

Nasuni Data Metrics

Nasuni Corporation – Boston, MA

Overview

Nasuni uses a number of data metrics to measure the amount of data that customers store using the Nasuni service. The goal of this document is to clarify the meaning and usage of these data metrics so that customers can understand and plan for their data storage needs.

Details of data limits are described in the Terms of Service, available here:

https://www.nasuni.com/legal/#terms_of_service

“Licensed Data” or “Licensed Capacity” or “Storage Volume Limit”

Licensed Data is sometimes also called “Licensed Capacity” or “Storage Volume Limit” in documents such as the [Nasuni Terms of Service](#).

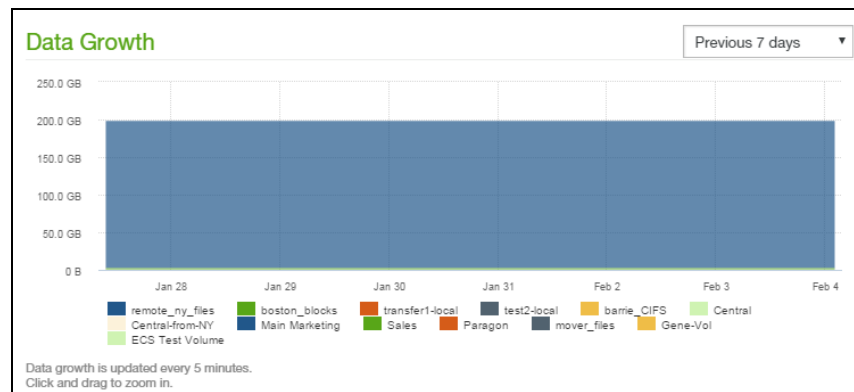
Licensed Data has these characteristics:

- Licensed Data is the amount of data storage that Nasuni is providing to a customer, and that the customer is paying to store within the Nasuni service.
- Every customer has a Licensed Data limit. No customer has unlimited storage. However, every customer has unlimited *versions* of their data available. Since the Nasuni service is inherently unlimited, the Licensed Data limit can easily be changed, as business needs change.
- The default Licensed Data for trial accounts is 5 TB.
- If Data Growth or “now” data (see “*Data Growth or “Now” Data*” below) exceeds the Licensed Data for a Nasuni Filer, the following occur:
 - All the data on the Nasuni Filer remains fully accessible.
 - All versions of data on the Nasuni Filer remain fully accessible.
 - Customers can continue to add data to the Nasuni Filer.
 - Both the customer and Nasuni receive a notification of the condition.
 - The customer may increase the amount of Licensed Data, by purchasing additional storage volume.
 - The customer may reduce the amount of Data Growth or “now” data by removing files, directories, or volumes.



Data Growth or “Now” Data

The Nasuni Filer user interface and the Nasuni Management Console both display a chart of Data Growth or so-called “now” data.



The Data Growth chart shows the total amount of stored data for each volume versus time. You can use the Data Growth chart to monitor the amount of data stored using this Nasuni Filer, and to determine how much data each volume contributes to the total.

You can select the time period of this chart, as well as which volumes to include or exclude. If you hover the mouse over any part of the chart, a label appears displaying details about the amount of data in that volume at that date and time. You can also zoom in on a specific range of displayed data.

Data Growth or “now” data has these characteristics:

- Data Growth or “now” data is the metric that is compared to a customer’s Licensed Data. For example, if the Licensed Data is 10 TB and the Data Growth or “now” data is 11 TB, the data exceeds the license, regardless of any other metric.
However, other metrics might also be part of the license, such as number of Nasuni Filers or number of volumes.
- Data Growth or “now” data is sometimes expressed as a percentage of Licensed Data. For example, if a customer’s Data Growth or “now” data is 90 percent, this means that the amount of Data Growth or “now” data is 90 percent of the Licensed Data.
- Data Growth or “now” data is data contained in a volume on a Nasuni Filer that has been written to the cloud.
- Data Growth or “now” data includes all data in the UniFS®-powered cloud volume, and represents data written by the Nasuni Filer owning the volume, as well as data written by any Nasuni Filers that have also attached to the volume.
- Data Growth or “now” data does not include “New Data in Cache (not yet protected)” from any of the attached Nasuni Filers (see below).

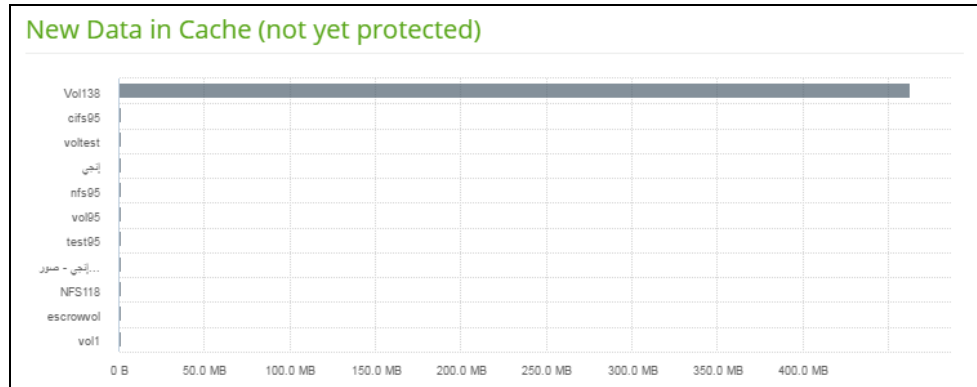


- Data Growth or “now” data includes the current version of data only.
- Data Growth or “now” data does not include previous versions. For example, if there are 20 former versions of a 1-MB document, the Data Growth or “now” data of that document is still only 1 MB, not 20 MB. Nasuni offers unlimited versions of data.
- Data Growth or “now” data does not include deleted data, even though the customer can typically still access the deleted data through previous versions. For example, if a customer has 500 GB in a volume, then deletes 100 GB, their Data Growth or “now” data is 400 GB, even though they can still access all 500 GB of data.
- Data Growth or “now” data includes metadata. Metadata is information about your data, including the contents of folders, names of items, sizes of items, ACLs, owner information, group information, and so forth. The metadata for small files can exceed the size of the file itself, and a collection of many small files can result in a large amount of metadata, although, typically, metadata represents only a small percentage of normal filesystem capacity.
- Data Growth or “now” data is data as you’ve stored it in the Nasuni system. Before data is sent to the cloud, Nasuni breaks data into multiple chunks, then encrypts, compresses, and deduplicates it. Data Growth or “now” data is based on the data *before* any of these size-reducing, security-enhancing, and performance-improving modifications are performed.
Note: Data Growth or “now” data is typically larger than the cloud-optimized data format.

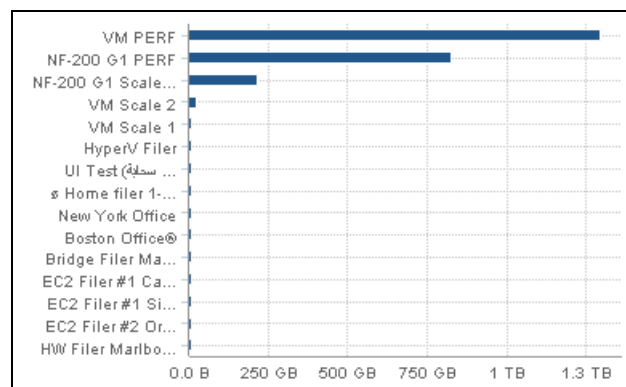


“New Data in Cache (not yet protected)” or Data Not Yet Protected

The Nasuni Filer user interface displays a chart of “New Data in Cache (not yet protected)”.



The Nasuni Management Console displays a chart of Data Not Yet Protected.



Both are bar charts showing the amount of new data in the cache that has not yet been protected in cloud storage. Each volume appears on the vertical axis on the left side. The amount of data for each volume appears as a horizontal bar. If all the data for a volume has already been protected in cloud storage, there is no bar for that volume.

You can use this chart to monitor how much data is present in the cache that has not yet been protected in cloud storage. If you hover the mouse over one of the bars, a label appears, displaying details about the amount of data not yet protected in that Nasuni Filer or volume.

“New Data in Cache (not yet protected)” or Data Not Yet Protected has these characteristics:

- “New Data in Cache (not yet protected)” or Data Not Yet Protected is not included in Data Growth or “Now” Data.
- “New Data in Cache (not yet protected)” or Data Not Yet Protected is not compared to a customer’s Licensed Data.



Questions?

If you have any questions about these data metrics, or how they apply to your account, please contact your Customer Success Manager, or Nasuni Technical Support.