



BlueXP release notes

Release Notes

NetApp
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Table of Contents

BlueXP release notes	1
Recent changes in BlueXP	2
Administrative features	2
Azure Blob storage	4
Azure NetApp Files	4
Amazon FSx for ONTAP	5
Amazon S3 storage	6
Backup and recovery	6
Classification	8
Cloud Volumes ONTAP	8
Cloud Volumes Service for Google Cloud	9
Cloud ops	10
Copy and sync	10
Digital advisor	11
Digital wallet	12
Disaster recovery	13
E-Series systems	15
Economic efficiency	15
Edge caching	16
Google Cloud Storage	17
Kubernetes	17
Migration reports	17
On-prem ONTAP clusters	18
Operational resiliency	18
Ransomware protection	19
Remediation	19
Replication	20
StorageGRID	21
Tiering	21
Volume caching	22
Release notes index	23
Administration	23
Storage	23
Data services	23
Legal notices	25
Copyright	25
Trademarks	25
Patents	25
Privacy policy	25
Open source	25

BlueXP release notes

Recent changes in BlueXP

Learn about the most recent changes to the cloud services that are part of the BlueXP 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 BlueXP administration features: Accounts, Connectors, cloud provider credentials, and more.

26 March 2024

Private mode release (3.9.38)

A new private mode release is now available for BlueXP. This release includes the following versions of the BlueXP services that are supported with private mode.

Service	Version included
Connector	3.9.38
Backup and recovery	12 March 2024
Classification	4 March 2024
Cloud Volumes ONTAP management	8 March 2024
Digital wallet	30 July 2023
On-premises ONTAP cluster management	30 July 2023
Replication	18 Sept 2022

This new release is available to download from the NetApp Support Site.

- [Learn about private mode](#)
- [Learn how to get started with BlueXP in private mode](#)
- [Learn how to upgrade the Connector when using private mode](#)

8 March 2024

Connector 3.9.38

At this time, the 3.9.38 release is available for standard mode and restricted mode. This release includes support for IMDSv2 in AWS and an AWS permissions update.

Support for IMDSv2

BlueXP now supports the Amazon EC2 Instance Metadata Service Version 2 (IMDSv2) with the Connector instance and with Cloud Volumes ONTAP instances. IMDSv2 provides enhanced protection against vulnerabilities. Only IMDSv1 was previously supported.

[Learn more about IMDSv2 from the AWS Security Blog](#)

The Instance Metadata Service (IMDS) is enabled as follows on EC2 instances:

- For new Connector deployments from BlueXP, from the AWS Marketplace, or using [Terraform scripts](#), IMDSv2 is enabled by default on the EC2 instance.
- If you launch a new EC2 instance in AWS and then manually install the Connector software, IMDSv2 is also enabled by default.
- For existing Connectors, IMDSv1 is still supported but you can manually configure IMDSv2 on the EC2 instance if you prefer.
- For Cloud Volumes ONTAP, IMDSv1 is enabled by default on new and existing instances. You can manually configure IMDSv2 on the EC2 instances if you prefer.

[Learn how to configure IMDSv2 on existing instances.](#)

AWS permissions update

We updated the Connector policy for AWS to include the "ec2:DescribeAvailabilityZones" permission. This permission is required for an upcoming release. We'll update the release notes with more details when that release is available.

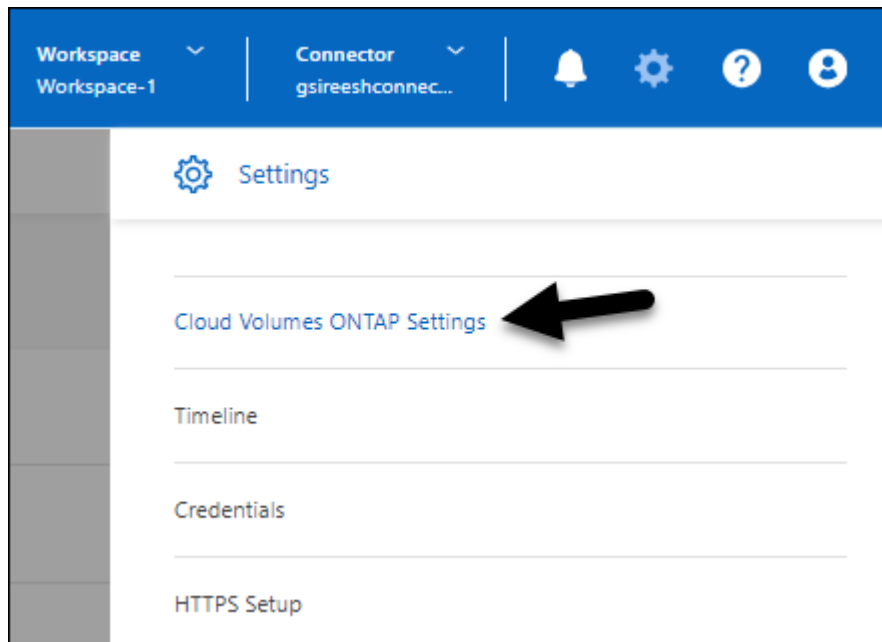
[View AWS permissions for the Connector.](#)

Proxy settings and Cloud Volumes ONTAP settings

Proxy server settings for the Connector are now available from the **Manage Connectors** page (standard mode) or the **Edit Connectors** page (restricted mode and private mode).

[Learn how to configure the Connector to use a proxy server.](#)

In addition, we renamed the **Connector Settings** page to **Cloud Volumes ONTAP Settings**.



15 February 2024

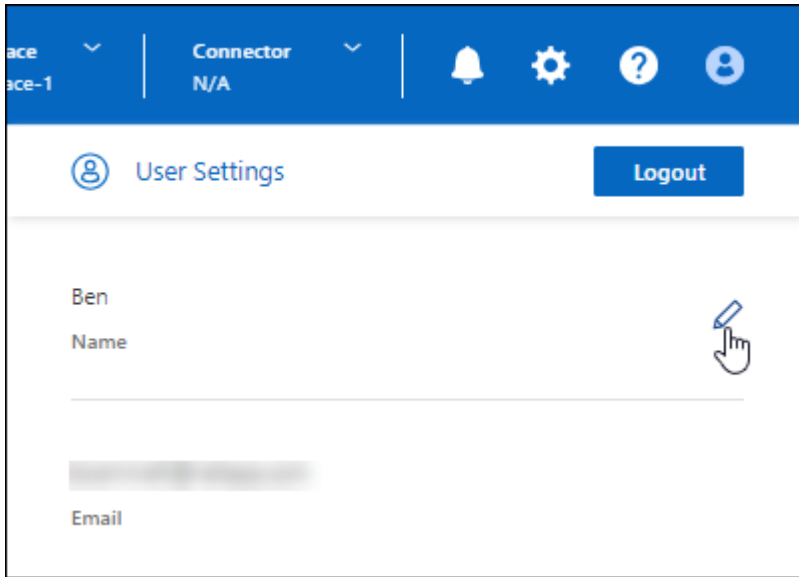
Connector 3.9.37

This release of the BlueXP Connector includes minor security improvements and bug fixes.

At this time, the 3.9.37 release is available for standard mode and restricted mode.

Edit name

If you use NetApp cloud credentials to log in to BlueXP, you can now edit your name in **User Settings**.



Editing your name is not supported if you log in with a federated connection or with your NetApp Support Site account.

Azure Blob storage

5 June 2023

Ability to add new storage accounts from BlueXP

You have had the ability to view Azure Blob Storage on the BlueXP Canvas for quite a while. Now you can add new storage accounts and change properties for existing storage accounts directly from BlueXP. [See how to add new Azure Blob storage accounts.](#)

Azure NetApp Files

11 April 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 March 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 August 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

30 July 2023

Customers can now create Amazon FSx for NetApp ONTAP file systems in three new AWS Regions: Europe (Zurich), Europe (Spain), and Asia Pacific (Hyderabad).

Refer to [Amazon FSx for NetApp ONTAP is now available in three additional regions](#) for full details.

02 July 2023

- You can now [add a storage VM](#) to the Amazon FSx for NetApp ONTAP file system using BlueXP.
- The **My Opportunities** tab is now **My estate**. The documentation is updated to reflect the new name.

04 June 2023

- When [creating a working environment](#), you can specify the start time for the weekly 30-minute maintenance window to ensure maintenance does not conflict with critical business activities.
- When [creating a volume](#), you can enable data optimization by creating a FlexGroup to distribute data across volumes.

Amazon S3 storage

5 March 2023

Ability to add new buckets from BlueXP

You have had the ability to view Amazon S3 buckets on the BlueXP Canvas for quite a while. Now you can add new buckets and change properties for existing buckets directly from BlueXP. [See how to add new Amazon S3 buckets.](#)

Backup and recovery

12 March 2024

Ability to do "Quick Restores" from cloud backups to on-premises ONTAP volumes

Now you can perform a *quick restore* of a volume from cloud storage to an on-premises ONTAP destination volume. Previously you could perform a quick restore only to a Cloud Volumes ONTAP system. The quick restore is ideal for disaster recovery situations where you need to provide access to a volume as soon as possible. A quick restore is much faster than full volume restore; it restores the metadata from a cloud snapshot to an ONTAP destination volume. The source could be from AWS S3, Azure Blob, Google Cloud Services, or NetApp StorageGRID.

The on-premises ONTAP destination system must be running ONTAP version 9.14.1 or greater.

You can do this using the Browse and restore process, not the Search and restore process.

For details, see [Restore ONTAP data from backup files.](#)

Ability to restore files and folders from Snapshot and Replication copies

Previously, you could restore files and folders only from backup copies in AWS, Azure, and Google Cloud Services. Now, you can restore files and folders from local Snapshot copies and from replication copies.

You can perform this feature by using the Search and restore process, not by using the Browse and restore process.

01 February 2024

Enhancements to BlueXP backup and recovery for Virtual Machines

- Support restoring virtual machines to an alternate location
- Support for unprotecting datastores

15 December 2023

Reports available for local Snapshot and replication Snapshot copies

Previously, you could generate reports on backup copies only. Now, you can create reports on local Snapshot copies and replication Snapshot copies as well.

With these reports, you can do the following:

- Ensure that critical data is protected according to your organizational policy.
- Ensure that backups ran smoothly for a group of volumes.
- Provide proof of protection on your production data.

Refer to [Report on data protection coverage](#).

Custom tagging available on volumes for sorting and filtering

You can now add custom tags to volumes starting in ONTAP 9.13.1 so that you can group volumes together within and across working environments. Doing this enables you to sort volumes in the BlueXP backup and recovery UI pages and filter in reports.

Catalog backups retained for 30 days

Previously, Catalog.zip backups were retained for 7 days. Now, they are retained for 30 days.

Refer to [Restore BlueXP backup and recovery data in dark sites](#).

23 October 2023

3-2-1 backup policy creation during backup activation

Previously, custom policies had to be created before you initiated a Snapshot, replication, or backup. Now you can create a policy during the backup activation process using the BlueXP backup and recovery UI.

[Learn more about policies](#).

Support for on-demand quick restore of ONTAP volumes

BlueXP backup and recovery now provides the ability to perform a "quick restore" of a volume from cloud storage to a Cloud Volumes ONTAP system. The quick restore is ideal for disaster recovery situations where you need to provide access to a volume as soon as possible. A quick restore restores the metadata from the backup file to a volume instead of restoring the entire backup file.

The Cloud Volumes ONTAP destination system must be running ONTAP version 9.13.0 or greater. [Learn more about restoring data](#).

The BlueXP backup and recovery Job Monitor also shows information about the progress of quick restore jobs.

Support for scheduled jobs in the Job Monitor

The BlueXP backup and recovery Job Monitor previously monitored scheduled volume-to-object-store backup and restore jobs but not local Snapshot, replication, backup, and restore jobs that were scheduled via the UI or API.

The BlueXP backup and recovery Job Monitor now includes scheduled jobs for local Snapshots, replications, and backups to object storage.

[Learn more about the updated Job Monitor](#).

Classification

4 March 2024 (version 1.29)

Now you can exclude scanning data that resides in certain data source directories

If you want BlueXP classification to exclude scanning data that resides in certain data source directories, you can add these directory names to a configuration file that BlueXP classification processes. This feature enables you to avoid scanning directories that are unnecessary, or that would result in returning false positive personal data results.

[Learn more.](#)

Extra Large instance support is now qualified

If you need BlueXP classification to scan more than 250 million files, you can use an Extra Large instance in your cloud deployment or on-premises installation. This type of system can scan up to 500 million files.

[Learn more.](#)

10 January 2024 (version 1.27)

Investigation page results now display the total size in addition to total number of items

The filtered results in the Investigation page now shows the total size of the items in addition to the total number of files. This can help when moving files, deleting files, and more.

Configure additional Group IDs as "Open to Organization"

Now you can configure Group IDs in NFS to be considered as "Open to Organization" directly from BlueXP classification if the group had not initially been set with that permission. Any files and folders that have these group IDs attached will show as "Open to Organization" in the Investigation Details page. See how to [add additional Group IDs as "open to organization"](#).

14 December 2023 (version 1.26.6)

This release included some minor enhancements.

The release also temporarily removed the following options:

- The option to activate audit log collection has been disabled. Refer to [Monitor and manage file access events](#).
- During the Directories investigation, the option to calculate the number of personal identifiable information (PII) data by Directories is not available. Refer to [Investigate the data stored in your organization](#).
- The option to integrate data using Azure Information Protection (AIP) labels has been disabled. Refer to [Organize your private data](#).

Cloud Volumes ONTAP

8 March 2024

Amazon Instant Metadata Service v2 support

In AWS, Cloud Volumes ONTAP, the Mediator, and the Connector now support Amazon Instant Metadata Service v2 (IMDSv2) for all functions. IMDSv2 provides enhanced protection against vulnerabilities. Only IMDSv1 was previously supported.

If required by your security policies, you can configure your EC2 instances to use IMDSv2. For instructions, refer to [BlueXP setup and administration documentation for managing existing Connectors](#).

5 March 2024

Cloud Volumes ONTAP 9.14.1 GA

BlueXP can now deploy and manage Cloud Volumes ONTAP 9.14.1 General Availability release in AWS, Azure, and Google Cloud.

2 February 2024

Support for Edv5-series VMs in Azure

Cloud Volumes ONTAP now supports the following Edv5-series VMs starting with the 9.14.1 release.

- E4ds_v5
- E8ds_v5
- E20s_v5
- E32ds_v5
- E48ds_v5
- E64ds_v5

[Supported configurations in Azure](#)

Cloud Volumes Service for Google Cloud

9 September 2020

Support for Cloud Volumes Service for Google Cloud

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

- 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

Cloud ops

7 December 2020

Navigation between Cloud Manager and Spot

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

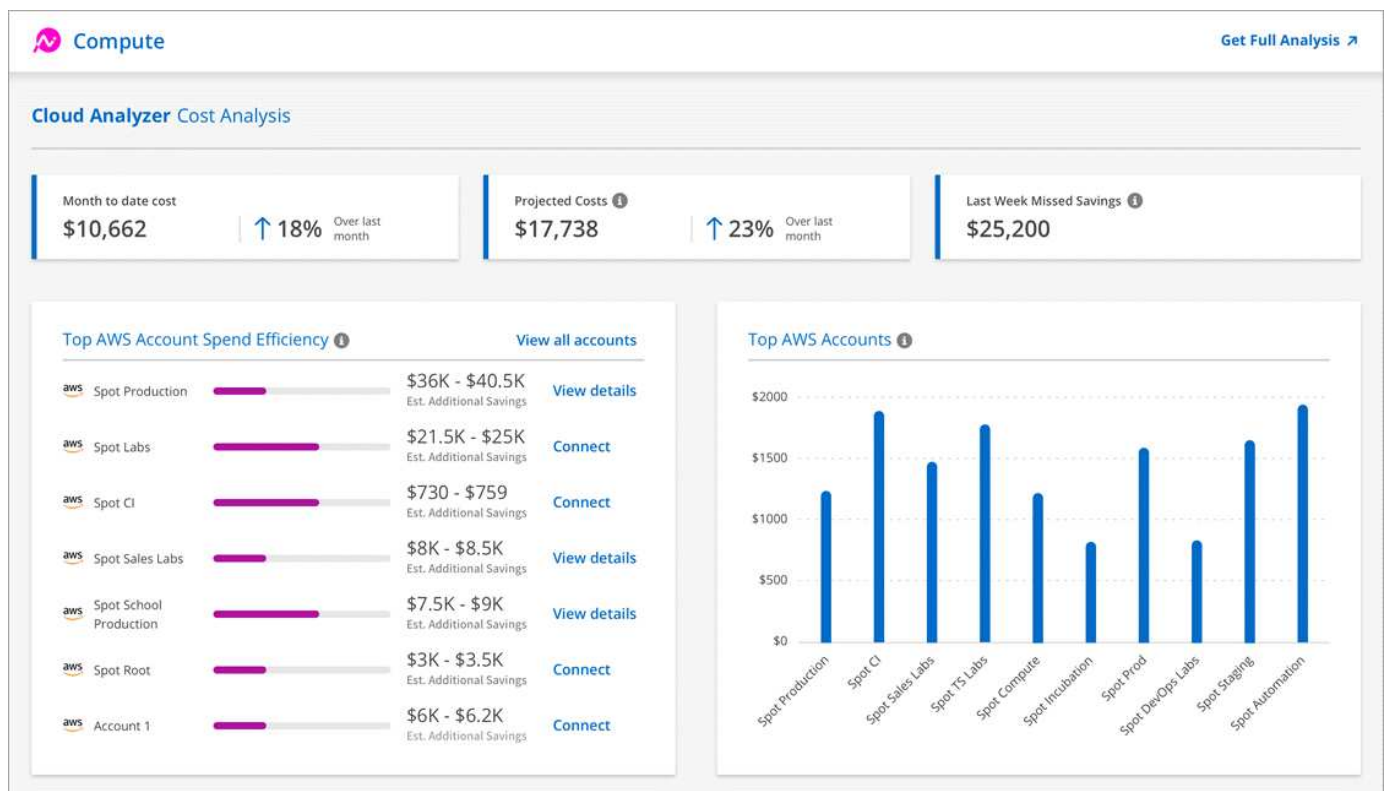
A new **Storage Operations** section in Spot enables you to navigate directly to Cloud Manager. After you're done, you can get back to Spot from the **Compute** tab in Cloud Manager.

18 October 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.](#)



Copy and sync

11 February 2024

Filter directories by regex

Users now have the option to filter directories using regex.

[Learn more about the **Exclude Directories** feature.](#)

26 November 2023

Cold storage class support for Azure Blob

The cold storage Azure Blob tier is now available when creating a sync relationship.

[Learn more about creating a sync relationship.](#)

Support for Tel Aviv region in AWS data brokers

Tel Aviv is now a supported region when creating a data broker in AWS.

[Learn more about creating a data broker in AWS.](#)

Update to node version for data brokers

All new data brokers will now use node version 21.2.0. Data brokers that are not compatible with this update, such as CentOS 7.0 and Ubuntu Server 18.0, will no longer work with BlueXP copy and sync.

3 September 2023

Exclude files by regex

Users now have the option to exclude files using regex.

[Learn more about the **Exclude File Extensions** feature.](#)

Add S3 keys when creating Azure data broker

Users may now add AWS S3 access keys and secret keys when creating an Azure data broker.

[Learn more about creating a data broker in Azure.](#)

Digital advisor

15 March 2024

Wellness

- The Wellness workflow now includes the Sustainability widget, which provides the count of recommended actions at the customer, watchlist, site, and group levels. You can click the number of actions for a detailed view of these recommended actions on the Sustainability dashboard. To learn more, refer to [Analyze the sustainability of your storage systems](#).
- The Security Vulnerabilities and Ransomware Defense widgets in the Wellness workflow are combined into a single widget, which is now called Security & Ransomware Defense.

Health Check dashboard

The timeline for technical cases is enhanced to view the complete case history for 6 or 12 months.

29 February 2024

Watchlist

You can now create a watchlist based on Keystone subscription numbers and search for a Keystone subscription using the first three characters of a subscription number or watchlist name.

08 February 2024

Sustainability dashboard

You can now access the Sustainability metrics for your default dashboard or watchlist directly by using the [Sustainability Dashboard](#) link.

ClusterViewer

You can now view Disk RPM information in the Disk Summary section, which is available in the Storage tab and in ClusterViewer reports.

Digital wallet

5 March 2024

BlueXP disaster recovery

The BlueXP digital wallet now enables you to manage licenses for BlueXP disaster recovery. You can add licenses, update licenses, and view details about licensed capacity.

[Learn how to manage licenses for BlueXP data services](#)

30 July 2023

Usage reports enhancements

Several improvements to the Cloud Volumes ONTAP usage reports are now available:

- The TiB unit is now included in the name of columns.
- A new *node(s)* field for serial numbers is now included.
- A new *Workload Type* column is now included under the Storage VMs usage report.
- Working environment names are now included in the Storage VMs and Volume usage reports.
- The volume type *file* is now labeled *Primary (Read/Write)*.
- The volume type *secondary* is now labeled *Secondary (DP)*.

For more information about the usage reports, refer to [Download usage reports](#).

7 May 2023

Google Cloud private offers

The BlueXP digital wallet now identifies Google Cloud Marketplace subscriptions that are associated with a

private offer and shows the end date and term of the subscription. This enhancement enables you to verify that you've successfully accepted the private offer and to validate its terms.

Charging usage breakdown

Now you can find out what you're being charged for when you're subscribed to capacity-based licenses. The following types of usage reports are available for download from the BlueXP digital wallet. The usage reports provide capacity details of your subscriptions and tell you how you're being charged for the resources in your Cloud Volumes ONTAP subscriptions. The downloadable reports can be easily shared with others.

- Cloud Volumes ONTAP package usage
- High-level usage
- Storage VMs usage
- Volumes usage

For more information about the usage reports, refer to [Download usage reports](#).

3 April 2023

Email notifications

Email notifications are now supported with the BlueXP digital wallet.

If you configure your notification settings, you can receive email notifications when your BYOL licenses are about to expire (a "Warning" notification) or if they have already expired (an "Error" notification).

[Learn how to set up email notifications](#)

Licensed capacity for marketplace subscriptions

When viewing capacity-based licensing for Cloud Volumes ONTAP, the BlueXP digital wallet now shows the licensed capacity that you purchased with marketplace private offers.

[Learn how to view the consumed capacity in your account](#).

Disaster recovery

5 March 2024

This is the General Availability release of BlueXP disaster recovery, which includes the following updates.

- **Licensing updates:** With BlueXP disaster recovery, you can sign up for a 90-day free trial or Bring Your Own License (BYOL), which is a NetApp License File (NLF) that you obtain from your NetApp Sales Rep. You can use the license serial number to get the BYOL activated in BlueXP digital wallet. BlueXP disaster recovery charges are based on provisioned capacity of datastores.

For details about setting up licensing for BlueXP disaster recovery, refer to [Set up licensing](#).

For details about managing licenses for **all** BlueXP services, refer to [Manage licenses for all BlueXP services](#).

- **Edit schedules:** With this release, you can now set up schedules to test compliance and failover tests so

that you ensure that they will work correctly should you need them.

For details, refer to [Create the replication plan](#).

1 February 2024

This BlueXP disaster recovery preview release includes the following updates:

- **Network enhancement:** With this release, you can now resize the VM CPU and RAM values. You can also now select a network DHCP or static IP address for the VM.
 - DHCP: If you choose this option, you provide credentials for the VM.
 - Static IP: You can select the same or different information from the source VM. If you choose the same as the source, you do not need to enter credentials. On the other hand, if you choose to use different information from the source, you can provide the credentials, IP address, subnet mask, DNS, and gateway information.

For details, refer to [Create a replication plan](#).

- **Custom scripts** can now be included as post failover processes. With custom scripts, you can have BlueXP disaster recovery run your script after a failover process. For example, you can use a custom script to resume all database transactions after the failover is complete.

For details, refer to [Fail over to a remote site](#).

- **SnapMirror relationship:** You can now create a SnapMirror relationship while developing the replication plan. Previously, you had to create the relationship outside of BlueXP disaster recovery.

For details, refer to [Create a replication plan](#).

- **Consistency groups:** When you create a replication plan, you can include VMs that are from different volumes and different SVMs. BlueXP disaster recovery creates a Consistency Group Snapshot by including all the volumes and updates all the secondary locations.

For details, refer to [Create a replication plan](#).

- **VM power-on delay option:** When you create a replication plan, you can add VMs to a Resource Group. With Resource Groups, you can set a delay on each VM so that they power up on a delayed sequence.

For details, refer to [Create a replication plan](#).

- **Application-consistent Snapshot copies:** You can specify to create application-consistent Snapshot copies. The service will quiesce the application and then take a Snapshot to obtain a consistent state of the application.

For details, refer to [Create a replication plan](#).

11 January 2024

This preview release of BlueXP disaster recovery includes the following updates:

- With this release, you can access information on other pages from the Dashboard more quickly.

[Learn about BlueXP disaster recovery](#).

20 October 2023

This preview release of BlueXP disaster recovery includes the following updates.

Now with BlueXP disaster recovery, you can protect your on-premises, NFS-based VMware workloads against disasters to another on-premises, NFS-based VMware environment in addition to the public cloud. BlueXP disaster recovery orchestrates the completion of the disaster recovery plans.



With this preview offering, NetApp reserves the right to modify offering details, contents and timeline before General Availability.

[Learn more about BlueXP disaster recovery.](#)

E-Series systems

18 September 2022

Support for E-Series

You can now discover your E-Series systems directly from BlueXP. Discovering E-Series systems provides you with a complete view of data across your hybrid multicloud.

Economic efficiency

14 March 2024

If you have existing assets in place and want to determine whether a technology needs to be updated, you can use the BlueXP economic efficiency technology refresh options. You can either review a short assessment of your current workloads and get recommendations, or if you sent AutoSupport logs to NetApp within the past 90 days, the service can now provide a workload simulation to see how your workloads perform on new hardware.

You can also add a workload and exclude existing workloads from the simulation.

Previously, you could only take an assessment of your assets and identify whether a technology refresh is recommended.

The feature is now part of the Tech refresh option in the left navigation.

Learn more about the [Evaluate a technology refresh](#).

08 November 2023

This release of BlueXP economic efficiency includes a new option to take an assessment of your assets and identify whether a technology refresh is recommended. The service includes a new Tech refresh option in the left navigation, new pages where you can take an assessment of your current workloads and assets, and a report that provides recommendations to you.

02 April 2023

The new BlueXP economic efficiency service identifies storage assets with current or forecasted low capacity and provides recommendations on data tiering or additional capacity for on-premises AFF systems.

Edge caching

1 August 2023 (version 2.3)

This release fixes the issues described in the [Fixed Issues](#). Updated software packages are available at [this page](#).

5 April 2023 (version 2.2)

This release provides the new features listed below. It also fixes the issues described in the [Fixed Issues](#).

Support for Global File Cache on Cloud Volumes ONTAP systems deployed in Google Cloud

A new "Edge Cache" license is available when deploying a Cloud Volumes ONTAP system in Google Cloud. You are entitled to deploy one Global File Cache Edge system for each 3 TiB of purchased capacity on the Cloud Volumes ONTAP system.

[Learn more about the Edge Cache license package.](#)

The setup wizard and GFC Configuration UI are enhanced to perform NetApp license registration

Enhanced Optimus PSM to configure Edge Sync functionality

24 October 2022 (version 2.1)

This release provides the new features listed below. It also fixes the issues described in the [Fixed Issues](#).

Global File Cache is now available with any number of licenses

The previous minimum requirement of 10 licenses, or 30 TB of storage, has been removed. One Global File Cache license will be issued for every 3 TB of storage.

Support has been added for using an offline License Management Server

An offline, or dark site, License Management Server (LMS) is most useful when the LMS does not have an internet connection for license validation with license sources. An internet connection and connection to license source is required during initial configuration. Once configured, the LMS instance can become dark. All Edges/Cores should have a connection with LMS for continuous validation of licenses.

Edge instances can support additional concurrent users

A single Global File Cache Edge instance can serve up to 500 users per dedicated physical Edge instance, and up to 300 users for dedicated virtual deployments. The maximum number of users used to be 400 and 200, respectively.

Enhanced Optimus PSM to configure Cloud Licensing

Enhanced the Edge Sync feature in Optimus UI (Edge Configuration) to show all connected clients

Google Cloud Storage

10 July 2023

Ability to add new buckets and manage existing buckets from BlueXP

You have had the ability to view Google Cloud Storage buckets on the BlueXP Canvas for quite a while. Now you can add new buckets and change properties for existing buckets directly from BlueXP. [See how to add new Google Cloud Storage buckets.](#)

Kubernetes

02 April 2023

- You can now [uninstall Astra Trident](#) that was installed using the Trident operator or BlueXP.
- User interface improvements have been made and screenshots have been updated in the documentation.

05 March 2023

- Kubernetes in BlueXP now supports Astra Trident 23.01.
- User interface improvements have been made and screenshots have been updated in the documentation.

06 November 2022

When [defining storage classes](#), you can now enable storage class economy for block or filesystem storage.

Migration reports

13 November 2023

You can now create reports for volumes that use the SMB/CIFS protocol.

03 September 2023

The updated BlueXP migration reports service provides updates to the report data. Reports now include allocated capacity.

02 June 2023

With the new BlueXP migration reports service, you can quickly identify the number of files, directories, symbolic links, hard links, depth and breadth of file system trees, largest files, and more in your storage landscape.

With this information, you will know ahead that the process you want to use can handle your inventory efficiently and successfully.

[Learn more about BlueXP migration reports.](#)

On-prem ONTAP clusters

30 July 2023

Create FlexGroup volumes

If you're managing a cluster with a Connector, you can now create FlexGroup volumes using the BlueXP API.

- [Learn how to create a FlexGroup volume](#)
- [Learn what a FlexGroup volume is](#)

2 July 2023

Cluster discovery from My estate

You can now discover on-premises ONTAP clusters from **Canvas > My estate** by selecting a cluster that BlueXP pre-discovered based on the ONTAP clusters that are associated with the email address for your BlueXP login.

[Learn how to discover clusters from the My estate page.](#)

4 May 2023

Enable BlueXP backup and recovery

Beginning with ONTAP 9.13.1, you can use System Manager (advanced view) to enable BlueXP backup and recovery if you discovered the cluster using a Connector. [Learn more about enabling BlueXP backup and recovery](#)

Upgrade ONTAP version image and hardware firmware

Beginning with ONTAP 9.10.1, you can use System Manager (advanced view) to upgrade the ONTAP version image and hardware firmware. You can choose to receive automatic upgrades to stay up to date, or you can make manual updates from your local machine or a server that can be accessed using BlueXP. [Learn more about upgrading ONTAP and firmware](#)



If you do *not* have a Connector, you cannot make updates from your local machine, only from a server that can be accessed using BlueXP.

Operational resiliency

02 April 2023

Using the new BlueXP operational resiliency service and its automated IT operational risk remediation suggestions, you can implement suggested remediations before an outage or failure occurs.

Operational resiliency is a service that helps you analyze alerts and events to maintain the health, uptime, and performance of services and solutions.

[Learn more about BlueXP operational resiliency.](#)

Ransomware protection

5 March 2024

This preview release of BlueXP ransomware protection includes the following updates:

- **Protection policy management:** In addition to using predefined policies, you can now create, change, and delete policies. [Learn more about managing policies.](#)
- **Immutability on secondary storage (DataLock):** You can now make the backup immutable in secondary storage using NetApp DataLock technology in the object store. [Learn more about creating protection policies.](#)
- **Automatic backup to NetApp StorageGRID:** In addition to using AWS, you can now choose StorageGRID as your backup destination. [Learn more about configuring backup destinations.](#)
- **Additional features to investigate potential attacks:** You can now view more forensic details to investigate the detected potential attack. [Learn more about responding to a detected ransomware alert.](#)
- **Recovery process.** The recovery process was enhanced. Now, you can recovery volume by volume, all volumes for a workload, or even a few files from the volume all in a single workflow. [Learn more about recovering from a ransomware attack \(after incidents have been neutralized\).](#)

[Learn about BlueXP ransomware protection.](#)

6 October 2023

The BlueXP ransomware protection service is a SaaS solution for protecting data, detecting potential attacks, and recovering data from a ransomware attack.

For the preview version, the service protects application-based workloads of Oracle, MySQL, VM datastores, and file shares on on-premises NAS storage as well as Cloud Volumes ONTAP on AWS (using the NFS protocol) across BlueXP accounts individually and backs up data to Amazon Web Services cloud storage.

The BlueXP ransomware protection service provides full use of several NetApp technologies so that your data security administrator or security operations engineer can accomplish the following goals:

- View ransomware protection on all your workloads at a glance.
- Gain insight into ransomware protection recommendations
- Improve protection posture based on BlueXP ransomware protection recommendations.
- Assign ransomware protection policies to protect your top workloads and high-risk data against ransomware attacks.
- Monitor the health of your workloads against ransomware attacks looking for data anomalies.
- Quickly assess the impact of ransomware incidents on your workload.
- Recover from ransomware incidents intelligently by restoring data and ensuring that reinfection from stored data does not occur.

[Learn about BlueXP ransomware protection.](#)

Remediation

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.](#)

Replication

18 Sept 2022

FSx for ONTAP to Cloud Volumes ONTAP

You can now replicate data from an Amazon FSx for ONTAP file system to Cloud Volumes ONTAP.

[Learn how to set up data replication.](#)

31 July 2022

FSx for ONTAP as the data source

You can now replicate data from an Amazon FSx for ONTAP file system to the following destinations:

- Amazon FSx for ONTAP
- On-premises ONTAP cluster

[Learn how to set up data replication.](#)

2 September 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.

[Learn how to set up data replication.](#)

StorageGRID

18 September 2022

Support for StorageGRID

You can now discover your StorageGRID systems directly from BlueXP. Discovering StorageGRID provides you with a complete view of data across your hybrid multicloud.

Tiering

9 August 2023

Use a custom prefix for the bucket name where tiered data is stored

In the past you needed to use the default "fabric-pool" prefix when defining the bucket name, for example, *fabric-pool-bucket1*. Now you can use a custom prefix when naming your bucket. This functionality is available only when tiering data to Amazon S3. [Learn more.](#)

Search for a cluster across all BlueXP Connectors

If you are using multiple Connectors to manage all the storage systems in your environment, some clusters on which you want to implement tiering may be in different Connectors. If you are not sure which Connector is managing a certain cluster, you can search across all Connectors using BlueXP tiering. [Learn more.](#)

4 July 2023

Now you can adjust the bandwidth used to upload inactive data to object storage

When you activate BlueXP tiering, ONTAP can use an unlimited amount of network bandwidth to transfer the inactive data from volumes in the cluster to object storage. If you notice that tiering traffic is affecting normal user workloads, you can throttle the amount of bandwidth that can be used during the transfer. [Learn more.](#)

Tiering event for "low tiering" is displayed in the Notification Center

The tiering event "Tier additional data from cluster <name> to object storage to increase your storage efficiency" now appears as a notification when a cluster is tiering less than 20% of its cold data - including clusters that are tiering no data.

This notification is a "Recommendation" to help make your systems more efficient and to save on storage costs. It provides a link to the [BlueXP tiering total cost of ownership and savings calculator](#) to help you calculate your cost savings.

3 April 2023

Licensing tab has been removed

The Licensing tab has been removed from the BlueXP tiering interface. All licensing for Pay-as-you-go (PAYGO) subscriptions are accessed from the BlueXP tiering On-Premises Dashboard now. There is also a link from that page to the BlueXP digital wallet so that you can view and manage any BlueXP tiering bring-your-own-licenses (BYOL).

Tiering tabs have been renamed and have updated content

The "Clusters Dashboard" tab has been renamed to "Clusters", and the "On-Prem Overview" tab has been renamed to "On-Premises Dashboard". These pages have added some information that will help you evaluate if you can optimize your storage space with additional tiering configuration.

Volume caching

04 June 2023

Volume caching, a feature of ONTAP 9 software, is a remote caching capability that simplifies file distribution, reduces WAN latency by bringing resources closer to where your users and compute resources are, and lowers WAN bandwidth costs. Volume caching provides a persistent, writable volume in a remote place. You can use BlueXP volume caching to speed up access to data or to offload traffic from heavily accessed volumes. Cache volumes are ideal for read-intensive workloads, especially where clients need to access the same data repeatedly.

With BlueXP volume caching, you have caching capabilities for the cloud, specifically for Amazon FSx for NetApp ONTAP, Cloud Volumes ONTAP, and on-premises as working environments.

[Learn more about BlueXP volume caching.](#)

Release notes index

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

Administration

[Setup and administration](#)

Storage

- [Azure Blob storage](#)
- [Azure NetApp Files](#)
- [Amazon FSx for ONTAP](#)
- [Amazon S3 storage](#)
- [Cloud Volumes ONTAP](#)
 - [Release notes for Cloud Volumes ONTAP](#)
 - [Release notes for Cloud Volumes ONTAP management in BlueXP](#)
- [Cloud Volumes Service for Google Cloud](#)
- [E-Series systems](#)
- [Google Cloud Storage](#)
- [Kubernetes clusters](#)
- [Migration reports](#)
- [On-prem ONTAP clusters](#)
- [StorageGRID](#)

Data services

- [Backup and recovery](#)
- [Classification](#)
- [Cloud ops](#)
- [Copy and sync](#)
- [Digital wallet](#)
- [Disaster recovery](#)
- [Economic efficiency](#)
- [Edge caching](#)
- [Operational resiliency](#)
- [Ransomware protection](#)
- [Remediation](#)
- [Replication](#)
- [Tiering](#)

- Volume caching

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