



Configure datasets

SnapManager for Hyper-V

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Configure datasets

You can create, modify, view, and delete datasets based on your protection needs.

Requirements for creating a dataset

You must meet specific requirements when you want to create datasets to protect your data. You must first add the host or host cluster to SnapManager for Hyper-V and then add virtual machines to the host or host cluster.

Dataset name and description

When naming the dataset, you should use a naming convention at your site to help administrators locate and identify datasets, limited to these characters:

- a to z
- A to Z
- 0 to 9
- _ (underscore)
- - (hyphen)

Dataset resources

You must add the host or host cluster to SnapManager for Hyper-V before adding resources such as virtual machines to the dataset.

You can add hosts, dedicated virtual machines, or shared virtual machines to a dataset. If you add a host, you add all of the virtual machines that belong to the host. You can also add virtual machines belonging to different hosts to the dataset. Virtual machines can belong to multiple datasets.

 Dedicated and shared virtual machines that belong to the same host cluster should not exist in the same dataset. Adding these types of resources to a single dataset can cause the dataset backup to fail.

Virtual machines and ONTAP LUNs

All of the files associated with the virtual machines, including configuration files, Snapshot copies, and VHDs, must reside on ONTAP LUNs.

Dataset resource consumption

Only one application-consistent backup operation can occur on a host at any given time. If the same virtual machines belong to different datasets, you should not schedule an application-consistent backup of the datasets at the same time. If this occurs, one of the backup operations fails.

When creating a dataset, you should select all virtual machines that reside on a particular ONTAP LUN. This enables you to get all backups in one Snapshot copy and to reduce the space consumption on the storage system.

Create a dataset

You can create datasets for virtual machine resources that share the same protection requirements. You can add virtual machines to multiple datasets, as necessary.

What you'll need

You must have the following information available:

- Dataset name and description
- Virtual machine resources you plan to add to the dataset

About this task

Dedicated and shared disks that belong to the same host cluster should not be placed in the same dataset. Adding these types of resources to a single dataset can cause the dataset backup to fail. You can have only one type of VM per dataset: NAS or SAN. You cannot have mixed-mode datasets.

The Validate Dataset check box is selected by default. SnapManager for Hyper-V checks for any configuration errors in all VMs during the creation or modification of a dataset. You must ensure that the check box is not selected if you do not want to enable validation of the dataset.

Steps

1. From the navigation pane, click **Protection > Datasets**.
2. From the Actions pane, click **Create dataset**.
3. Complete the pages of the wizard.

After you finish

You should next add protection policies to the dataset that you created.

Modify a dataset

After you have created a dataset, you can modify the dataset description and the resources associated with the dataset.

About this task

The Validate Dataset check box is selected by default. SnapManager for Hyper-V checks for any configuration errors in all VMs during the creation or modification of a dataset. You must ensure that the check box is not selected if you do not want to enable validation of the dataset.

Steps

1. From the navigation pane, click **Protection > Datasets**.
2. Select the dataset that you want to modify.
3. From the Actions pane, click **Modify dataset**.
4. Complete the steps in the wizard.

View a dataset

You can view the virtual machines associated with a dataset.

Steps

1. From the navigation pane, click **Protection > Datasets**.
2. Expand the tree view to look at the virtual machines that belong to the dataset.

Delete a dataset

You can delete a dataset as your protection needs change.

About this task

Deleting a dataset does not delete the virtual machines that belong to the dataset. After the dataset is deleted, the virtual machines that belonged to it become unprotected if they do not belong to another dataset.

Steps

1. From the navigation pane, click **Protection > Datasets**.
2. Select the dataset that you want to delete.
3. From the Actions pane, click **Delete** and click **OK** to delete the dataset.

Deleting the dataset also deletes the scheduled jobs from all hosts that are members of the dataset. SnapManager for Hyper-V no longer manages the retention of backups when you delete the dataset, even if it is re-created with the same name.

Results

SnapManager for Hyper-V no longer protects the resources associated with the deleted dataset unless those resources belong to another dataset.

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