



# **Manage encryption with System Manager**

## **ONTAP 9**

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# Manage encryption with System Manager

## Encrypt stored data in your ONTAP cluster using software-based encryption

Use volume encryption to ensure that volume data cannot be read if the underlying device is repurposed, returned, misplaced, or stolen. Volume encryption does not require special disks; it works with all HDDs and SSDs.

### About this task

This procedure applies to FAS, AFF, and ASA systems. If you have an ASA r2 system (ASA A1K, ASA A90, ASA A70, ASA A50, ASA A30, ASA A20, or ASA C30), follow [these steps](#) to enable software level encryption. ASA r2 systems provide a simplified ONTAP experience specific to SAN-only customers.

Volume encryption requires a key manager. You can configure the Onboard Key Manager using System Manager. You can also use an external key manager, but you need to first set it up using the ONTAP CLI.

After the key manager is configured, new volumes are encrypted by default.

### Steps

1. Click **Cluster > Settings**.
2. Under **Encryption**, click  to configure the Onboard Key Manager for the first time.
3. To encrypt existing volumes, click **Storage > Volumes**.
4. On the desired volume, click  and then click **Edit**.
5. Select **Enable encryption**.

## Encrypt stored data in your ONTAP cluster using self-encrypting drives

Use disk encryption to ensure that all data in a local tier cannot be read if the underlying device is repurposed, returned, misplaced, or stolen. Disk encryption requires special self-encrypting HDDs or SSDs.

### About this task

This procedure applies to FAS, AFF, and ASA systems. If you have an ASA r2 system (ASA A1K, ASA A90, ASA A70, ASA A50, ASA A30, ASA A20, or ASA C30), follow [these steps](#) to enable hardware level encryption. ASA r2 systems provide a simplified ONTAP experience specific to SAN-only customers.

Disk encryption requires a key manager. You can configure the onboard key manager using System Manager. You can also use an external key manager, but you need to first set it up using the ONTAP CLI.

If ONTAP detects self-encrypting disks, it prompts you to configure the onboard key manager when you create the local tier.

### Steps

1. Under **Encryption**, click  to configure the onboard key manager.
2. If you see a message that disks need to be rekeyed, click , and then click **Rekey Disks**.

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