



# Get started

## Ransomware Protection

NetApp  
June 13, 2022

# Table of Contents

- Get started ..... 1
- Learn about Ransomware Protection ..... 1

# 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 organization 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 provides a single point of visibility and control to manage and to refine data security across various working environments and infrastructure layers to better respond to threats as they occur. It 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 making periodic Snapshot copies.
- 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.

This capability is also important from a ransomware protection perspective because it allows you to better understand where your important (sensitive, business critical) data is located so you can make sure you're focusing your protections there.

- Your most important categories of data aren't being backed up in case you need to recover because of a ransomware attack.
- 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.
- The ONTAP software version on your clusters is old and should be updated to provide the best protection and security features.
- NAS file system auditing is not enabled on your ONTAP systems.

Enabling CIFS auditing generates auditing events for your system admins that track information such as folder permission changes, failed attempts to read or write files, and when files have been created, modified, or deleted.

- On-box anti-ransomware features are not enabled on your ONTAP systems.

The ONTAP anti-ransomware features proactively detect and warn about abnormal activity that might indicate a ransomware attack.

[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 (Amazon RDS, MongoDB, MySQL, Oracle, PostgreSQL, SAP HANA, SQL Server)
- OneDrive accounts
- SharePoint accounts
- Google Drive 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 your storage systems, 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.

## Copyright Information

Copyright © 2022 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

## Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.