



# **Cloud Manager release notes**

## **Release Notes**

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# Cloud Manager release notes

# Recent changes in Cloud Manager

Learn about the most recent changes to the cloud services that are part of the Cloud Manager platform. For more details, go to the [full set of release notes](#) for each individual service.

## Administrative features

This section describes new features related to Cloud Manager's administration features: Accounts, Connectors, cloud provider credentials, and more.

### 27 Feb 2022

#### Connector enhancement in Google Cloud

When you create a new Connector in Google Cloud, Cloud Manager will now display all of your existing firewall policies. Previously, Cloud Manager wouldn't display any policies that didn't have a target tag.

### 30 Jan 2022

#### Reminder about NetApp Support Site accounts

As a reminder, NetApp now uses Microsoft Azure Active Directory as the identity provider for authentication services specific to support and licensing. As a result of this update, Cloud Manager will prompt you to update the NetApp Support Site (NSS) credentials for any existing accounts that you previously added.

If you haven't yet migrated your NSS account to IDaaS, you first need to migrate the account and then update your credentials in Cloud Manager.

- [Learn more about NetApp's use of Microsoft Azure AD for identity management](#)
- [Learn how to update an NSS account to the new authentication method](#)

### 2 Jan 2022

#### Reduced endpoints for the Connector

We reduced the number of endpoints that a Connector needs to contact in order to manage resources and processes within your public cloud environment.

[View the list of required endpoints.](#)

#### EBS disk encryption for the Connector

When you deploy a new Connector in AWS from Cloud Manager, you can now choose to encrypt the Connector's EBS disks using the default master key or a managed key.

[A screenshot that shows the disk encryption option when creating a Connector in AWS.]

#### Email address for NSS accounts

Cloud Manager can now display the email address that's associated with a NetApp Support Site account.

[A screenshot that shows the action menu for a NetApp Support Site account which includes the ability to display the email address.]

## Azure NetApp Files

**11 Apr 2021**

### Support for volume templates

A new Application Templates service enables you to set up a volume template for Azure NetApp Files. The template should make your job easier because certain volume parameters will already be defined in the template, such as capacity pool, size, protocol, VNet and subnet where the volume should reside, and more. When a parameter is already predefined, you can just skip to the next volume parameter.

- [Learn about Application Templates and how you can use them in your environment](#)
- [Learn how to create an Azure NetApp Files volume from a template](#)

**8 Mar 2021**

### Dynamically change service levels

You can now dynamically change the service level for a volume to meet workload needs and optimize your costs. The volume is moved to the other capacity pool with no impact to the volume.

[Learn how to change a volume's service level.](#)

**3 Aug 2020**

### Azure NetApp Files set up and management

Set up and manage Azure NetApp Files directly from Cloud Manager. After you create an Azure NetApp Files working environment, you can complete the following tasks:

- Create NFS and SMB volumes.
- Manage capacity pools and volume snapshots

Cloud Manager enables you to create, delete, and restore volume snapshots. You can also create new capacity pools and specify their service levels.

- Edit a volume by changing its size and managing tags.

The ability to create and manage Azure NetApp Files directly from Cloud Manager replaces the previous data migration functionality.

## Amazon FSx for ONTAP

**27 February 2022**

### Assume IAM role

When you create an FSx for ONTAP working environment, you now must provide the ARN of an IAM role that

Cloud Manager can assume to create an FSx for ONTAP working environment. You previously needed to provide AWS access keys.

[Learn how to set up permissions for FSx for ONTAP.](#)

## 31 October 2021

### Create iSCSI volumes using Cloud Manager API

You can create iSCSI volumes for FSx for ONTAP using the Cloud Manager API and manage them in your working environment.

### Select volume units when creating volumes

You can [select volume units \(GiB or TiB\) when creating volumes](#) in FSx for ONTAP.

## 4 October 2021

### Create CIFS volumes using Cloud Manager

Now you can [create CIFS volumes in FSx for ONTAP using Cloud Manager](#).

### Edit volumes using Cloud Manager

Now you can [edit FSx for ONTAP volumes using Cloud Manager](#).

# Application Template

## 3 March 2022

### Now you can build a Template to find specific working environments.

Using the "Find Existing Resources" action you can identify the working environment, and then use other template actions, such as creating a volume, to easily perform actions on existing working environments. [Go here for details.](#)

### Ability to create a Cloud Volumes ONTAP HA working environment in AWS.

The existing support for creating a Cloud Volumes ONTAP working environment in AWS has been expanded to include creating a high-availability system in addition to a single-node system. [See how to create a template for a Cloud Volumes ONTAP working environment.](#)

## 9 February 2022

### Now you can build a Template to find specific existing volumes and then enable Cloud Backup.

Using the new "Find Resource" action you can identify all the volumes on which you want to enable Cloud Backup, and then use the Cloud Backup action to enable backup on those volumes.

Current support is for volumes on Cloud Volumes ONTAP and on-premises ONTAP systems. [Go here for details.](#)

**31 October 2021**

**Now you can tag your Sync relationships so you can group or categorize them for easy access.**

[Learn more about resource tagging.](#)

## Cloud Backup

**03 April 2022**

### **Support for Cloud Backup for Applications 1.1.0**

You can integrate Cloud Backup for Applications with Cloud Manager and on-premises SnapCenter to back up the application consistent Snapshots from on-premises ONTAP to cloud. When required you can restore from cloud to on-premises SnapCenter Server.

You can back up Oracle and Microsoft SQL applications data from on-premises ONTAP to either Amazon Web Services or Microsoft Azure.

[Learn more about protecting on-premises applications data to cloud.](#)

### **New Search & Restore feature to search for volumes or files across all ONTAP backup files.**

Now you can search for a volume or file across **all ONTAP backup files** by partial or full volume name, partial or full file name, size range, and additional search filters. This is a great new way to find the data you want to restore if you are not sure which cluster or volume was the source for the data. [Learn how to use Search & Restore.](#)

**03 March 2022**

### **Ability to back up persistent volumes from your GKE Kubernetes clusters to Google Cloud storage.**

If your GKE cluster has NetApp Astra Trident installed, and it's using Cloud Volumes ONTAP for GCP as backend storage for the cluster, then you can back up and restore your persistent volumes to and from Google Cloud storage. [Go here for details.](#)

**The Beta capability to use Cloud Data Sense to scan your Cloud Backup files has been discontinued in this release.**

**14 February 2022**

### **Now you can assign backup policies to individual volumes in a single cluster.**

In the past you could assign only a single backup policy to all volumes in a cluster. Now you can create multiple backup policies for a single cluster and apply different policies to different volumes. [See how to create new backup policies for a cluster and assign them to selected volumes.](#)

### **A new option enables you to automatically apply a default backup policy to newly created volumes.**

In the past, new volumes created in a working environment after Cloud Backup was activated required that you manually apply a backup policy. Now, regardless of if the volume was created in Cloud Manager, System Manager, the CLI, or by using APIs, Cloud Backup will discover the volume and apply the backup policy you have chosen as the default policy.

This option is available when enabling backup in a new working environment, or from the *Manage Volumes* page for existing working environments.

**New Job Monitor is available to see the in-process status of all backup and restore jobs.**

The Job Monitor can be very helpful when you have initiated an operation against multiple volumes, like changing the backup policy, or deleting backups, so you can see when the operation has completed on all volumes. [See how to use the Job Monitor.](#)

## Cloud Data Sense

**15 March 2022**

**New Filter to show the files to which a specific user or a group has read or write permissions.**

A new Filter called "User / Group Permissions" has been added so you can list the files that a specific user or a group has read and/or write permissions to. You can specify a user name or group name - or partial name. This functionality is available for volumes on Cloud Volumes ONTAP, on-prem ONTAP, Azure NetApp Files, Amazon FSx for ONTAP, and File Shares.

**Data Sense can determine the permissions for files in SharePoint and OneDrive accounts.**

Data Sense can read the permissions that exist for files that are being scanned in OneDrive accounts and SharePoint accounts now. This information appears in the Investigation pane details for files and in the Open Permissions area in the Governance Dashboard.

**Two additional types of personal data can be identified by Data Sense.**

- French INSEE - The INSEE code is a numerical code used by the French National Institute for Statistics and Economic Studies (INSEE) to identify various entities.
- Passwords - This information is identified using proximity validation by looking for permutations of the word "password" next to an alphanumeric string. The number of items found will be listed under "Personal Results" in the Compliance Dashboard. You can search for files that contain passwords in the Investigation pane using the Filter **Personal Data > Password**.

**The Beta capability to use Cloud Data Sense to scan your Cloud Backup files has been discontinued in this release.**

**9 February 2022**

**Added support for scanning Microsoft SharePoint online accounts.**

Now you can add your SharePoint online accounts to Data Sense in order to scan the documents and files from your SharePoint sites. [See how to scan your SharePoint accounts.](#)

**Data Sense can copy files from a data source to a target location and synchronize those files.**

This is helpful for situations where you're migrating data and you want to catch any last changes that are being made to the files. This action uses the [NetApp Cloud Sync](#) functionality to copy and sync data from a source to a target.

[See how to copy and sync files.](#)



## **New language support for DSAR reports.**

German and Spanish are now supported when searching for names of data subjects in order to create Data Subject Access Request (DSAR) reports. This report is designed to aid in your organization's requirement to comply with GDPR or similar data privacy laws.

## **Three additional types of personal data can be identified by Data Sense.**

Data Sense can now find French social security numbers, French IDs, and French driver license numbers in files. [See the list of all personal data types that Data Sense identifies in scans.](#)

## **Security group port changed for Data Sense communication to the Connector.**

The security group for the Cloud Manager Connector will use port 443 instead of port 80 for inbound and outbound traffic to and from the Data Sense instance for added security. Both ports remain open at this time, so you shouldn't see any issues, but you should update the security group in any older deployments of the Connector as port 80 will be deprecated in a future release.

## **2 January 2022**

### **Ability to integrate a global Active Directory to identify file owners and permissions.**

Now you can integrate a global Active Directory with Cloud Data Sense to enhance the results that Data Sense reports about file owners and which users and groups have access to your files.

In addition to the Active Directory credentials you enter so that Data Sense can scan CIFS volumes from certain data sources, this new integration provides as additional integration for other users and systems. Data Sense will look in all integrated Active Directories for user and permission details. [See how to set up your global Active Directory.](#)

### **Data Sense "policies" can now be used to delete files.**

Data Sense can automatically delete files that match the query that you define in a Policy. [See how to create custom Policies.](#)

## **Cloud Sync**

### **03 Mar 2022**

#### **Sorting in the dashboard**

You now sort the dashboard by sync relationship name.

[A screenshot that shows the Sort by name option that is available from the dashboard.]

#### **Enhancement to Data Sense integration**

In the previous release, we introduced Cloud Sync integration with Cloud Data Sense. In this update, we enhanced the integration by making it easier to create the sync relationship. After you initiate a data sync from Cloud Data Sense, all of the source information is contained in a single step and only requires you to enter a few key details.

[A screenshot that shows the Data Sense Integration page that appears after starting a new sync directly from

## 06 Feb 2022

### Enhancement to data broker groups

We changed how you interact with data brokers by emphasizing data broker *groups*.

For example, when you create a new sync relationship, you select the data broker *group* to use with the relationship, rather than a specific data broker.

[A screenshot of the Sync Relationship wizard that shows the data broker group selection.]

In the **Manage Data Brokers** tab, we also show the number of sync relationships that a data broker group is managing.

[A screenshot of the Manage Data Brokers page that shows a data broker group and details about that group, including the number of relationships that it's managing.]

### Download PDF reports

You can now download a PDF of a report.

[Learn about reports.](#)

## 02 Jan 2022

### New Box sync relationships

Two new sync relationships are supported:

- Box to Azure NetApp Files
- Box to Amazon FSx for ONTAP

[View the list of supported sync relationships.](#)

### Relationship names

You can now provide a meaningful name to each of your sync relationships to more easily identify the purpose of each relationship. You can add the name when you create the relationship and any time after.

[A screenshot of a sync relationship that shows the edit button that's next to the name of a relationship.]

### S3 private links

When you sync data to or from Amazon S3, you can choose whether to use an S3 private link. When the data broker copies data from the source to the target, it goes through the private link.

Note that the IAM role associated with your data broker will need the following permission to use this feature:

```
"ec2:DescribeVpcEndpoints"
```

This permission is automatically added to any new data brokers that you create.

### Glacier Instant Retrieval

You can now choose the *Glacier Instant Retrieval* storage class when Amazon S3 is the target in a sync relationship.

### ACLs from object storage to SMB shares

Cloud Sync now supports copying ACLs from object storage to SMB shares. Previously, we only supported copying ACLs from an SMB share to object storage.

### SFTP to S3

Creating a sync relationship from SFTP to Amazon S3 is now supported in the user interface. This sync relationship was previously supported with the API only.

### Table view enhancement

We redesigned the table view on the Dashboard for ease of use. If you click **More info**, Cloud Sync filters the dashboard to show you more information about that specific relationship.

[A screenshot of the table view in the Dashboard.]

### Support for Jarkarta region

Cloud Sync now supports deploying the data broker in the AWS Asia Pacific (Jakarta) region.

## Cloud Tiering

### 4 April 2022

#### Amazon S3 Glacier Instant Retrieval storage class is now available.

When setting up Cloud Tiering, now you can configure a lifecycle rule so your inactive data transitions from the *Standard* storage class to *Glacier Instant Retrieval* after a certain number of days. This will help reduce your AWS infrastructure costs.

### 2 September 2021

#### Cloud Tiering BYOL license replaces FabricPool license.

A new **Cloud Tiering** license is now available for tiering configurations that are supported within Cloud Manager using the Cloud Tiering service. It is a floating license that you can use across multiple on-premises ONTAP clusters. The **FabricPool** license that you may have used in the past is retained only for configurations that aren't supported within Cloud Manager.

[Learn more about the new Cloud Tiering license.](#)

#### Tier inactive data from on-prem ONTAP clusters to S3-compatible object storage.

Now you can tier inactive data to any Object Storage service which uses the Simple Storage Service (S3) protocol. [See how to tier data to S3-compatible object storage.](#)

**7 July 2021**

**The Connector can be running on premises when tiering data to Azure Blob storage.**

You are no longer required to use a Connector installed in an Azure VNet. Your Connector can be running on a host in your premises when tiering data to Azure Blob storage.

## Cloud Volumes ONTAP

**27 Feb 2022 (Connector 3.9.16)**

### Redesigned volume wizard

The create new volume wizard that we recently introduced is now available when creating a volume on a specific aggregate from the **Advanced allocation** option.

[Learn how to create volumes on a specific aggregate.](#)

**9 Feb 2022**

### Marketplace updates

- The Essentials package and Professional package are now available in the AWS and Google Cloud Marketplaces.

These by-capacity charging methods enable you to pay by the hour or to purchase an annual contract directly from your cloud provider. You still have the option to purchase a by-capacity license directly from NetApp.

If you have an existing subscription in a cloud marketplace, you're automatically subscribed to these new offerings as well. You can choose by-capacity charging when you deploy a new Cloud Volumes ONTAP working environment.

If you're a new customer, Cloud Manager will prompt you to subscribe when you create a new working environment.

- By-node licensing via the AWS and Google Cloud Marketplaces is deprecated and no longer available for new subscribers. This includes annual contracts and hourly subscriptions (Explore, Standard, and Premium).

This charging method is still available for existing customers who have an active subscription.

[Learn more about the licensing options for Cloud Volumes ONTAP.](#)

**6 Feb 2022**

### Exchange unassigned licenses

If you have an unassigned node-based license for Cloud Volumes ONTAP that you haven't used, you can now exchange the license by converting it to a Cloud Backup license, Cloud Data Sense license, or Cloud Tiering license.

This action revokes the Cloud Volumes ONTAP license and creates a dollar-equivalent license for the service

with the same expiry date.

[Learn how to exchange unassigned node-based licenses.](#)

## Cloud Volumes Service for GCP

9 Sept 2020

### Support for Cloud Volumes Service for Google Cloud

You can now manage Cloud Volumes Service for Google Cloud directly from Cloud Manager:

- Set up and create a working environment
- Create and manage NFSv3 and NFSv4.1 volumes for Linux and UNIX clients
- Create and manage SMB 3.x volumes for Windows clients
- Create, delete, and restore volume snapshots

## Compute

7 Dec 2020

### Navigation between Cloud Manager and Spot

It's now easier to navigate between Cloud Manager and Spot.

A new **Storage Operations** section in Spot enables you to navigate directly to Cloud Manager. After you're done, you can get back to Spot from the **Compute** tab in Cloud Manager.

18 Oct 2020

### Introducing the Compute service

By leveraging [Spot's Cloud Analyzer](#), Cloud Manager can now provide a high-level cost analysis of your cloud compute spending and identify potential savings. This information is available from the **Compute** service in Cloud Manager.

[Learn more about the Compute service.](#)

[A screenshot that shows the Cost Analysis page in Cloud Manager]

## Connector

Unresolved directive in whats-new.adoc - include::https://raw.githubusercontent.com/NetAppDocs/cloud-manager-connector/main/whats-new.adoc[tag=whats-new,leveloffset=+1]

## Global File Cache

## **17 December 2021 (version 1.2.0)**

**The OpenSSL module has been upgraded to version 1.1.1l.**

This is the latest version and it is more secure. This module is used for secure communication between GFC Edge and GFC Core.

**The logging infrastructure has been enhanced.**

## **9 June 2021 (version 1.1.0)**

**The "Edge Synchronization" feature has been added.**

This feature keeps multiple Edges at a remote office in sync and the data is always cached/warm. When a file is flushed/fetched at one Edge, then the same file on all Edges participating in Edge Sync is updated and cached. See section 8.4 in the [NetApp Global File Cache User Guide](#) for details.

**The OpenSSL module has been upgraded to version 1.1.1k.**

This is the latest version and it is more secure. This module is used for secure communication between GFC Edge and GFC Core.

**Updated License Registration Page.**

The GFC License Registration Page now displays the number of licenses when activated through a NetApp subscription.

## **21 March 2021 (version 1.0.3)**

**Software installer updates to automatically exclude GFC process from Windows Defender.**

The Global File Cache software installer now excludes all GFC processes from Windows Defender software on-demand scanning.

**A new Policy Configuration tab has been added to the Configuration Console.**

This configuration tab enables you to add pre-population jobs from the GFC Core.

**Enhanced the software to use less memory while increasing performance and stability.**

# **Kubernetes**

## **27 Feb 2022**

**Support for Kubernetes clusters in Google Cloud**

You can now add and manage managed Google Kubernetes Engine (GKE) clusters and self-managed Kubernetes clusters in Google Cloud using Cloud Manager.

[Learn how to get started with Kubernetes clusters in Google Cloud.](#)

**11 Jan 2022**

### **Support for Kubernetes clusters in Azure**

You can now add and manage managed Azure Kubernetes clusters (AKS) and self-managed Kubernetes clusters in Azure using Cloud Manager.

[Getting started with Kubernetes clusters in Azure](#)

**28 Nov 2021**

### **Support for Kubernetes clusters in AWS**

You can now add your managed-Kubernetes clusters to Cloud Manager's Canvas for advanced data management.

- Discover Amazon EKS clusters
- Back up persistent volumes using Cloud Backup

[Learn more about Kubernetes support.](#)



The existing Kubernetes service (available through the **K8s** tab) has been deprecated and will be removed in a future release.

## **Monitoring**

**1 Aug 2021**

### **Change to Acquisition Unit name**

We changed the default name of the Acquisition Unit instance to `CloudInsights-AU-UUID` so that the name is more descriptive (the UUID is a generated hash).

Cloud Manager deploys this instance when you enable the Monitoring service on a Cloud Volumes ONTAP working environment.

**5 May 2021**

### **Support for existing tenants**

You can now enable the Monitoring service on a Cloud Volumes ONTAP working environment even if you have an existing Cloud Insights tenant.

### **Free Trial transition**

When you enable the Monitoring service, Cloud Manager sets up a free trial of Cloud Insights. On the 29th day, your plan now automatically transitions from the Trial Version to the [Basic Edition](#).

**9 Feb 2021**

## Support in Azure

The Monitoring service is now supported with Cloud Volumes ONTAP for Azure.

## Support in Government regions

The Monitoring service is also supported in Government regions in AWS and Azure.

# NetApp accounts

Unresolved directive in whats-new.adoc - include::https://raw.githubusercontent.com/NetAppDocs/cloud-manager-accounts/main/whats-new.adoc[tag=whats-new,leveloffset=+1]

# On-prem ONTAP clusters

## 27 February 2022

**An "On-Premises ONTAP" tab is available in the Digital Wallet.**

Now you can view an inventory of your on-prem ONTAP clusters along with their hardware and service contracts expiration dates. Additional details about the clusters are also available.

[See how to view this important on-prem cluster information.](#) You'll need to have a NetApp Support Site account (NSS) for the clusters, and the NSS credentials will need to be attached to your Cloud Manager account.

## 11 January 2022

**Tags that you add to volumes on on-prem ONTAP clusters can be use with the Tagging service.**

Tags that you add to a volume are now associated with the tagging feature of the Application Templates service, which can help you organize and simplify the management of your resources.

## 28 November 2021

**Create volume wizard for on-prem ONTAP clusters has been simplified**

We redesigned the create volume wizard for ease of use and you can now choose a custom export policy.

# Ransomware Protection

## 15 March 2022

**New panel to track the permissions status of your business critical data**

A new panel "Business critical data permissions analysis" shows the permissions status of data that is critical for your business. That way you can quickly assess how well you are protecting your business-critical data. [Go here for details.](#)

**Open Permissions area now includes OneDrive and SharePoint accounts**

The Open Permissions area in the Ransomware Protection Dashboard now includes the permissions that exist



for files that are being scanned in OneDrive accounts and SharePoint accounts.

## 9 February 2022

### New Ransomware Protection service

The new Ransomware Protection service enables you to view relevant information about cybersecurity and assess how resilient your data is to a cyber attack. It also provides you with a list of alerts and remediations for making your data more secure.

[Learn more about this new service.](#)

## Replication

### 2 Sept 2021

#### Support for Amazon FSx for ONTAP

You can now replicate data from a Cloud Volumes ONTAP system or an on-premises ONTAP cluster to an Amazon FSx for ONTAP file system.

### 5 May 2021

#### Redesigned interface

We redesigned the Replication tab for ease of use and to match the current look and feel of the Cloud Manager user interface.

[A screenshot of the redesigned Replication tab in Cloud Manager that shows a list of volume relationships.]

## SnapCenter Service

### 21 Dec 2021

#### Fixes for Apache Log4j vulnerabilities

SnapCenter Service 1.0.1 upgrades Apache Log4j from version 2.9.1 to 2.17 to address the following vulnerabilities: CVE-2021-44228, CVE-2021-4104, and CVE-2021-45105.

The SnapCenter Service cluster should auto-update to the latest version. You should ensure that the version in the SnapCenter Service UI shows that the cluster is 1.0.1.1251 or later.

# Release notes index

View the full set of release notes for each individual service.

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