

# **Ransomware Protection documentation**

Ransomware Protection

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# **Ransomware Protection documentation**

# What's new with Ransomware Protection

Learn what's new in 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.

# **Get started**

## **Learn about Ransomware Protection**

Ransomware attacks can cost a business time, resources, and reputation. The 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 about the use cases for Ransomware Protection.



The Ransomware Protection service is currently a Beta offering.

#### **Features**

Ransomware Protection currently provides several features that can help you with your cyberstorage protection efforts. Additional features will be added in the future. Current features identify when:

- Volumes in your working environments aren't being protected by creating backups to the cloud using Cloud Backup.
- Data in your working environments and data sources aren't being scanned using Cloud Data Sense to identify compliance and privacy concerns, and find optimization opportunities.
- An abnormal increase in the percentage of encrypted files in a working environment or data source has occurred.

This can be an indicator that a ransomware attack has commenced on your network.

- Sensitive data is found in files and the access permissions level is too high in a working environment or data source.
- Users have been added to your Active Directory Domain Administrator Groups.

See how to view these potential issues in the Ransomware Protection dashboard.

When using Cloud Volumes ONTAP systems, there are some additional ransomware protections you can deploy directly from the working environment. See how to add additional protection against ransomware.

## Supported working environments and data sources

Cloud Data Sense is a prerequisite to using the Ransomware Protection service. After Data Sense is installed and activated, you can use Ransomware Protection to see how resilient your data is to a cyber attack on the following types of working environments and data sources:

#### Working environments:

- Cloud Volumes ONTAP (deployed in AWS, Azure, or GCP)
- On-premises ONTAP clusters
- Azure NetApp Files
- Amazon FSx for ONTAP

Amazon S3

#### Data sources:

- · Non-NetApp file shares
- Object storage (that uses S3 protocol)
- Databases
- · OneDrive accounts
- · SharePoint accounts

Ransomware Protection also monitors your global Active Directory configuration if you have configured this in Cloud Data Sense.

#### **How Ransomware Protection works**

At a high-level, Ransomware Protection works like this:

- 1. Ransomware Protection gathers information from Cloud Data Sense, Cloud Backup, and from other Cloud Manager resources, to populate the Ransomware Protection Dashboard.
- 2. You use the Ransomware Protection dashboard to get an overview of how well protected your systems are.
- 3. You use the provided reporting tools to help in your cyberstorage protection efforts.

#### Cost

There is no separate cost for the Ransomware Protection service during the Beta.

# **Use Ransomware Protection**

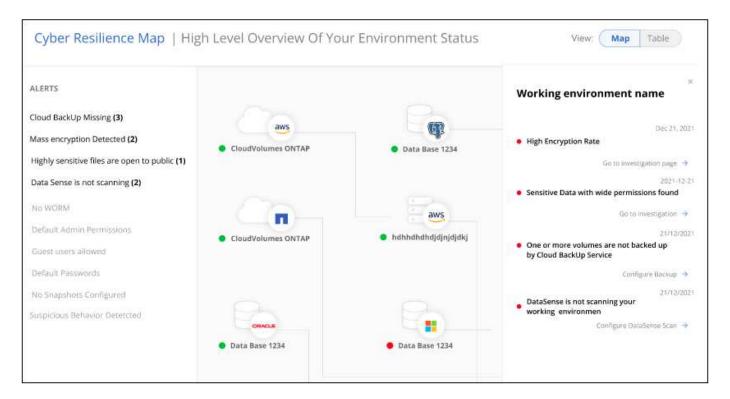
# Managing cyber security recommendations for your data sources

Use the Ransomware Protection dashboard to view an overview of the cyber resilience of all your working environments and data sources. You can drill down in each area to find more details and possible remediations.



## **Cyber Resilience Map**

The Cyber Resilience Map is the main area in the dashboard. It enables you to see all your working environments and data sources in a visual manner and be able to view relevant cyber-resilience information.



The map consists of three parts:

#### Left panel

Shows a list of alerts for which the service is monitoring across all of your data sources. It also indicates the number of each particular alert that is active in your environment. Having a large number of one type of alert may be a good reason to try to resolve those alerts first.

#### Center panel

Shows all of your data sources, services, and Active Directory in a graphical format. Healthy environments have a green indicator and environments that have alerts have a red indicator.

#### Right panel

After you click on a data source that has a red indicator, this panel shows the alerts for that data source and provides recommendations to resolve the alert. Alerts are sorted so that the most recent alerts are listed first. Many recommendations lead you to another Cloud Manager service where you can resolve the issue.

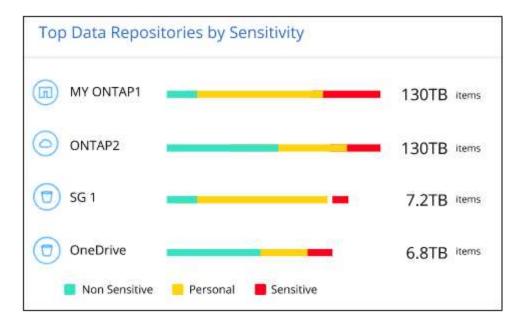
These are the currently tracked alerts and suggested remediations.

Alert	Description	Remediation
High data encryption rates detected	An abnormal increase in the percentage of encrypted files, or corrupted files, in the data source has occurred. This means that there was a greater than 20% increase in the percentage of encrypted files in the past 7 days. For example, if 50% of your files are encrypted, then a day later this number increases to 60%, you would see this alert.	Click the link to launch the Data Sense Investigation page. There you can select the filters for the specific Working Environment and Category (Encrypted and Corrupted) to view the list of all encrypted and corrupted files.
Sensitive data with wide permissions found	Sensitive data is found in files and the access permissions level is too high in a data source.	Click the link to launch the Data Sense Investigation page. There you can select the filters for the specific Working Environment, Sensitivity Level (Sensitive Personal), and Open Permissions to view the list of the files that have this issue.
One or more volumes are not backed up using Cloud Backup	Some volumes in the working environment aren't being protected using Cloud Backup.	Click the link to launch Cloud Backup and then you can identify the volumes that aren't being backed up in the working environment, and then decide if you want to enable backups on those volumes.
One or more repositories (volumes, buckets, etc.) in your data sources are not being scanned by Data Sense	Some data in your data sources isn't being scanned using Cloud Data Sense to identify compliance and privacy concerns and find optimization opportunities.	Click the link to launch Data Sense and enable scanning and mapping for the items that are not being scanned.

## Top data repositories by data sensitivity

The *Top Data Repositories by Sensitivity Level* panel lists up to the top four data repositories (working environments and data sources) that contain the most sensitive items. The bar chart for each working environment is divided into:

- · Non-Sensitive data
- Personal data
- Sensitive Personal data



You can hover over each section to see the total number of items in each category.

Click each area to view the filtered results in the Data Sense Investigation page so that you can investigate further.

## **Domain Administrator Group control**

The *Domain Administrator Group control* panel shows the most recent users who have been added into your domain administrator groups so that you can see if all the users should be allowed in those groups. You must have integrated a global Active Directory into Cloud Data Sense for this panel to be active.

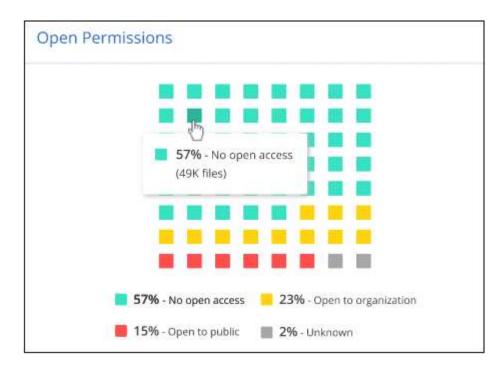
Domain Administrative Groups control	
User "Ariel.Z" has joined "911" group	Dec 21, 2021
User "Shahar.Livschitz" has joined "enterprise	Dec 21, 2021
User "Golan.K" has joined "system_administrators" group	Dec 21, 2021
User "Adi.M" has joined "123" group	Dec 21, 2021

The default administrative admin groups include "Administrators", "Domain Admins", "Enterprise Admins", "Enterprise Key Admins", and "Key Admins".

## Data listed by types of open permissions

The *Open Permissions* panel shows the percentage for each type of permission that exist for all files that are being scanned. The chart is provided from Data Sense and it shows the following types of permissions:

- · No Open Access
- · Open to Organization
- · Open to Public
- Unknown Access

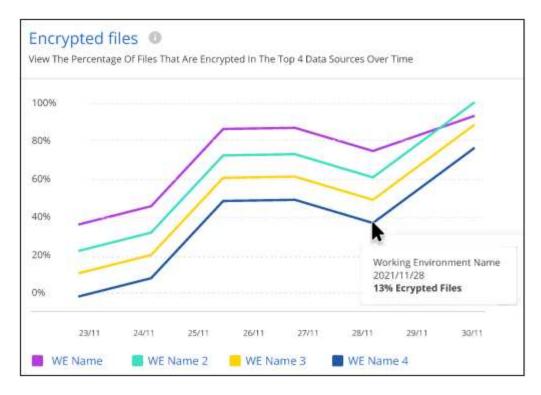


You can hover over each section to see the percentage and total number of files in each category.

Click each area to view the filtered results in the Data Sense Investigation page so that you can investigate further.

## Data listed by encrypted files

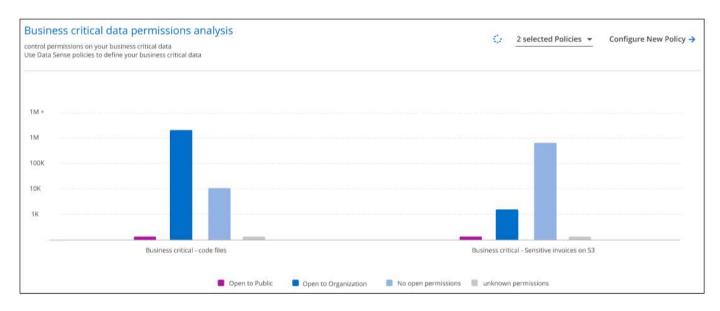
The *Encrypted Files* panel shows the top 4 data sources with the highest percentage of files that are encrypted, over time. These are typically items that have been password protected. It does this by comparing the encryption rates over the past 7 days to see which data sources have a greater than 20% increase. An increase of this amount could mean that ransomware is already attacked your system.



Click a line for one of the data sources to view the filtered results in the Data Sense Investigation page so that you can investigate further.

## Status of permissions on your critical business data

The *Business critical data permissions analysis* panel 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.



Initially this panel has no data because the data gets populated only after you select the Data Sense *Policies* that you have created to view your most critical business data. See how to create your policies using Data Sense.

After you have added up to 2 policies to this panel, the graph shows a permission analysis of all the data that meets the criteria from your policy. It lists the number of items that are:

- Open to public permissions the items which Data Sense considers as open to public
- Open to organization permissions the items which Data Sense considers as open to organization
- No open permissions the items which Data Sense considers as no open permissions
- Unknown permissions the items which Data Sense considers as unknown permissions

Hover over each bar in the charts to view the number of results in each category. Click a bar and the Data Sense Investigation page is displayed so you can investigate further about which items have open permissions and whether you should make any adjustments to file permissions.

# **Knowledge and support**

# Register for support

Before you can open a support case with NetApp technical support, you need to add a NetApp Support Site account to Cloud Manager and then register for support.

#### Add an NSS account

The Support Dashboard enables you to add and manage all of your NetApp Support Site accounts from a single location.

#### **Steps**

- 1. If you don't have a NetApp Support Site account yet, register for one.
- 2. In the upper right of the Cloud Manager console, click the Help icon, and select Support.



- 3. Click NSS Management > Add NSS Account.
- 4. When you're prompted, click **Continue** to be redirected to a Microsoft login page.

NetApp uses Microsoft Azure Active Directory as the identity provider for authentication services specific to support and licensing.

5. At the login page, provide your NetApp Support Site registered email address and password to perform the authentication process.

This action enables Cloud Manager to use your NSS account.

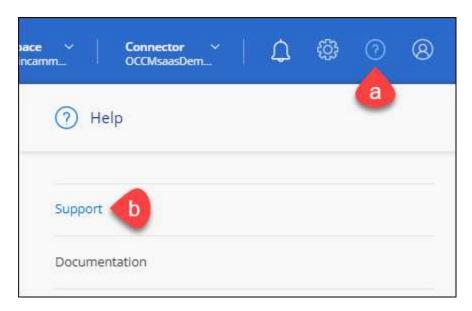
Note the account must be a customer-level account (not a guest or temp account).

## Register your account for support

Support registration is available from Cloud Manager in the Support Dashboard.

#### **Steps**

In the upper right of the Cloud Manager console, click the Help icon, and select Support.



- 2. In the Resources tab, click Register for Support.
- 3. Select the NSS credentials that you want to register and then click **Register**.

# Get help

NetApp provides support for Cloud Manager and its cloud services in a variety of ways. Extensive free self-support options are available 24x7, such as knowledgebase (KB) articles and a community forum. Your support registration includes remote technical support via web ticketing.

# Self support

These options are available for free, 24 hours a day, 7 days a week:

· Knowledge base

Search through the Cloud Manager knowledge base to find helpful articles to troubleshoot issues.

Communities

Join the Cloud Manager community to follow ongoing discussions or create new ones.

Documentation

The Cloud Manager documentation that you're currently viewing.

Feedback email

We value your input. Submit feedback to help us improve Cloud Manager.

#### **NetApp support**

In addition to the self-support options above, you can work with a NetApp Support Engineer to resolve any issues after you activate support.

#### Steps

- 1. In Cloud Manager, click **Help > Support**.
- 2. Choose one of the available options under Technical Support:
  - a. Click Call Us to find phone numbers for NetApp technical support.
  - b. Click **Open an Issue**, select one the options, and then click **Send**.

A NetApp representative will review your case and get back to you soon.

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