, each criteria must be met.

Guidelines and limitations

- Deleting or disabling an anomaly rule containing either **Acknowledge** or **Customize Anomaly** action will not delete or disable the anomaly rule from active anomalies. The anomaly rule will not be applied to any new instance of the anomaly only.
- When you edit an anomaly rule containing either Acknowledge or Customize Anomaly action, the updates are not applied to active anomalies. The anomaly rule updates will be applied to any new instance of the anomaly only.
- If an anomaly rule contains both Acknowledge and Customize Anomaly action, and you edit the anomaly rule by removing either the Acknowledge and Customize Anomaly action, then the updates are not applied to active anomalies.
- When you delete or disable an anomaly rule containing **Customize Anomaly** action, the recommendations are still displayed in the **How do I fix it** area.
- You can only manually unacknowledge anomalies, including those that are automatically acknowledged by an anomaly rule. You cannot automatically unacknowledge these anomalies by disabling or deleting the anomaly rules.
- If you manually unacknowledge an anomaly that was previously acknowledged by an anomaly rule, re-applying the same anomaly rule (even with the **Apply to existing active anomalies** option checked) may not re-acknowledge that specific anomaly. In such cases, you need to manually acknowledge it.
- When you configure an anomaly rule with both **Acknowledge** and **Customize anomaly actions**, and check the **Apply to existing active anomalies** checkbox, the rule may not acknowledge active anomalies that were previously manually unacknowledged. However, the custom message action is applied to all existing active anomalies.

For example, if you set a rule to acknowledge and add a custom message to **L3 QoS TCAM Threshold Exceeded** anomalies, the custom message appears on all the 8 existing anomalies. However, the rule acknowledges only 2 out of 8 anomalies, if the other 6 anomalies are unacknowledged manually earlier.

- Maximum anomaly rules supported across all fabrics is 500.
- In the following scenario, you cannot use an alert rule to automatically acknowledge existing active anomalies matching the match criteria by selecting the **Apply to existing active anomalies** check-box in the **Create Anomaly Rule** page.
 - An anomaly is raised before the alert rule is created and there are no further updates to the anomaly after the alert rule is created.

In this scenario, you can manually acknowledge the anomalies. See [Configure anomaly properties](#).

- After upgrading to this release, some anomaly rules may be updated or deleted. You can manually add these rules after the upgrade based on the new categories and severity.
- Anomaly rules using match criteria with an object match rule or code rule does not apply to anomalies with the one of the following categories: Active Bugs, Capacity, Hardware, Integrations, or Connectivity.

Create anomaly rules

1. Navigate to **Manage > Anomaly and Compliance Rules > Anomaly Rules**.
2. Click **Create Anomaly Rule**.
3. Complete the following fields for **General**.
 - a. In the **Name** field, enter the name.
 - b. In the **Description** field, enter the description.
 - c. Choose the state to enable the rule to be active.

If the state is enabled, the rule will be applied in the next analysis. If the state disabled, the rule will not be applied during the next analysis.

- d. Click **Next**.
4. Complete the following fields for **Settings**.
 - a. Click **Add Criteria** to define the match criteria for the anomaly rule.
 - b. From the **Fabric** drop-down list, select the fabric. Only the match criteria for the fabric running the analysis will be selected and matched with the alerts to perform the action.
 - c. Select the attributes for the match criteria. You can use category, event title, object match rule, code rule, and severity to define the attribute for the match criteria. Select category and event title from the drop-down list.
 - d. Click **Add Object Match Rule** to define the primary affected objects for the match criteria.

To determine the primary affected objects, see [Determine the primary affected object for an anomaly](#).

If multiple affected objects are included in the match criteria, then the anomalies containing all the affected objects will be matched. If an anomaly rule contains multiple match criteria, then the anomalies containing the union of the match criteria will be matched.

- e. Click **Add Code Rule** to define the check code for the match criteria.
 - f. Select severity from the drop-down list.
 - g. Click **Save**.
5. Complete the following fields for **Actions**.
 - a. Use toggle to choose **Acknowledge**.

Acknowledge enables you to acknowledge all new detected anomalies that match the criteria and adjust the anomaly score accordingly.

- i. Check **Apply to existing active anomalies** check-box to apply the anomaly rule to existing instance of the anomalies matching the alert anomaly. Uncheck the check-box to

apply the anomaly rule to match to new instance of anomalies.

- b. Use toggle to choose **Customize Anomaly**.

Customize Anomaly allows you to customize an anomaly by adding a custom message that will be displayed when an anomaly is raised based on the anomaly rule.

- i. Enter the recommendations to be displayed in the anomaly rule. You can create multiple rules based on different matching criteria to have more than one customized recommendation displayed in the anomaly rule. In the Anomaly page, the recommendations are displayed in the **How do I fix it?** area.
 - ii. Check **Apply to existing active anomalies** check-box to apply the anomaly rule to existing instance of the anomalies matching the anomaly rule. Uncheck the check-box to apply the anomaly rule to match to new instance of anomalies.
6. In the **Summary**, review your selections and click **Add Anomaly Rule**. The new anomaly rule is displayed in the **Anomaly Rule** table.

Manage anomaly rules

1. Navigate to **Manage > Anomaly and Compliance Rules > Anomaly Rules**. The anomaly rules are displayed in the **Anomaly Rule** table.
2. Use the search bar to filter the rules based on Name, Actions, and State.
3. Select an anomaly rule and click **Edit Rule** to edit.
4. Select an anomaly rule and click **Delete Rule** to delete the rule from the system.
5. Select an anomaly rule and click ellipsis icon. Click **Enable** to enable the rule. If the state is enabled, the rule will be applied in the next analysis. Before enabling an anomaly rule make sure that at least one match criteria is present in the anomaly rule.
6. Select an anomaly rule and click ellipsis icon. Click **Disable** to disable the rule. If the state is disabled, the rule will not be applied during the next analysis.

Advisories

Nexus Dashboard identifies field notices, software and hardware end-of-life and end-of-sale announcements, as well as PSIRTs that can potentially impact the network fabrics that it is monitoring, and generate advisories. Advisories provides recommendations to keep your network under support and running in optimal conditions.

Advisories in Nexus Dashboard provide details of relevant impact from field notices, PSIRTs, EoL/EoS of hardware and software, and best practices. You can view the advisories by level and category for a particular fabric based on the selected time range.

When Advisories identifies field notices that can potentially impact the network fabrics that it is monitoring, Nexus Dashboard validates the serial number of the devices in the fabrics against a list of affected device serial numbers in each field notice. If a serial number is not included in a field notice, Nexus Dashboard excludes that field notice. For Advisories to validate the device serial numbers, Nexus Dashboard must have an Internet connection and be connected to and registered to Cisco Intersight. Without such connectivity, Advisories cannot validate the serial numbers, which can result

in Advisories incorrectly including field notices that do not apply. Not all field notices include serial number validation.

Click a particular advisory to view information such as What's wrong, What's the impact, and How do I fix it.

- What's wrong? provides problem description with the specific affected objects.
- What's the impact? explains what will happen if the problem is not fixed and includes end-of-sale key dates.
- How do I fix it? provides prescriptive recommendations.

Advisories enable you to stay current with

- new software and hardware availability
- hardware and software EoS and EoL announcements and lead time for upgrades
- PSIRTs and field notices, which helps you stay secure and compliant, and
- instant visibility into applicable bugs.

Advisories are classified into three levels: critical, major, and warning.

- **Critical:** Advisories are shown as critical when there are unsupported infrastructure and the severity of the bugs associated with notices is Severity1. Some of the examples include:
 - When switches in a fabric are running under End-of-Life conditions. When a critical (Severity1) field notice or PSIRT has been issued for a switch or software version currently running in your network.
- **Major:** Advisories are shown as major when the severity of the bugs associated with notices is Severity2. Some of the examples include:
 - When a critical (Severity2) field notice or PSIRT has been issued for a switch or software version currently running in your network.
- **Warning:** Advisories are shown as warning when there is support for potentially at risk infrastructure and the severity of the bugs associated with notices is Severity3. Some of the examples include:
 - When switches in a fabric are approaching end-of-life conditions. When a Severity3 field notice or PSIRT has been issued for a switch or software version currently running in your network.

Navigate to the Advisories

You can view advisories in Nexus Dashboard at different levels such as across all fabrics, for a specific fabric, for a specific switch, or for system-wide advisories. Use the following methods to access advisory information.

1. To view all advisories across all fabrics, you can navigate to **Analyze > Advisories**.

This displays all advisories detected across all fabrics in your environment.

2. Follow these steps to view the advisories for a single fabric.
 - a. Navigate to **Home > Overview**.
 - b. Choose online fabrics or snapshot fabrics from the drop-down list.
 - c. Click the **Advisory level** card.
 - d. In the **Advisories** page, click **Analyze Advisories** to view detailed information for the selected fabric.
3. You can also view the advisories for a single fabric in the **Fabrics Overview** page.
 - a. Navigate to **Manage > Fabrics**.
 - b. Choose an appropriate fabric.

The **Fabrics Overview** page displays.

- c. Click the **Advisories** tab to view advisories specific to that fabric.

Follow these steps to view the advisories for a single switch in the **Inventory** page.

1. Navigate to **Manage > Inventory**.
2. Choose online fabrics or snapshot fabrics from the drop-down list.
3. Choose a switch.

The **Switch Overview** page displays.

4. Click the **Advisories** tab.

Follow these steps to view the system advisories.

1. Navigate to **Admin > System Status**.
2. Click the **Advisories** tab.

Analyze advisories

1. [\[Navigate to the Anomalies window\]](#).
2. Click the Date and Time selector to select the time range.

The Advisories page displays the advisories by Level and Category for your account based on the selected time range.

- The Level donut chart displays the total number of advisories of Critical, Major, and Warning severity.
- The category displays a list of categories with number of anomalies against each category.
- For the advisories displayed for a snapshot fabric, the advisory levels are across all snapshots and not just the latest snapshot.

3. Use the search bar to filter the advisories.

4. The Advisories table displays the filtered advisories. The advisories are sorted by Level by default. Click the column heading to sort the advisories in the table.

The advisory status include Active and Cleared. An active state indicates that the advisory is present on your network. A cleared state indicates that the advisory is not present on your network anymore and therefore the advisory is marked cleared.

5. Click the gear icon to configure the columns in the Advisories table. By default, the columns Title, Level, Category, and Fabric are displayed.
6. Click an advisory to view the additional details such as What's wrong?, What's the impact?, and How do I fix it?.

- What's wrong? provides problem description with the specific affected objects.
- What's the impact? explains what will happen if the problem is not fixed and includes End-of-Sale key dates.
- How do I fix it? provides prescriptive recommendations.

7. Choose advisories from the **Advisories** table and click **Acknowledge Advisories** to acknowledge advisories.

You can also click an advisory in the **Advisory** page and choose **Acknowledge Advisory** from the **Actions** drop-down list.

By default all the unacknowledged **Advisories** are displayed in the advisories table. Once you acknowledge an advisory, choose **Acknowledged** from the drop-down list to view all the acknowledged advisories.

View platform and system alerts in global advisories table

System advisories allow you to view information about updates, issues, or required actions related to a system, application, or network. These advisories ensure that you are aware of critical information that might impact the system's performance, security, or operation.

Follow these steps to include system-related advisories.

1. Navigate to **Analyze > Advisories**.

The **Advisories** page displays.

2. Click the **Include system advisories** toggle button in the top-right corner, to include system-related advisories in the **Advisories** table.

Once enabled, the **System** category appears under advisories by category in the **Advisories** page.

LANONENODE

Home

Manage

Analyze

Admin

Advisories

Refresh

Active now

Unacknowledged

Include system advisories

Filter by attributes

Advisory level

50

Critical 2

Major 4

Warning 44

Category

Software EOL 2

PSIRT 24

Best practices 23

Field notice 1

<input type="checkbox"/>	Title	Advisory level	Category	Fabric	Nodes	
<input type="checkbox"/>	Configure centralized logging	Warning	Best practices	FABRIC3	SPINE2 FABRIC3 View all (2 total)	...
<input type="checkbox"/>	Use AAA for authentication	Warning	Best practices	FABRIC3	SPINE2 FABRIC3 View all (2 total)	...
<input type="checkbox"/>	Disable IP source routing	Warning	Best practices	FABRIC3	SPINE2 FABRIC3 View all (2 total)	...

System advisory notification

When there is an active system advisory, a notification alert appears on the **Notifications** bell icon located in the common navigation bar at the top of the page. Click the notification bell icon to open the **Notifications** pane. In the **Notifications** pane, click **View system advisories**. Nexus Dashboard redirects you to the **System Status** page, where you can review the full list of current and past system advisories in the **Advisories** table.

Nexus Dashboard

Search

Notifications 1

Help

admin

pnd-g1

Home

Manage

Analyze

Admin

System Status

Overview Nodes Anomalies **Advisories** Telemetry Resources

Active now

Unacknowledged

Filter by attributes

Level

1

Warning 1

Category

Hardware EOL 1

<input type="checkbox"/>	Title	Advisory level	Ca
<input type="checkbox"/>	End-of-Sale and End-of-Life Announcement for the Cisco APIC-M3, APIC-L3 and SE-NODE-G2 - Cisco	Warning	H

Notifications

System advisories

There are advisories that are applicable to one or more nodes within this cluster. Please click the link for more details.

[View system advisories](#)

Advisory filters

The search bar allows you to filters the advisories. In the Advisories page, you can use the following filters to refine the displayed advisories:

- Title - Display advisories with a specific title.
- Advisory Level - Display advisories of a specific level.

- Detection Time – Display advisories with a specific detection time.
- Last Seen time – Display only advisories with a specific last seen time. Last Seen Time indicates the time advisory was updated while under active status. If the status of the advisory is not cleared, then the advisory is active.
- Category – Display advisories from a specific category.
- Fabric – Display advisories for a specific fabric.
- Nodes – Display advisories for specific nodes.
- What’s wrong? – Display advisories of a specific affected object.

As a secondary filter refinement, use the following operators:

- **==** – with the initial filter type, this operator, and a subsequent value, returns an exact match.
- **!=** – with the initial filter type, this operator, and a subsequent value, returns all that do not have the same value.
- **contains** – with the initial filter type, this operator, and a subsequent value, returns all that contain the value.
- **!contains** – with the initial filter type, this operator, and a subsequent value, returns all that do not contain the value.

Metadata support

Nexus Dashboard uses metadata bundles to detect new bugs, PSIRTs, Field Notices, and End of Life Notices. Metadata packages are constantly updated by us and posted to the Cisco Intersight Cloud after validation. Nexus Dashboard connects to the Cisco Intersight Cloud through a device connector that is embedded in the Nexus Dashboard platform and that pulls periodically updated metadata packages. With metadata support for air-gap environment, if Nexus Dashboard is not connected to Cisco Intersight Cloud, you can manually upload the latest metadata to Nexus Dashboard in a secure and trusted way. You can download the bundle updates from the [Cisco DC App Center](#).

Navigate to **Admin > System Settings > Metadata** to view the metadata version.

- In the General area, the Metadata Version is displayed.
- In the Update Metadata Version area, you can upload metadata for air-gapped environments.

Metadata support for an air-gap environment

With metadata support for air-gap environment, if Nexus Dashboard is not connected to Cisco secure cloud, you can upload the latest metadata to Nexus Dashboard periodically in a secure and trusted way.

You can download the encrypted metadata file from the Cisco DC App Center and upload it to Nexus Dashboard to get decrypted updates on exposure to Bugs, PSIRTs, Defects, Field Notices, and End of Life Notices.

Update metadata version

Use this procedure to update the latest metadata version in an Air-Gap or offline environment.

1. Log in to [Cisco DC App Center](#).
2. From the User drop-down menu, select **My Account**.
3. Click **Config Files Requests** tab.
4. Click **Request Config File**.
5. From the **Choose App ID** drop-down list, select Nexus Dashboard.

×

Request for Config File

Choose App Name:

Nexus Dashboard Insights

✓

Min App Version Supported: 6.1.1.65

Cancel

Request

6. Verify the minimum supported app version and click **Request**.

It takes approximately 15 minutes for the request to be completed. In the Config Files Request page, the generated file is displayed in the table below.

7. Select the file and click **Download** to download the file locally.

Request Id	App Name	Created At	Last Update	Status	Version	Link
2	Nexus Dashboard Insights	2022-02-25 17:47:16	2022-02-25 17:48:26	Processed	22	Download

8. Log in to Nexus Dashboard.
9. Navigate to **Admin > System Settings > Metadata** to view the metadata version.
10. In the Update Metadata Version area, upload the file you have downloaded from the Cisco DC App Center.
11. Click **Begin Upload** to upload the latest metadata.

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