# **■** NetApp

## **ONTAP Essentials**

**Cloud Insights** 

NetApp March 16, 2023

This PDF was generated from https://docs.netapp.com/us-en/cloudinsights/concept\_ontap\_essentials.html on March 16, 2023. Always check docs.netapp.com for the latest.

# **Table of Contents**

NTAP Essentials	1
Overview	1
Data Protection.	2
Alerts	2
Infrastructure	3
Networking	4
Workloads	4

## **ONTAP Essentials**

ONTAP Essentials is a set of dashboards and workflows that provide detailed overviews of your ONTAP inventories and workloads. You may see the following terms used when working in ONTAP Essentials:

- Infrastructure/Inventory: Objects that provide storage/networking services to user data
- Workloads: Objects that provide interface to users to read/write data.
- Data Protection: Objects that can be protected using NetApp data protection technologies

For additional terms and definitions related to ONTAP, see the ONTAP Data Collector documentation.

ONTAP Essentials requires at least one working ONTAP data collector with data collected within the last seven days.

#### **Overview**

To begin exploring, select ONTAP Essentials from the main Cloud Insights menu.



The **Overview** dashboard displays useful information like the number of clusters in your environment with their overall capacity and performance percentages. You will also see predictive data regarding the number of expected days until storage capacity or performance capacity runs out of space. Additionally, if any controllers in your infrastructure are running with their CPU at more than 65%--potentially putting your cluster at risk in case of failover—ONTAP Essentials shows those as "Hot" controllers.

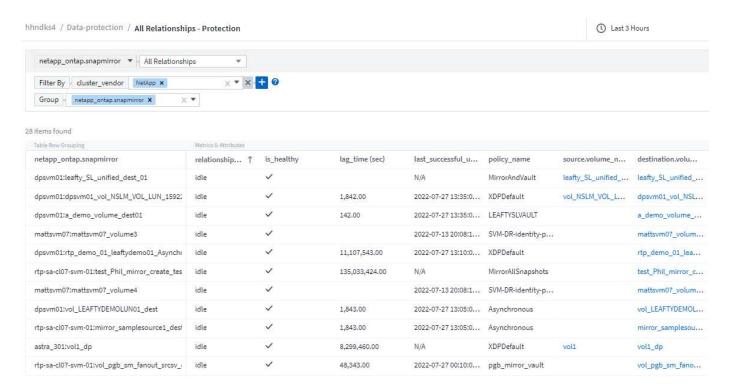
Informative graphs give you a look into performance over time as well as breakdowns of capacity usage.

Each of these graphs or data points can be used as a starting point for exploration or investigation.

Note: A "days to full" number of "0" (zero) indicates that days to full is estimated at greater than 90 days. In other words, your systems aren't in danger of running out of space any time soon.

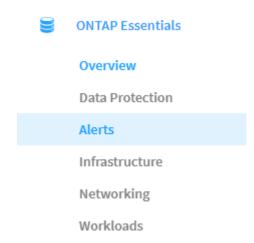
#### **Data Protection**

Select the **Data Protection** page to view SnapMirror relationships. Click through to source or destination volume information, or click the gear icon to add columns for the data you wish to view.



### **Alerts**

Here you can view the Active alerts in your environment and quickly drill down into potential problems. Select the *Resolved* tab to view alerts that have been resolved.





#### Infrastructure

The ONTAP Essentials **Infrastructure** page gives you a view of cluster health and performance, using pre-built (yet further customizable) queries on all the basic ONTAP objects. Select the object type you wish to explore (cluster, storage pool, etc.) and choose whether to view health or performance information. Set filters to dive deeper into individual systems.



Infrastructure page showing cluster health:



## **Networking**

ONTAP Essentials Networking gives you views into your FC, NVME FC, Ethernet, and iSCSI infrastructure. On these pages you can explore things like ports in your clusters and their nodes.



## **Workloads**

View and explore workloads on LUNs/Volumes, NFS or SMB Shares, or Qtrees in your environment.





13 items found 0 Table Row Grouping netapp\_ontap.lun total\_late... † total\_iops (IO/s) total\_through... size (B) size\_used (B) volume vserver\_name aggregate\_name node /vol/ste/ste 0.00 0.00 0.00 53,694,627,840.... 0.00 vs\_test umeng\_aff300... /vol/kubebug/kubebuglun1 0.00 0.00 0.00 85,905,637,376.... 1,489,985,536.00 umeng\_aff300... kubebug vs\_test /vol/trident\_pvc\_3ef5a87c\_4149\_44e8\_8113... 0.00 0.00 0.00 1,073,741,824.00 0.00 umeng\_aff300... ur trident\_pvc\_3e... vs\_test /vol/trident\_pvc\_0bf4ffd4\_3f11\_4d63\_aa01\_... 0.00 0.00 1,073,741,824.00 0.00 trident\_pvc\_0b... vs\_test umeng\_aff300... ur 0.00 /vol/NSLM\_VOL\_LUN\_1597772263794/matts... NSLM\_VOL\_LU... VMware\_test 0.00 0.00 0.00 1,073,741,824.00 0.00 aggr\_data\_01\_... rt /vol/mattlun12345/mattlun12345 0.00 0.00 1,073,741,824.00 mattlun12345 VMware\_test aggr\_data\_01\_... rt /vol/kubebug1/kubebuglun2 0.00 0.00 0.00 85,904,826,368.... 0.00 kubebug1 vs\_test umeng\_aff300... ui umeng\_aff300... /vol/trident\_pvc\_d66d7f51\_a623\_4fc3\_8cda... 0.00 0.00 0.00 1,073,741,824.00 0.00 trident\_pvc\_d6... vs\_test /vol/Rah/Rah 57,576,960.00 Rah umeng\_aff300... ui 0.00 0.00 0.00 0.00 vs\_test /vol/chap\_test\_lun\_vol/chap\_test\_lun 0.00 0.00 0.00 107,374,182,40... 0.00 chap\_test\_lun\_... VMware\_test aggr\_data\_01\_... rt /vol/windows\_iscsi\_example/windows\_iscsi... 0.00 1.04 1,073,741,824.00 10,911,744.00 windows\_iscsi... VMware\_test aggr\_data\_01\_... rt 0.00 /vol/vol\_test/lun1 1,073,741,824.00 0.00 umeng\_aff300... ui 0.10 0.00 vol test vs test 0.04 umeng\_aff300... ui /vol/osc\_iscsi\_vol01/osc\_iscsi\_vol01 2.11 116.83 4,398,046,511,1... 2,535,381,008,3... osc\_iscsi\_vol01 2,737,374,33 OSC

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