Configure protected and recovery site resources

ONTAP tools for VMware vSphere 10

NetApp
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Configure network mappings in ONTAP tools

You should configure your resource mappings like VM networks, ESXi hosts, and folders on both sites to enable the mapping of each resource from the protected site to the appropriate resource at the recovery site.

You should complete the following resource configurations:

- Network mappings
- Folder mappings
- Resource mappings
- Placeholder datastores

Before you begin

You should have connected the protected and recovery sites.

Steps

1. Log in to vCenter Server and select **Site Recovery** > **Sites**.
2. Select your protected site and select **Manage**.
3. Select **Network Mappings** > **New** in the manage tab to create a new network mapping.
4. In the Create Network Mapping wizard, do the following:
    a. Select **Automatically Prepare Mappings for Networks with Matching Names** and select **Next**.
    b. Select the required data center objects for the protected and recovery sites and select **Add Mappings**.
    c. Select **Next** after mappings are created successfully.
    d. Select the object used earlier to create reverse mapping, then select **Finish**.

Result

The Network Mappings page displays the protected site resources and the recovery site resources. You can follow the same steps for other networks in your environment.

Configure folder mappings in ONTAP tools

You should map your folders on the protected site and recovery site to enable communication between them.

Before you begin

You should have connected the protected and recovery sites.

Steps

1. Log in to vCenter Server and select **Site Recovery** > **Sites**.
2. Select your protected site and select **Manage**.
3. Select **Folder Mappings** > **Folder** icon in the Manage tab to create a new folder mapping.

4. In the Create Folder Mapping wizard, perform the following:
    a. Select **Automatically Prepare Mappings for Folders with Matching Names** and select **Next**.
    b. Select the required data center objects for the protected and recovery sites and select **Add Mappings**.
    c. Select **Next** after mappings are created successfully.
    d. Select the object used earlier to create reverse mapping and then select **Finish**.

Result

The Folder Mappings page displays the protected site resources and the recovery site resources. You can follow the same steps for other networks in your environment.

Configure resource mappings in ONTAP tools

You should map your resources on the protected site and recovery site so that virtual machines are configured to fail over into one group of hosts or the other.

Before you begin

You should have connected the protected and recovery sites.

> In VMware Live Site Recovery, resources can be resource pools, ESXi hosts, or vSphere clusters.

Steps

1. Log in to vCenter Server and select **Site Recovery** > **Sites**.
2. Select your protected site and select **Manage**.
3. Select **Resource Mappings** > **New** in the manage tab to create a new resource mapping.
4. In the Create Resource Mapping wizard, perform the following:
    a. Select **Automatically Prepare Mappings for Resource with Matching Names** and select **Next**.
    b. Select the required data center objects for the protected and recovery sites and select **Add Mappings**.
    c. Select **Next** after mappings are created successfully.
    d. Select the object used earlier to create reverse mapping and then select **Finish**.

Result

The Resource Mappings page displays the protected site resources and the recovery site resources. You can follow the same steps for other networks in your environment.

Configure placeholder datastores in ONTAP tools

Configure a placeholder datastore to reserve space in the vCenter inventory at the recovery site for protected virtual machines (VMs). Placeholder datastores require minimal capacity, because placeholder VMs are small and typically use only a few hundred kilobytes.

Before you begin

- Ensure that the protected and recovery sites are connected.

- Verify that resource mappings have been configured.

Steps

1. Log in to vCenter Server and select **Site Recovery** > **Sites**.
2. Select your protected site and select **Manage**.
3. Select **Placeholder Datastores** > **New** in the manage tab to create a new placeholder datastore.
4. Select the appropriate datastore and select **OK**.

> Placeholder datastores may reside on local or remote storage, but they don't require replication.

5. Repeat steps 3 to 5 to configure a placeholder datastore for the recovery site.

Configure SRA using the array manager in ONTAP tools

You can configure Storage Replication Adapter (SRA) by using the Array Manager wizard of VMware Live Site Recovery to enable interactions between VMware Live Site Recovery and storage virtual machines (SVMs).

Before you begin

- You should have paired the protected sites and recovery sites in VMware Live Site Recovery.
- You should have configured your onboarded storage before configuring the array manager.
- You should have configured and replicated the SnapMirror relationships between the protected sites and recovery sites.
- You should have enabled the SVM management LIFs to enable multitenancy.

SRA supports cluster-level management and SVM-level management. If you add storage at a cluster level, then you can discover and perform operations on all the SVMs in the cluster. If you add storage at an SVM level, then you can manage only that specific SVM.

Steps

1. In VMware Live Site Recovery, select **Array Managers** > **Add Array Manager**.
2. Enter the following information to describe the array in VMware Live Site Recovery:
   a. Enter a name to identify the array manager in the **Display Name** field.
   b. In the **SRA Type** field, select **NetApp Storage Replication Adapter for ONTAP**.
   c. Enter the information to connect to the cluster or the SVM:
      - If you're connecting to a cluster, you should enter the cluster management LIF.
      - If you're connecting directly to an SVM, you should enter the IP address of the SVM management LIF.

> When configuring the array manager, you should use the same connection (IP address) for the storage system that was used to onboard the storage system in ONTAP tools for VMware vSphere. For example, if the array manager configuration is SVM scoped, then the storage under ONTAP tools for VMware vSphere should be added at SVM level.

d. If connecting to a cluster, specify the SVM name in the **SVM name** field, or leave it blank to manage all SVMs in the cluster.

e. Enter the volumes to be discovered in the **Volume include list** field.

   You can enter the source volume at the protected site and the replicated destination volume at the recovery site.

   For example, if you want to discover volume src_vol1 that is in a SnapMirror relationship with volume dst_vol1, you should specify src_vol1 in the protected site field and dst_vol1 in the recovery site field.

f. **(Optional)** Enter the volumes to be excluded from discovery in the **Volume exclude list** field.

   You can enter the source volume at the protected site and the replicated destination volume at the recovery site.

   For example, if you want to exclude volume *src_vol1* that is in a SnapMirror relationship with volume *dst_vol1*, you should specify *src_vol1* in the protected site field and *dst_vol1* in the recovery site field.

3. Select **Next**.
4. Verify that the array is discovered and displayed at the bottom of the Add Array Manager window and select **Finish**.

You can follow the same steps for the recovery site by using the appropriate SVM management IP addresses and credentials. On the Enable Array Pairs screen of the Add Array Manager wizard, you should verify that the correct array pair is selected, and that it shows as ready to be enabled.

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