

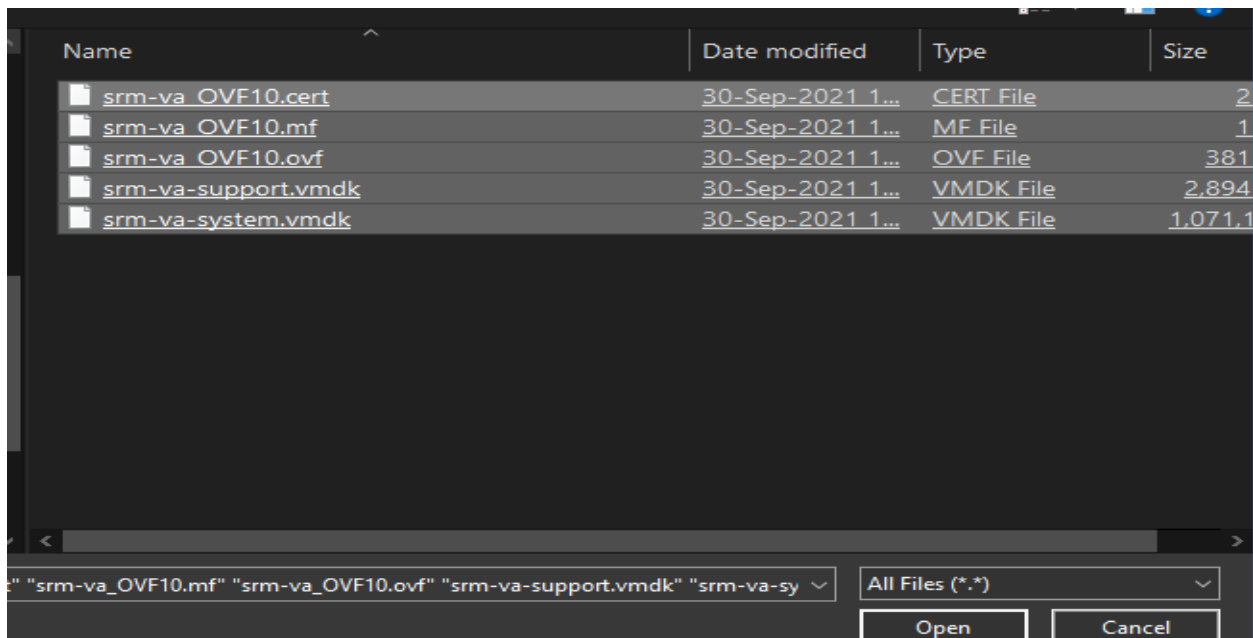
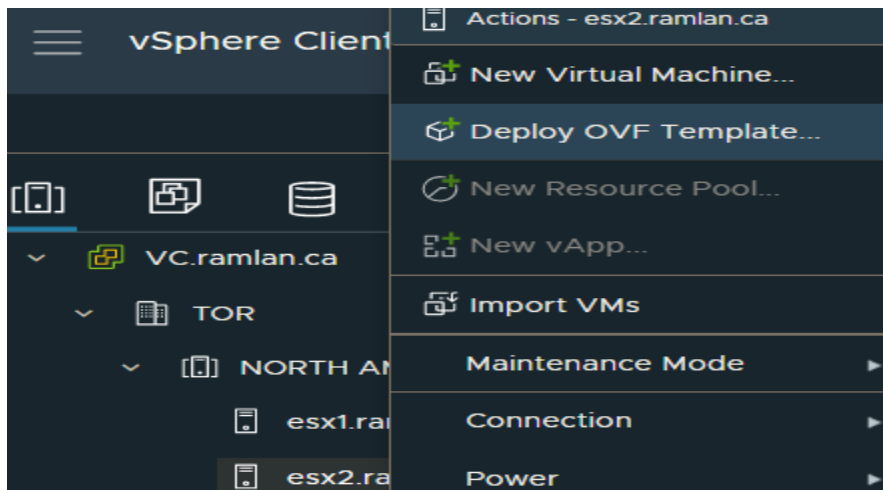
How to install VMWare Site Recovery Manager Appliance v8.5 – 18710731

In this post, I am going to install vSRM within the lab running vSphere, vCenter, vROPS, vREP and few other VM's.

I am going to mount the ISO first and then import OVF template within vCenter.

VMware-srm-va-8.5.0.5838-18710731.iso	20-Apr-2022 1...	WinRAR archive	1,780,556 KB
---------------------------------------	------------------	----------------	--------------

Name	Date modified	Type	Size
srn-va_OVF10.cert	30-Sep-2021 1...	CERT File	2 KB
srn-va_OVF10.mf	30-Sep-2021 1...	MF File	1 KB
srn-va_OVF10.ovf	30-Sep-2021 1...	OVF File	381 KB
srn-va-support.vmdk	30-Sep-2021 1...	VMDK File	2,894 KB
srn-va-system.vmdk	30-Sep-2021 1...	VMDK File	1,071,191 KB



Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 Select storage

6 Ready to complete

Select an OVF template

Select an OVF template from remote URL or local file system

Enter a URL to download and install the OVF package from the Internet, or browse to a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.

URL

Local file

http | https://remoteserver-address/filetoinstall.ovf | .ova

5 files

CANCEL

NEXT

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 Select storage

6 Ready to complete

Select a name and folder

Specify a unique name and target location

Virtual machine name: vSRM

Select a location for the virtual machine.

VC.ramlan.ca

TOR

CANCEL

BACK

NEXT

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 Select storage

6 Ready to complete

Select a compute resource

Select the destination compute resource for this operation

TOR

NORTH AMERICA

esx1.ramlan.ca

esx2.ramlan.ca

Compatibility

Compatibility checks succeeded.

CANCEL

BACK

NEXT

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 License agreements

6 Configuration

7 Select storage

8 Select networks

9 Customize template

10 Ready to complete

Review details

Verify the template details.

Publisher	VMware, Inc. (Trusted certificate)
Product	VMware Site Recovery Manager Appliance
Version	8.5.0.5838
Vendor	VMware, Inc.
Description	VMware Site Recovery Manager Appliance
Download size	1.0 GB
Size on disk	1.7 GB (thin provisioned) 33.0 GB (thick provisioned)

CANCEL

BACK

NEXT

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 License agreements

6 Configuration

7 Select storage

8 Select networks

9 Customize template

10 Ready to complete

License agreements

The end-user license agreement must be accepted.
Read and accept the terms for the license agreement.

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Last updated: 03 May 2021
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☒ I accept all license agreements.

CANCEL

BACK

NEXT

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 License agreements

6 Configuration

7 Select storage

8 Select networks

9 Customize template

10 Ready to complete

Configuration

Select a deployment configuration

<input type="radio"/> 2 vCPU	Description Deploy the VM configured with 4 vCPU and 12 GB of RAM
<input checked="" type="radio"/> 4 vCPU	

CANCEL

BACK

NEXT

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 License agreements

6 Configuration

7 Select storage

8 Select networks

9 Customize template

10 Ready to complete

Select storage

Select the storage for the configuration and disk files

Encrypt this virtual machine ⓘ

Select virtual disk formatThin Provision

VM Storage PolicyDatastore Default

☐ Disable Storage DRS for this virtual machine

Name	Storage Compatibility	Capacity	Provisioned	Free	Type	Cluster
DatastoreCluster	--	999.75 GB	26.47 GB	973.28 GB		
ESX2DS	--	1.64 TB	1.22 TB	1.47 TB	VMFS 6	

2 items

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT

Deploy OVF Template

1 Select an OVF template

2 Select a name and folder

3 Select a compute resource

4 Review details

5 License agreements

6 Configuration

7 Select storage

8 Select networks

9 Customize template

10 Ready to complete

Select networks

Select a destination network for each source network.

Source Network	Destination Network
Network 1	VM Network

1 item

IP Allocation Settings

IP allocation:Static - Manual

IP protocol:IPv4

CANCEL

BACK

NEXT

Customize template

Customize the deployment properties of this software solution.

✓ All properties have valid values

Application

8 settings

Enable SSHD

Determines whether the SSHD service will be enabled and started by default in the appliance.

☒

Initial root password

This will be used as an initial password for the root user account.

Password

.....

👁

Confirm Password

.....

👁

Initial admin user password

This will be used as an initial password for the admin user account.

Password

.....

👁

Confirm Password

.....

👁

CANCEL

BACK

NEXT

Customize template



NTP Servers	A comma-separated list of hostnames or IP addresses of NTP Servers. <input type="text" value="pool.ntp.org"/>
Hostname	The hostname for this VM. Leave blank to try to reverse lookup the IP address. <input type="text" value="vSRM"/>
Initial database password	This will be used as initial database password. <div>Password <input type="password" value="....."/> </div> <div>Confirm Password <input type="password" value="....."/> </div>
File Integrity Flag	This will be used as flag whether to enable file integrity. <input type="checkbox"/>
HCX Flag	This will be used as a flag whether to use HCX as a replication provider. Not compatible with vSphere Replication.

[CANCEL](#)[BACK](#)[NEXT](#)

Customize template



▼ Networking Properties	8 settings
Host Network IP Address Family	Network IP address family (i.e., 'ipv4' or 'ipv6'). <input type="text" value="ipv4"/> ▼
Host Network Mode	Network mode (i.e., 'static', 'dhcp', or 'autoconf' (IPv6 only)). <input type="text" value="static"/> ▼
Default Gateway	The default gateway address for this VM. (from the IP Pool associated with the vSphere network mapped to the 'Network 1' network) <input type="text" value="192.168.0.1"/>
Domain Name	The domain name of this VM. (from the IP Pool associated with the vSphere network mapped to the 'Network 1' network) <input type="text" value="RAMLAN.CA"/>
Domain Search Path	The domain search path (comma or space separated domain names) for this VM. (from the IP Pool associated with the vSphere network mapped to the 'Network 1' network)

[CANCEL](#)[BACK](#)[NEXT](#)

Domain Name Servers	The domain name server IP Addresses for this VM (comma separated). (from the IP Pool associated with the vSphere network mapped to the 'Network 1' network)
	<u>192.168.0.2,192.168.0.22</u>
Network 1 IP Address	The IP address for this interface.
	<u>192.168.0.82</u>
Network 1 Netprefix	The prefix for this interface.
	<u>24</u>

CANCEL
BACK
NEXT

Deploy OVF Template

- Select an OVF template
- Select a name and folder
- Select a compute resource
- Review details
- License agreements
- Configuration
- Select storage
- Select networks
- Customize template
- Ready to complete

Ready to complete

Summary: Select networks, Customize template, Finish

▼ Select networks

Network mapping	1
Network 1	VM Network

IP allocation settings

IP protocol	IPv4
IP allocation	Static - Manual

▼ Customize template

Properties

```

Enable SSHD = True
NTP Servers = pool.ntp.org
Hostname = vSRM
File Integrity Flag = False
HCX Flag = False
Host Network IP Address Family = ipv4
Host Network Mode = static
Default Gateway = 192.168.0.1
Domain Name = RAMLAN.CA
Domain Search Path =
Domain Name Servers = 192.168.0.2,192.168.0.22
Network 1 IP Address = 192.168.0.82
Network 1 Netprefix = 24
  
```

CANCEL
BACK
FINISH

Task Name	Target	Status	Details	Initiator	Queued For
Import OVF package	esx2.ramlan.ca	0%		vsphere.local\Administrator	87 ms
Deploy OVF template	NORTH AMERICA	? Queued		VSPHERE.LOCAL\vpzd-extensi...	

Task Name	Target	Status	Details	Initiator	Queued For
Deploy OVF template	NORTH AMERICA	✔ Completed		VSPHERE.LOCAL\vpzd-extensi...	14 ms
Import OVF package	esx2.ramlan.ca	✔ Completed		vsphere.local\Administrator	87 ms

vSphere Client

Actions - vSRM

Power

Guest OS

▶ Power On

ctrl + alt + B

```

Starting Rebuild Journal Catalog...
Starting Create Volatile Files and Directories...
[ OK ] Started Restore /run/initramfs on shutdown.
[ OK ] Started Create Volatile Files and Directories.
Starting Network Service...
Starting Update UTMP about System Boot/Shutdown...
[ OK ] Started Rebuild Journal Catalog.
Starting Update is Completed...
[ OK ] Started Update UTMP about System Boot/Shutdown.
[ OK ] Started Update is Completed.
[ OK ] Started Commit a transient machine-id on disk.
[ OK ] Reached target System Initialization.
[ OK ] Started Monitor for DR firstboot mark file.
[ OK ] Reached target Paths.
[ OK ] Started Daily Cleanup of Temporary Directories.
[ OK ] Reached target Timers.
[ OK ] Listening on D-Bus System Message Bus Socket.
Starting Docker Socket for the API.
[ OK ] Listening on Docker Socket for the API.
[ OK ] Reached target Sockets.
[ OK ] Reached target Basic System.
Starting Generate sshd host keys...
[ OK ] Started irqbalance daemon.
Starting System Logging Service...
Starting Login Service...
Starting D-Bus System Message Bus...
[ OK ] Started Data caching daemon for rrdtool.
[ OK ] Started UGAuth Service for open-vm-tools.
Starting VMware DR virtual appliance One Shot System Configuration...
[ OK ] Started Network Service.
Starting Network Name Resolution...
[ OK ] Started Network Name Resolution.
[ OK ] Reached target Host and Network Name Lookups.
[ OK ] Started System Logging Service.
[ OK ] Started D-Bus System Message Bus.
[ OK ] Started Login Service.

```

vSRM

```

vSRM login: root
Password:
root@vSRM [ ~ ]#

```

I did change the Time Zone to EST

```

VMware Site Recovery Manager Appliance - 8.5.0.5838 build 18710731
To manage this VM browse to https://192.168.0.82:5480

```

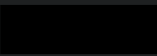
```

Login
Set Timezone (Current: EDT)

Use Arrow Keys to navigate
and <ENTER> to select your choice.

```

Welcome to VMware SRM Appliance Management



.....|



LOG IN

vmw SRM Appliance Management

Summary

Monitor Disks

Access

Certificates

Networking

Time

Services

Update

Syslog Forwarding

Storage Replication A...

RESTART

DOWNLOAD SUPPORT BUNDLE

STOP

Product	VMware Site Recovery Manager Appliance
Version	8.5.0
Build	18710731

To start protecting virtual machines you must configure the Site Recovery Manager appliance and connect to a vCenter Server.

CONFIGURE APPLIANCE

vmw SRM Appliance Management

Summary

Monitor Disks

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Storage Replication A...

Disk	Partition	Description	Utilization
swap	swap	The swap partition is used when the physical memory (RAM) is full.	
boot	boot	The boot partition is a primary partition that contains the boot loader - a piece of software responsible for booting the operating system.	
tmp	tmp	The tmp partition is a temporary filesystem that resides in a memory partition and/or a swap partition.	
root	root	The root partition contains all system files, the VMware Site Recovery Manager installation and/or the vSphere Replication installation, and the embedded database.	
support	support	The support partition contains the VMware Site Recovery Manager and/or the vSphere Replication logs and coredumps.	
			5 Disk(s)

Summary

Monitor Disks

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Storage Replication A...

Password

SRM appliance password

The password for the account that you are currently logged in with.

CHANGE

Embedded database password

The password for managing the embedded database.

CHANGE

SSH

DISABLE

SSH login

Enabled

Summary

Monitor Disks

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Syslog Forwarding

Storage Replication A...

Appliance Certificate

GENERATE CSR

CHANGE

Issued to

C=US,ST=California,L=Palo Alto,OU=SRM,O=VMware\, Inc.,CN=vSRM

Issued by

C=US,ST=California,L=Palo Alto,OU=SRM,O=VMware\, Inc.

Expires on

Apr 21, 2027

SHA256 fingerprint

1A:36:88:A2:13:FD:16:B0:4B:80:19:A0:1E:AE:13:C8:4F:3A:0B:6A:34:04:BF:DD:97:E1:E2:97:4F:18:2D:2A

CA Certificates

Intermediate

Root

ADD

Issued to

Issued by

Valid from

Expires

Select which certificates Intermediate/Root you want to see.

Summary

Monitor Disks

Access

Certificates

Networking

Time

Services

Update

Syslog Forwarding

Storage Replication A...

Network Settings

EDIT

Hostname

vSRM

DNS Servers

192.168.0.2, 192.168.0.22

eth0

Status

UP

MAC Address

00:50:56:b0:55:75

IPv4 Address

192.168.0.82 / 24 (STATICMODE)

IPv4 Default Gateway

192.168.0.1

Summary

Monitor Disks

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Update

Syslog Forwarding

Storage Replication A...

Time zone

EDIT

Time zone

America/Toronto

Time synchronization

EDIT

Mode

NTP

NTP Servers

pool.ntp.org

Current appliance time

Apr 22, 2022 4:17:21 PM

Summary

Monitor Disks

Access

Certificates

Networking

Time

Services

Update

Syslog Forwarding

Storage Replication A...

RESTARTSTARTSTOP

	Name	Startup Type	State
<input checked="" type="radio"/>	srm-server	Manual	Stopped
<input type="radio"/>	srm-vpostgres	Automatic	Started
<input type="radio"/>	dr-client	Manual	Stopped
<input type="radio"/>	telegraf	Manual	Stopped
<input type="radio"/>	dr-iperf3	Manual	Stopped
<input type="radio"/>	auditd	Manual	Stopped

Summary

Monitor Disks

Access

Certificates

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Time

Services

Update

Syslog Forwarding

Storage Replication A...

Current appliance version

Version	8.5.0
Build	18710731

Available updates

You can use an online repository or a CD-ROM to check for updates.

Update source *none* [EDIT](#)

Version	Type	Release Date	Reboot Required	Severity
<div></div>				

Summary

Monitor Disks

Access

Certificates

Networking

Time

Services

Update

Syslog Forwarding

Storage Replication A...

Syslog forwarding directs Site Recovery Manager logs to up to three remote log servers.

Prior to setting up the forwarding configuration remote syslog server(s) must be configured and a network connection must exist between the appliance and the syslog server(s) to enable log streaming.

NEW

Remote Syslog Host	Port	Protocol	Connection Status
<div></div>			
0 server(s)			

vmw SRM Appliance Management

RESTART

DOWNLOAD SUPPORT BUNDLE

STOP

Summary

Monitor Disks

Access

Certificates

Networking

Time

Services

Update

Syslog Forwarding

Storage Replication A...

Product	VMware Site Recovery Manager Appliance
Version	8.5.0
Build	18710731

To start protecting virtual machines you must configure the Site Recovery Manager appliance and connect to a vCenter Server.

CONFIGURE APPLIANCE

Configure Site Recovery Manager

1 Platform Services Controller

2 vCenter Server

3 Name and extension

4 Ready to complete

Platform Services Controller

All fields are required unless marked (optional)

Enter the Platform Services Controller details for the vCenter Server for which you want to configure Site Recovery Manager.

PSC host name

VC.RAMLAN.CA

PSC port

443

User name

vsphere.local

Password

.....

Note: If prompted, you must accept the certificate for the configuration to proceed.

CANCEL

NEXT

Configure Site Recovery Manager

1 Platform Services Controller

2 vCenter Server

3 Name and extension

4 Ready to complete

vCenter Server

Select the vCenter Server for which you want to configure Site Recovery Manager.

vCenter Server

VC.ramlan.ca

CANCEL

BACK

NEXT

Configure Site Recovery Manager

1 Platform Services Controller

2 vCenter Server

3 Name and extension

4 Ready to complete

Name and extension

Enter name and extension for Site Recovery Manager

Site name

TORSRM

A unique display name for this Site Recovery Manager site.

Administrator email

ram@ramlan.ca

An email address to use for system notifications.

Local host

vSRM

The address on the local host to be used by Site Recovery Manager.

Extension ID

Default extension ID (com.vmware.vcDr)

Custom extension ID

The default extension ID is recommended for most configurations. For shared recovery site installations, in which multiple sites connect to a shared recovery site, use a unique custom extension ID for each SRM pair.

Extension ID

com.vmware.vcDr-

Organization

Description

CANCEL

BACK

NEXT

Configure Site Recovery Manager

1 Platform Services Controller

2 vCenter Server

3 Name and extension

4 Ready to complete

Ready to complete

Review your settings before finishing the wizard.

Platform Services Controller	VC.RAMLAN.CA
vCenter Server	VC.ramlan.ca
Site name	TORSRM
Extension ID	com.vmware.vcDr
Administrator email	ram@ramlan.ca
Local host	VSRM

CANCEL

BACK

FINISH

Configuring Site Recovery Manager. Please wait...

Configuring Site Recovery Manager embedded database

✓

SUCCESS

Appliance configured

✕

vmw SRM Appliance Management

Summary

Monitor Disks

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Syslog Forwarding

Storage Replication A...

RESTART

DOWNLOAD SUPPORT BUNDLE

STOP

Hostname	VSRM
Product	VMware Site Recovery Manager Appliance
Version	8.5.0
Build	18710731

RECONFIGURE

UNREGISTER

Site name	TORSRM
Extension key	com.vmware.vcDr
Platform Services Controller	https://VC.RAMLAN.CA:443
vCenter Server	VC.ramlan.ca
Connection thumbprint	⚠ A1:FB:CF:0F:41:E3:2F:61:D8:51:2C:BE:FE:10:EE:A6:D: [REDACTED]

Summary

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Syslog Forwarding

Storage Replication A...

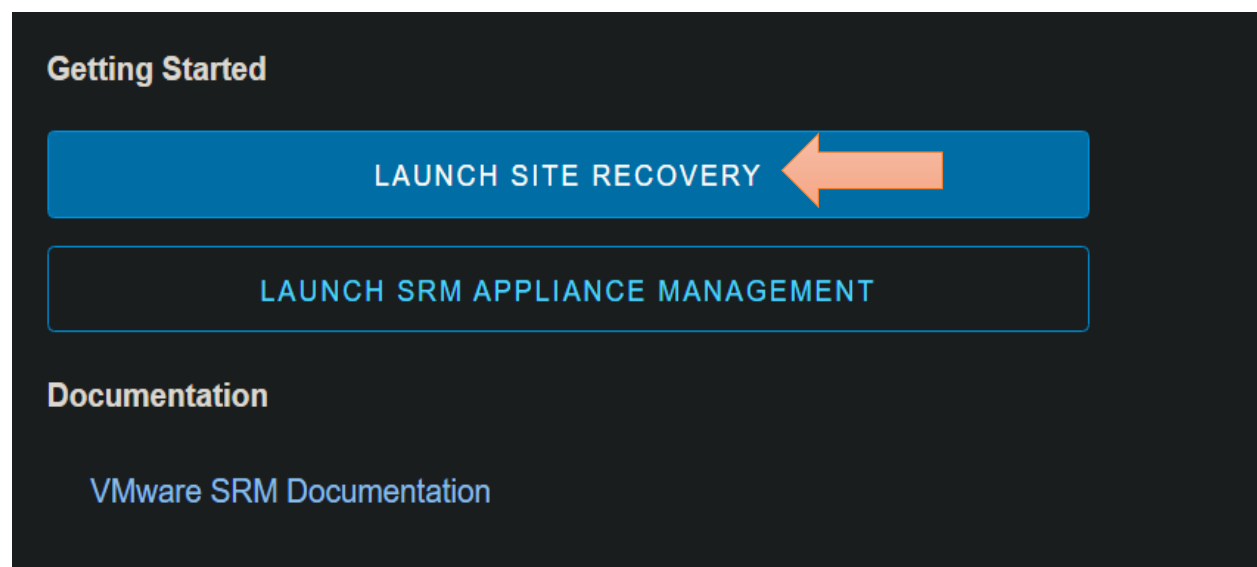
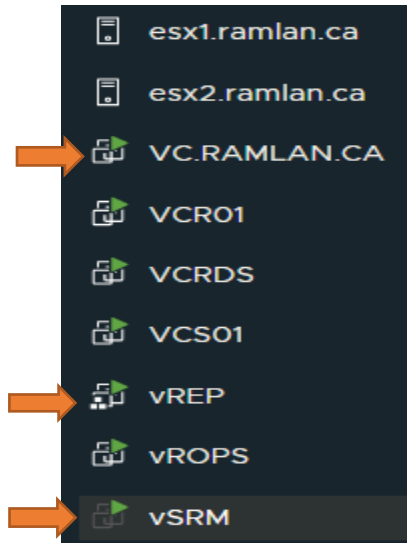
RESTART

START

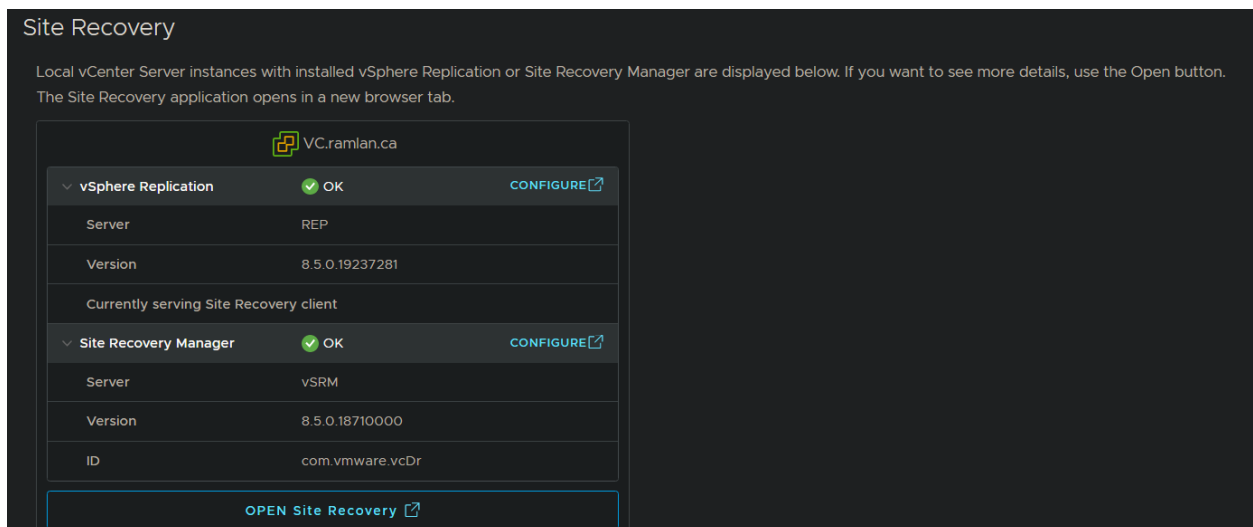
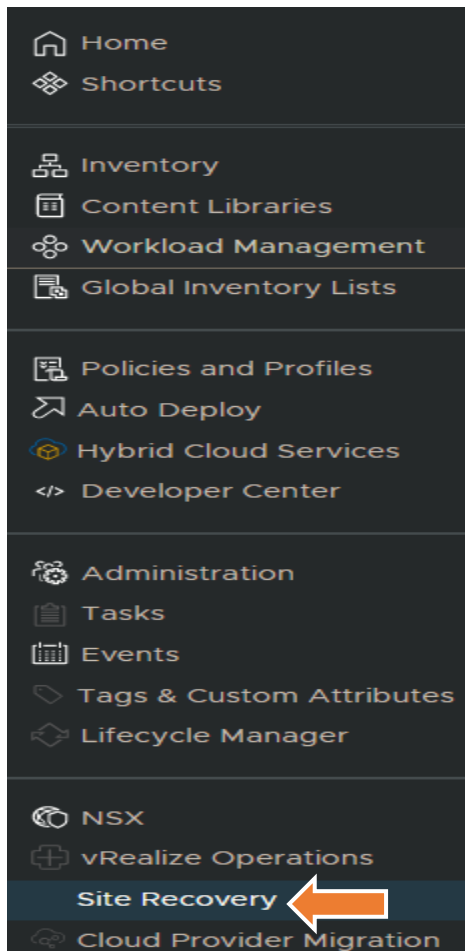
STOP

	Name	Startup Type	State
<input checked="" type="radio"/>	srm-server	Automatic	Started
<input type="radio"/>	srm-vpostgres	Automatic	Started
<input type="radio"/>	dr-client	Automatic	Started
<input type="radio"/>	telegraf	Manual	Stopped
<input type="radio"/>	dr-iperf3	Manual	Stopped
<input type="radio"/>	auditd	Manual	Stopped

Now we have completed all the configuration for SRM. If you want to launch Site Recovery Manager GUI – type the ip address <https://192.168.1.100>. You will see the following from where you can launch Site Recovery Manager. I cannot proceed because, I don't have 2 vCenters, 2 SRM & 2 Replication Appliance within home lab. Just have 1 of each in the lab.



You can also open Site Recovery from vCenter.



Thanks

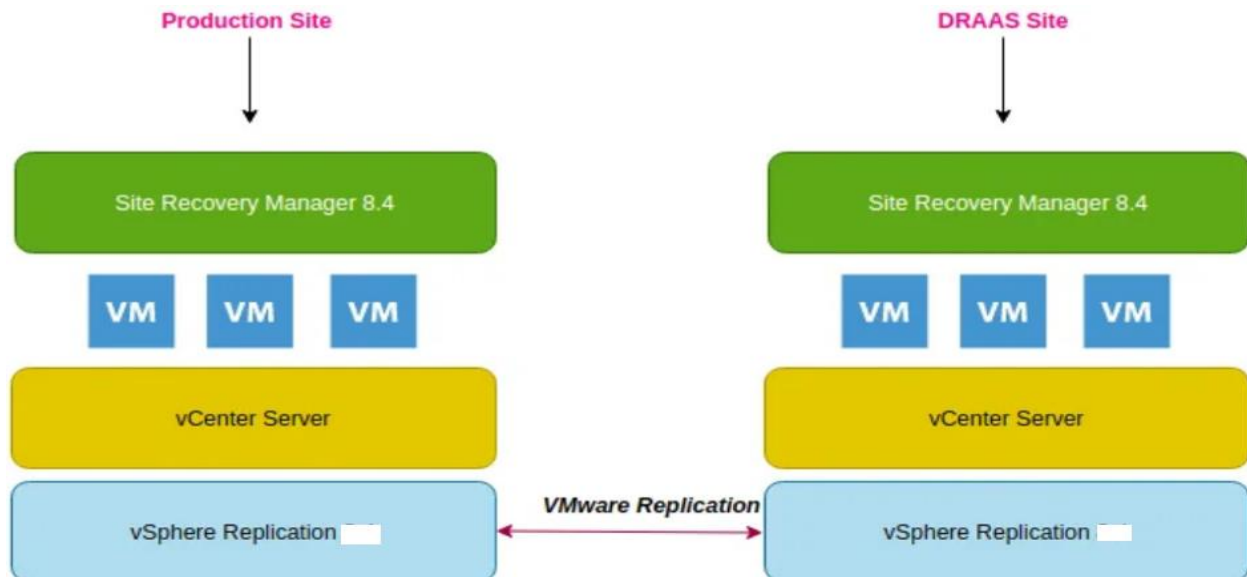
Ram
22nd Apr 2022

NOTE: In order to use Replication Appliance, you will need VMWare Site Recovery Manager Appliance + you have to create TWO sites (Production and Disaster Recovery) so the replication of VM's can be done at DR site. For home lab you will need the following:

2 vCenters (Production and DR)

2 Replication Appliance (Production and DR)

2 Site Recovery Manager Appliance (Production and DR)



For home lab you can go with this configuration for the VM's

VM	Version	vCPU	Memory GB	Storage	Quantity
vCenter	7.0 U1	2	10	100GB	1
SRM Manager	8.4	2	8	60 GB	2
vSphere Replication	8.4	2	8	60 GB	2

With vSphere Replication, you can configure the replication of a virtual machine from a source site to a target site, monitor and manage the status of the replication, and recover the virtual machine at the target site.

In a typical vSphere Replication installation, the local site provides business-critical data center services. The remote site is an alternative facility to which you can migrate these services.

The local site can be any site where vCenter Server supports a critical business need. The remote site can be in another location, or in the same facility to establish a redundancy. The remote site is typically located in a facility where environmental, infrastructure, or other disturbances are unlikely to occur and affect the local site.

vSphere Replication has the following requirements for the vSphere® environments at each site:

- Ensure that each site has at least one data center.
- Ensure that the remote site has hardware, network, and storage resources that can support the same virtual machines and workloads as the local site.
- Ensure that the sites are connected by a reliable IP network.
- Ensure that the remote site accesses networks (public and private) comparable to the ones on the local site. It is not necessary for them to be in the same range of network addresses.