



# **Security features**

## **SnapCenter Software**

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June 09, 2021

This PDF was generated from [https://docs.netapp.com/us-en/snapcenter/concept/reference\\_data\\_security.html](https://docs.netapp.com/us-en/snapcenter/concept/reference_data_security.html) on June 18, 2021. Always check docs.netapp.com for the latest.

# Table of Contents

Security features .....	1
CA Certificate Overview .....	1

# Security features

SnapCenter employs strict security and authentication features to enable you to keep your data secure.

SnapCenter includes the following security features:

- All communication to SnapCenter uses HTTP over SSL (HTTPS).
- All credentials in SnapCenter are protected using Advanced Encryption Standard (AES) encryption.
- SnapCenter uses security algorithms that are compliant with the Federal Information Processing Standard (FIPS).
- SnapCenter supports using the authorized CA certificates provided by the customer.
- SnapCenter 4.1.1 or later supports Transport Layer Security (TLS) 1.2 communication with ONTAP. You can also use TLS 1.2 communication between clients and servers.
- SnapCenter is installed inside your company's firewall to enable access to the SnapCenter Server and to enable communication between the SnapCenter Server and the plug-ins.
- SnapCenter API and operation access uses tokens encrypted with AES encryption, which expire after 24 hours.
- SnapCenter integrates with Windows Active Directory for login and role-based access control (RBAC) that govern access permissions.
- SnapCenter PowerShell cmdlets are session secured.
- After a default period of 15 minutes of inactivity, SnapCenter warns you that you will be logged out in 5 minutes. After 20 minutes of inactivity, SnapCenter logs you out, and you must log in again. You can modify the log out period.
- Login is temporarily disabled after 5 or more incorrect login attempts.

## CA Certificate Overview

The SnapCenter Server installer enables the Centralized SSL Certificate Support during installation. To enhance the secured communication between the server and the plug-in, SnapCenter supports using the authorized CA certificates provided by the customer.

You should deploy CA certificates after installing the SnapCenter Server and the respective plug-ins. For more information, see [Generate CA Certificate CSR file](#).

You can also deploy CA certificate for SnapCenter plug-in for VMware vSphere. For more information, see [Create and import certificates](#).

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