



## Volumes

### HCI

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# Volumes

Storage is provisioned in the NetApp Element system as volumes. Volumes are block devices accessed over the network using iSCSI or Fibre Channel clients.

The NetApp Element Plug-in for vCenter Server enables you to create, view, edit, delete, clone, backup or restore volumes for user accounts. You can also manage each volume on a cluster, and add or remove volumes in volume access groups.

## Persistent volumes

Persistent volumes allow management node configuration data to be stored on a specified storage cluster, rather than locally with a VM, so that data can be preserved in the event of management node loss or removal. Persistent volumes are an optional yet recommended management node configuration.

If you are deploying a management node for NetApp HCI using the NetApp Deployment Engine, persistent volumes are enabled and configured automatically.

An option to enable persistent volumes is included in the installation and upgrade scripts when deploying a new management node. Persistent volumes are volumes on an Element software-based storage cluster that contain management node configuration information for the host management node VM that persists beyond the life of the VM. If the management node is lost, a replacement management node VM can reconnect to and recover configuration data for the lost VM.

Persistent volumes functionality, if enabled during installation or upgrade, automatically creates multiple volumes with NetApp-HCI- pre-pended to the name on the assigned cluster. These volumes, like any Element software-based volume, can be viewed using the Element software web UI, NetApp Element Plug-in for vCenter Server, or API, depending on your preference and installation. Persistent volumes must be up and running with an iSCSI connection to the management node to maintain current configuration data that can be used for recovery.



Persistent volumes that are associated with management services are created and assigned to a new account during installation or upgrade. If you are using persistent volumes, do not modify or delete the volumes or their associated account

## Find more information

- [Manage volumes](#)
- [NetApp Element Plug-in for vCenter Server](#)
- [SolidFire and Element Software Documentation Center](#)

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