



Types of charts and graphs

StorageGRID 11.5

NetApp

January 04, 2024

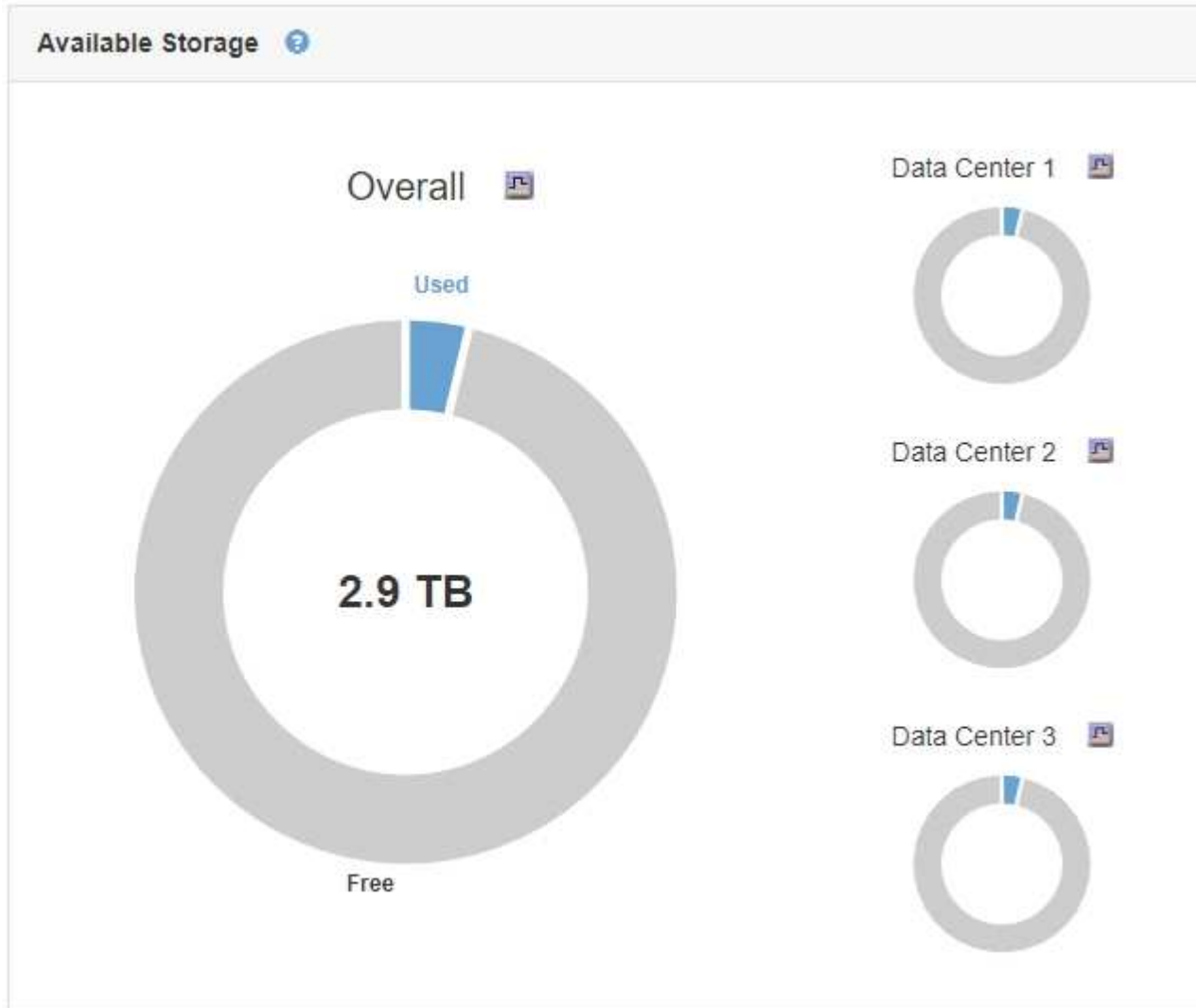
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Types of charts and graphs

Charts and graphs summarize the values of specific StorageGRID metrics and attributes.

The Grid Manager Dashboard includes pie (doughnut) charts to summarize available storage for the grid and each site.



The Storage usage panel on the Tenant Manager Dashboard displays the following:

- A list of the largest buckets (S3) or containers (Swift) for the tenant
- A bar chart that represents the relative sizes of the largest buckets or containers
- The total amount of space used and, if a quota is set, the amount and percentage of space remaining

Dashboard

16 Buckets
[View buckets](#)

2 Platform services
endpoints
[View endpoints](#)

0 Groups
[View groups](#)

1 User
[View users](#)

Storage usage [?](#)

6.5 TB of 7.2 TB used

0.7 TB (10.1%) remaining



Bucket name	Space used	Number of objects
Bucket-15	969.2 GB	913,425
Bucket-04	937.2 GB	576,806
Bucket-13	815.2 GB	957,389
Bucket-06	812.5 GB	193,843
Bucket-10	473.9 GB	583,245
Bucket-03	403.2 GB	981,226
Bucket-07	362.5 GB	420,726
Bucket-05	294.4 GB	785,190
8 other buckets	1.4 TB	3,007,036

Total objects

8,418,886
objects

Tenant details

Name Human Resources
ID 4955 9096 9804 4285 4354

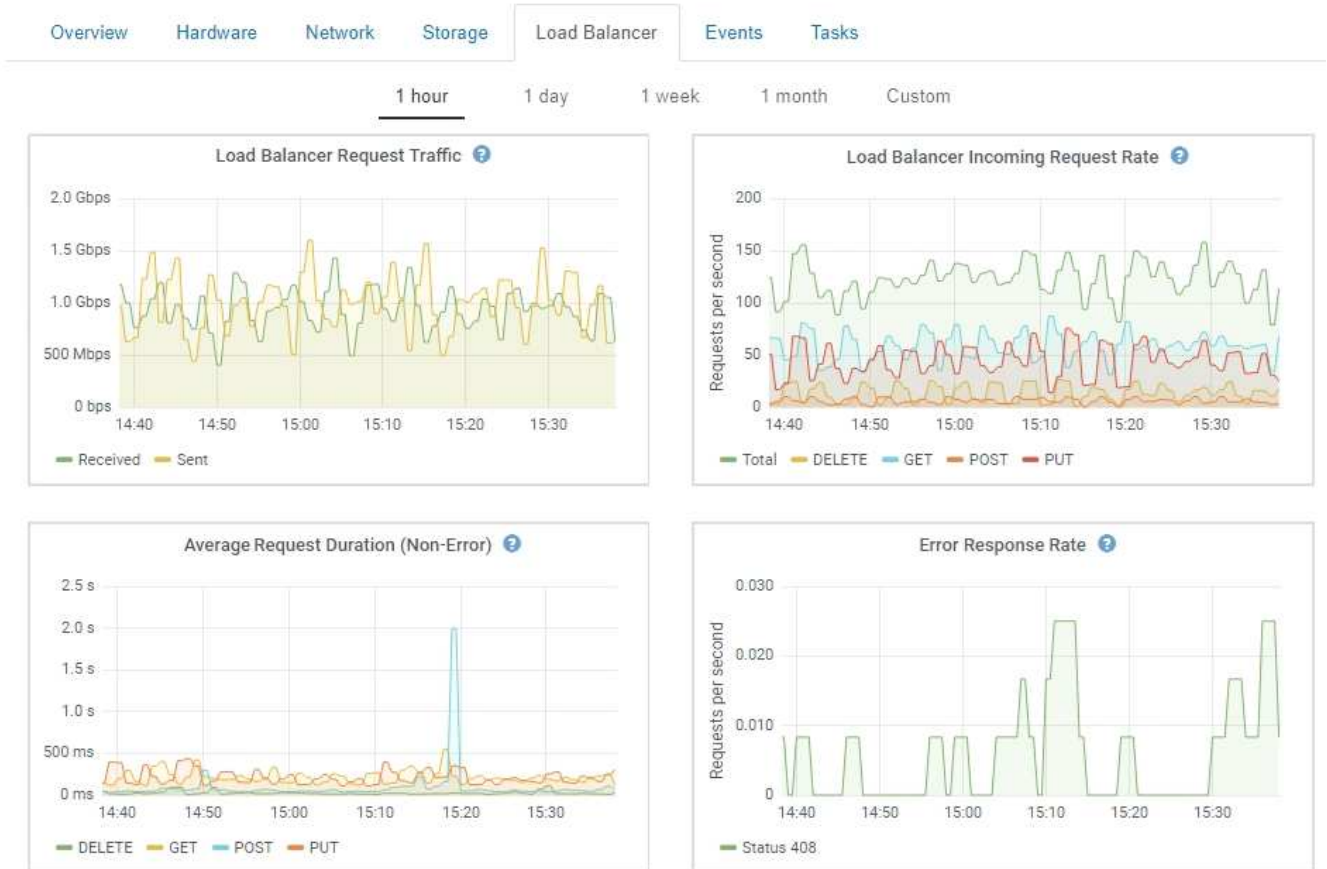
View the instructions for Tenant Manager.

[Go to documentation](#) [↗](#)


In addition, graphs that show how StorageGRID metrics and attributes change over time are available from the Nodes page and from the **Support > Tools > Grid Topology** page.

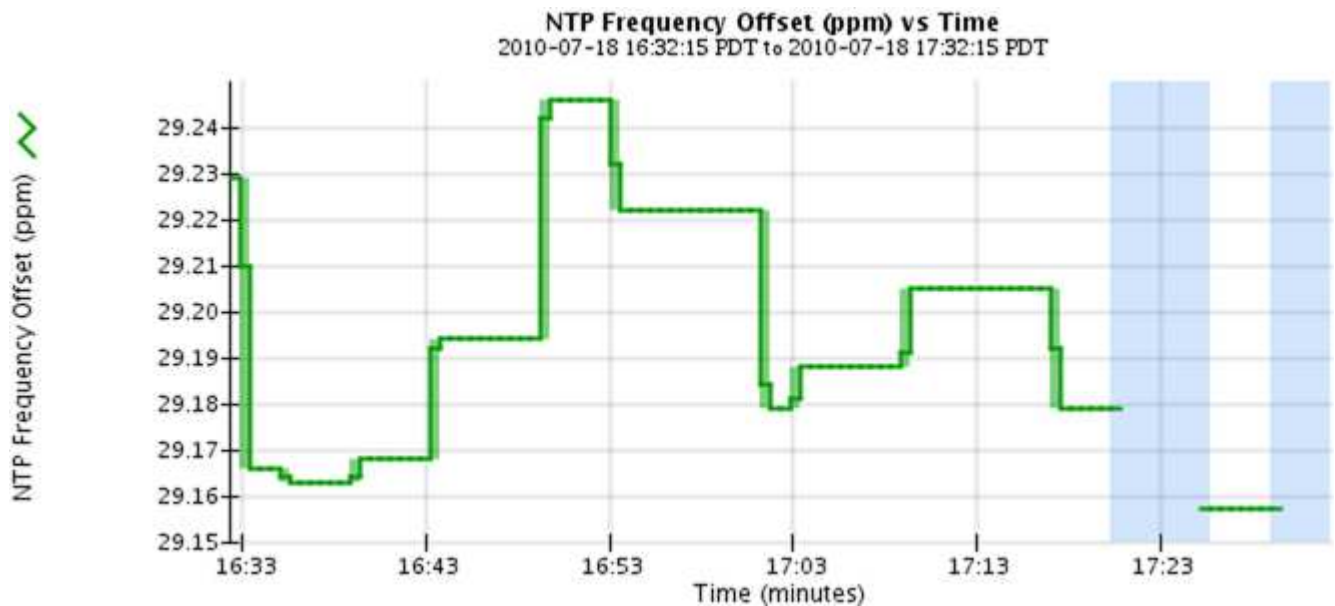
There are four types of graphs:


- **Grafana charts:** Shown on the Nodes page, Grafana charts are used to plot the values of Prometheus metrics over time. For example, the **Nodes > Load Balancer** tab for an Admin Node includes four Grafana charts.

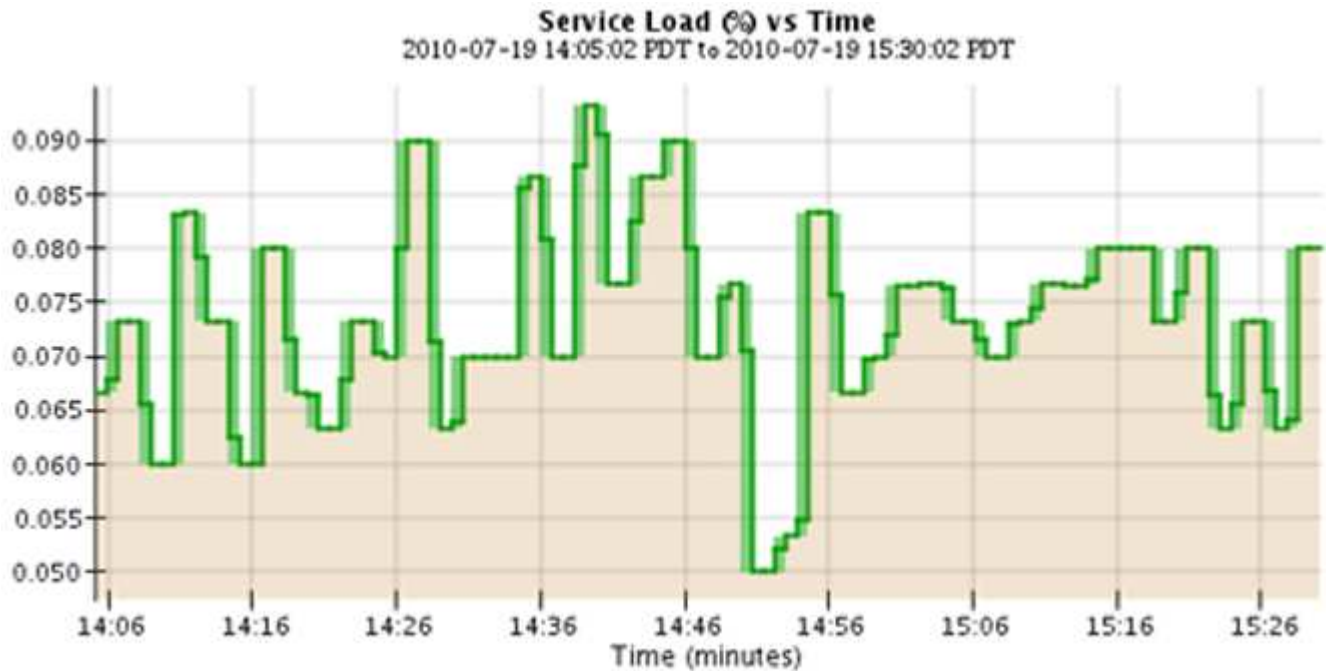


Grafana charts are also included on the pre-constructed dashboards available from the **Support > Tools > Metrics** page.

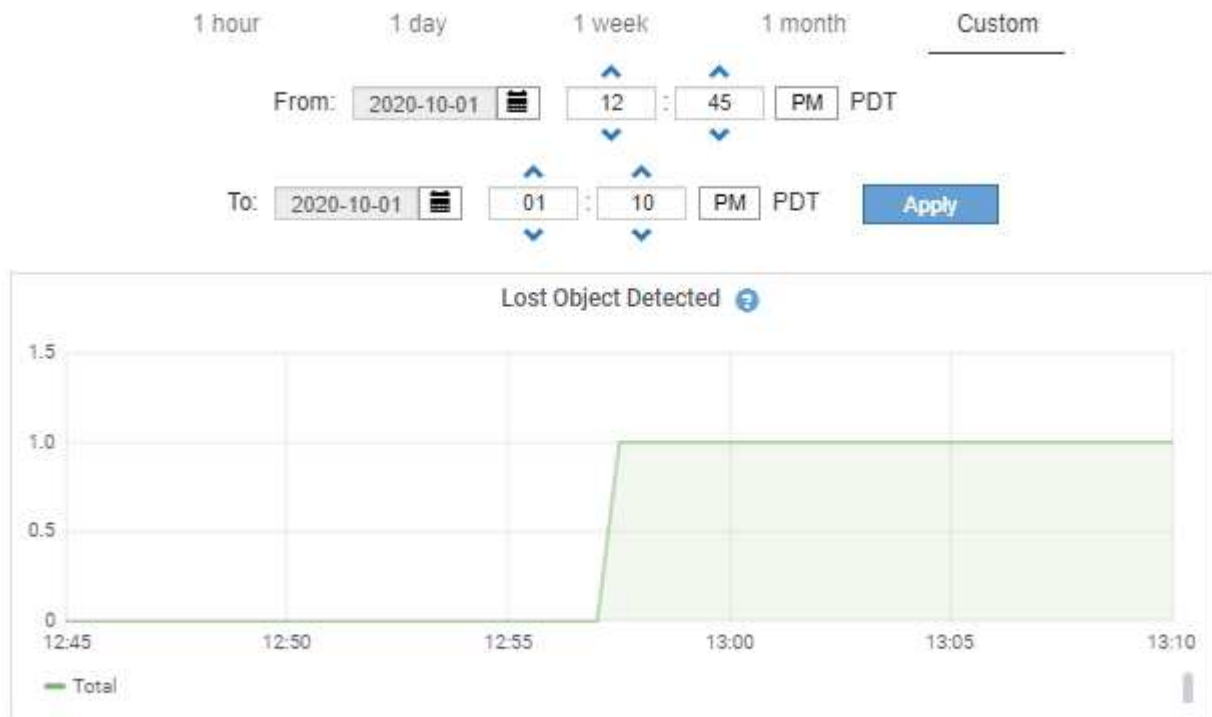
- **Line graphs:** Available from the Nodes page and from the **Support > Tools > Grid Topology** page (click the chart icon  after a data value), line graphs are used to plot the values of StorageGRID attributes that have a unit value (such as NTP Frequency Offset, in ppm). The changes in the value are plotted in regular data intervals (bins) over time.




- **Area graphs:** Available from the Nodes page and from the **Support > Tools > Grid Topology** page (click the chart icon  after a data value), area graphs are used to plot volumetric attribute quantities, such as object counts or service load values. Area graphs are similar to line graphs, but include a light brown shading below the line. The changes in the value are plotted in regular data intervals (bins) over time.

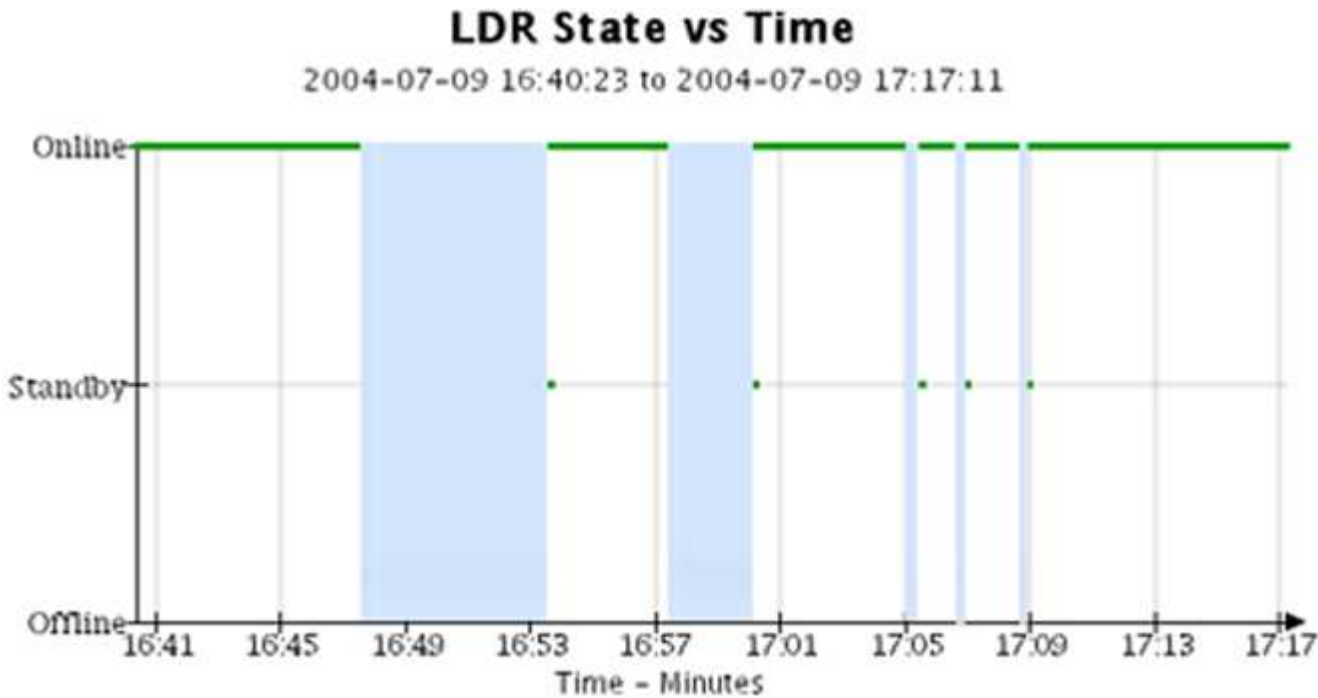


- Some graphs are denoted with a different type of chart icon  and have a different format:



- **State graph:** Available from the **Support > Tools > Grid Topology** page (click the chart icon  after a

data value), state graphs are used to plot attribute values that represent distinct states such as a service state that can be online, standby, or offline. State graphs are similar to line graphs, but the transition is discontinuous; that is, the value jumps from one state value to another.









Related information

- [Viewing the Nodes page](#)
- [Viewing the Grid Topology tree](#)
- [Reviewing support metrics](#)

Chart legend

The lines and colors used to draw charts have specific meaning.

Sample	Meaning
	Reported attribute values are plotted using dark green lines.
	Light green shading around dark green lines indicates that the actual values in that time range vary and have been “binned” for faster plotting. The dark line represents the weighted average. The range in light green indicates the maximum and minimum values within the bin. Light brown shading is used for area graphs to indicate volumetric data.

Sample	Meaning
	Blank areas (no data plotted) indicate that the attribute values were unavailable. The background can be blue, gray, or a mixture of gray and blue, depending on the state of the service reporting the attribute.
	Light blue shading indicates that some or all of the attribute values at that time were indeterminate; the attribute was not reporting values because the service was in an unknown state.
	Gray shading indicates that some or all of the attribute values at that time were not known because the service reporting the attributes was administratively down.
	A mixture of gray and blue shading indicates that some of the attribute values at the time were indeterminate (because the service was in an unknown state), while others were not known because the service reporting the attributes was administratively down.

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