


SITE RECOVERY MANAGER POST CONFIGURATION – PART 2

In this blog, I am going to breakdown various configurations we have to complete on SRM, REP and then perform test VM failover.


The purpose of this exercise is to make sure, if production data center goes down the recovery site will take over all the VM and the business will function as usual without any delay or downtime. This is what SRM does.

Make sure your Site Recovery is running at both the sites without any issue. All should be GREEN.

 VCPD.RAMLAN.CA

| | | |
|--|-----------------|---------------------------|
| ▼ vSphere Replication | ✓ OK | CONFIGURE |
| Server | 192.168.0.79 | |
| Version | 8.5.0.19237281 | |
| Currently serving Site Recovery client | | |
| ▼ Site Recovery Manager | ✓ OK | CONFIGURE |
| Server | 192.168.0.78 | |
| Version | 8.5.0.18710000 | |
| ID | com.vmware.vcDr | |

[OPEN Site Recovery](#)

 VCDR.RAMLAN.CA

| | | |
|--|-----------------|---------------------------|
| ▼ vSphere Replication | ✓ OK | CONFIGURE |
| Server | 192.168.0.89 | |
| Version | 8.5.0.19237281 | |
| Currently serving Site Recovery client | | |
| ▼ Site Recovery Manager | ✓ OK | CONFIGURE |
| Server | 192.168.0.88 | |
| Version | 8.5.0.18710000 | |
| ID | com.vmware.vcDr | |

[OPEN Site Recovery](#)

| Site Pair | Replications | Protection Groups | Recovery Plans |
|---|---|-------------------|----------------|
| <ol style="list-style-type: none"> 1. Site Paring 2. Network Mapping 3. Folder Mapping 4. Resource Mapping 5. Storage Policy Mapping 6. Placeholder Datastore | <ul style="list-style-type: none"> Network Mappings Folder Mappings Resource Mappings Storage Policy Mappings Placeholder Datastores | | |

SITE PARING:

Click Open Site Recovery – New Site Pair

VCPD.RAMLAN.CA

▼ vSphere Replication

✓ OK

CONFIGURE

Server

192.168.0.79

Version

8.5.0.19237281

Currently serving Site Recovery client

▼ Site Recovery Manager

✓ OK

CONFIGURE

Server

192.168.0.78

Version

8.5.0.18710000

ID

com.vmware.vcDr

→ OPEN Site Recovery

vmw Site Recovery

Menu

→ NEW SITE PAIR

Replications within the same vCenter Server

within VCPD.RAMLAN.CA

0

VIEW DETAILS

New Pair

1 Pair type

2 Peer vCenter Server

3 Services

4 Ready to complete

Pair type

Select a local vCenter Server.

vCenter Server

VCPD.RAMLAN.CA

Pair type

☒ Pair with a peer vCenter Server located in a different SSO domain

☐ Pair with a peer vCenter Server located in the same SSO domain

CANCEL

NEXT

New Pair

1 Pair type

2 Peer vCenter Server

3 Services

4 Ready to complete

Peer vCenter Server

All fields are required unless marked (optional)

Enter the Platform Services Controller details for the peer vCenter Server.

PSC host name

192.168.0.86

PSC port

443

User name

administrator@vsphere.local

Password

FIND VCENTER SERVER INSTANCES

Select a vCenter Server you want to pair.

vCenter Server

VCDR.RAMLAN.CA

CANCEL

BACK

NEXT

New Pair

1 Pair type

2 Peer vCenter Server

3 Services

4 Ready to complete

Services

The following services were identified on the selected vCenter Server instances. Select the ones you want to pair.

| Service | VCPD.RAMLAN.CA | VCDR.RAMLAN.CA |
|---|----------------|----------------|
| <input checked="" type="checkbox"/> Site Recovery Manager (com.vmware.vcDr) | SRM PRODUCTION | RECOVERY SITE |
| <input checked="" type="checkbox"/> vSphere Replication | REP PRODUCTION | RECOVERY SITE |

CANCEL

BACK

NEXT

New Pair

1 Pair type

2 Peer vCenter Server

3 Services

4 Ready to complete

Ready to complete

Review your settings selections before finishing the wizard.

| | | |
|--------------------------|---|----------------|
| Pair type | vCenter Server instances in different SSO domains | |
| vCenter Server instances | VCPD.RAMLAN.CA | VCDR.RAMLAN.CA |
| vSphere Replication | REP PRODUCTION | RECOVERY SITE |
| Site Recovery Manager | SRM PRODUCTION | RECOVERY SITE |

CANCEL

BACK

FINISH

Now you can see both Production and Recovery are connected.

VCPD.RAMLAN.CA ↔ VCDR.RAMLAN.CA

Site Recovery Manager

Protection Groups 0

Recovery Plans 0

vSphere Replication

Outgoing 0

Incoming 0

VIEW DETAILS

ACTIONS ▾

Replications within the same vCenter Server

within VCPD.RAMLAN.CA 0

VIEW DETAILS

VCDR.RAMLAN.CA ↔ VCPD.RAMLAN...

Site Recovery Manager

Protection Groups 0

Recovery Plans 0

vSphere Replication

Outgoing 0

Incoming 0

VIEW DETAILS

ACTIONS ▾

Replications within the same vCenter Server

within VCDR.RAMLAN.CA 0

VIEW DETAILS

When you click View Details – Summary – You will be prompted to enter credentials for Recovery site.

Log In Site

Enter vCenter Server credentials

vCenter Server

VCDR.RAMLAN.CA

User name

administrator@vsphere.local

Password

.....

CANCEL

LOG IN

Summary

RECONNECT

BREAK SITE PAIR

vCenter Server:

VCPD.RAMLAN.CA

VCDR.RAMLAN.CA

vCenter Version:

7.0.3, 19480866

7.0.3, 19480866

vCenter Host Name:

VCPD.RAMLAN.CA:443

VCDR.RAMLAN.CA:443

Platform Services Controller:

192.168.0.76:443

192.168.0.86:443

Site Recovery Manager

EXPORT/IMPORT SRM CONFIGURATION

Protection Groups:0

Recovery Plans:0

| | | |
|-----------------------|-----------------------------|-----------------------------|
| Name | SRM PRODUCTION RENAME | RECOVERY SITE RENAME |
| Server | 192.168.0.78:443 ACTIONS | 192.168.0.88:443 ACTIONS |
| Version | 8.5.0, 18710000 | 8.5.0, 18710000 |
| ID | com.vmware.vcDr | com.vmware.vcDr |
| Logged in as | VSPHERE.LOCAL\Administrator | VSPHERE.LOCAL\Administrator |
| Remote SRM connection | Connected | Connected |

vSphere Replication

Replicated VMs from REP PRODUCTION:0

Replicated VMs from RECOVERY SITE:0

| | | |
|--------|---------------------------|---------------------------|
| Name | REP PRODUCTION | RECOVERY SITE |
| Server | 192.168.0.79:8043 ACTIONS | 192.168.0.89:8043 ACTIONS |

Summary

RECONNECT

BREAK SITE PAIR

vCenter Server:

VCPD.RAMLAN.CA

VCDR.RAMLAN.CA

vCenter Version:

7.0.3, 19480866

7.0.3, 19480866

vCenter Host Name:

VCDR.RAMLAN.CA:443

VCPD.RAMLAN.CA:443

Platform Services Controller:

192.168.0.86:443

192.168.0.76:443

Site Recovery Manager

EXPORT/IMPORT SRM CONFIGURATION

Protection Groups:0

Recovery Plans:0

| | | |
|-----------------------|-----------------------------|-----------------------------|
| Name | RECOVERY SITE RENAME | SRM PRODUCTION RENAME |
| Server | 192.168.0.88:443 ACTIONS | 192.168.0.78:443 ACTIONS |
| Version | 8.5.0, 18710000 | 8.5.0, 18710000 |
| ID | com.vmware.vcDr | com.vmware.vcDr |
| Logged in as | VSPHERE.LOCAL\Administrator | VSPHERE.LOCAL\Administrator |
| Remote SRM connection | Connected | Connected |

NETWORK MAPPING:

For the lab, I did create Port Group on both Production and Recovery vCenter. They are called Toronto-Mgmt and Asia-Mgmt. I will be using this port group for network mapping.

VCPD.RAMLAN.CA

AMERICA

vDS-America

Toronto-Mgmt

VCDR.RAMLAN.CA

ASIA

vDS-Asia

Asia-Mgmt

Network Mappings

VCPD.RAMLAN.CA

VCDR.RAMLAN.CA

NEW

New Network Mappings

1 Creation mode

2 Recovery networks

3 Reverse mappings

4 Test networks

5 Ready to complete

Creation mode

Select the way you want to create mappings.

☒ Automatically prepare mappings for networks with matching names

The system automatically prepares mappings for networks with matching names under the selected network containers.

☐ Prepare mappings manually

Manually select which exact networks to map.

CANCEL

NEXT

New Network Mappings

1 Creation mode

2 Recovery networks

3 Reverse mappings

4 Test networks

5 Ready to complete

Recovery networks

Configure recovery network mappings for one or more networks. The mappings for objects marked with * are already created or prepared.

Search...

✓ VCPD.RAMLAN.CA

✓ ☐ AMERICA

✓ ☐ vDS-America

☒ Toronto-Mgmt

☐ vmk-Mgmt-DPortGroup

Search...

✓ VCDR.RAMLAN.CA

✓ ☐ ASIA

✓ ☐ vDS-Asia

☒ Asia-Mgmt

☐ vmk-Mgmt-DPortGroup

ADD MAPPINGS

| | |
|---|--|
| VCPD.RAMLAN.CA | VCDR.RAMLAN.CA |
| <div>AMERICA > vDS-America > Toronto-Mgmt</div> | <div>ASIA > vDS-Asia > Asia-Mgmt</div> |

1 mapping(s)

CANCEL

BACK

NEXT

New Network Mappings

1 Creation mode

2 Recovery networks

3 Reverse mappings

4 Test networks

5 Ready to complete

Reverse mappings

Select configured mappings for which to automatically create reverse mappings. This might overwrite existing mappings.

| | |
|---|---|
| <input checked="" type="checkbox"/> VCPD.RAMLAN.CA | <input type="checkbox"/> VCPD.RAMLAN.CA |
| <input checked="" type="checkbox"/> ASIA > vDS-Asia > Asia-Mgmt | <input type="checkbox"/> AMERICA > vDS-America > Toronto-Mgmt |

1

1 mapping(s)

CANCEL

BACK

NEXT

New Network Mappings

1 Creation mode

2 Recovery networks

3 Reverse mappings

4 Test networks

5 Ready to complete

Test networks

Test networks are used instead of the recovery networks while running tests. Isolated networks are automatically created and used during tests for all networks.

ⓘ If you want to use different networks for testing, you can do so in the table. This affects all network mappings that use the same network on the remote site.

| Recovery Network | Test Network |
|------------------|--|
| ASIA > Asia-Mgmt | Isolated network (auto created) CHANGE |

1 network(s)

CANCEL

BACK

NEXT

New Network Mappings

1 Creation mode

2 Recovery networks

3 Reverse mappings

4 Test networks

5 Ready to complete

Ready to complete

Review your settings before finishing the wizard

| VCPD.RAMLAN.CA | VCDR.RAMLAN.CA | Reverse Mapping | Test Network |
|---------------------------|-----------------------------|-----------------|------------------------------|
| AMERICA > vDS-America ... | ASIA > vDS-Asia > Asia-M... | Yes | Isolated network (auto cr... |

CANCEL

BACK

FINISH

Below are my network mappings between both the sites.

Network Mappings

VCPD.RAMLAN.CA

VCDR.RAMLAN.CA

NEW

| | | Recovery Network | Reverse Mapping | Test Network |
|--------------------------|----------------|------------------|-----------------|---------------------------------|
| <input type="checkbox"/> | VCPD.RAMLAN.CA | | | |
| <input type="checkbox"/> | Toronto-Mgmt | Asia-Mgmt | Yes | Isolated network (auto created) |

Network Mappings

VCPD.RAMLAN.CA

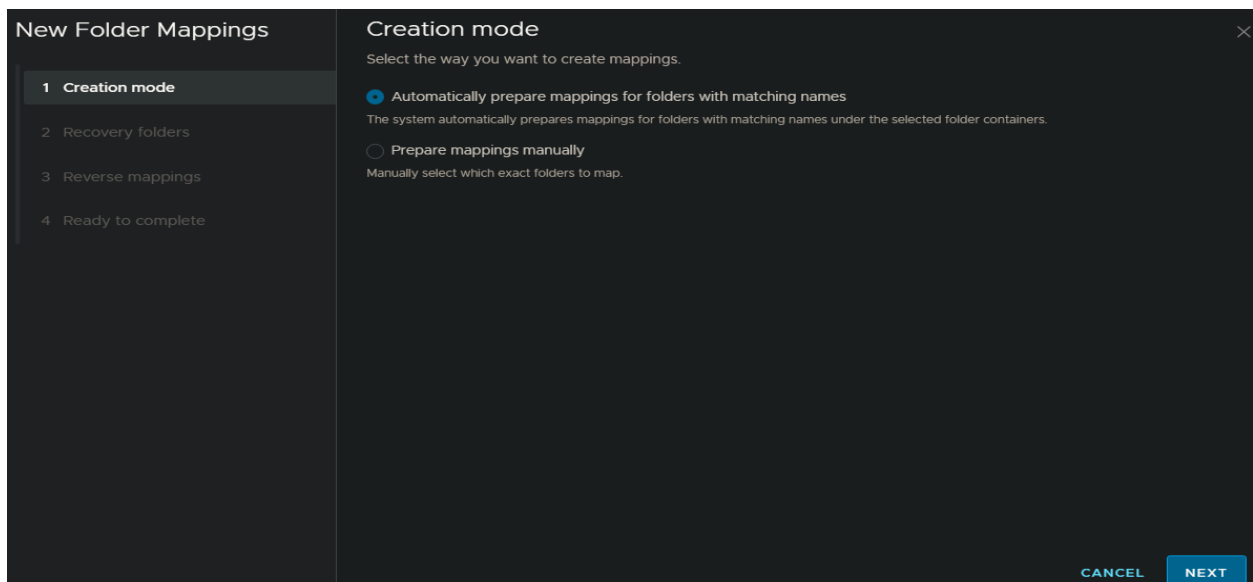
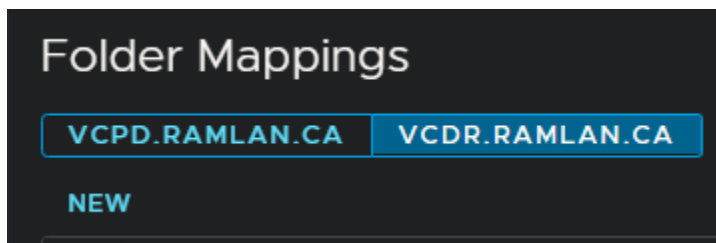
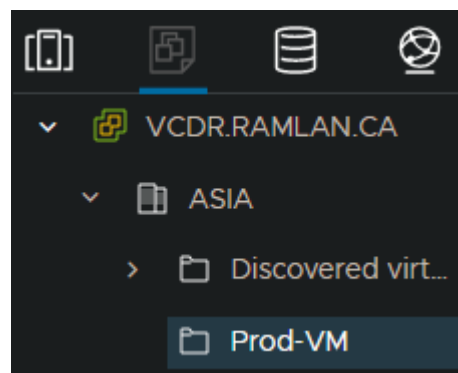
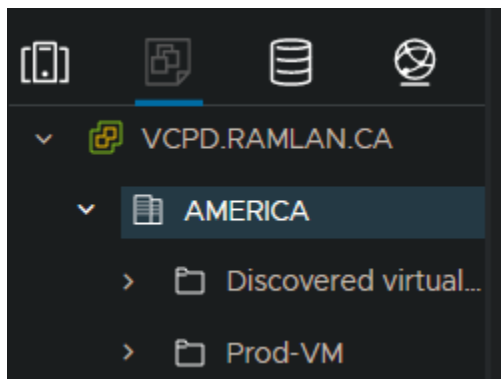
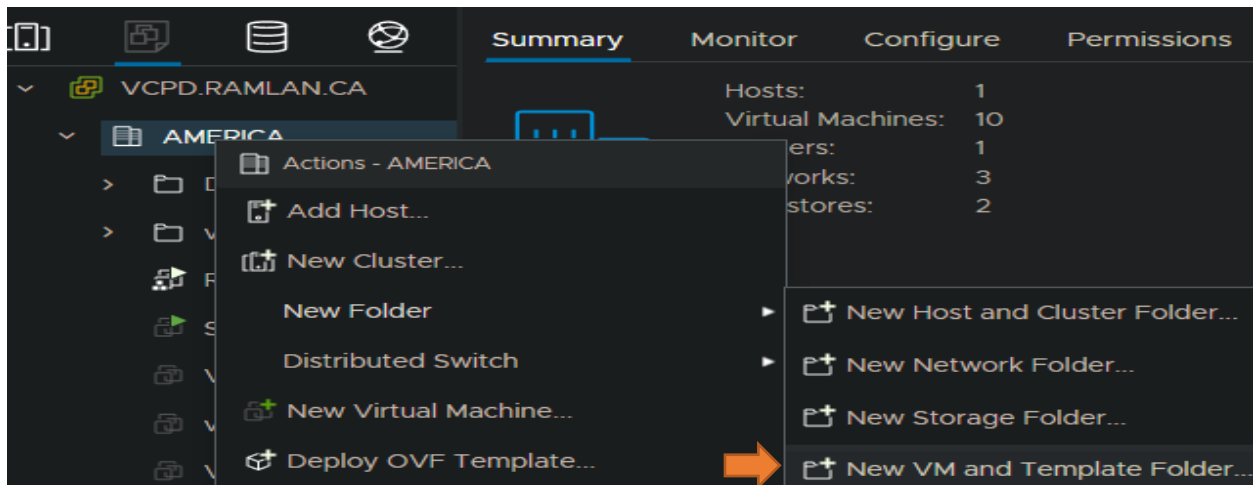
VCDR.RAMLAN.CA

NEW

| | | Recovery Network | Reverse Mapping | Test Network |
|--------------------------|----------------|------------------|-----------------|---------------------------------|
| <input type="checkbox"/> | VCDR.RAMLAN.CA | | | |
| <input type="checkbox"/> | Asia-Mgmt | Toronto-Mgmt | Yes | Isolated network (auto created) |

FOLDER MAPPING:

I did not create any folders before on both Production and Recovery vCenter. I will do it now on the production site.



New Folder Mappings

- 1 Creation mode
- 2 Recovery folders
- 3 Reverse mappings
- 4 Ready to complete

Recovery folders

Configure recovery folder mappings for one or more folders. The mappings for objects marked with * are already created or prepared.

Search...

VCPD.RAMLAN.CA

AMERICA

Discovered virtual machine

Prod-VM

vCLS

VCDR.RAMLAN.CA

ASIA

Discovered virtual machine

Prod-VM

vCLS

ADD MAPPINGS

| | |
|-------------------|----------------|
| VCPD.RAMLAN.CA | VCDR.RAMLAN.CA |
| AMERICA > Prod-VM | ASIA > Prod-VM |

1 mapping(s)

CANCEL

BACK

NEXT

New Folder Mappings

- 1 Creation mode
- 2 Recovery folders
- 3 Reverse mappings
- 4 Ready to complete

Reverse mappings

Select configured mappings for which to automatically create reverse mappings. This might overwrite existing mappings.

| | | | |
|-------------------------------------|----------------|---|-------------------|
| <input checked="" type="checkbox"/> | VCPD.RAMLAN.CA | ↑ | VCDR.RAMLAN.CA |
| <input checked="" type="checkbox"/> | ASIA > Prod-VM | | AMERICA > Prod-VM |

1

1 mapping(s)

CANCEL

BACK

NEXT

Below are my folder mappings between both the sites.

Folder Mappings

VCPD.RAMLAN.CA VCDR.RAMLAN.CA

NEW

| | | | | |
|--------------------------|----------------|---|----------------|------------------------|
| <input type="checkbox"/> | VCPD.RAMLAN.CA | ↑ | VCDR.RAMLAN.CA | Reverse Mapping Exists |
| <input type="checkbox"/> | Prod-VM | | Prod-VM | Yes |

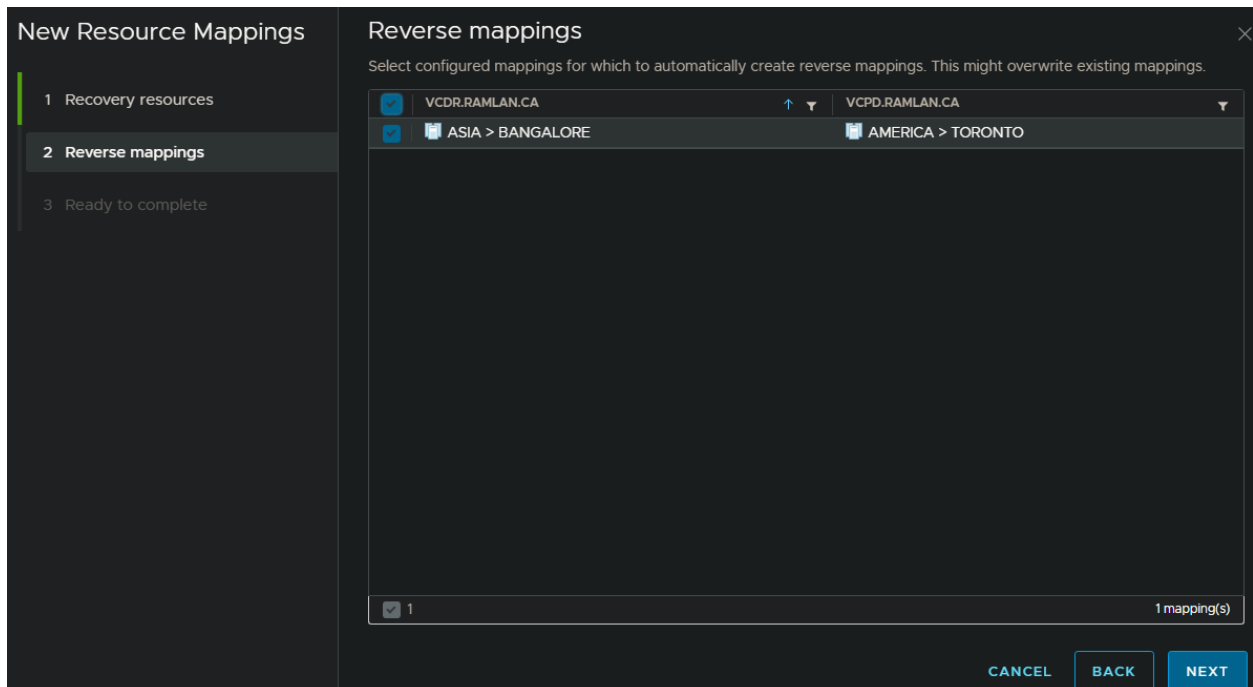
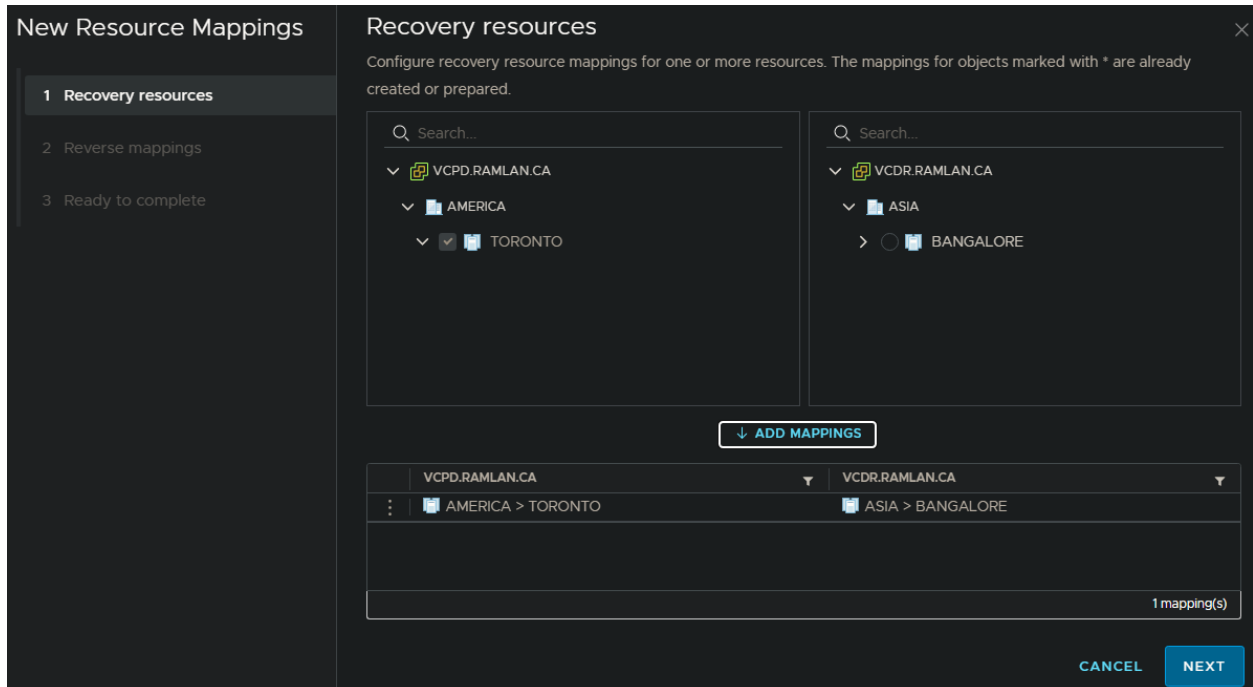
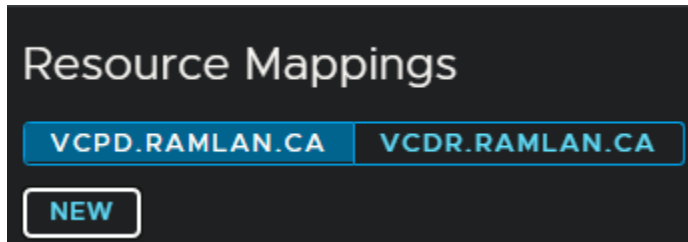
Folder Mappings

VCPD.RAMLAN.CA VCDR.RAMLAN.CA

NEW

| | | | | |
|--------------------------|----------------|---|----------------|------------------------|
| <input type="checkbox"/> | VCDR.RAMLAN.CA | ↑ | VCPD.RAMLAN.CA | Reverse Mapping Exists |
| <input type="checkbox"/> | Prod-VM | | Prod-VM | Yes |

RESOURCE MAPPING: This is basically your CLUSTER. I have 2 of them (Toronto & Bangalore)



New Resource Mappings

1 Recovery resources

2 Reverse mappings

3 Ready to complete

Ready to complete

Review your settings before finishing the wizard

| | | |
|-------------------|------------------|-----------------|
| VCPD.RAMLAN.CA | VCDR.RAMLAN.CA | Reverse Mapping |
| AMERICA > TORONTO | ASIA > BANGALORE | Yes |

CANCEL

BACK

FINISH

Below are my resource mappings between both the sites.

Resource Mappings

VCPD.RAMLAN.CA VCDR.RAMLAN.CA

NEW

| | | | | | |
|--------------------------|----------------|-----|----------------|---|-----------------|
| <input type="checkbox"/> | VCPD.RAMLAN.CA | ↑ ↓ | VCDR.RAMLAN.CA | ↓ | Reverse Mapping |
| <input type="checkbox"/> | TORONTO | | BANGALORE | | Yes |

Resource Mappings

VCPD.RAMLAN.CA VCDR.RAMLAN.CA

NEW

| | | | | | |
|--------------------------|----------------|-----|----------------|---|-----------------|
| <input type="checkbox"/> | VCDR.RAMLAN.CA | ↑ ↓ | VCPD.RAMLAN.CA | ↓ | Reverse Mapping |
| <input type="checkbox"/> | BANGALORE | | TORONTO | | Yes |

STORAGE POLICY MAPPING:

Storage Policy Mappings

VCPD.RAMLAN.CA VCDR.RAMLAN.CA

NEW

New Storage Policy Mappings

1 Creation mode

2 Recovery storage policies

3 Reverse mappings

4 Ready to complete

Creation mode

Select the way you want to create mappings.

☒ Automatically prepare mappings for storage policies with matching names

The system automatically prepares mappings for storage policy with matching names under the selected policy containers.

☐ Prepare mappings manually

Manually select which exact storage policies to map.

CANCEL

NEXT

New Storage Policy Mappings

1 Creation mode

2 Recovery storage policies

3 Reverse mappings

4 Ready to complete

Recovery storage policies

Configure recovery storage policy mappings for one or more storage policies.

Q Search...

VCPD.RAMLAN.CA

Encryption

Host-local PMem Default Storage Policy

Management Storage policy - Encryption

Management Storage Policy - Large

Management Storage Policy - Regular

Management Storage Policy - Single Node

Management Storage Policy - Stretched

Q Search...

VCDR.RAMLAN.CA

Host-local PMem Default Storage Policy

Management Storage policy - Encryption

Management Storage Policy - Large

Management Storage Policy - Regular

Management Storage Policy - Single Node

Management Storage Policy - Stretched

ADD MAPPINGS

| VCPD.RAMLAN.CA | VCDR.RAMLAN.CA |
|---|---|
| Host-local PMem Default Storage Policy | Host-local PMem Default Storage Policy |
| Management Storage policy - Encryption | Management Storage policy - Encryption |
| Management Storage Policy - Large | Management Storage Policy - Large |
| Management Storage Policy - Regular | Management Storage Policy - Regular |
| Management Storage Policy - Single Node | Management Storage Policy - Single Node |

1 - 5 of 11 mapping(s) < < 1 / 3 > >

CANCEL

BACK

NEXT

New Storage Policy Mappings

1 Creation mode

2 Recovery storage policies

3 Reverse mappings

4 Ready to complete

Reverse mappings

Select configured mappings for which to automatically create reverse mappings. This might overwrite existing mappings.

VCDR.RAMLAN.CA

Host-local PMem Default Storage Policy

Management Storage policy - Encryption

Management Storage Policy - Large

Management Storage Policy - Regular

Management Storage Policy - Single Node

Management Storage Policy - Stretched

Management Storage Policy - Stretched Lite

Management Storage policy - Thin

VM Encryption Policy

vSAN Default Storage Policy

VVol No Requirements Policy

VCPD.RAMLAN.CA

Host-local PMem Default Storage Policy

Management Storage policy - Encryption

Management Storage Policy - Large

Management Storage Policy - Regular

Management Storage Policy - Single Node

Management Storage Policy - Stretched

Management Storage Policy - Stretched Lite

Management Storage policy - Thin

VM Encryption Policy

vSAN Default Storage Policy

VVol No Requirements Policy

11

11 mapping(s)

CANCEL

BACK

NEXT

New Storage Policy Mappings

1 Creation mode

2 Recovery storage policies

3 Reverse mappings

4 Ready to complete

Ready to complete

Review your settings before finishing the wizard

| VCPD.RAMLAN.CA | VCDR.RAMLAN.CA | Reverse Mapping |
|--|--|-----------------|
| Host-local PMem Default Storage Policy | Host-local PMem Default Storage Policy | Yes |
| Management Storage policy - Encryption | Management Storage policy - Encryption | Yes |
| Management Storage Policy - Large | Management Storage Policy - Large | Yes |
| Management Storage Policy - Regular | Management Storage Policy - Regular | Yes |
| Management Storage Policy - Single Node | Management Storage Policy - Single Node | Yes |
| Management Storage Policy - Stretched | Management Storage Policy - Stretched | Yes |
| Management Storage Policy - Stretched Lite | Management Storage Policy - Stretched Lite | Yes |
| Management Storage policy - Thin | Management Storage policy - Thin | Yes |
| VM Encryption Policy | VM Encryption Policy | Yes |
| vSAN Default Storage Policy | vSAN Default Storage Policy | Yes |
| VVol No Requirements Policy | VVol No Requirements Policy | Yes |

CANCEL

BACK

FINISH



















Below are my storage policy mappings between both the sites.

Storage Policy Mappings

VCPD.RAMLAN.CA

VCDR.RAMLAN.CA

NEW



















| <input type="checkbox"/> | VCPD.RAMLAN.CA | <input type="checkbox"/> | VCDR.RAMLAN.CA | Reverse Mapping Exists |
|--------------------------|--|--------------------------|--|------------------------|
| <input type="checkbox"/> |  Host-local PMem Default Storage Policy | <input type="checkbox"/> |  Host-local PMem Default Storage Policy | Yes |
| <input type="checkbox"/> |  Management Storage policy - Encryption | <input type="checkbox"/> |  Management Storage policy - Encryption | Yes |
| <input type="checkbox"/> |  Management Storage Policy - Large | <input type="checkbox"/> |  Management Storage Policy - Large | Yes |
| <input type="checkbox"/> |  Management Storage Policy - Regular | <input type="checkbox"/> |  Management Storage Policy - Regular | Yes |
| <input type="checkbox"/> |  Management Storage Policy - Single Node | <input type="checkbox"/> |  Management Storage Policy - Single Node | Yes |
| <input type="checkbox"/> |  Management Storage Policy - Stretched | <input type="checkbox"/> |  Management Storage Policy - Stretched | Yes |
| <input type="checkbox"/> |  Management Storage Policy - Stretched Lite | <input type="checkbox"/> |  Management Storage Policy - Stretched Lite | Yes |
| <input type="checkbox"/> |  Management Storage policy - Thin | <input type="checkbox"/> |  Management Storage policy - Thin | Yes |
| <input type="checkbox"/> |  VM Encryption Policy | <input type="checkbox"/> |  VM Encryption Policy | Yes |
| <input type="checkbox"/> | vSAN Default Storage Policy | <input type="checkbox"/> | vSAN Default Storage Policy | Yes |
| <input type="checkbox"/> | VVol No Requirements Policy | <input type="checkbox"/> | VVol No Requirements Policy | Yes |

Storage Policy Mappings

VCPD.RAMLAN.CA

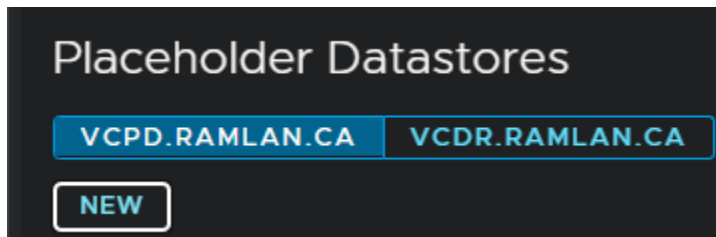
VCDR.RAMLAN.CA

NEW

| <input type="checkbox"/> | VCDR.RAMLAN.CA | <input type="checkbox"/> | VCPD.RAMLAN.CA | Reverse Mapping Exists |
|--------------------------|--|--------------------------|--|------------------------|
| <input type="checkbox"/> |  Host-local PMem Default Storage Policy | <input type="checkbox"/> |  Host-local PMem Default Storage Policy | Yes |
| <input type="checkbox"/> |  Management Storage policy - Encryption | <input type="checkbox"/> |  Management Storage policy - Encryption | Yes |
| <input type="checkbox"/> |  Management Storage Policy - Large | <input type="checkbox"/> |  Management Storage Policy - Large | Yes |
| <input type="checkbox"/> |  Management Storage Policy - Regular | <input type="checkbox"/> |  Management Storage Policy - Regular | Yes |
| <input type="checkbox"/> |  Management Storage Policy - Single Node | <input type="checkbox"/> |  Management Storage Policy - Single Node | Yes |
| <input type="checkbox"/> |  Management Storage Policy - Stretched | <input type="checkbox"/> |  Management Storage Policy - Stretched | Yes |
| <input type="checkbox"/> |  Management Storage Policy - Stretched Lite | <input type="checkbox"/> |  Management Storage Policy - Stretched Lite | Yes |
| <input type="checkbox"/> |  Management Storage policy - Thin | <input type="checkbox"/> |  Management Storage policy - Thin | Yes |
| <input type="checkbox"/> |  VM Encryption Policy | <input type="checkbox"/> |  VM Encryption Policy | Yes |
| <input type="checkbox"/> | vSAN Default Storage Policy | <input type="checkbox"/> | vSAN Default Storage Policy | Yes |
| <input type="checkbox"/> | VVol No Requirements Policy | <input type="checkbox"/> | VVol No Requirements Policy | Yes |

PLACEHOLDER DATASTORES:

I am using NFS share for placeholder datastores mapping.



New Placeholder Datastore

Select non-replicated datastores in which SRM creates placeholder virtual machines. To enable planned migration and reprotect, you must select placeholder datastores at both sites.

It is recommended to select a datastore with a minimum free capacity of 6 GB. For more details, see the Site Recovery Manager documentation section "How Site Recovery Manager interacts with vSphere Cluster Services".

SELECT ALL

CLEAR SELECTION

| <input type="checkbox"/> | Name | <div><div></div><div></div></div> |
|-------------------------------------|-------------------------------------|-----------------------------------|
| <input type="checkbox"/> | CISCODATASTORE (already configured) | |
| <input type="checkbox"/> | EMCDATASTORE | |
| <input checked="" type="checkbox"/> | PLACEHOLDER | |

☒ 1

3 datastore(s)

CANCEL

ADD

Placeholder Datastores

VCPD.RAMLAN.CA

VCDR.RAMLAN.CA

NEW

New Placeholder Datastore

Select non-replicated datastores in which SRM creates placeholder virtual machines. To enable planned migration and reprotect, you must select placeholder datastores at both sites.

It is recommended to select a datastore with a minimum free capacity of 6 GB. For more details, see the Site Recovery Manager documentation section "How Site Recovery Manager interacts with vSphere Cluster Services".

SELECT ALL

CLEAR SELECTION

| <input checked="" type="checkbox"/> | Name | <div><div></div><div></div></div> |
|-------------------------------------|----------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> | EMCDATASTORE | |
| <input type="checkbox"/> | HPDATASTORE (already configured) | |

☒ 1

2 datastore(s)

CANCEL

ADD

Below are my placeholder datastores mappings between both the sites.

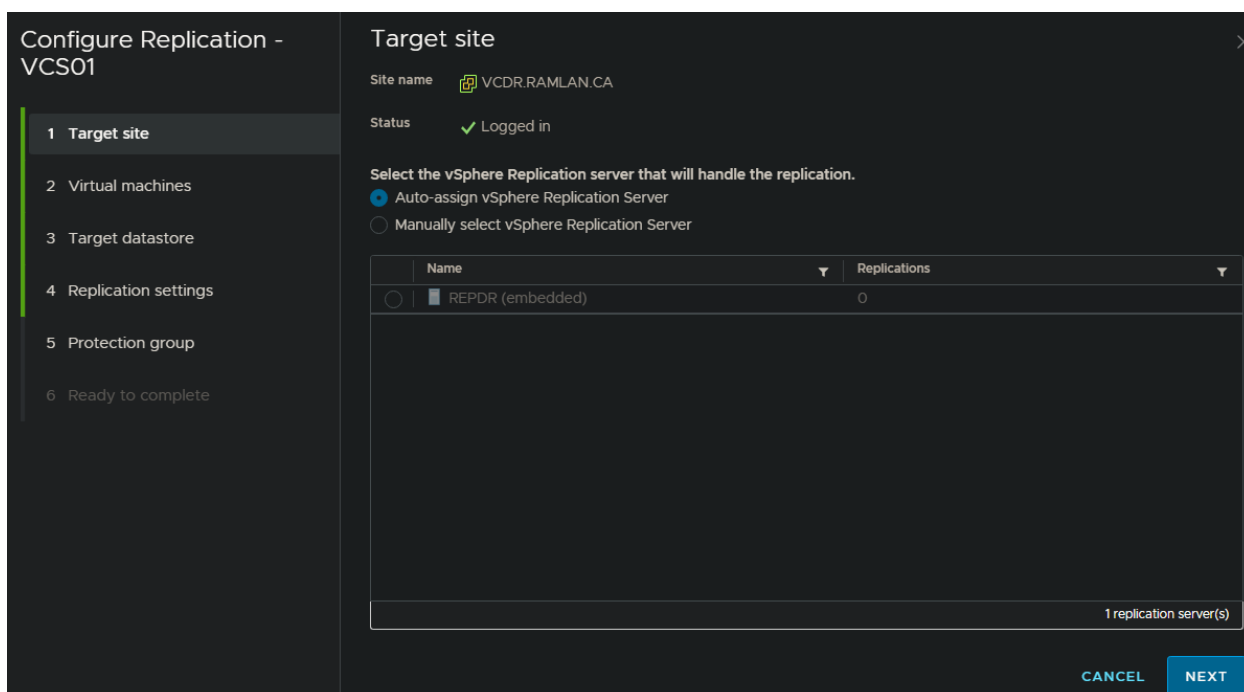
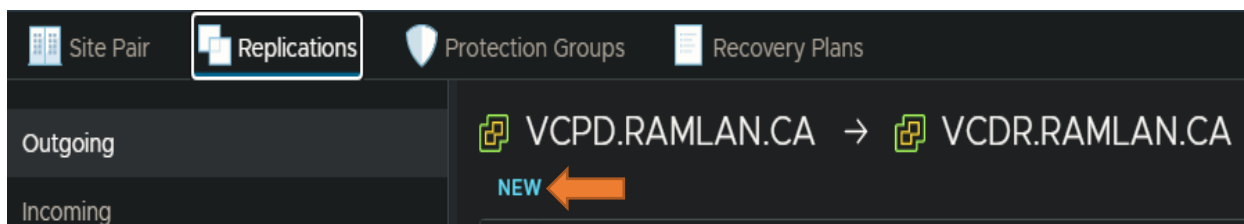
| Placeholder Datastores | | |
|-------------------------------|----------------|--------------|
| VCPD.RAMLAN.CA VCDR.RAMLAN.CA | | |
| NEW | | |
| <input type="checkbox"/> | Name | Host/Cluster |
| <input type="checkbox"/> | CISCODATASTORE | TORONTO |
| <input type="checkbox"/> | PLACEHOLDER | TORONTO |

| Placeholder Datastores | | |
|-------------------------------|--------------|--------------|
| VCPD.RAMLAN.CA VCDR.RAMLAN.CA | | |
| NEW | | |
| <input type="checkbox"/> | Name | Host/Cluster |
| <input type="checkbox"/> | EMCDATASTORE | BANGALORE |
| <input type="checkbox"/> | HPDATASTORE | BANGALORE |

With above configuration we have completed everything from Site Pair.



REPLICATIONS:



For the purpose of testing, I am going to select just 1 VM only.

Configure Replication - VCS01

1 Target site

2 Virtual machines

3 Target datastore

4 Replication settings

5 Protection group

6 Ready to complete

Virtual machines

Select the virtual machines that you want to protect. Already replicated VMs are not shown in this list.

AllSelected (1)

SELECT ALLCLEAR SELECTION

| <input type="checkbox"/> | Name | VM Folder | Compute Resource |
|-------------------------------------|--------------|----------------------------|------------------|
| <input type="checkbox"/> | 192.168.0.76 | Discovered virtual machine | TORONTO |
| <input type="checkbox"/> | REPPD | AMERICA | TORONTO |
| <input type="checkbox"/> | SRMPD | AMERICA | TORONTO |
| <input checked="" type="checkbox"/> | VCS01 | Prod-VM | TORONTO |
| <input type="checkbox"/> | vNEXT 2025 | Prod-VM | TORONTO |
| <input type="checkbox"/> | VRDS | Prod-VM | TORONTO |
| <input type="checkbox"/> | VROPS | AMERICA | TORONTO |
| <input type="checkbox"/> | WS-W10 | Prod-VM | TORONTO |
| <input type="checkbox"/> | WS-W11 | Prod-VM | TORONTO |

☒ 19 VM(s)

CANCEL

BACK

NEXT

Configure Replication - VCS01

1 Target site

2 Virtual machines

3 Target datastore

4 Replication settings

5 Protection group

6 Ready to complete

Target datastore

Select a datastore for the replicated files.

Configure datastore per disk

Virtual machine "VCS01" is currently using 13.17 GB.

Disk format:Thin provision

VM storage policy:Datastore Default

| | Name | Capacity | Free | Type |
|----------------------------------|--------------|-----------|----------|------|
| <input type="radio"/> | EMCDATASTORE | 999.75 GB | 841.2 GB | VMFS |
| <input checked="" type="radio"/> | HPDATASTORE | 1.64 TB | 1.53 TB | VMFS |

2 datastore(s)

☐ Select seeds

☒ Auto-include new disks in replication

CANCEL

BACK

NEXT

Configure Replication - VCS01

1 Target site

2 Virtual machines

3 Target datastore

4 Replication settings

5 Protection group

6 Ready to complete

Replication settings

Configure the replication settings for the virtual machine.

Recovery point objective (RPO)

5 minutes24 hours

8 hours

☒ Enable point in time instances

Instances per day1

Days2

Keep 1 instances per day for the last 2 days.

If the RPO period is longer than 24 hours, you might want to decrease the RPO value to allow vSphere Replication to create the number of instances that you want to keep.

☐ Enable guest OS quiescing

☒ Enable network compression for VR data

☐ Enable encryption for VR data

CANCEL

BACK

NEXT

Will create Protection Group later.

Configure Replication - VCS01

1 Target site

2 Virtual machines

3 Target datastore

4 Replication settings

5 Protection group

6 Ready to complete

Protection group

You can add these virtual machines to a protection group.

☐ Add to existing protection group

☐ Add to new protection group

☒ Do not add to protection group now

CANCEL

BACK

NEXT

Configure Replication - VCS01

1 Target site

2 Virtual machines

3 Target datastore

4 Replication settings

5 Protection group

6 Ready to complete

Ready to complete

Review your selected settings.

| | |
|--------------------------|--|
| Target site | VCDR.RAMLAN.CA |
| Replication server | Auto-assign |
| VM storage policy | Datastore Default |
| Target datastore | HPDATASTORE |
| Auto-replicate new disks | Enabled |
| Quiescing | Disabled |
| Network compression | Enabled |
| Encryption | Disabled |
| Recovery point objective | 8 hours |
| Points in time recovery | Enabled |
| Instances for recovery | Keep 1 instances per day for the last 2 days |
| Protection group | none |

CANCEL

BACK


FINISH


When you click Finish – the replication should commence. For me it took about 3 minutes for 1 VM.

VCPD.RAMLAN.CA → VCDR.RAMLAN.CA

NEW

| <input type="checkbox"/> | Virtual Machine | Status | RPO | Target | Replication Server |
|--------------------------|-----------------|--------------|---------|---------------|--------------------|
| <input type="checkbox"/> | > VCS01 | ⚠ Not Active | 8 hours | RECOVERY SITE | REPDR |

 VCPD.RAMLAN.CA

 VCDR.RAMLAN.CA

NEW

RECONFIGURE

PAUSE

RESUME

REMOVE

SYNC NOW

| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Virtual Machine | Status | RPO | Target | Replication Server |
|--|-------------------------------------|-------------------|--|---------|--|--------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | VCS01 | ⚠ Not Active | 8 hours | RECOVERY SITE | REPDR |
| Sync operation in progress: 13 % done. ⓘ ↻ | | | | | | |
| <div></div> | | | | | | |
| Configured disks: | | 1 of 1 | Last instance sync point: No instances | | | |
| Auto-replicate new disks | | Enabled | Last sync duration: | | | |
| Managed by: | | VR | Last sync size: | | | |
| Quiescing: | | Disabled | Lag time: | | | |
| Network compression: | | Enabled | RPO: | | 8 hours | |
| Encryption: | | Disabled | Points in time: | | Enabled (keep 1 instances per day for the last 2 days) | |
| Datastore: | | HPDATASTORE | Replica disk usage: | | 6.28 GB | |
| Storage policy: | | Datastore Default | Replication ID | | GID-813d3aa5-4544-4e44-8bab-a27dd8e51bdb | |

VCPD.RAMLAN.CA → VCDR.RAMLAN.CA

NEW

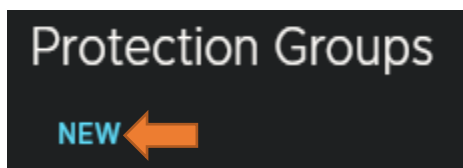
| <input type="checkbox"/> | Virtual Machine | Status | RPO | Target | Replication Server |
|--------------------------|--------------------------|-------------------|---------------------------|--|--------------------|
| <input type="checkbox"/> | VCS01 | OK | 8 hours | RECOVERY SITE | REPDR |
| | Configured disks: | 1 of 1 | Last instance sync point: | May 10, 2022, 12:17:29 PM | |
| | Auto-replicate new disks | Enabled | Last sync duration: | 3 minutes and 28 seconds | |
| | Managed by: | VR | Last sync size: | 15.16 GB | |
| | Quiescing: | Disabled | Lag time: | 1 minute and 24 seconds | |
| | Network compression: | Enabled | RPO: | 8 hours | |
| | Encryption: | Disabled | Points in time: | Enabled (keep 1 instances per day for the last 2 days) | |
| | Datastore: | HPDATASTORE | Replica disk usage: | 15.16 GB | |
| | Storage policy: | Datastore Default | Replication ID | GID-813d3aa5-4544-4e44-8bab-a27dd8e51bdb | |

PROTECTION GROUP & RECOVERY PLAN: Now we can create Protection Group & Recovery Plans



A protection group (pg) is a collection of virtual machines that VMware Site Recovery Manager protects together. There are different types of pg with array-based replication, VVOLs, vSphere replication, however, they can be mixed together in a recovery plan (more on that later).

With protection groups, VMware Site Recovery Manager will create placeholder VMs in the recovery site with the right mappings, which is part of the upside of using Site Recovery Manager and not just vSphere Replication on its own.



New Protection Group

- 1 Name and direction
- 2 Type
- 3 Datastore groups
- 4 Recovery plan
- 5 Ready to complete

Name and direction

All fields are required unless marked (optional)

Name: Critical VM
69 characters remaining

Description: (Optional)
This PG is for all the VM's that are critical for business to run 24/7 365
4022 characters remaining

Direction:
☒ SRM PRODUCTION → RECOVERY SITE
☐ RECOVERY SITE → SRM PRODUCTION

Location:

Protection Groups

CANCEL NEXT

New Protection Group

1 Name and direction

2 Type

3 Virtual machines

4 Recovery plan

5 Ready to complete

Type

Select the type of protection group you want to create:

☐ Datastore groups (array-based replication)

Protect all virtual machines which are on specific datastores.

☒ Individual VMs (vSphere Replication)

Protect specific virtual machines, regardless of the datastores.

☐ Virtual Volumes (vVol replication)

Protect virtual machines which are on replicated vVol storage.

☐ Storage policies (array-based replication)

Protect virtual machines with specific storage policies.

CANCEL

BACK

NEXT

New Protection Group

1 Name and direction

2 Type

3 Virtual machines

4 Recovery plan

5 Ready to complete

Virtual machines

Select the virtual machines to include in the protection group

All

Selected (1)

| <input checked="" type="checkbox"/> | Virtual machine | ↑ | ▼ | Status | ▼ | Protection Status | ▼ |
|-------------------------------------|-----------------|---|---|--------|---|------------------------------|---|
| <input checked="" type="checkbox"/> | VCS01 | | | OK | | Add to this protection group | |

☒ 11 VM(s)

CANCEL

BACK

NEXT

New Protection Group

1 Name and direction

2 Type

3 Virtual machines

4 Recovery plan

5 Ready to complete

Recovery plan

You can optionally add this protection group to a recovery plan.

☐ Add to existing recovery plan

☒ Add to new recovery plan

☐ Do not add to recovery plan now

Recovery plan name:

LABTEST

73 characters remaining

CANCEL

BACK

NEXT

New Protection Group

1 Name and direction

2 Type

3 Virtual machines

4 Recovery plan

5 Ready to complete

Ready to complete

Review your selected settings.

| | |
|------------------------|--|
| Name | Critical VM |
| Description | This PG is for all the VM's that are critical for business to run 24/7 365 |
| Protected site | SRM PRODUCTION |
| Recovery site | RECOVERY SITE |
| Location | Protection Groups |
| Protection group type | Individual VMs (vSphere Replication) |
| Total virtual machines | 1 |
| Recovery plan | <input checked="" type="checkbox"/> LABTEST (new) |

CANCEL

BACK

FINISH

Protection Groups

NEW

| Name | Protection Status | Recovery Status | Protection Type | Protected Site | Recovery Site |
|-----------------------------------|-------------------|-----------------|-----------------|----------------|---------------|
| <input type="radio"/> Critical VM | ✓ OK | Ready | Individual VMs | SRM PRODUCTION | RECOVERY SITE |

Recovery Plans

NEW

| Name | Status | Protected Site | Recovery Site |
|-------------------------------|---------|----------------|---------------|
| <input type="radio"/> LABTEST | → Ready | SRM PRODUCTION | RECOVERY SITE |

Site PairReplicationsProtection GroupsRecovery Plans

LABTEST

SummaryRecovery StepsIssuesHistoryPermissionsProtection GroupsVirtual Machines

Recovery Plan: LABTEST

Protected Site: SRM PRODUCTION

Recovery Site: RECOVERY SITE

Description:

Plan Status

Plan Status: → Ready

This plan is ready for test or recovery

Recent History

This list is empty

VM Status

Ready for Recovery: 1 VMs

In Progress: 0 VMs

Success: 0 VMs

Warning: 0 VMs

Error: 0 VMs

Incomplete: 0 VMs

Total: 1 VMs

Site PairReplicationsProtection GroupsRecovery Plans

LABTEST

SummaryRecovery StepsIssuesHistoryPermissionsProtection GroupsVirtual Machines

EXPORT STEPS

TEST

CLEANUP

RUN

REPROTECT

CANCEL

Plan status: → Ready

Description: This plan is ready for test or recovery

View: Test Steps

| Recovery Step | Status | Step Started | Step Completed |
|--|--------|--------------|----------------|
| 1. Synchronize storage | | | |
| 2. Restore recovery site hosts from standby | | | |
| 3. Suspend non-critical VMs at recovery site | | | |
| 4. Create writable storage snapshot | | | |
| 5. Configure test networks | | | |
| 6. Power on priority 1 VMs | | | |
| 7. Power on priority 2 VMs | | | |
| 8. Power on priority 3 VMs | | | |
| 9. Power on priority 4 VMs | | | |
| 10. Power on priority 5 VMs | | | |

Site PairReplicationsProtection GroupsRecovery Plans

LABTEST

SummaryRecovery StepsIssuesHistoryPermissionsProtection GroupsVirtual Machines

| Name | Protection Status | Recovery Status | Protection Type | Protected Site | Recovery Site |
|-----------------------------------|-------------------|-----------------|-----------------|----------------|---------------|
| <input type="radio"/> Critical VM | ✓ OK | Ready | Individual VMs | SRM PRODUCTION | RECOVERY SITE |

Site PairReplicationsProtection GroupsRecovery Plans

LABTEST

SummaryRecovery StepsIssuesHistoryPermissionsProtection GroupsVirtual Machines

SELECT ALL

CLEAR SELECTION

| Virtual Machine | Recovery Status | Status Modified By | Protection Group | Priority | Dependencies | Final Power State | vMotion |
|-----------------|--------------------|--------------------|------------------|------------|--------------|-------------------|----------|
| VCSD1 | Ready for recovery | | Critical VM | 3 (Medium) | | On | Disabled |

TESTING RECOVERY PLAN:

Now that the Recovery Plan is created, it is time to test it. As we mentioned earlier, it is important to test your disaster recovery infrastructure regularly to ensure it works when you need it.

The screenshot shows the 'Test - LABTEST' dialog box with the 'Confirmation options' step selected. The 'TEST' button in the top navigation bar is highlighted with an orange arrow. The left sidebar shows '1 Confirmation options' and '2 Ready to complete'. The main area displays 'Test confirmation' with a warning icon and text: 'Running this plan in test mode will recover the virtual machines in a test environment on the recovery site.' Below this, the following settings are listed:

| | |
|--------------------|----------------|
| Protected site: | SRM PRODUCTION |
| Recovery site: | RECOVERY SITE |
| Server connection: | Connected |
| Number of VMs: | 1 |

Below the settings, the 'Storage options' section explains: 'Specify whether to replicate recent changes to the recovery site. This process might take several minutes and is only available if the sites are connected.' A checkbox labeled 'Replicate recent changes to recovery site' is checked. At the bottom right are 'CANCEL' and 'NEXT' buttons.

The screenshot shows the 'Test - LABTEST' dialog box with the 'Ready to complete' step selected. The left sidebar shows '1 Confirmation options' and '2 Ready to complete'. The main area displays 'Ready to complete' with the text 'Review your selected settings.' Below this is a table summarizing the configuration:

| | |
|-------------------------|---|
| Name | LABTEST |
| Protected site | SRM PRODUCTION |
| Recovery site | RECOVERY SITE |
| Server connection | Connected |
| Number of VMs | 1 |
| Storage synchronization | Replicate recent changes to recovery site |

At the bottom right are 'CANCEL', 'BACK', and 'FINISH' buttons.

The screenshot shows the 'Virtual Machines' tab in the LABTEST interface. The left sidebar shows 'LABTEST' and 'Virtual Machines'. The main area displays a table of virtual machines with columns for 'Virtual Machine', 'PRIORITY GROUP', and 'STARTUP ACTION'. The table contains one entry: 'VCS01'. To the right of the table is a 'Recovery Properties' panel for 'VCS01' with the following settings:

| | |
|---------------------|--|
| Priority Group | 3 (Medium) |
| VM Dependencies | None |
| VMotion | Disabled (The protection group of the VM does not support VMotion) |
| Shutdown Action | Shutdown guest OS before power off (requires VMware Tools) |
| Startup Action | Power on |
| Pre Power On Steps | None |
| Post Power On Steps | None |

Site Pair Replications Protection Groups **Recovery Plans**

LABTEST EDIT MOVE DELETE TEST CLEANUP RUN REPROTECT CANCEL

Summary **Recovery Steps** Issues History Permissions Protection Groups Virtual Machines

EXPORT STEPS TEST CLEANUP RUN REPROTECT CANCEL

Plan status: **Test in progress** 96%

Description: A test of this plan is currently in progress.

| Recovery Step | Status | Step Started | Step Completed |
|--|---------|-----------------------------------|-----------------------------------|
| 1. Synchronize storage | Success | Tuesday, May 10, 2022 12:44:48 PM | Tuesday, May 10, 2022 12:44:48 PM |
| 2. Restore recovery site hosts from standby | Success | Tuesday, May 10, 2022 12:44:48 PM | Tuesday, May 10, 2022 12:44:48 PM |
| 3. Suspend non-critical VMs at recovery site | Success | Tuesday, May 10, 2022 12:44:48 PM | Tuesday, May 10, 2022 12:44:48 PM |
| 4. Create writable storage snapshot | Success | Tuesday, May 10, 2022 12:44:48 PM | Tuesday, May 10, 2022 12:44:58 PM |
| 5. Configure test networks | Success | Tuesday, May 10, 2022 12:44:58 PM | Tuesday, May 10, 2022 12:44:59 PM |
| 6. Power on priority 1 VMs | Success | Tuesday, May 10, 2022 12:44:59 PM | Tuesday, May 10, 2022 12:44:59 PM |
| 7. Power on priority 2 VMs | Success | Tuesday, May 10, 2022 12:44:59 PM | Tuesday, May 10, 2022 12:44:59 PM |
| 8. Power on priority 3 VMs | Running | Tuesday, May 10, 2022 12:44:59 PM | 51% |
| 9. Power on priority 4 VMs | Success | Tuesday, May 10, 2022 12:44:59 PM | Tuesday, May 10, 2022 12:44:59 PM |
| 10. Power on priority 5 VMs | Success | Tuesday, May 10, 2022 12:44:59 PM | Tuesday, May 10, 2022 12:44:59 PM |

Site Pair Replications Protection Groups **Recovery Plans**

LABTEST EDIT MOVE DELETE TEST **CLEANUP** RUN REPROTECT CANCEL

Summary **Recovery Steps** Issues History Permissions Protection Groups Virtual Machines

EXPORT STEPS TEST CLEANUP RUN REPROTECT CANCEL

Plan status: **Test complete**

Description: The virtual machines have been recovered in a test environment at the recovery site. Review the plan history to view any errors or warnings. When you are ready to remove the test environment, run cleanup on this plan.

| Recovery Step | Status | Step Started | Step Completed |
|--|---------|-----------------------------------|-----------------------------------|
| 1. Synchronize storage | Success | Tuesday, May 10, 2022 12:44:48 PM | Tuesday, May 10, 2022 12:44:48 PM |
| 2. Restore recovery site hosts from standby | Success | Tuesday, May 10, 2022 12:44:48 PM | Tuesday, May 10, 2022 12:44:48 PM |
| 3. Suspend non-critical VMs at recovery site | Success | Tuesday, May 10, 2022 12:44:48 PM | Tuesday, May 10, 2022 12:44:48 PM |
| 4. Create writable storage snapshot | Success | Tuesday, May 10, 2022 12:44:48 PM | Tuesday, May 10, 2022 12:44:58 PM |
| 5. Configure test networks | Success | Tuesday, May 10, 2022 12:44:58 PM | Tuesday, May 10, 2022 12:44:59 PM |
| 6. Power on priority 1 VMs | Success | Tuesday, May 10, 2022 12:44:59 PM | Tuesday, May 10, 2022 12:44:59 PM |
| 7. Power on priority 2 VMs | Success | Tuesday, May 10, 2022 12:44:59 PM | Tuesday, May 10, 2022 12:44:59 PM |
| 8. Power on priority 3 VMs | Success | Tuesday, May 10, 2022 12:44:59 PM | Tuesday, May 10, 2022 12:46:11 PM |
| 9. Power on priority 4 VMs | Success | Tuesday, May 10, 2022 12:44:59 PM | Tuesday, May 10, 2022 12:44:59 PM |
| 10. Power on priority 5 VMs | Success | Tuesday, May 10, 2022 12:44:59 PM | Tuesday, May 10, 2022 12:44:59 PM |

Once the job is finished, you can look in the vCenter at the recovery site and you will find the recovered virtual machines in running state. Again, the source VMs are not impacted and remain running.

VCS01 ACTIONS

Summary Monitor Configure Permissions Datastores Networks Snapshots Updates

VCDR.RAMLAN.CA

ASIA

BANGALORE

192.168.0.85

192.168.0.86

REPDR

SRMDR

VCS01

VROPSDR

Guest OS: Microsoft Windows Server 2022 (64-bit)

Compatibility: ESXi 7.0 U2 and later (VM version 19)

VMware Tools: Running, version:11365 (Current)

MORE INFO

DNS Name: VCS01.RAMLAN.CA

IP Addresses: 169.254.221.182

Host: 192.168.0.85

Managed By: VMware vCenter Site Recovery Manager Extension

DETAILS

VM Hardware

Related Objects

| | |
|----------|--|
| Cluster | BANGALORE |
| Host | 192.168.0.85 |
| Networks | srmpg-125ac289-e67b-466e-8a91-bb3d33d2f21d |
| Storage | HPDATASTORE |

Once you are happy with your DR test, hit the CLEANUP button to remove the test environment and reset the plan to ready state.



LABTEST

EDITMOVEDELETETESTCLEANUPRUNREPROTECTCANCEL

SummaryRecovery StepsIssuesHistoryPermissionsProtection GroupsVirtual Machines

Cleanup - LABTEST

1 Confirmation options2 Ready to complete

Confirmation options

Cleanup confirmation

Running a cleanup operation on this plan will remove the test environment and reset the plan to the Ready state.

Protected site:SRM PRODUCTIONRecovery site:RECOVERY SITEServer connection:ConnectedNumber of VMs:1

Cleanup options

If you are experiencing errors during cleanup, you can choose the Force Cleanup option to ignore all errors and return the plan to the Ready state. If you use this option, you might need to clean up your storage manually, and you should run another test as soon as possible.

☐ Force cleanup

CANCELNEXT

Cleanup - LABTEST

1 Confirmation options2 Ready to complete

Ready to complete

Review your selected settings.

| | |
|-------------------|--------------------------------|
| Name | LABTEST |
| Protected site | SRM PRODUCTION |
| Recovery site | RECOVERY SITE |
| Server connection | Connected |
| Number of VMs | 1 |
| Force cleanup | Do not ignore cleanup warnings |

CANCELBACKFINISH

Site PairReplicationsProtection GroupsRecovery Plans

Q Search.

Recovery Plans

LABTEST

LABTESTEDITMOVEDELETETESTCLEANUPRUNREPROTECTCANCEL

SummaryRecovery StepsIssuesHistoryPermissionsProtection GroupsVirtual Machines

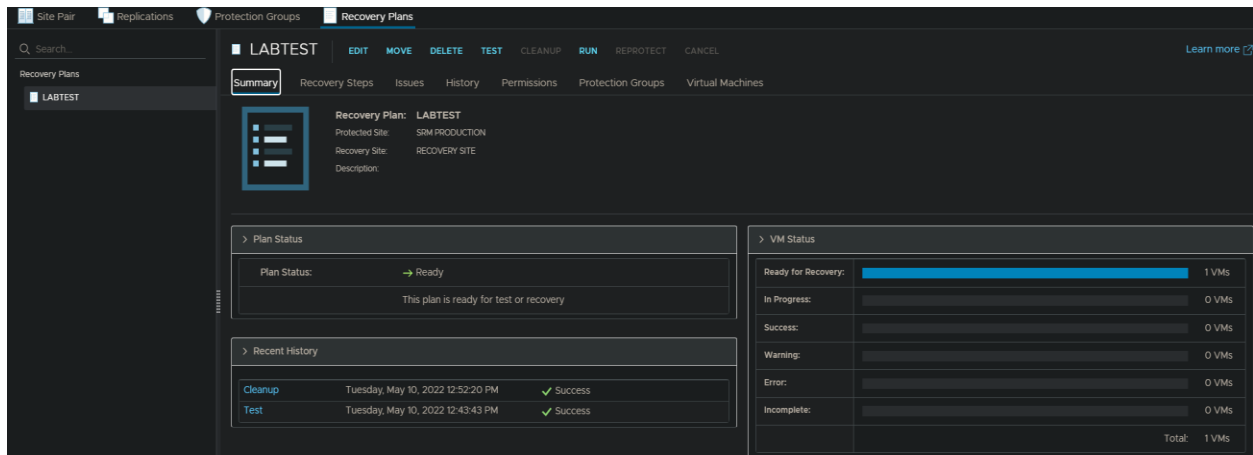
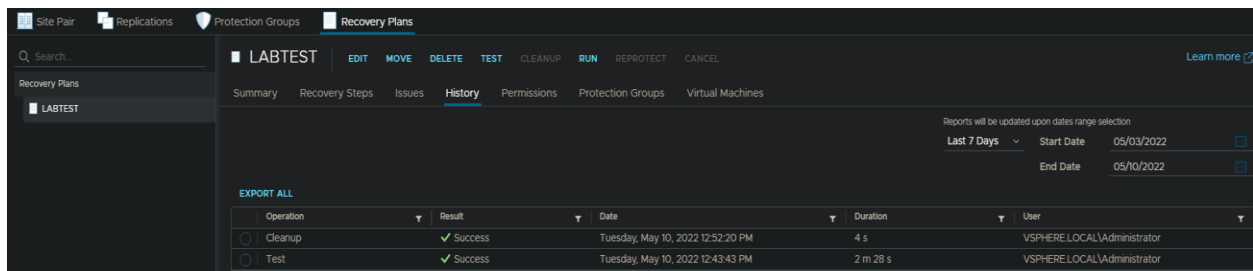
EXPORT STEPSTESTCLEANUPRUNREPROTECTCANCEL

Plan status:→ Ready

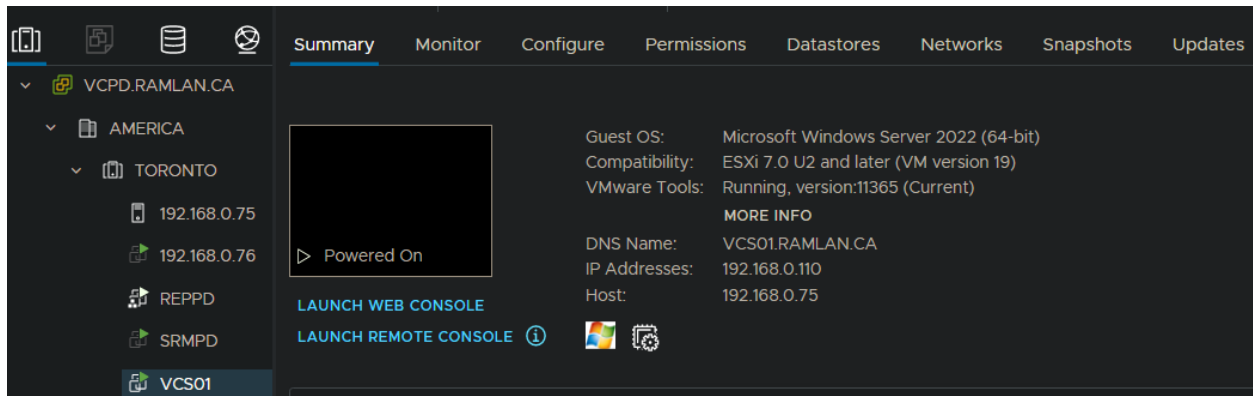
Description:This plan is ready for test or recovery

View: Test Steps

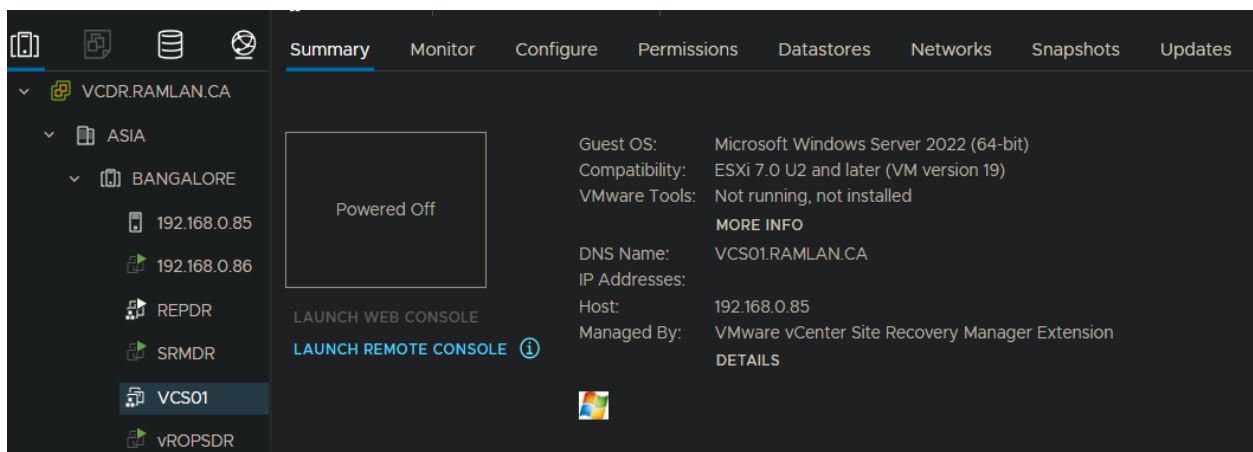
| Recovery Step | Status | Step Started | Step Completed |
|---|---------|-----------------------------------|-----------------------------------|
| 1. Restore recovery site hosts from standby | Success | Tuesday, May 10, 2022 12:52:20 PM | Tuesday, May 10, 2022 12:52:20 PM |
| 2. Power off test VMs at recovery site | Success | Tuesday, May 10, 2022 12:52:20 PM | Tuesday, May 10, 2022 12:52:24 PM |
| 3. Resume non-critical VMs at recovery site | | | |
| 4. Discard test data and reset storage | Success | Tuesday, May 10, 2022 12:52:21 PM | Tuesday, May 10, 2022 12:52:21 PM |



The VM is still running at the Production Site after the clean up.



No sign of VM running at the Recovery Site after the clean up.



EXECUTING RECOVERY PLAN: In the previous test section, we started a copy of the protected VM in an isolated network in the recovery environment while the source VM was kept running. Now we will execute the recovery plan which will switch the workload to the recovery environment.

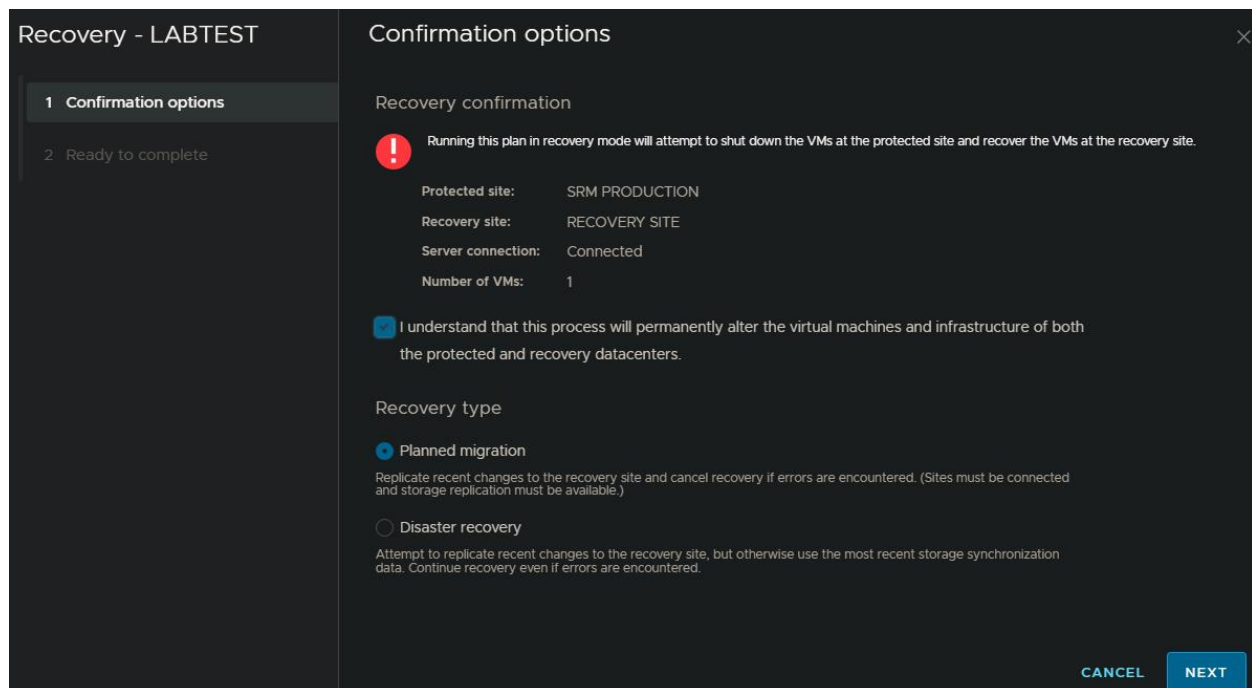
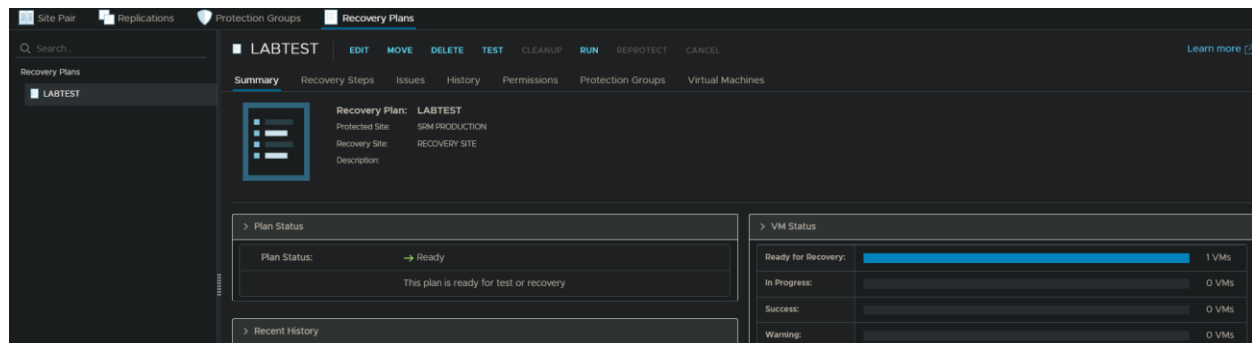
Note that there are 2 methods for Site recovery manager to execute a recovery plan:

Planned Migration: Replicate recent changes to the recovery site and cancel recovery if errors are encountered.

Disaster Recovery: Attempt to replicate recent changes to the recovery site, but otherwise use the most recent data. Continue recovery even if errors are encountered.

In this example, we will be performing the planned migration.

On the recovery plan page, make sure the status is Ready and click on the RUN button.



Recovery - LABTEST

1 Confirmation options

2 Ready to complete

| | |
|-------------------|-------------------|
| Name | LABTEST |
| Protected site | SRM PRODUCTION |
| Recovery site | RECOVERY SITE |
| Server connection | Connected |
| Number of VMs | 1 |
| Recovery type | Planned migration |

CANCEL

BACK

FINISH

Site PairReplicationsProtection GroupsRecovery Plans

LABTEST

SummaryRecovery StepsIssuesHistoryPermissionsProtection GroupsVirtual Machines

Recovery Plan: LABTEST

Protected Site: SRM PRODUCTION

Recovery Site: RECOVERY SITE

Description:

Plan Status

Plan Status: Recovery in progress

Recovery in progress

Recent History

| | | |
|---------|-----------------------------------|---------|
| Cleanup | Tuesday, May 10, 2022 12:52:20 PM | Success |
| Test | Tuesday, May 10, 2022 12:43:43 PM | Success |

VM Status

| | |
|---------------------|-------|
| Ready for Recovery: | 0 VMs |
| In Progress: | 1 VMs |
| Success: | 0 VMs |
| Warning: | 0 VMs |
| Error: | 0 VMs |
| Incomplete: | 0 VMs |
| Total: | 1 VMs |

SummaryMonitor

VCPD.RAMLAN.CA

AMERICA

TORONTO

192.168.0.75

192.168.0.76

REPPD

SRMPD

VCS01

Powered Off

LAUNCH WEB CONSOLE

LAUNCH REMOTE CONSOLE

SummaryMonitor

VCDR.RAMLAN.CA

ASIA

BANGALORE

192.168.0.85

192.168.0.86

REPDR

SRMDR

VCS01

Powered On

LAUNCH WEB CONSOLE

LAUNCH REMOTE CONSOLE

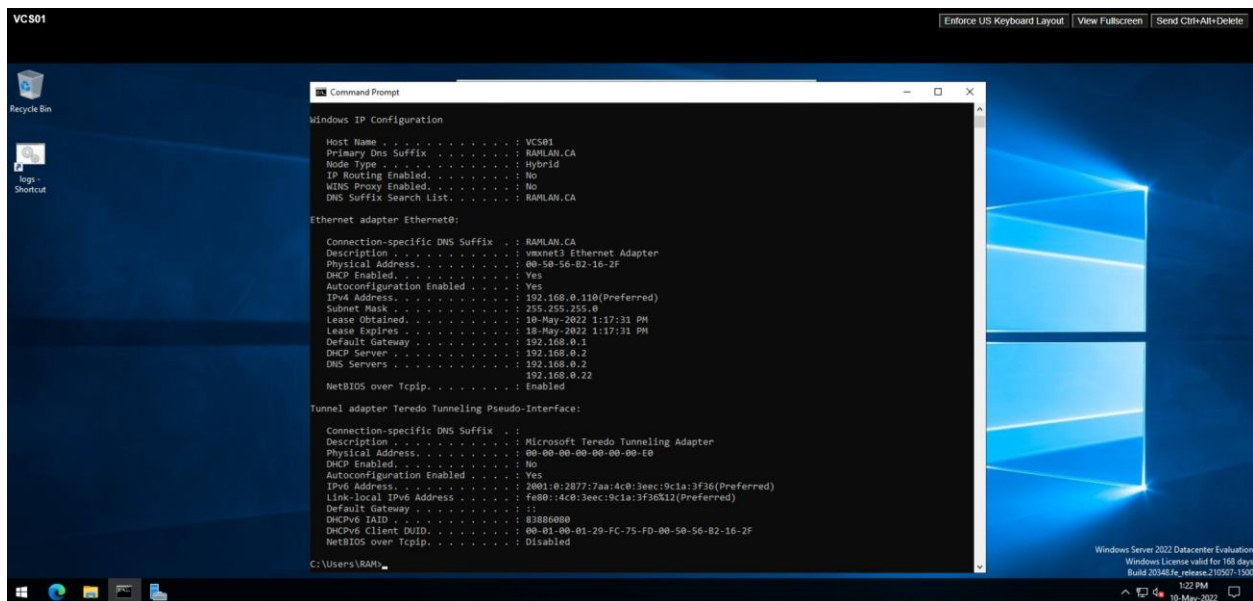
Recovery Plan: LABTEST
Protected Site: SRM PRODUCTION
Recovery Site: RECOVERY SITE
Description:

Warning: Your workloads are not protected. Run reprotect.

Plan Status: Recovery complete
The recovery has completed. Review the plan history to view any errors or warnings. You can now press Reprotect to configure protection in the reverse direction. Note that if you plan to failback the virtual machines to the original site, you must first run the plan in reprotect mode, then once protection is configured in reverse, you can run the plan in recovery mode to failback the virtual machines to the original site.

| Operation | Time | Status |
|-----------|-----------------------------------|---------|
| Recovery | Tuesday, May 10, 2022 11:01 PM | Success |
| Cleanup | Tuesday, May 10, 2022 12:52:20 PM | Success |
| Test | Tuesday, May 10, 2022 12:43:43 PM | Success |

VM Status:
Ready for Recovery: 0 VMs
In Progress: 0 VMs
Success: 1 VMs
Warning: 0 VMs
Error: 0 VMs
Incomplete: 0 VMs
Total: 1 VMs



You should also find the plan status on Recovery complete. Notice the warning about your workloads not being protected. This is because there is no protection in the other direction yet.

RE-PROTECT AND FAILBACK: When a recovery plan is executed, the workloads are switched to the recovery site but what happens when you want to go back to normal and move them back to their original site?

This is known as the failback process which consists of making the recovered VM into the protected virtual machine (the protected site becomes the recovery site) and execute the recovery plan in the other direction.

Reprotect:

In the recovery plan window, click on the REPROTECT button in the warning banner.

Recovery Plan: LABTEST
Protected Site: SRM PRODUCTION
Recovery Site: RECOVERY SITE
Description:

Warning: Your workloads are not protected. Run reprotect.


REPROTECT

Reprotect - LABTEST

1 Confirmation options

2 Ready to complete

Reprotect confirmation

Running reprotect on this plan will commit the results of the recovery, and configure protection in the reverse direction.

New protected site:RECOVERY SITE

New recovery site:SRM PRODUCTION

Server connection:Connected

Number of VMs:1

☒

I understand that this operation cannot be undone.

Reprotect options

Reprotect operations include steps to clean up the original datastores and devices. If you are experiencing errors during cleanup steps, you may choose the force cleanup option to ignore all errors and return the plan to the Ready state. If you use this option, you may need to clean up your storage manually, and you should run a Test as soon as possible.

☐Force cleanup

CANCEL

NEXT

Reprotect - LABTEST

1 Confirmation options

2 Ready to complete

Ready to complete

Review your selected settings.

| | |
|--------------------|--------------------------------|
| Name | LABTEST |
| New protected site | RECOVERY SITE |
| New recovery site | SRM PRODUCTION |
| Server connection | Connected |
| Number of VMs | 1 |
| Force cleanup | Do not ignore cleanup warnings |

CANCEL

BACK

FINISH

Site PairReplicationsProtection GroupsRecovery Plans

LABTEST

EDITMOVEDELETETESTCLEANUPRUNREPROTECTCANCEL

Learn more

SummaryRecovery StepsIssuesHistoryPermissionsProtection GroupsVirtual Machines

Summary

Recovery Plan:LABTEST

Protected Site:SRM PRODUCTION

Recovery Site:RECOVERY SITE

Description:

Plan Status

Plan Status:

Reprotect in progress

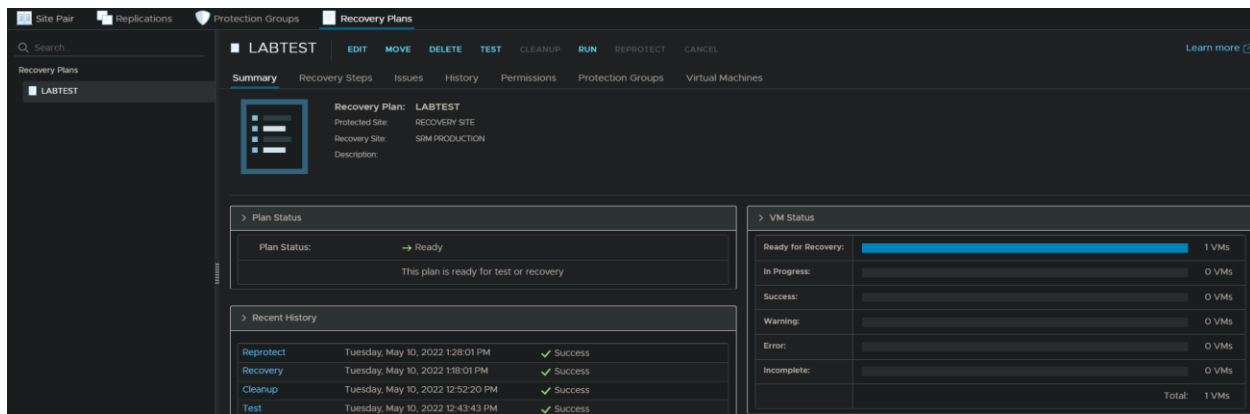
Reprotect in progress

Recent History

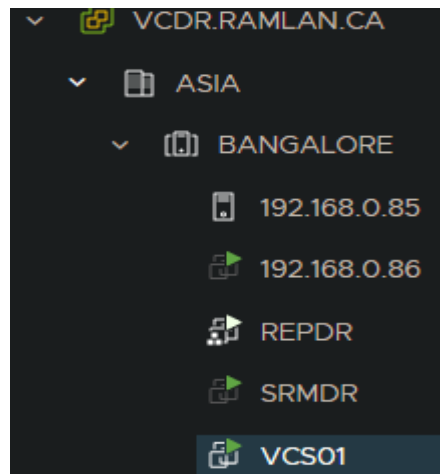
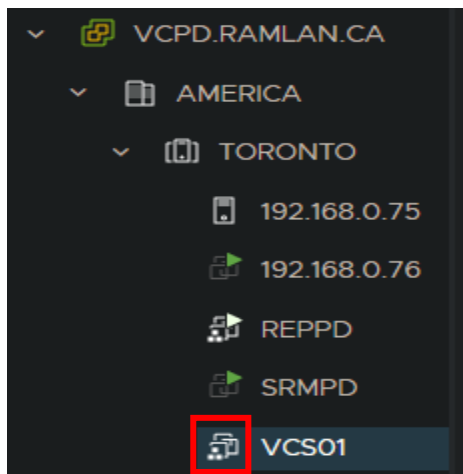
| | | |
|----------|-----------------------------------|---------|
| Recovery | Tuesday, May 10, 2022 1:18:01 PM | Success |
| Cleanup | Tuesday, May 10, 2022 12:52:20 PM | Success |
| Test | Tuesday, May 10, 2022 12:43:43 PM | Success |

VM Status

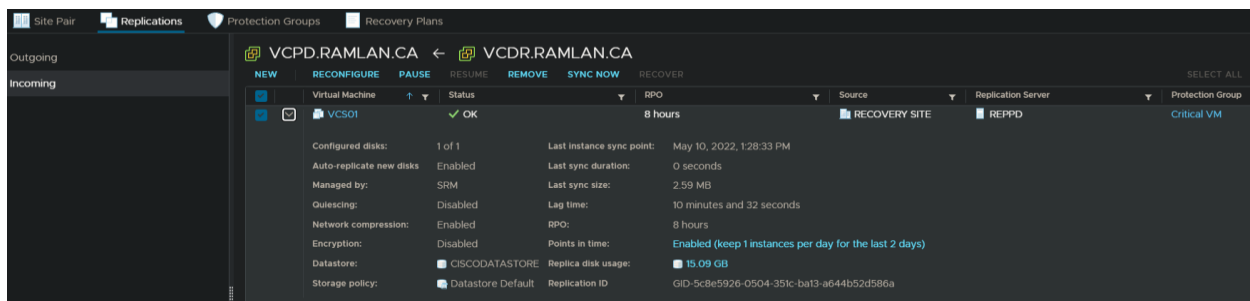
| | |
|---------------------|-------|
| Ready for Recovery: | 0 VMs |
| In Progress: | 1 VMs |
| Success: | 0 VMs |
| Warning: | 0 VMs |
| Error: | 0 VMs |
| Incomplete: | 0 VMs |
| Total: | 1 VMs |



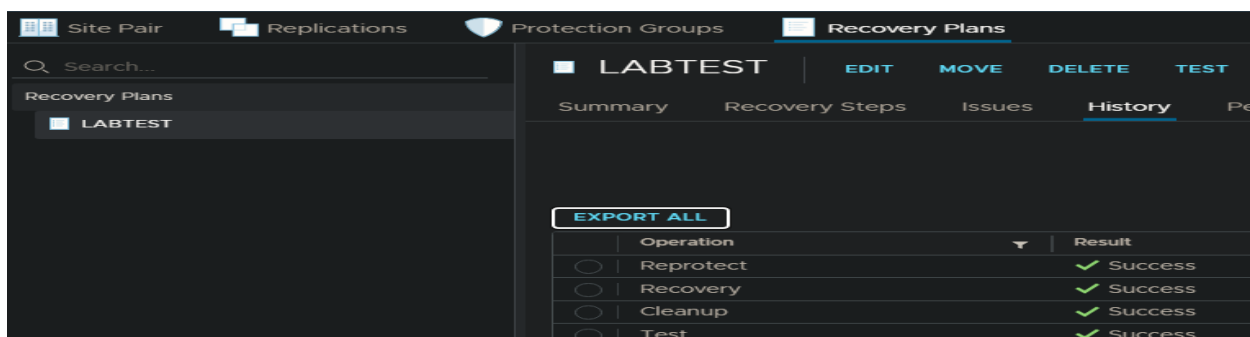
Note that the Reprotect operation has no impact on the state of the VM. It simply turns the original protected VM into the replica. You will actually notice that the icon in vCenter changes to the one with 3 squares next to it.

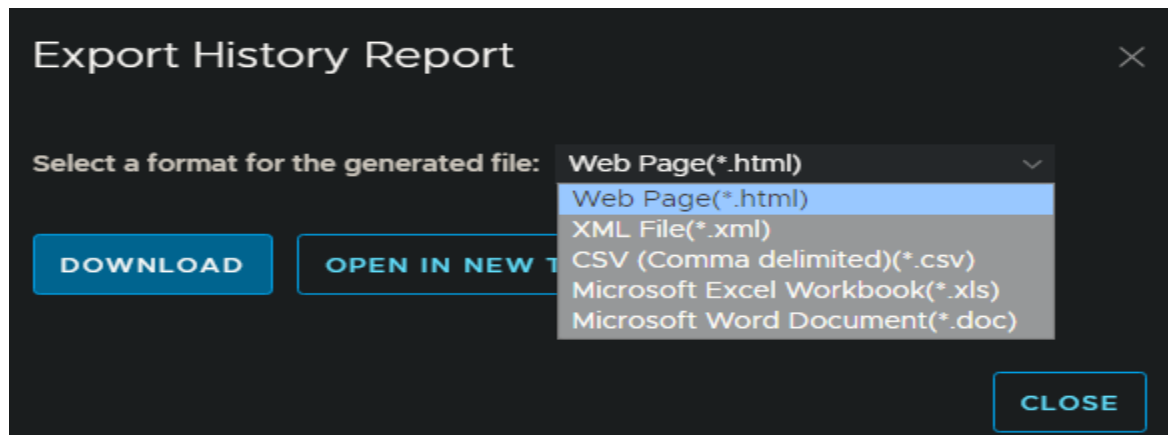


When you look at the Replications – it is other direction – Recovery to Protection Site



REPORTS: VMware Site Recovery Manager includes an export functionality to extract the operations in various formats such as html, xml, csv, xls and doc. That way you can provide your management or clients a proof that a test or actual recovery has been performed.





The looks of the report is a bit simplistic but it includes the core information you are most likely after.

Run Log Report VMware Site Recovery Manager 8.5

| From: | 2022-05-03 04:00:00 (UTC 0) | | | | |
|---------------|-----------------------------|-----------|---------|-----------------------------|----------|
| To: | 2022-05-11 03:59:59 (UTC 0) | | | | |
| Recovery Plan | User | Operation | Result | Date | Duration |
| LABTEST | VSPHERE.LOCAL\Administrator | Reprotect | Success | 2022-05-10 17:28:01 (UTC 0) | 00:00:38 |
| LABTEST | VSPHERE.LOCAL\Administrator | Recovery | Success | 2022-05-10 17:18:01 (UTC 0) | 00:01:52 |
| LABTEST | VSPHERE.LOCAL\Administrator | Cleanup | Success | 2022-05-10 16:52:20 (UTC 0) | 00:00:04 |
| LABTEST | VSPHERE.LOCAL\Administrator | Test | Success | 2022-05-10 16:43:43 (UTC 0) | 00:02:28 |

With this we have completed all the configuration for SRM and REP. Please note this is just lab environment. In production all these configurations should be properly planned, executed and tested.

Thanks

Ram
10th May 2022