■ NetApp

View the Nodes page

StorageGRID 11.7

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View the Nodes page

View the Nodes page: Overview

When you need more detailed information about your StorageGRID system than the dashboard provides, you can use the Nodes page to view metrics for the entire grid, each site in the grid, and each node at a site.

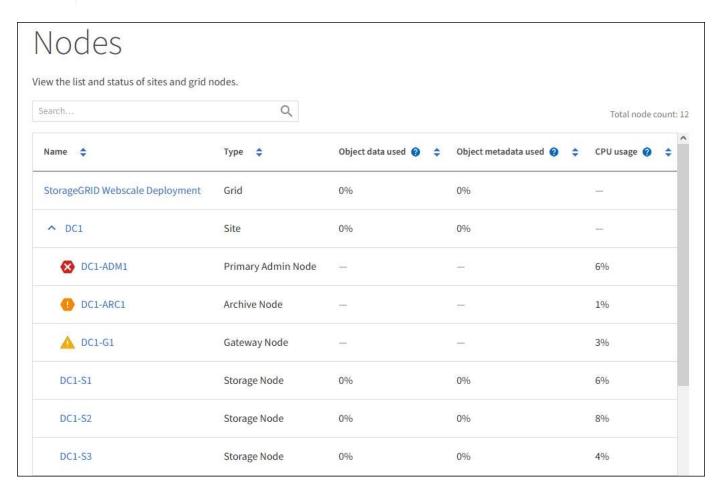
The Nodes table lists summary information for the entire grid, each site, and each node. If a node is disconnected or has an active alert, an icon appears next to the node name. If the node is connected and has no active alerts, no icon is shown.



When a node is not connected to the grid, such as during upgrade or a disconnected state, certain metrics might be unavailable or excluded from site and grid totals. After a node reconnects to the grid, wait several minutes for the values to stabilize.



To change units for the storage values displayed in the Grid Manager, select the user drop-down in the upper right of the Grid Manager, then select **User preferences**.



Connection state icons

If a node is disconnected from the grid, either of the following icons appears next to the node name.

Icon	Description	Action required
Ø	Not connected - Unknown For an unknown reason, a node is	Requires immediate attention. Select each alert and follow the recommended actions.
	disconnected or services on the node are unexpectedly down. For example, a service on the node might be stopped, or the node might have lost its network connection	For example, you might need to restart a service that has stopped or restart the host for the node.
	because of a power failure or unexpected outage.	Note : A node might appear as Unknown during managed shutdown operations. You can ignore the Unknown state in these cases.
	The Unable to communicate with node alert might also be triggered. Other alerts might also be active.	
0	Not connected - Administratively down	Determine if any alerts are affecting this node.
	For an expected reason, node is not connected to grid.	If one or more alerts are active, Select each alert and follow the recommended actions.
	For example, the node, or services on the node, has been gracefully shut down, the node is rebooting, or the software is being upgraded. One or more alerts might also be active.	
	Based on the underlying issue, these nodes often go back online with no intervention.	

If a node is disconnected from the grid, it might have an underlying alert, but only the "Not connected" icon appears. To see the active alerts for a node, select the node.

Alert icons

If there is an active alert for a node, one of the following icons appears next to the node name:

Critical: An abnormal condition exists that has stopped the normal operations of a StorageGRID node or service. You must address the underlying issue immediately. Service disruption and loss of data might result if the issue is not resolved.

Major: An abnormal condition exists that is either affecting current operations or approaching the threshold for a critical alert. You should investigate major alerts and address any underlying issues to ensure that the abnormal condition does not stop the normal operation of a StorageGRID node or service.

Minor: The system is operating normally, but an abnormal condition exists that could affect the system's ability to operate if it continues. You should monitor and resolve minor alerts that don't clear on their own to ensure they don't result in a more serious problem.

View details for a system, site, or node

To filter the information shown in the Nodes table, enter a search string in the **Search** field. You can search by system name, display name, or type (for example, enter **gat** to quickly locate all Gateway Nodes).

To view the information for the grid, site, or node:

- Select the grid name to see an aggregate summary of the statistics for your entire StorageGRID system.
- Select a specific data center site to see an aggregate summary of the statistics for all nodes at that site.
- Select a specific node to view detailed information for that node.

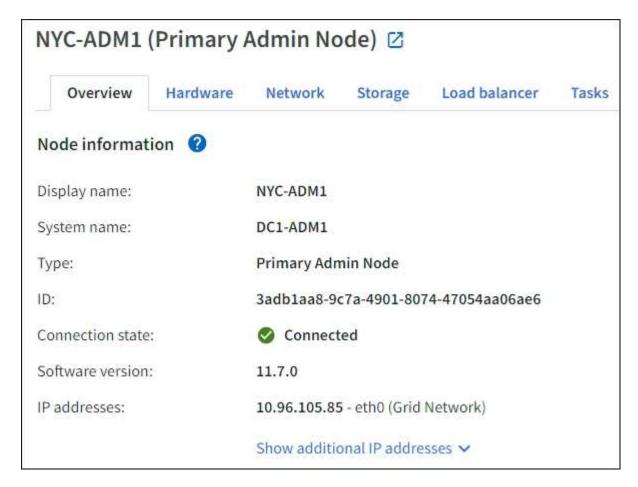
View the Overview tab

The Overview tab provides basic information about each node. It also shows any alerts currently affecting the node.

The Overview tab is shown for all nodes.

Node Information

The Node Information section of the Overview tab lists basic information about the node.



The overview information for a node includes the following:

• Display name (shown only if the node has been renamed): The current display name for the node. Use the

Rename grid, site, and nodes procedure to update this value.

- **System name**: The name you entered for the node during installation. System names are used for internal StorageGRID operations and can't be changed.
- **Type**: The type of node Admin Node, primary Admin Node, Storage Node, Gateway Node, or Archive Node.



Support for Archive Nodes (for both archiving to the cloud using the S3 API and archiving to tape using TSM middleware) is deprecated and will be removed in a future release. Moving objects from an Archive Node to an external archival storage system has been replaced by ILM Cloud Storage Pools, which offer more functionality.

- ID: The unique identifier for the node, which is also referred to as the UUID.
- Connection state: One of three states. The icon for the most severe state is shown.
 - Unknown S: For an unknown reason, the node is not connected to the grid, or one or more services are unexpectedly down. For example, the network connection between nodes has been lost, the power is down, or a service is down. The Unable to communicate with node alert might also be triggered. Other alerts might be active as well. This situation requires immediate attention.



A node might appear as Unknown during managed shutdown operations. You can ignore the Unknown state in these cases.

- Administratively down: The node is not connected to the grid for an expected reason. For example, the node, or services on the node, has been gracefully shut down, the node is rebooting, or the software is being upgraded. One or more alerts might also be active.
- Connected : The node is connected to the grid.
- · Storage used: For Storage Nodes only.
 - Object data: The percentage of the total usable space for object data that has been used on the Storage Node.
 - Object metadata: The percentage of the total allowed space for object metadata that has been used on the Storage Node.
- **Software version**: The version of StorageGRID that is installed on the node.
- **HA groups**: For Admin Node and Gateway Nodes only. Shown if a network interface on the node is included in a high availability group and whether that interface is the Primary interface.
- **IP addresses**: The node's IP addresses. Click **Show additional IP addresses** to view the node's IPv4 and IPv6 addresses and interface mappings.

Alerts

The Alerts section of the Overview tab lists any alerts currently affecting this node that have not been silenced. Select the alert name to view additional details and recommended actions.

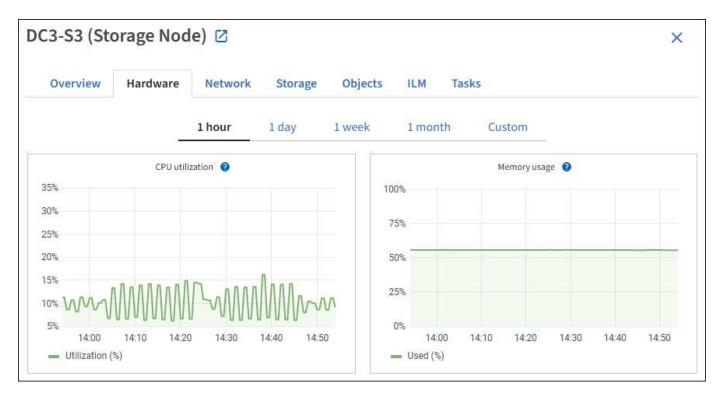


Alerts are also included for node connection states.

View the Hardware tab

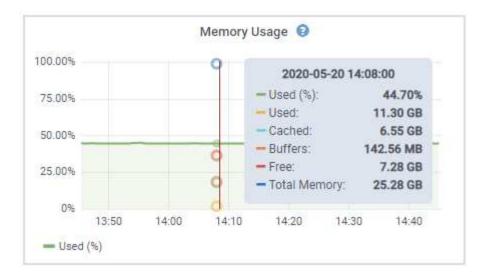
The Hardware tab displays CPU utilization and memory usage for each node, and additional hardware information about appliances.

The Hardware tab is shown for all nodes.



To display a different time interval, select one of the controls above the chart or graph. You can display the information available for intervals of 1 hour, 1 day, 1 week, or 1 month. You can also set a custom interval, which allows you to specify date and time ranges.

To see details for CPU utilization and memory usage, position your cursor over each graph.



If the node is an appliance node, this tab also includes a section with more information about the appliance hardware.

View information about appliance Storage Nodes

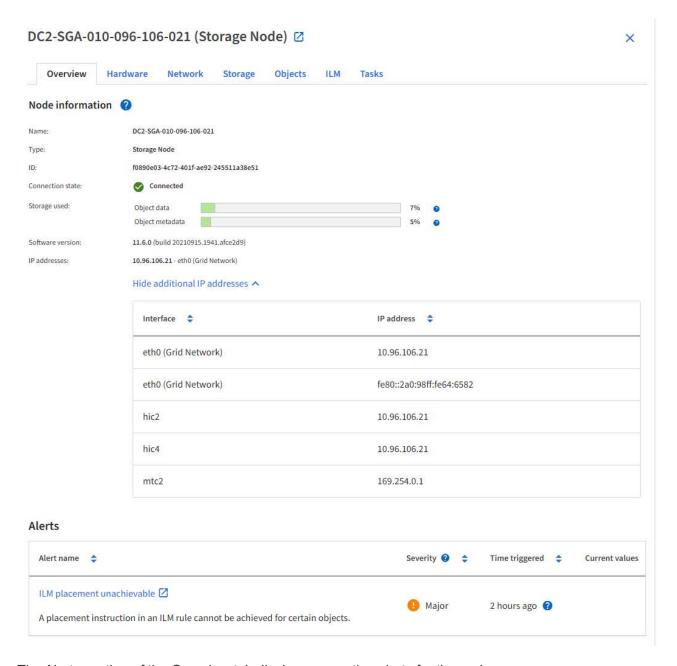
The Nodes page lists information about service health and all computational, disk device, and network resources for each appliance Storage Node. You can also see memory, storage hardware, controller firmware version, network resources, network interfaces, network addresses, and receive and transmit data.

Steps

- 1. From the Nodes page, select an appliance Storage Node.
- 2. Select Overview.

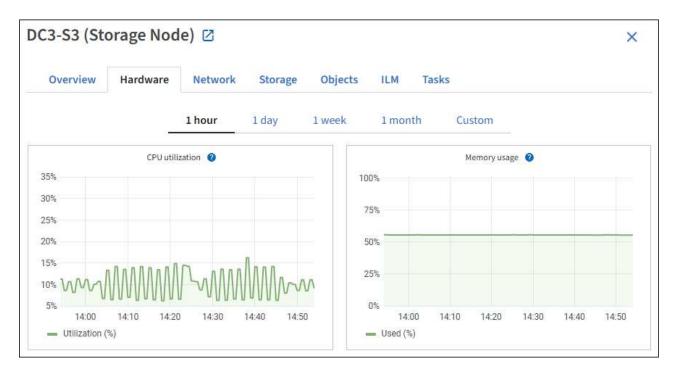
The Node information section of the Overview tab displays summary information for the node, such as the node's name, type, ID, and connection state. The list of IP addresses includes the name of the interface for each address, as follows:

- eth: The Grid Network, Admin Network, or Client Network.
- **hic**: One of the physical 10, 25, or 100 GbE ports on the appliance. These ports can be bonded together and connected to the StorageGRID Grid Network (eth0) and Client Network (eth2).
- mtc: One of the physical 1 GbE ports on the appliance. One or more mtc interfaces are bonded to form the StorageGRID Admin Network interface (eth1). You can leave other mtc interfaces available for temporary local connectivity for a technician in the data center.



The Alerts section of the Overview tab displays any active alerts for the node.

- 3. Select **Hardware** to see more information about the appliance.
 - a. View the CPU Utilization and Memory graphs to determine the percentages of CPU and memory usage over time. To display a different time interval, select one of the controls above the chart or graph. You can display the information available for intervals of 1 hour, 1 day, 1 week, or 1 month. You can also set a custom interval, which allows you to specify date and time ranges.

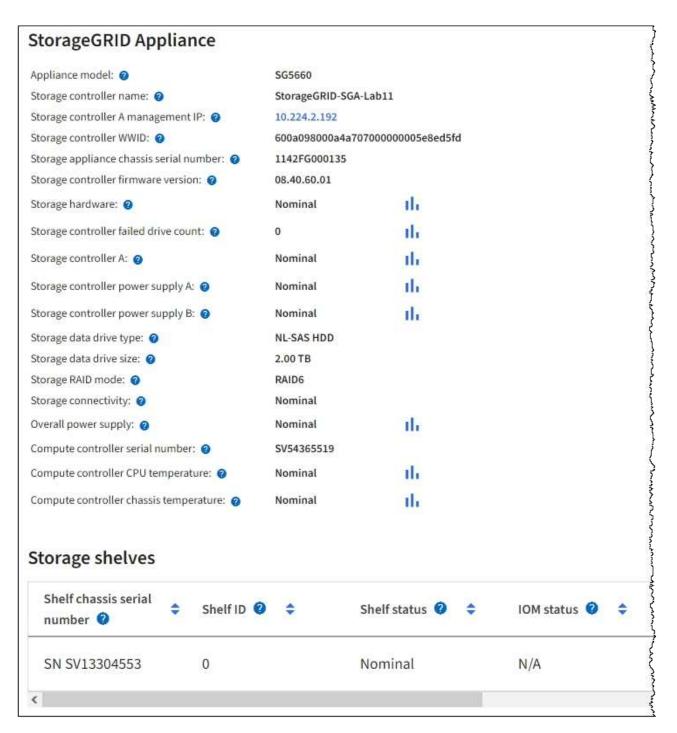


b. Scroll down to view the table of components for the appliance. This table contains information such as the model name of the appliance; controller names, serial numbers, and IP addresses; and the status of each component.



Some fields, such as Compute controller BMC IP and Compute hardware, appear only for appliances with that feature.

Components for the storage shelves, and expansion shelves if they are part of the installation, appear in a separate table below the appliance table.



Field in the Appliance table	Description
Appliance model	The model number for this StorageGRID appliance shown in SANtricity OS.
Storage controller name	The name for this StorageGRID appliance shown in SANtricity OS.
Storage controller A management IP	IP address for management port 1 on storage controller A. You use this IP to access SANtricity OS to troubleshoot storage issues.

Field in the Appliance table	Description
Storage controller B management IP	IP address for management port 1 on storage controller B. You use this IP to access SANtricity OS to troubleshoot storage issues.
	Some appliance models don't have a storage controller B.
Storage controller WWID	The worldwide identifier of the storage controller shown in SANtricity OS.
Storage appliance chassis serial number	The chassis serial number of the appliance.
Storage controller firmware version	The version of the firmware on the storage controller for this appliance.
Storage hardware	The overall status of the storage controller hardware. If SANtricity System Manager reports a status of Needs Attention for the storage hardware, the StorageGRID system also reports this value.
	If the status is "needs attention," first check the storage controller using SANtricity OS. Then, ensure that no other alarms exist that apply to the compute controller.
Storage controller failed drive count	The number of drives that aren't optimal.
Storage controller A	The status of storage controller A.
Storage controller B	The status of storage controller B. Some appliance models don't have a storage controller B.
Storage controller power supply A	The status of power supply A for the storage controller.
Storage controller power supply B	The status of power supply B for the storage controller.
Storage data drive type	The type of drives in the appliance, such as HDD (hard drive) or SSD (solid state drive).
Storage data drive size	The effective size of one data drive.
	Note : For nodes with expansion shelves, use the Data drive size for each shelf instead. Effective drive size might differ by shelf.
Storage RAID mode	The RAID mode configured for the appliance.

Field in the Appliance table	Description
Storage connectivity	The storage connectivity state.
Overall power supply	The status of all power supplies for the appliance.
Compute controller BMC IP	The IP address of the baseboard management controller (BMC) port in the compute controller. You use this IP to connect to the BMC interface to monitor and diagnose the appliance hardware. This field is not displayed for appliance models that don't contain a BMC.
Compute controller serial number	The serial number of the compute controller.
Compute hardware	The status of the compute controller hardware. This field is not displayed for appliance models that don't have separate compute hardware and storage hardware.
Compute controller CPU temperature	The temperature status of the compute controller's CPU.
Compute controller chassis temperature	The temperature status of the compute controller.

Column in the Storage shelves table	Description
Shelf chassis serial number	The serial number for the storage shelf chassis.
Shelf ID	 The numeric identifier for the storage shelf. 99: Storage controller shelf 0: First expansion shelf 1: Second expansion shelf Note: Expansion shelves apply to the SG6060 only.
Shelf status	The overall status of the storage shelf.
IOM status	The status of the input/output modules (IOMs) in any expansion shelves. N/A if this is not an expansion shelf.
Power supply status	The overall status of the power supplies for the storage shelf.

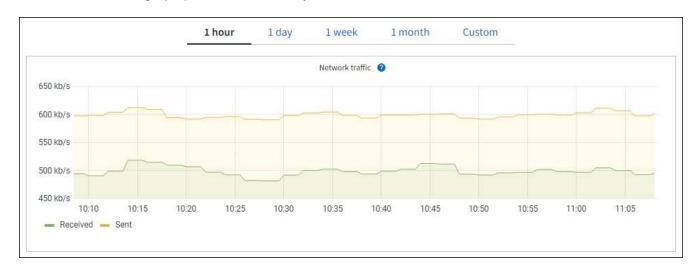
Column in the Storage shelves table	Description
Drawer status	The status of the drawers in the storage shelf. N/A if the shelf does not contain drawers.
Fan status	The overall status of the cooling fans in the storage shelf.
Drive slots	The total number of drive slots in the storage shelf.
Data drives	The number of drives in the storage shelf that are used for data storage.
Data drive size	The effective size of one data drive in the storage shelf.
Cache drives	The number of drives in the storage shelf that are used as cache.
Cache drive size	The size of the smallest cache drive in the storage shelf. Normally, cache drives are all the same size.
Configuration status	The configuration status of the storage shelf.

c. Confirm that all statuses are "Nominal."

If a status is not "Nominal," review any current alerts. You can also use SANtricity System Manager to learn more about some of these hardware values. See the instructions for installing and maintaining your appliance.

4. Select **Network** to view information for each network.

The Network Traffic graph provides a summary of overall network traffic.



a. Review the Network Interfaces section.



Use the following table with the values in the **Speed** column in the Network Interfaces table to determine whether the 10/25-GbE network ports on the appliance were configured to use active/backup mode or LACP mode.



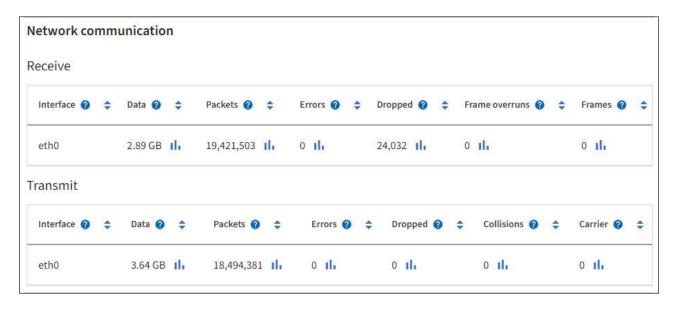
The values shown in the table assume all four links are used.

Link mode	Bond mode	Individual HIC link speed (hic1, hic2, hic3, hic4)	Expected Grid/Client Network speed (eth0,eth2)
Aggregate	LACP	25	100
Fixed	LACP	25	50
Fixed	Active/Backup	25	25
Aggregate	LACP	10	40
Fixed	LACP	10	20
Fixed	Active/Backup	10	10

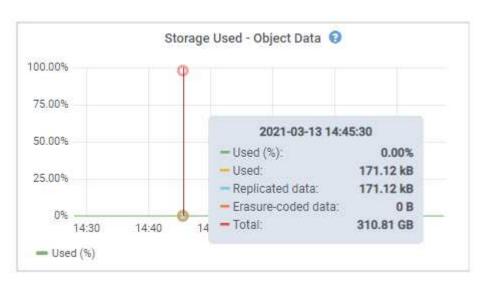
See Configure network links for more information about configuring the 10/25-GbE ports.

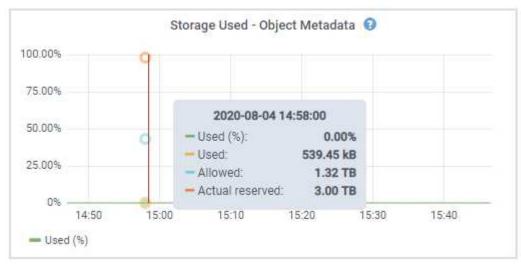
b. Review the Network Communication section.

The Receive and Transmit tables show how many bytes and packets have been received and sent across each network as well as other receive and transmit metrics.



5. Select **Storage** to view graphs that show the percentages of storage used over time for object data and object metadata, as well as information about disk devices, volumes, and object stores.





a. Scroll down to view the amounts of available storage for each volume and object store.

The Worldwide Name for each disk matches the volume world-wide identifier (WWID) that appears

when you view standard volume properties in SANtricity OS (the management software connected to the appliance's storage controller).

To help you interpret disk read and write statistics related to volume mount points, the first portion of the name shown in the **Name** column of the Disk Devices table (that is, *sdc*, *sdd*, *sde*, and so on) matches the value shown in the **Device** column of the Volumes table.



View information about appliance Admin Nodes and Gateway Nodes

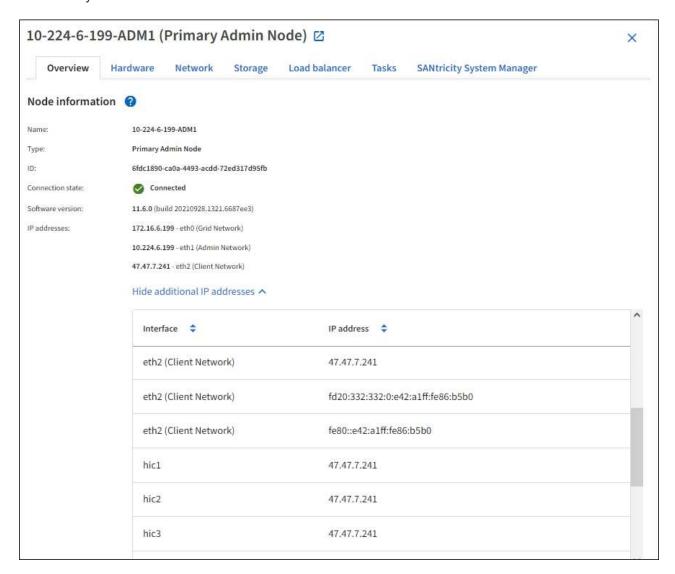
The Nodes page lists information about service health and all computational, disk device, and network resources for each services appliance that is used as an Admin Node or a Gateway Node. You can also see memory, storage hardware, network resources, network interfaces, network addresses, and receive and transmit data.

Steps

- 1. From the Nodes page, select an appliance Admin Node or an appliance Gateway Node.
- 2. Select Overview.

The Node information section of the Overview tab displays summary information for the node, such as the node's name, type, ID, and connection state. The list of IP addresses includes the name of the interface for each address, as follows:

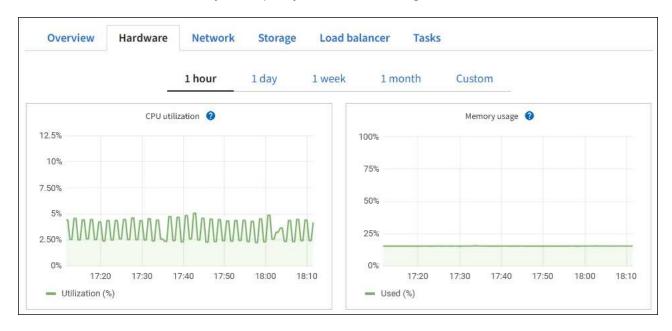
- · adllb and adlli: Shown if active/backup bonding is used for the Admin Network interface
- eth: The Grid Network, Admin Network, or Client Network.
- hic: One of the physical 10, 25, or 100 GbE ports on the appliance. These ports can be bonded together and connected to the StorageGRID Grid Network (eth0) and Client Network (eth2).
- mtc: One of the physical 1-GbE ports on the appliance. One or more mtc interfaces are bonded to form the Admin Network interface (eth1). You can leave other mtc interfaces available for temporary local connectivity for a technician in the data center.



The Alerts section of the Overview tab displays any active alerts for the node.

- 3. Select **Hardware** to see more information about the appliance.
 - a. View the CPU Utilization and Memory graphs to determine the percentages of CPU and memory usage over time. To display a different time interval, select one of the controls above the chart or graph. You

can display the information available for intervals of 1 hour, 1 day, 1 week, or 1 month. You can also set a custom interval, which allows you to specify date and time ranges.



b. Scroll down to view the table of components for the appliance. This table contains information such as the model name, serial number, controller firmware version, and the status of each component.

StorageGRID Appliance		
Appliance model: 0	SG100	
Storage controller failed drive count: ②	0	ıl.
Storage data drive type:	SSD	
Storage data drive size: 👩	960.20 GB	
Storage RAID mode: 🥝	RAID1 [healt	hy]
Storage connectivity: 🧿	Nominal	
Overall power supply: ②	Nominal	ili
Compute controller BMC IP: 🥝	10.60.8.38	
Compute controller serial number: 🧿	372038000093	
Compute hardware: 0	Nominal	ılı
Compute controller CPU temperature: 0	Nominal	th
Compute controller chassis temperature: 🧑	Nominal	th
Compute controller power supply A:	Nominal	th
Compute controller power supply B:	Nominal	ıl.

Field in the Appliance table	Description
Appliance model	The model number for this StorageGRID appliance.

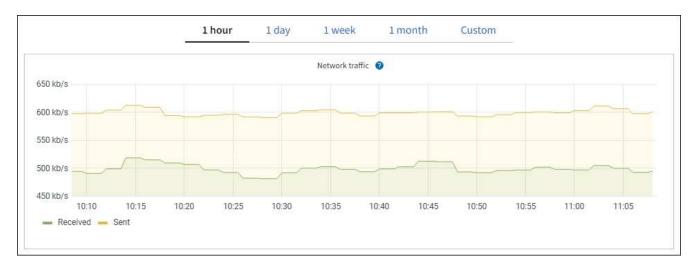
Field in the Appliance table	Description
Storage controller failed drive count	The number of drives that aren't optimal.
Storage data drive type	The type of drives in the appliance, such as HDD (hard drive) or SSD (solid state drive).
Storage data drive size	The effective size of one data drive.
Storage RAID mode	The RAID mode for the appliance.
Overall power supply	The status of all power supplies in the appliance.
Compute controller BMC IP	The IP address of the baseboard management controller (BMC) port in the compute controller. You can use this IP to connect to the BMC interface to monitor and diagnose the appliance hardware. This field is not displayed for appliance models that don't contain a BMC.
Compute controller serial number	The serial number of the compute controller.
Compute hardware	The status of the compute controller hardware.
Compute controller CPU temperature	The temperature status of the compute controller's CPU.
Compute controller chassis temperature	The temperature status of the compute controller.

c. Confirm that all statuses are "Nominal."

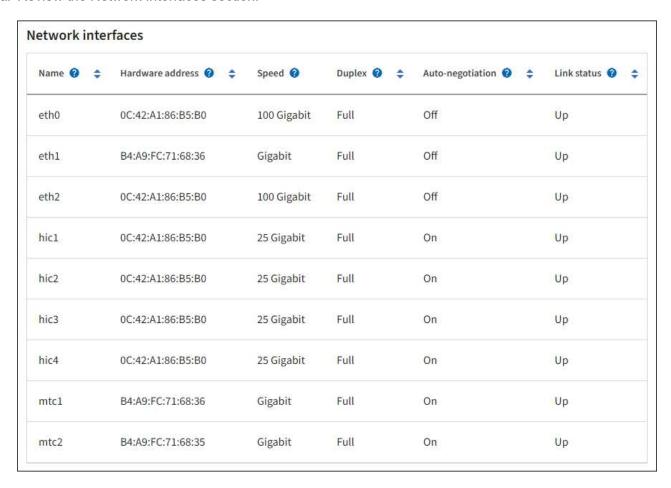
If a status is not "Nominal," review any current alerts.

4. Select **Network** to view information for each network.

The Network Traffic graph provides a summary of overall network traffic.



a. Review the Network Interfaces section.



Use the following table with the values in the **Speed** column in the Network Interfaces table to determine whether the four 40/100-GbE network ports on the appliance were configured to use active/backup mode or LACP mode.

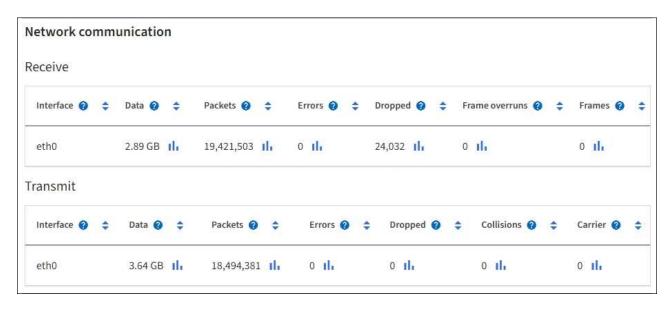


The values shown in the table assume all four links are used.

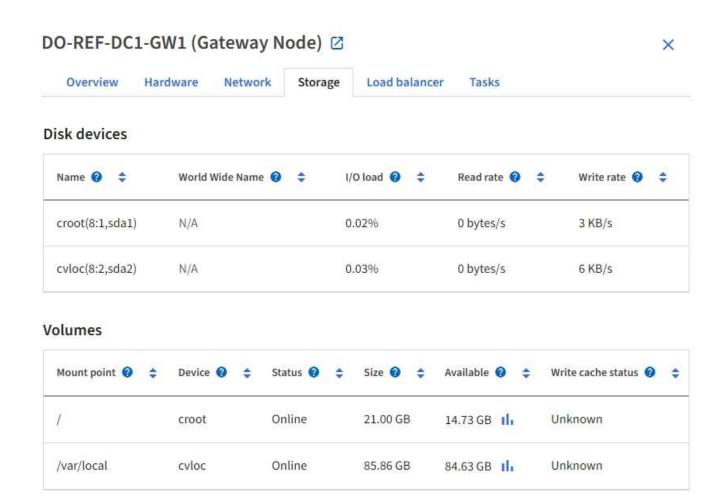
Link mode	Bond mode	Individual HIC link speed (hic1, hic2, hic3, hic4)	Expected Grid/Client Network speed (eth0, eth2)
Aggregate	LACP	100	400
Fixed	LACP	100	200
Fixed	Active/Backup	100	100
Aggregate	LACP	40	160
Fixed	LACP	40	80
Fixed	Active/Backup	40	40

b. Review the Network Communication section.

The Receive and Transmit tables show how many bytes and packets have been received and sent across each network as well as other receive and transmission metrics.



5. Select **Storage** to view information about the disk devices and volumes on the services appliance.



Related information

SG100 and SG1000 services appliances

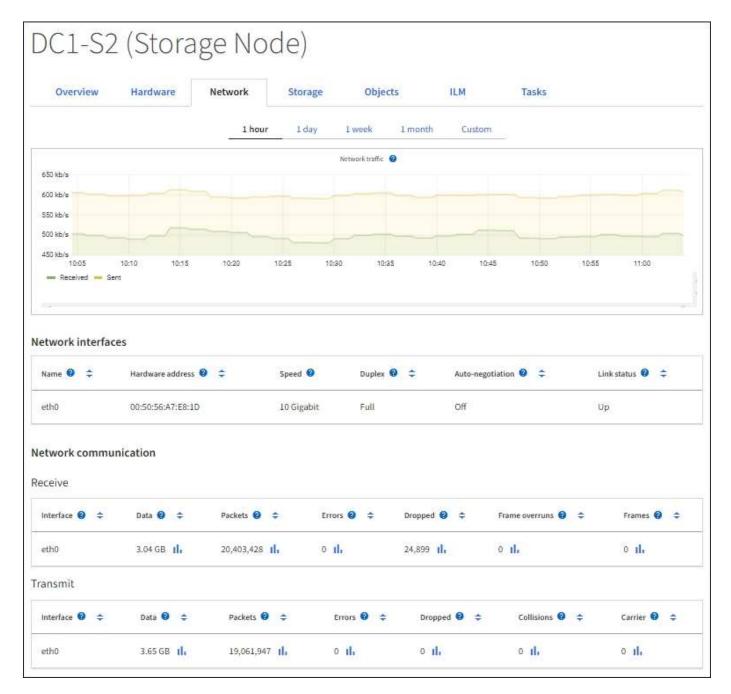
View the Network tab

The Network tab displays a graph showing the network traffic received and sent across all of the network interfaces on the node, site, or grid.

The Network tab is shown for all nodes, each site, and the entire grid.

To display a different time interval, select one of the controls above the chart or graph. You can display the information available for intervals of 1 hour, 1 day, 1 week, or 1 month. You can also set a custom interval, which allows you to specify date and time ranges.

For nodes, the Network interfaces table provides information about each node's physical network ports. The Network communications table provides details about each node's receive and transmit operations and any driver reported fault counters.



Related information

Monitor network connections and performance

View the Storage tab

The Storage tab summarizes storage availability and other storage metrics.

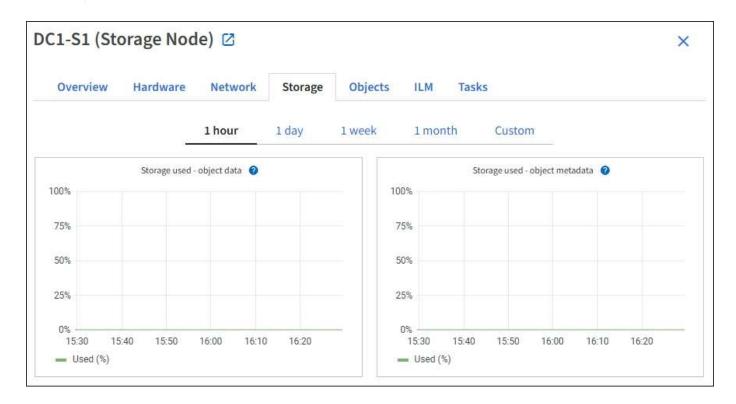
The Storage tab is shown for all nodes, each site, and the entire grid.

Storage used graphs

For Storage Nodes, each site, and the entire grid, the Storage tab includes graphs showing how much storage has been used by object data and object metadata over time.



When a node is not connected to the grid, such as during upgrade or a disconnected state, certain metrics might be unavailable or excluded from site and grid totals. After a node reconnects to the grid, wait several minutes for the values to stabilize.



Disk devices, Volumes, and Object stores tables

For all nodes, the Storage tab contains details for the disk devices and volumes on the node. For Storage Nodes, the Object Stores table provides information about each storage volume.



Related information

Monitor storage capacity

Use the Task tab to reboot a grid node

The Task tab allows you to reboot the selected node. The Task tab is shown for all nodes.

Before you begin

- You are signed in to the Grid Manager using a supported web browser.
- You have the Maintenance or Root access permission.

· You have the provisioning passphrase.

About this task

You can use the Task tab to reboot a node. For appliance nodes, you can also use the Task tab to place the appliance into maintenance mode.

• Rebooting a grid node from the Task tab issues the reboot command on the target node. When you reboot a node, the node shuts down and restarts. All services are restarted automatically.

If you plan to reboot a Storage Node, note the following:

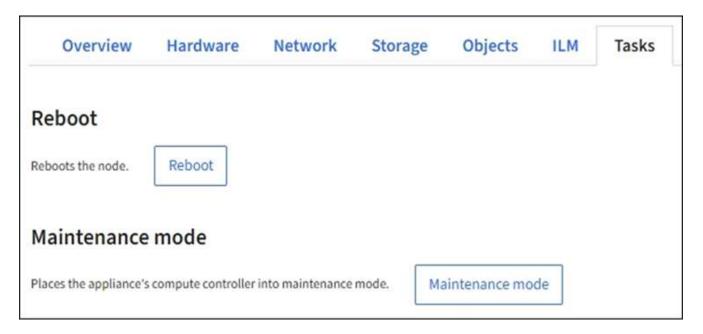
- If an ILM rule specifies an ingest behavior of Dual commit or the rule specifies Balanced and it is not
 possible to immediately create all required copies, StorageGRID immediately commits any newly
 ingested objects to two Storage Nodes on the same site and evaluates ILM later. If you want to reboot
 two or more Storage Nodes on a given site, you might not be able to access these objects for the
 duration of the reboot.
- To ensure you can access all objects while a Storage Node is rebooting, stop ingesting objects at a site for approximately one hour before rebooting the node.
- You might need to put a StorageGRID appliance into maintenance mode to perform certain procedures, such as changing the link configuration or replacing a storage controller. For instructions, see Place appliance into maintenance mode.



In rare instances, placing a StorageGRID appliance into maintenance mode might make the appliance unavailable for remote access.

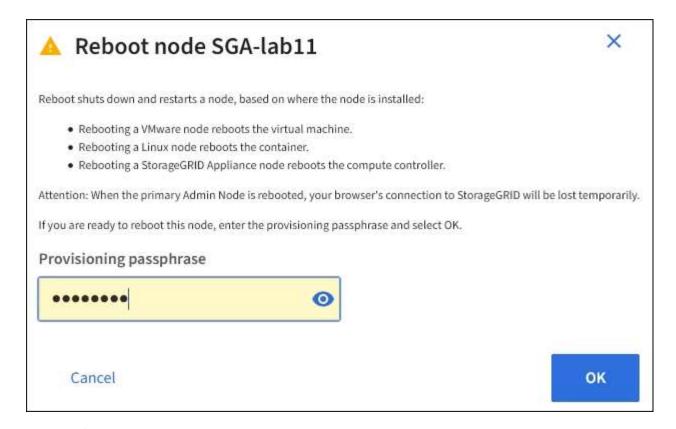
Steps

- 1. Select NODES.
- 2. Select the grid node you want to reboot.
- 3. Select the Tasks tab.



4. Select **Reboot**.

A confirmation dialog box appears.





If you are rebooting the primary Admin Node, the confirmation dialog box reminds you that your browser's connection to the Grid Manager will be lost temporarily when services are stopped.

- 5. Enter the provisioning passphrase, and select **OK**.
- Wait for the node to reboot.

It might take some time for services to shut down.

When the node is rebooting, the gray icon (Administratively Down) appears on the left side of the **Nodes** page. When all services have started again and the node is successfully connected to the grid, the **Nodes** page should display a normal status (no icons to the left of the node name), indicating that no alerts are active and the node is connected to the grid.

View the Objects tab

The Objects tab provides information about S3 and Swift ingest and retrieve rates.

The Objects tab is shown for each Storage Node, each site, and the entire grid. For Storage Nodes, the Objects tab also provides object counts and information about metadata queries and background verification.

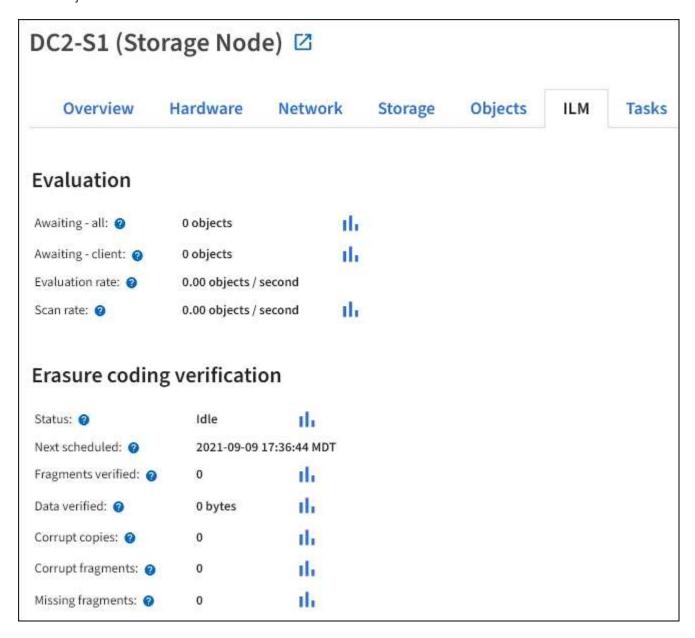


View the ILM tab

The ILM tab provides information about Information Lifecycle Management (ILM) operations.

The ILM tab is shown for each Storage Node, each site, and the entire grid. For each site and the grid, the ILM tab shows a graph of the ILM queue over time. For the grid, this tab also provides the estimated time to complete a full ILM scan of all objects.

For Storage Nodes, the ILM tab provides details about ILM evaluation and background verification for erasure coded objects.



Related information

Monitor information lifecycle management

Administer StorageGRID

View the Load balancer tab

The Load Balancer tab includes performance and diagnostic graphs related to the operation of the Load Balancer service.

The Load Balancer tab is shown for Admin Nodes and Gateway Nodes, each site, and the entire grid. For each site, the Load Balancer tab provides an aggregate summary of the statistics for all nodes at that site. For the entire grid, the Load Balancer tab provides an aggregate summary of the statistics for all sites.

If there is no I/O being run through the Load Balancer service, or there is no load balancer configured, the graphs display "No data."



Request traffic

This graph provides a 3-minute moving average of the throughput of data transmitted between load balancer endpoints and the clients making the requests, in bits per second.



This value is updated at the completion of each request. As a result, this value might differ from the real-time throughput at low request rates or for very long-lived requests. You can look at the Network tab to get a more realistic view of the current network behavior.

Incoming request rate

This graph provides a 3-minute moving average of the number of new requests per second, broken down by request type (GET, PUT, HEAD, and DELETE). This value is updated when the headers of a new request have been validated.

Average request duration (non-error)

This graph provides a 3-minute moving average of request durations, broken down by request type (GET, PUT, HEAD, and DELETE). Each request duration starts when a request header is parsed by the Load Balancer service and ends when the complete response body is returned to the client.

Error response rate

This graph provides a 3-minute moving average of the number of error responses returned to clients per second, broken down by the error response code.

Related information

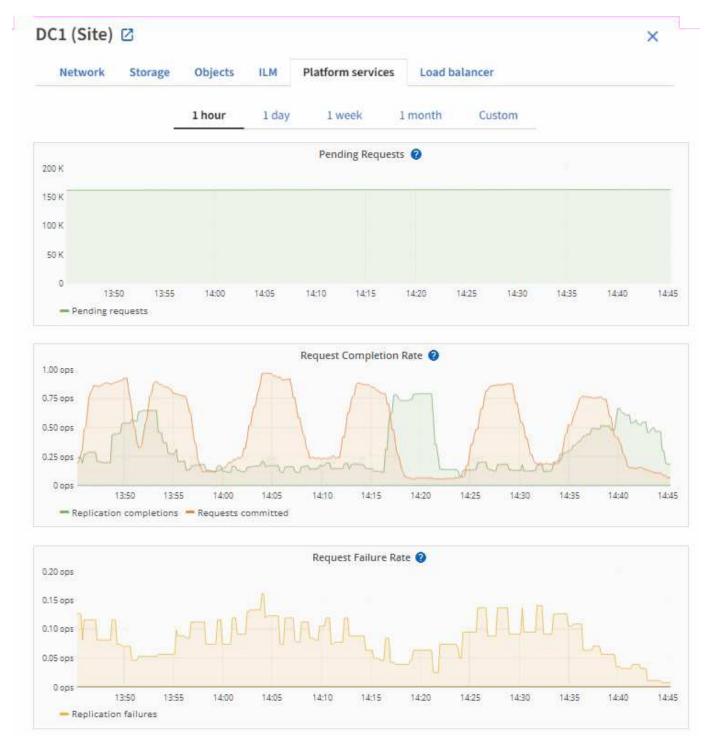
Monitor load balancing operations

Administer StorageGRID

View the Platform services tab

The Platform services tab provides information about any S3 platform service operations at a site.

The Platform services tab is shown for each site. This tab provides information about S3 platform services, such as CloudMirror replication and the search integration service. Graphs on this tab display metrics such as the number of pending requests, request completion rate, and request failure rate.



For more information about S3 platform services, including troubleshooting details, see the instructions for administering StorageGRID.

View the SANtricity System Manager tab

The SANtricity System Manager tab on the Nodes page in Grid Manager enables you to access SANtricity System Manager without having to configure or connect the management port of the storage appliance. You can use this tab to review hardware diagnostic and environmental information as well as issues related to the drives.



The SANtricity System Manager tab is shown only for storage appliance nodes using E-Series hardware.

Using SANtricity System Manager, you can do the following:

- View performance data such as storage array level performance, I/O latency, storage controller CPU utilization, and throughput.
- · Check hardware component status.
- Perform support functions including viewing diagnostic data, and configuring E-Series AutoSupport.



To use SANtricity System Manager to configure a proxy for E-Series AutoSupport, see Send E-Series AutoSupport messages through StorageGRID.

To access SANtricity System Manager through Grid Manager, you must have the Storage appliance administrator permission or Root access permission.

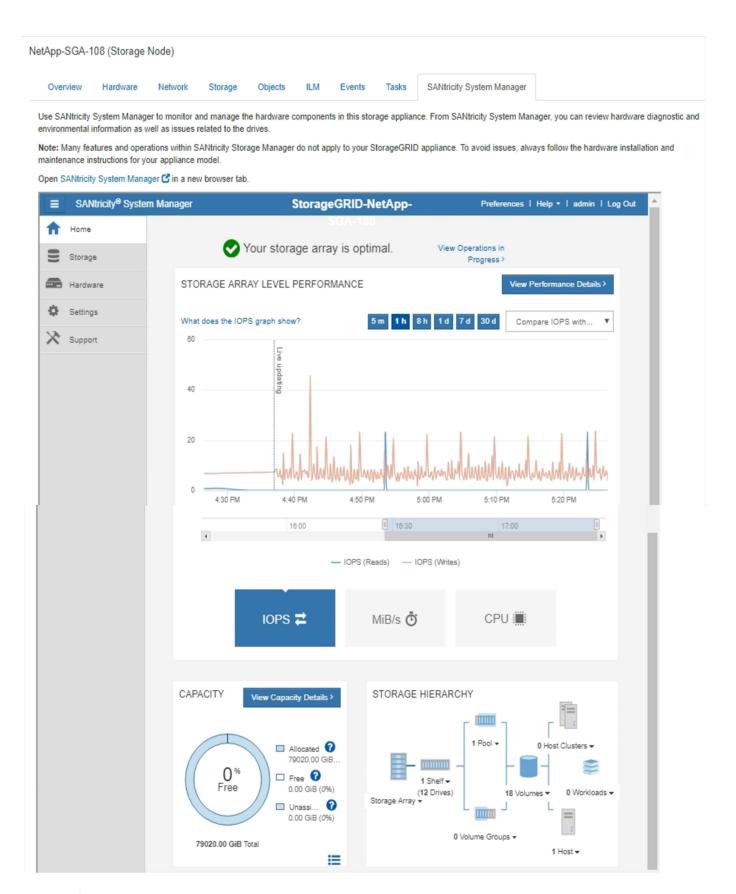


You must have SANtricity firmware 8.70 or higher to access SANtricity System Manager using the Grid Manager.



Accessing SANtricity System Manager from the Grid Manager is generally meant only to monitor appliance hardware and configure E-Series AutoSupport. Many features and operations within SANtricity System Manager such as upgrading firmware don't apply to monitoring your StorageGRID appliance. To avoid issues, always follow the hardware maintenance instructions for your appliance.

The tab displays the home page of SANtricity System Manager.



(i)

You can use the SANtricity System Manager link to open the SANtricity System Manager in a new browser window for easier viewing.

To see details for storage array level performance and capacity usage, position your cursor over each graph.

For more details on viewing the information accessible from the SANtricity System Manager tab, see NetApp E-Series and SANtricity documentation.

Related information

- Maintain SG6000 appliance
- Maintain SG5700 appliance

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