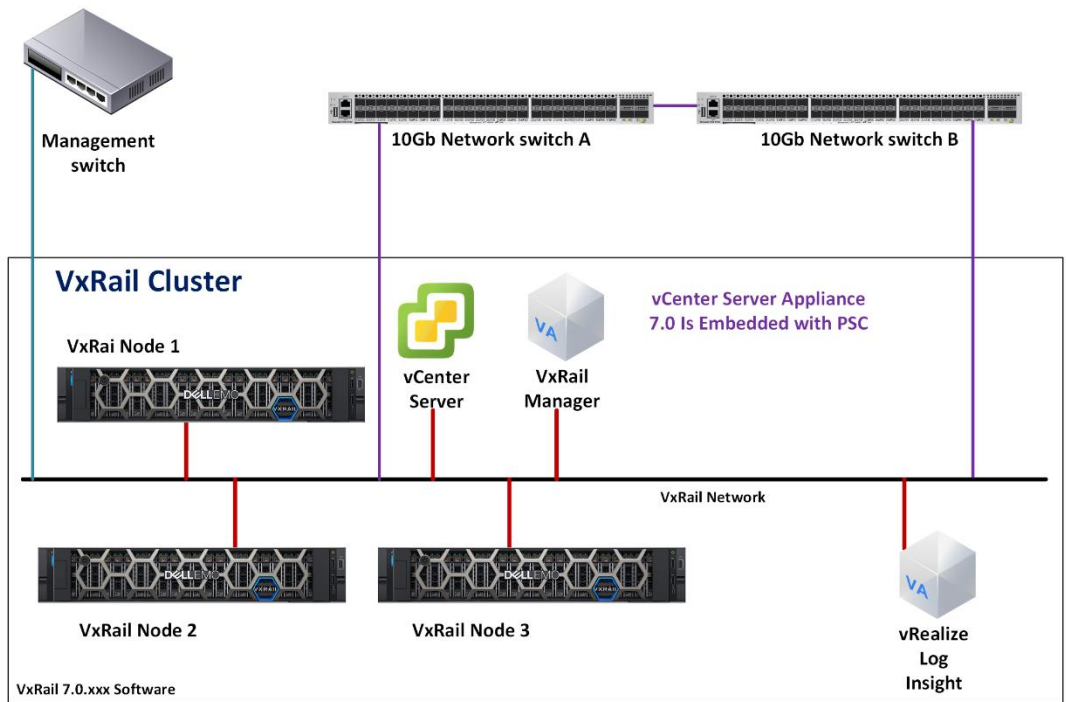
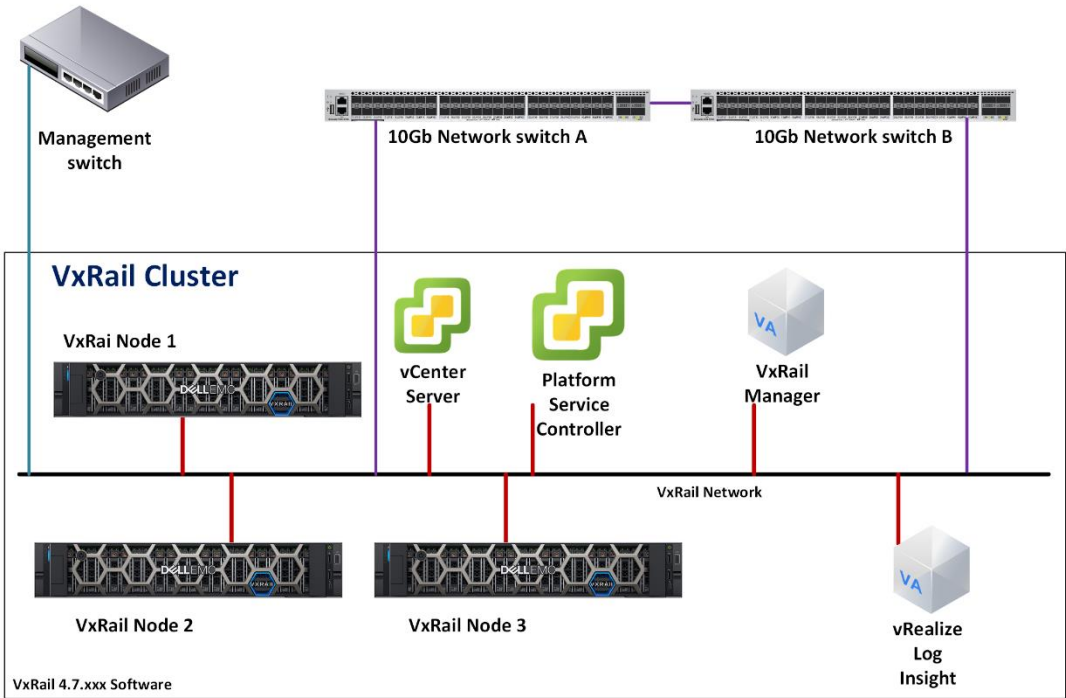


Chapter 1: Overview of VxRail HCI.





Editions		Standard	Advanced	Enterprise	Enterprise Plus
Standard	vSAN				
	Storage Policy Based Mgmt.	✓	✓	✓	✓
	Virtual Distributed Switch	✓	✓	✓	✓
	Rack Awareness	✓	✓	✓	✓
	Software Checksum	✓	✓	✓	✓
	All-Flash Hardware	✓	✓	✓	✓
	iSCSI Target Service	✓	✓	✓	✓
	QoS - IOPS Limit	✓	✓	✓	✓
Advanced	Cloud Native Storage	✓	✓	✓	✓
	Deduplication & Compression		✓	✓	✓
	RAID-5/6 Erasure Coding		✓	✓	✓
Enterprise	vRealize Operations within vCenter		✓	✓	✓
	Data-at-Rest Encryption			✓	✓
	Stretched Cluster with Local Failure Protection			✓	✓
Enterprise Plus	vROps Advanced				
	vSAN-aware WLB (resync, slack space,				✓
	Customizable Dashboards				✓
	Auto Remediation				✓
	Troubleshooting Workflows				✓
	Automated Intent-Based Workload				✓
	Capacity Planning				✓



VXRAIL™

Welcome to VxRail!

We will guide you through a few steps to set up your Software-Defined Data Center.

GET STARTED



English


47,000,10825283

Dell EMC VxRail Deployment Wizard

English

Welcome to VxRail

We will guide you through the steps to set up your Software-Defined Data Center based on how you designed your environment.



Configure VxRail

Configure the VxRail cluster.

GET STARTED

VXRAIL

- System ✓
- Networks ✓
- vSphere vMotion ✓
- vSAN ✓
- VM Networks ✓
- Solutions ✓
- Accounts ✓
- Validation

System

Globals

NTP server(s)

NIC configuration

NIC profile (All-Flash appliance options only)

2x10GbE or 2x25GbE

PREVIOUS

NEXT

Search in all environments Administrator@VSPHERE.LOCAL

VxRail-Virtual-SAN-Cluster ACTIONS

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

- ▼ Services
 - vSphere DRS
 - vSphere Availability
- ▶ Configuration
- ▶ More
- ▶ vSAN
- ▼ VxRail
 - System**
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

System

VxRail
Version: 4.7.300-26108987
Installed On Sep 26, 2019, 12:18:22 PM

Helpful Information

[Product Documentation](#)
[Privacy Statement](#)
[Update](#)

Copyright (c) 2019 Dell Inc. or its subsidiaries. All Rights Reserved.

About VxRail

The VxRail integration for VMware vCenter is designed to streamline the management process of your pre-engineered hyper-converged infrastructure appliances that combines compute, networking, and storage by allowing you to use VMware vCenter to keep your operational environment up and running.

VxRail-Virtual-SAN-Cluster ACTIONS

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

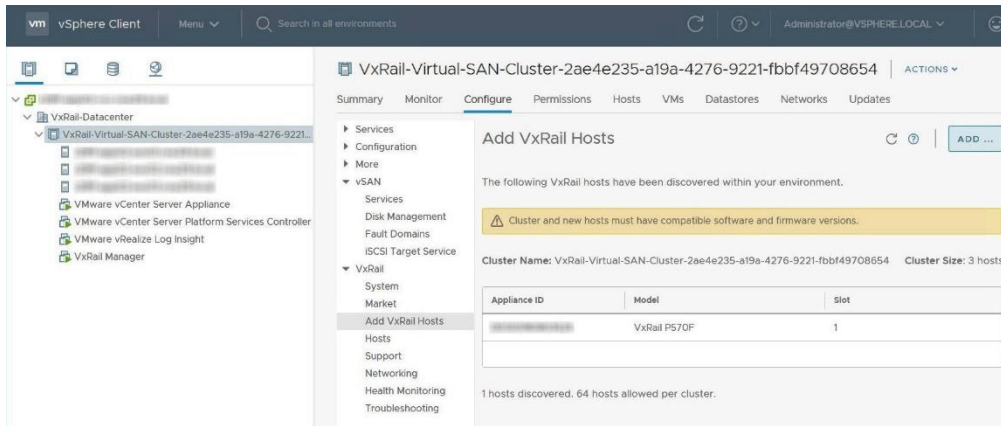
- ▶ Services
- ▶ Configuration
- ▶ More
- ▶ vSAN
- ▼ VxRail
 - System
 - Updates**
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

SYSTEM
INTERNET UPDATES
LOCAL UPDATES

Current VxRail System Version	4.7.410-26262335
Installed On	Sep 20, 2020, 11:20:43 PM

Installed Components and Versions

- Dell PTAgent 1.9.4-41
- VMware ESXi 6.7.0-15160138
- VxRail Manager 4.7.410-15257101
- VMware vCenter Server Appliance 6.7.0-15129973
- VxRail Manager VIB 4.7.410-15257101



Create VM Storage Policy

- 1 Name and description
- 2 Policy structure
- 3 Storage compatibility
- 4 Review and finish

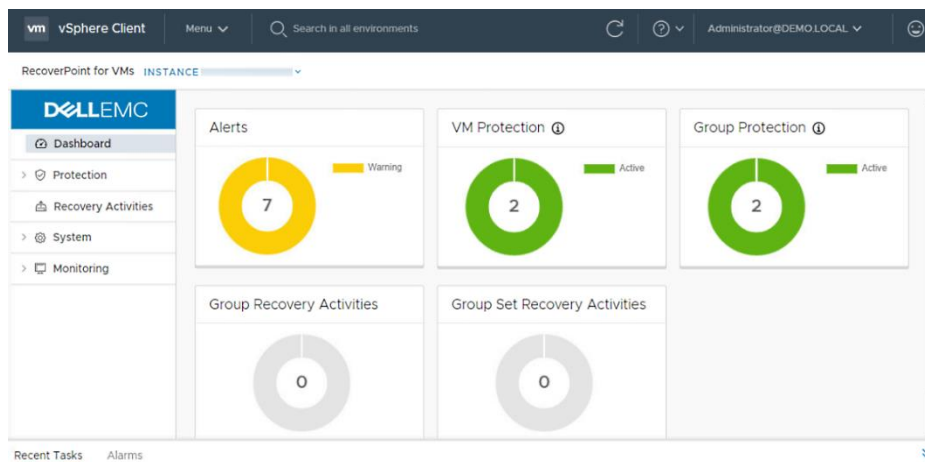
Name and description ✕

vCenter Server: VC.DEMO.LOCAL

Name: New VM Storage Policy

Description:

CANCEL
NEXT



Feature	Basic	ProSupport	ProSupport Plus
Remote technical support	9x5	24x7	24x7
Covered products	Hardware	Hardware Software	Hardware Software
Onsite hardware support	Next business day	Next business day or 4hr mission critical	Next business day or 4hr mission critical
Automated issue detection and case creation		●	●
Self-service case initiation and management		●	●
Access to software updates		●	●
Priority access to specialized support experts			●
3rd party software support			●
Assigned Technology Service Manager			●
Personalized assessments and recommendations			●
Semiannual systems maintenance			●

vm vSphere Client | Menu | Search in all environments | Administrator@VSPHERE.LOCAL

Home | VC.DEMO.LOCAL

CPU: 21.32 GHz free (3.82 GHz used | 25.14 GHz total)

Memory: 15.66 GB free (48.33 GB used | 63.99 GB total)

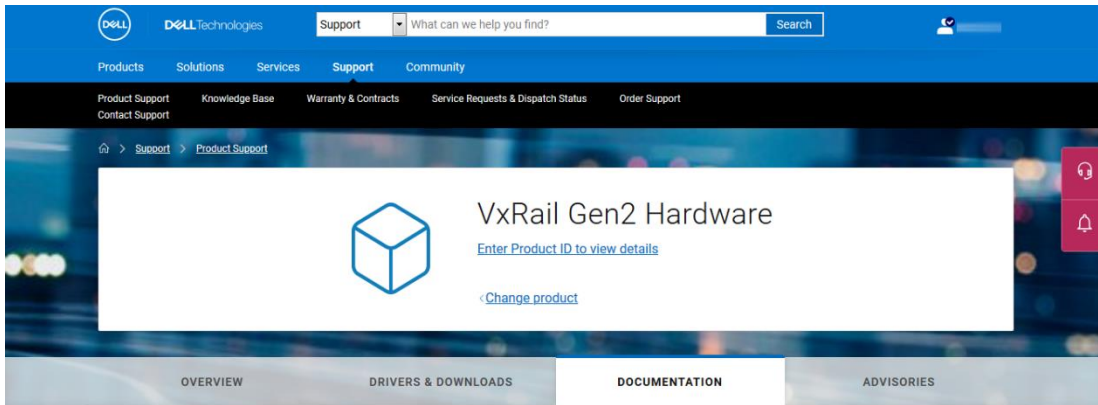
Storage: 363.24 GB free (104.22 GB used | 467.46 GB total)

VMs: 3 (3 Powered On, 0 Powered Off, 0 Suspended)

Hosts: 3 (3 Connected, 0 Disconnected, 0 Maintenance)

Objects with most alerts: 0

Installed Plugins: 4 (VMware vRops Client Plugin, VMware vSAN H5 Client Plugin, VMware Update Manager)





VxRail Appliance

- ∨ Dell EMC Technical and Security Advisories
 - > Dell EMC Technical Advisories (DTAs)
 - > Dell EMC Security Advisories (DSAs)
- > Networking Procedures
- > VxRail Procedures
- > Reference Material
- > VMware Validated Design for VxRail (VVD) Content
- > VMware Cloud on Dell EMC VxRail (Dimension)
- > VMware Cloud Foundation for VxRail (VCF) Procedures



Dell Technologies SolVe Desktop - Authorized as partner until November 22





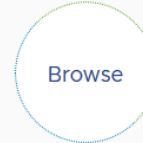
Click Here to Download or Delete Generators | DSA/DTA & Top Service Topics | Tools & Forms | Options | Help

DELLTechnologies  SolVe Desktop Contact SolVe Support 

Data Protection Advisor Click to install this generator	Dell EMC Unity Click to install this generator	Dell PowerEdge Click to install this generator
ECS Click to install this generator	Integrated Data Protection Appliance Click to install this generator	Integrated System for Microsoft Azure Stack Hub Click to install this generator
Isilon Click to install this generator	NetWorker Click to install this generator	PowerPath Click to install this generator
PowerProtect Click to install this generator	PowerStore Click to install this generator	RecoverPoint Click to install this generator
SC Series Click to install this generator	Secure Remote Services Click to install this generator	SRM Click to install this generator
Troubleshooting Guides Click to install this generator	VNX Click to install this generator	VNXe Click to install this generator
VPLEX Click to install this generator	VxFlex Ready Node Click to install this generator	VxRail Appliance Click to install this generator
XtremIO Click to install this generator		

Next

Explore the Docs

- 
vSphere
 - 
NSX-T Data Center
 - 
Horizon 8
 - 
vRealize Automation
 - 
Browse
- All Products



Build Custom Docs



Start using MyLibrary to create, annotate and share topics, KB articles, code samples and more

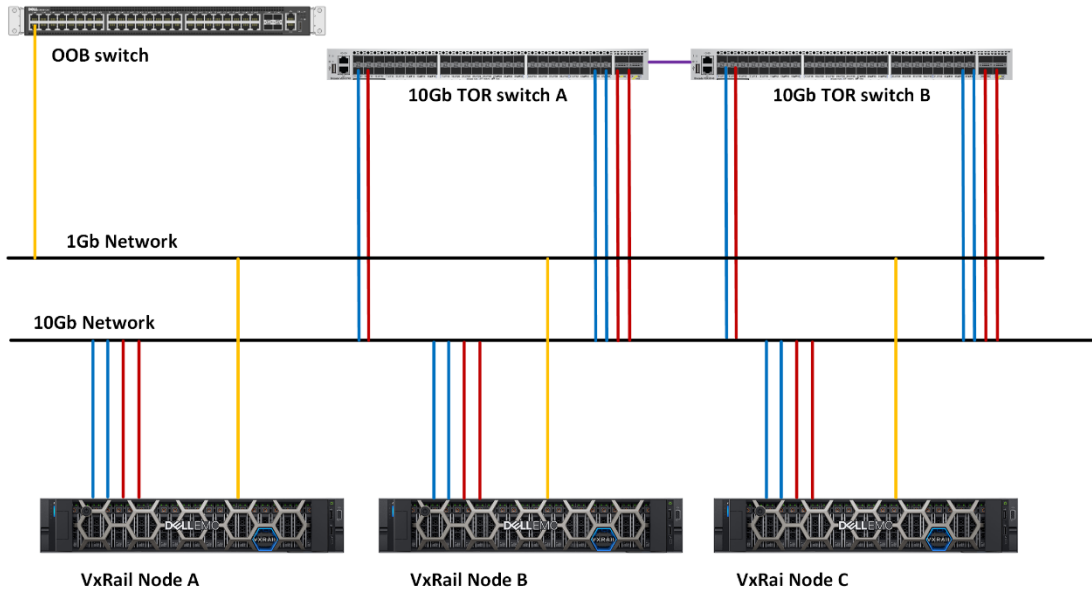
Ask the VMware Community



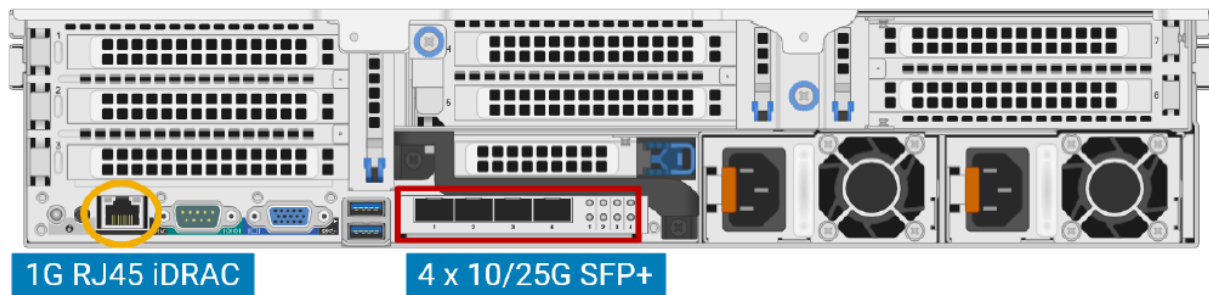
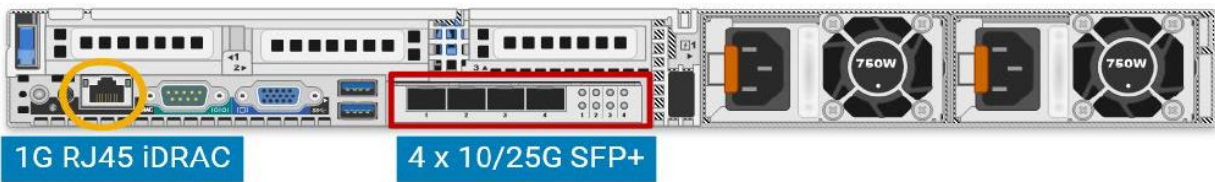
Start discussions with the VMware community directly from any Docs topic.

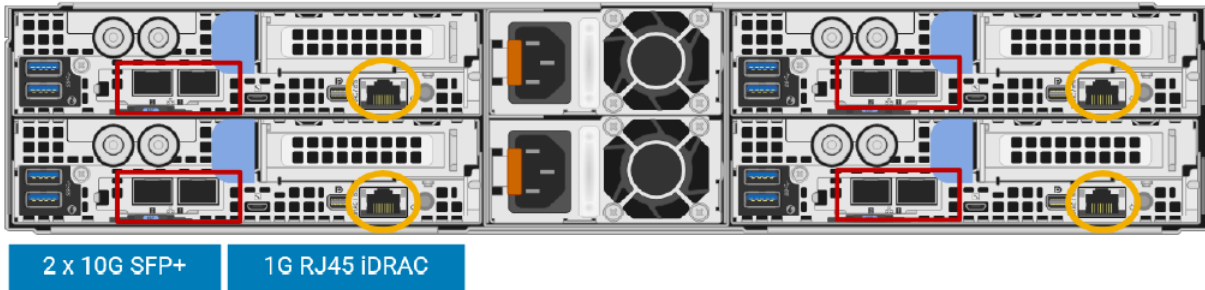
Chapter 2: VxRail Installation.

- iDRAC Network
- Management / Virtual Machine
- vSAN / vMotion



VxRail 4.7.xxx Environment





DNS Manager

File Action View Help

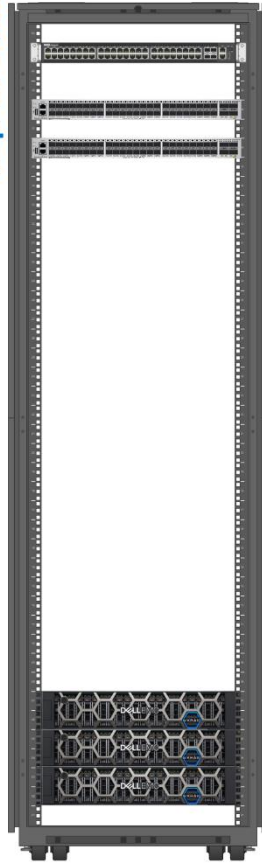
← → 📄 ✖ 🔄 🔍 📄 📄 📄

DNS

- LAUNCHPAD
 - Forward Lookup Zones
 - _msdcs.demo.local
 - demo.local
 - Reverse Lookup Zones
 - 1.168.192.in-addr.arpa
 - Trust Points
 - Conditional Forwarders
 - LaunchPad.demo.local

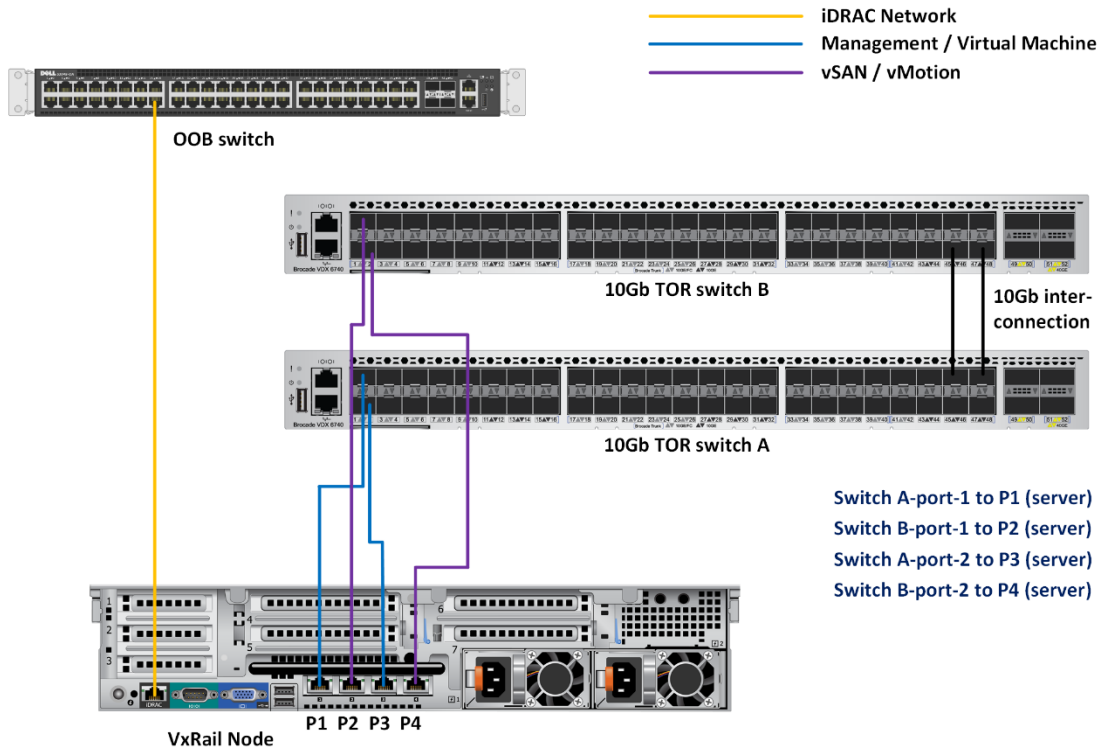
Name	Type	Data	Timestamp
_msdcs			
_sites			
_tcp			
_udp			
DomainDnsZones			
ForestDnsZones			
(same as parent folder)	Start of Authority (SOA)	[673], launchpad.demo.lo...	static
(same as parent folder)	Name Server (NS)	launchpad.demo.local.	static
(same as parent folder)	Host (A)	192.168.1.2	11/14/2020 7:00:00 PM
esx01	Host (A)	192.168.1.101	static
esx02	Host (A)	192.168.1.102	static
esx03	Host (A)	192.168.1.103	static
esx04	Host (A)	192.168.1.104	static
psc	Host (A)	192.168.1.202	static
router	Host (A)	192.168.1.1	static
vc	Host (A)	192.168.1.201	static
vxm	Host (A)	192.168.1.200	static

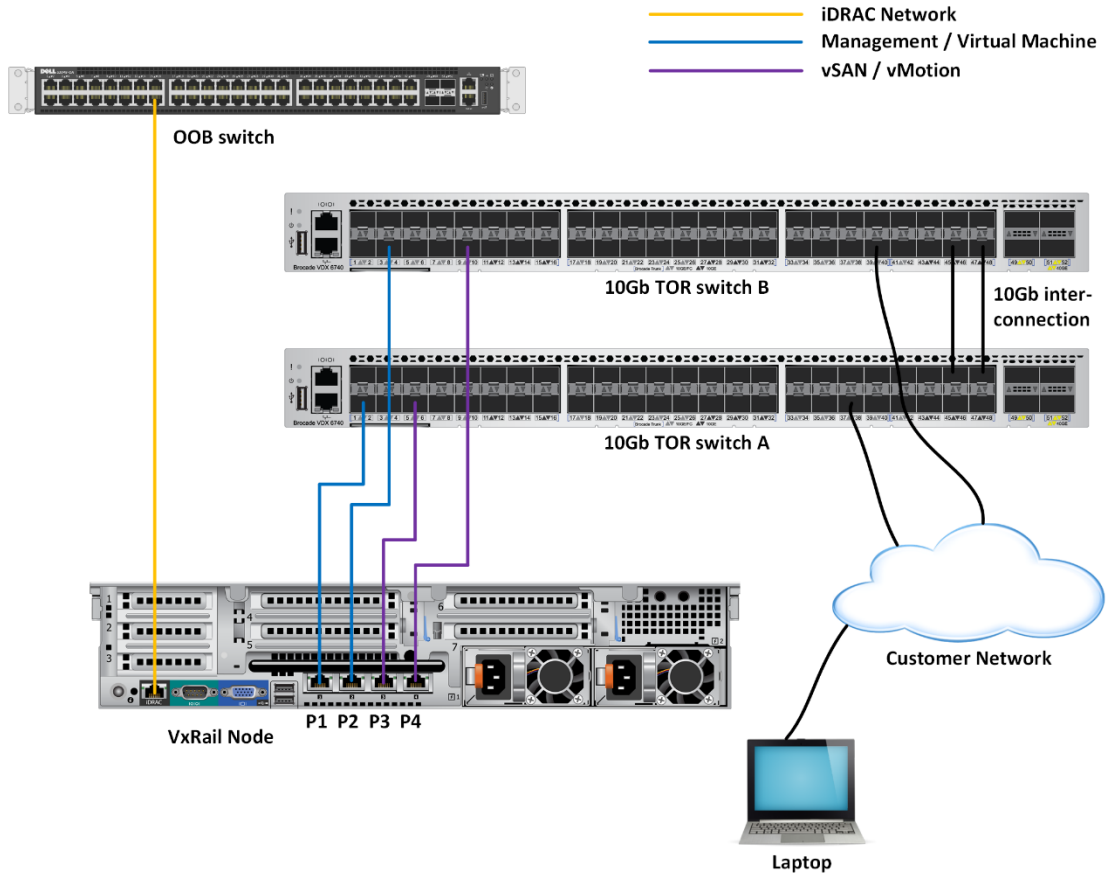
Top-of-Rack

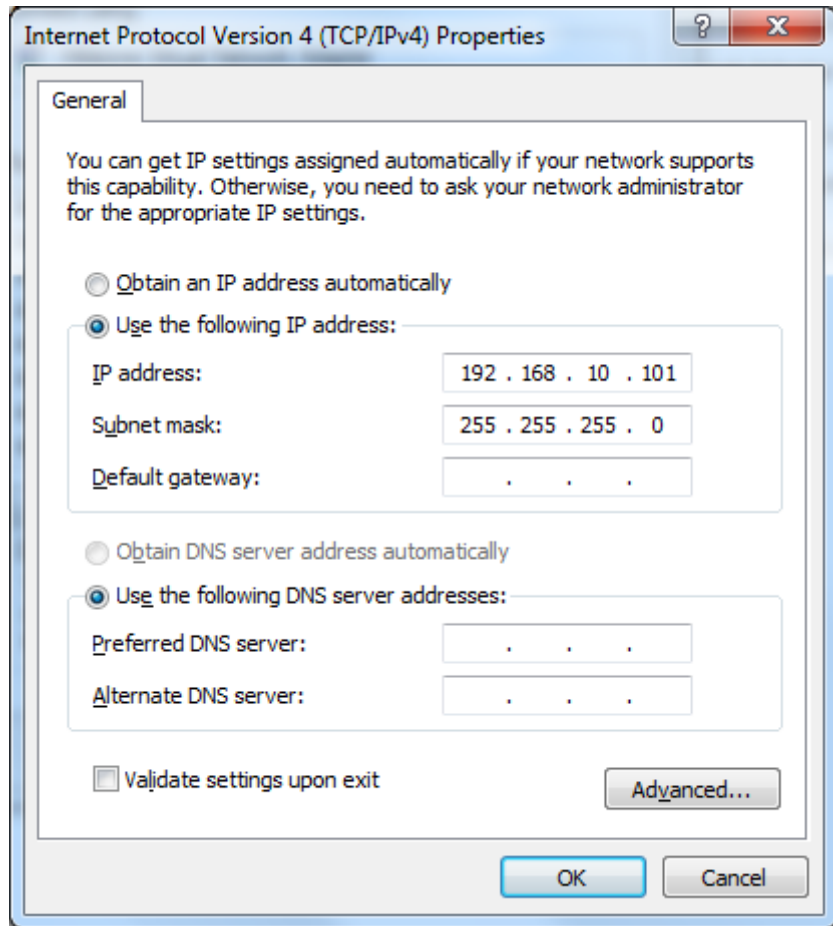


- Out-of-Band Switch
- Top-of-Rack Switch B
- Top-of-Rack Switch A

- VxRail Node C
- VxRail Node B
- VxRail Node A







VxRail P570F
BIOS Version: 1.4.8
iDRAC IP:



Loading BIOS Drivers.



VXRAIL™

Welcome to VxRail!

We will guide you through a few steps to set up your Software-Defined Data Center.

GET STARTED



English ▾

4 / 000 10825283

End-User License Agreement

DELL EMC SOFTWARE LICENSE AND MAINTENANCE AGREEMENT

*** IMPORTANT INFORMATION - PLEASE READ CAREFULLY ***

Congratulations on your new Dell EMC purchase!

Your purchase and use of this Dell EMC product is subject to and governed by the Dell EMC Commercial Terms of Sale, unless you have a separate written agreement with Dell EMC that specifically applies to your order, and the End User License Agreement (E-EULA), which are each presented below in the following order:

Commercial Terms of Sale

End User License Agreement (E-EULA)

The Commercial Terms of Sale for the United States are presented below and are also available online at the website below that corresponds to the country in which this product was purchased.

By the act of clicking "I accept", you agree (or re-affirm your agreement to) the foregoing terms and conditions. To the extent that Dell Inc. or any Dell Inc.'s direct or indirect subsidiary ("Dell") is deemed under applicable law to have accepted an offer by you, (a) Dell hereby objects to and rejects all additional or inconsistent terms that may be contained in any purchase order or other documentation submitted by you in connection with your order, and (b) Dell hereby conditions its acceptance on your assent that the foregoing terms and conditions shall exclusively control.

DECLINE

ACCEPT

Expected VxRail Nodes

3 VxRail nodes were found:

Scanning for VxRail nodes...

VxRail Appliance ID ▲	VxRail Model	Slot
DE300180803520	VxRail P570F	1
DE300180803523	VxRail P570F	1
DE300180803524	VxRail P570F	1

i The number of discovered VxRail nodes is **3**. If the nodes are not as expected, power-on and connect new ones, or shutdown any undesired ones. The list will update automatically. During the **initial configuration**, 3 or 4 nodes are required. Once the desired nodes are listed, **confirm** below and click Next to continue.

Expected nodes confirmation

I confirm I want to configure the listed VxRail nodes.

PREVIOUS

NEXT

How would you like to configure VxRail?

Step-by-step
Use our step-by-step interface to enter your configuration options

Configuration file
Upload a JSON-formatted configuration file that you created

PREVIOUS

NEXT

▶ **System** ✓

- Networks
- vSphere vMotion
- vSAN
- VM Networks
- Solutions
- Accounts
- Validation

System

Globals

NTP server(s)

NIC configuration

NIC profile (All-Flash appliance options only)

4 x 10GbE

PREVIOUS

NEXT

System ✓

▶ Networks

vSphere vMotion

vSAN

VM Networks

Solutions

Accounts

Validation

Networks

Top Level Domain

Domain

ESXi Hosts

Host names

Prefix

Separator

Iterator

None ▼

Num 0X ▼

Offset

Suffix

First host name preview:

Host IP Addresses

Starting IP address

Ending IP address

System ✓

▶ Networks ✓

vSphere vMotion

vSAN

VM Networks

Solutions

Accounts

Dell EMC Switch

vCenter Server

Join existing vCenter Server

vCenter Server hostname

vCenter Server IP address

Preview:

Platform Services Controller

Platform Services Controller hostname

Platform Services Controller IP address

Preview:

VxRail Manager

VxRail Manager hostname

VxRail Manager IP address

Preview:

Networking

Management Subnet mask

Management Gateway

Management Network VLAN ID

DNS server(s)

PREVIOUS

NEXT

VxRAIL

System
Networks



vSphere vMotion

vSAN
VM Networks
Solutions
Accounts
Validation

vSphere vMotion

Starting address for IP pool

Ending address for IP pool

Subnet mask

vMotion Network VLAN ID

PREVIOUS

NEXT

VTRAIL

- System ✓
- Networks ✓
- vSphere vMotion ✓
- vSAN**
- VM Networks
- Solutions
- Accounts
- Validation

vSAN

Starting address for IP pool	Ending address for IP pool
<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
Subnet mask	vSAN Network VLAN ID
<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>

PREVIOUS
NEXT

VTRAIL

- System ✓
- Networks ✓
- vSphere vMotion ✓
- vSAN ✓
- VM Networks**
- Solutions
- Accounts
- Validation

VM Networks

VM Network name	VLAN ID
<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>

Add one more

PREVIOUS
NEXT

- System ✓
- Networks ✓
- vSphere vMotion ✓
- vSAN ✓
- VM Networks ✓
- Solutions ✓
- ▶ Accounts
- Validation

Accounts

Virtual appliance accounts Show all passwords 

Use the same credentials for all virtual appliance accounts

vCenter Server management account username

Shared password for **all** non-ESXi accounts

- vCenter Server root, administrator and management accounts
- Platform Services Controller root account
- VxRail Manager root account
- vRealize Log Insight root and administrator accounts

Password

Confirm password

VxRail Manager Service account (Username:"mystic")

Password

Confirm password

ESXi accounts

Show all passwords 

Use the same credentials for all hosts

 Establish new credentials for ESXi accounts. The credentials below will be applied to all ESXi hosts.

Root username

Root password

Confirm root password

root

Management username

Management password

Confirm management password

PREVIOUS

NEXT

- System ✓
- Networks ✓
- vSphere vMotion ✓
- vSAN ✓
- VM Networks ✓
- Solutions ✓
- Accounts ✓
- ▶ Validation

Review and validate

You have entered all required configuration information. Review your selections before validating, or you can skip directly to validation.

PREVIOUS

REVIEW FIRST

VALIDATE

- System ✓
- Networks ✓
- vSphere vMotion ✓
- vSAN ✓
- VM Networks ✓
- Solutions ✓
- Accounts ✓
- ▶ Validation

Review and validate

Your configuration has passed basic and network validation. Continue to build VxRail.

⌵ Hide history

```
✓ [2019-01-28 10:59:41] Validating the compatibility of Witness, Management, vSAN, and vSphere vMotion port groups.
✓ [2019-01-28 10:59:41] Checking host is a witness node.
✓ [2019-01-28 10:59:39] Validating the compatibility of Management, vSAN, and vSphere vMotion port groups.
✓ [2019-01-28 10:59:18] Checking each host has minimal number of NICs.
✓ [2019-01-28 10:59:18] Checking VLAN configuration for Management, vSAN, vSphere vMotion, and
```

PREVIOUS

DOWNLOAD JSON

BUILD VXRAIL



Starting Configuration

We are setting the foundation for your appliance.

Configuration Tasks (66 / 75)

Show history

Performing vCenter Server first boot configuration...



Hooray!

Please apply your vSAN license as soon as possible. The evaluation license will only last for 60 days.

VxRail is set up and ready to use.

MANAGE VXRAIL >

VMware® vSphere

example@domain.local

Password

Use Windows session authentication

LOGIN

vm vSphere Client Menu Search in all environments Administrator@VSPHERE.LOCAL

Administration

- Access Control
 - Roles
 - Global Permissions
- Licensing
 - Licenses**
- Solutions
 - Client Plug-Ins
 - vCenter Server Extensions
- Deployment
 - System Configuration
 - Customer Experience Improvement Pr...
- Support
 - Upload File to Service Request
- Single Sign On
 - Users and Groups
 - Configuration
- Certificates
 - Certificate Management

Licenses

Licenses Products Assets [GO TO MY VMWARE](#)

+ Add New Licenses Synchronize Licenses

<input type="checkbox"/>	License	License Key	Product	Usage	Capacity
<input type="checkbox"/>	License 1	[REDACTED]	VMware vCenter Server 6 Standard (L...	1 Instances	Unlimited Instances
<input type="checkbox"/>	License 2	[REDACTED]	VMware vSphere 6 Enterprise Plus (C...	8 CPUs	Unlimited CPUs
<input type="checkbox"/>	License 3	[REDACTED]	VMware vSAN Enterprise (CPUs)	8 CPUs	Unlimited CPUs
<input type="checkbox"/>	License 4	[REDACTED]	VMware vSphere 6 Enterprise (CPUs)	0 CPUs	Unlimited CPUs

EXPORT

New Licenses

- 1 Enter license keys
- 2 Edit license names
- 3 Ready to complete

Enter license keys

License keys (one per line):

Search in all environments ↻ ? Administrator@VSPHERE.LOCAL 😊

VxRail-Virtual-SAN-Cluster-55967ac99b-42219b1c-9a899470de ACTIONS ▾

Summary **Monitor** Configure Permissions Hosts VMs Datastores Networks Updates

- ▼ Resource Allocation
 - CPU
 - Memory
 - Storage
 - Utilization
 - Storage Overview
 - Security
- ▼ vSAN
 - Health**
 - Virtual Objects
 - Physical Disks
 - Resyncing objects
 - Proactive Tests
 - Capacity
 - Performance
 - Performance diagno..
 - Support
 - Data Migration Pre-c..
- ▼ Cloud Native Storage
 - Container Volumes
- ▼ VxRail
 - Appliances
 - Last Configuration D

Health (Last checked: 11/21/2020, 3:46:45 PM) RETEST

- > ✔ vSAN Build Recommendation
- > ✔ Network
- > ✔ Physical disk
- > ✔ Data
- > ✔ Cluster
- > ✔ Capacity utilization
- > ✔ Hardware compatibility
- ▼ ✔ Performance service
 - ✔ Stats DB object
 - ✔ Stats master election
 - ✔ Performance data collection
 - ✔ All hosts contributing stats

Search in all environments ↻ ? Administrator@VSPHERE.LOCAL 😊

vc.vsphere.local ▾

VxRail Dashboard

VxRail-Virtual-SAN-Cluster-55967ac99b-42219b1c-9a899470de

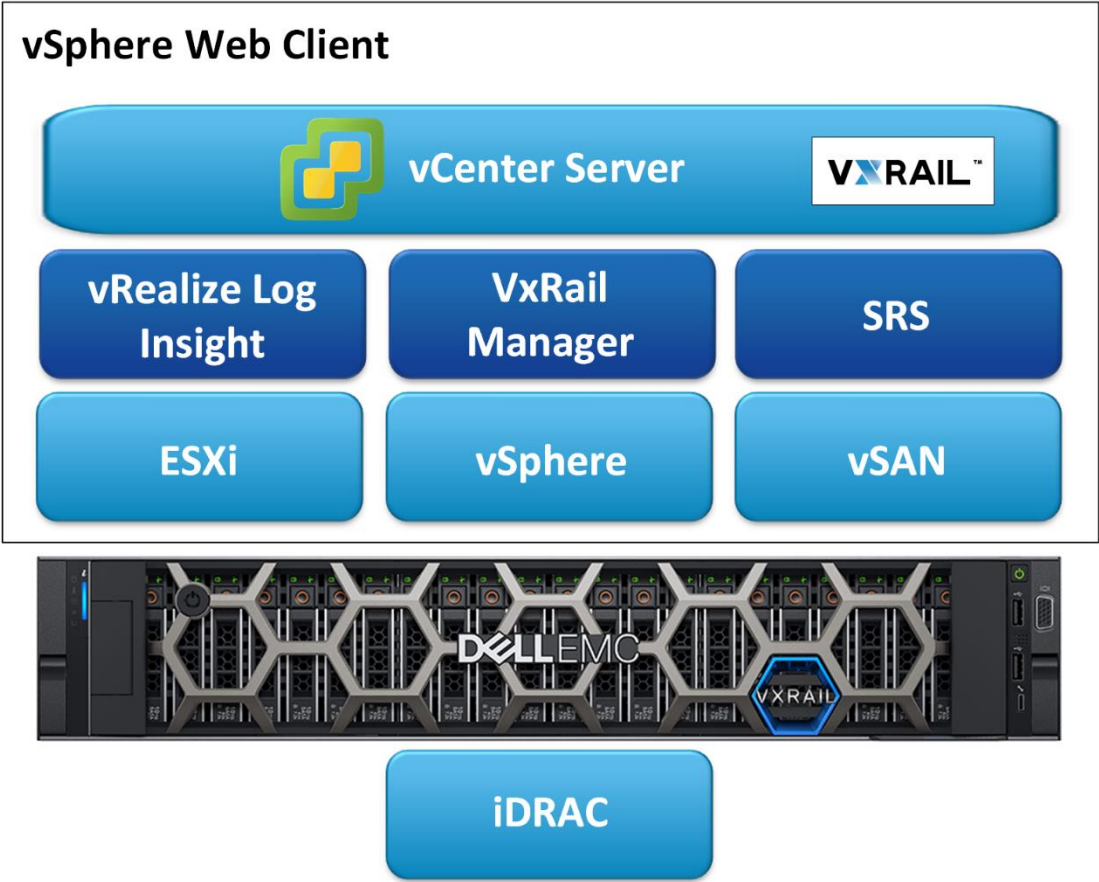
1 New Hosts have been detected! [Add to Cluster](#)

♥ System Health

✔ Healthy

👥 VxRail Community

Chapter 3: VxRail Administration Overview.



vm vSphere Client Menu Search in all environments Administrator@VSPHERE.LOCAL

Home

VC.DEMO.LOCAL

CPU 22.59 GHz free
2.55 GHz used | 25.14 GHz total

Memory 19.14 GB free
44.85 GB used | 63.99 GB total

Storage 365.45 GB free
102.02 GB used | 467.46 GB total

VMs 3

3 Powered On 0 Powered Off 0 Suspended

Hosts 3

3 Connected 0 Disconnected 0 Maintenance

Objects with most alerts 1

Item	Alerts	Warnings
vc.demo.local	1	0

Installed Plugins 4

- VMware vRops Client Plugin
- VMware vSAN H5 Client Plugin
- VMware Update Manager

Recent Tasks Alarms

VxRail Dashboard

VxRail-Virtual-SAN-Cluster-8596e7aa-99fa-4223-961d-91a98f6415de

New Hosts have been detected! [Add to Cluster](#)

System Health

Healthy

VxRail Community

VxRail cluster is not able to connect support website. To access VxRail Community features, check your network settings. [Configure Network Settings](#)

Support

Healthy

Knowledge Base

The support account is not configured or invalid. To access knowledge base articles, set up your support account. [Configure Support Account](#)

Need help?

You can find the professional support from different channels.

[CHAT WITH SUPPORT](#)

VxRail-Virtual-SAN-Cluster- [ACTIONS](#)

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

- Services
 - vSphere DRS
 - vSphere Availability
- Configuration
- More
- vSAN
- VxRail
 - System**
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

System

VxRail
Version: 4.7.300-26108987
Installed On Sep 26, 2019, 12:18:22 PM

About VxRail

The VxRail integration for VMware vCenter is designed to streamline the management process of your pre-engineered hyper-converged infrastructure appliances that combines compute, networking, and storage by allowing you to use VMware vCenter to keep your operational environment up and running.

Helpful Information

- [Product Documentation](#)
- [Privacy Statement](#)
- [Update](#)

Copyright (c) 2019 Dell Inc. or its subsidiaries. All Rights Reserved.

- Overview
- Server
- IDRAC Settings
- Network**
- User Authentication
- Update and Rollback
- Server Profile
- Sessions
- Hardware
- Storage
- Host OS

Network Settings

Attribute	Value
Enable NIC	<input checked="" type="checkbox"/>
NIC Selection	Dedicated
Active NIC Interface	Dedicated
Fallover Network	None
MAC Address	D4-BE-D9-F3-B8-DA
Auto Dedicated NIC	<input type="checkbox"/>
Auto Negotiation	<input checked="" type="radio"/> On <input type="radio"/> Off
Network Speed	<input checked="" type="radio"/> 1000 Mbps <input type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps
Duplex Mode	<input checked="" type="radio"/> Full <input type="radio"/> Half
NIC MTU	1500

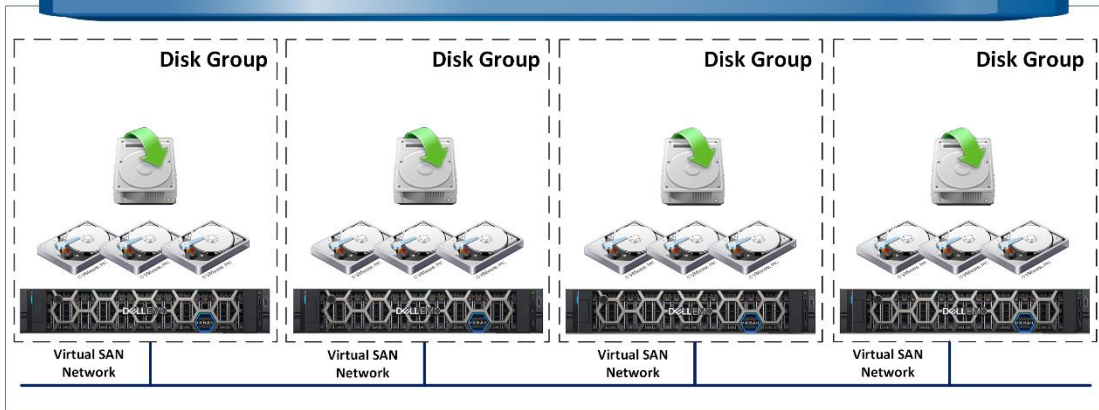
Common Settings

[Back to Top](#)

Attribute	Value
Register iDRAC on DNS	<input type="checkbox"/>
DNS iDRAC Name	iDRAC-
Auto Config Domain Name	<input type="checkbox"/>
Static DNS Domain Name	



Virtual SAN Datastore



Create VM Storage Policy

- 1 Name and description
- 2 Policy structure
- 3 vSAN**
- 4 Storage compatibility
- 5 Review and finish

vSAN

Availability **Advanced Policy Rules** Tags

Site disaster tolerance ⓘ None - standard cluster

Failures to tolerate ⓘ 1 failure - RAID-1 (Mirroring)

- No data redundancy
- 1 failure - RAID-1 (Mirroring)**
- 1 failure - RAID-5 (Erasure Coding)
- 2 failures - RAID-1 (Mirroring)
- 2 failures - RAID-6 (Erasure Coding)
- 3 failures - RAID-1 (Mirroring)

CANCEL BACK NEXT

Create VM Storage Policy

- 1 Name and description
- 2 Policy structure
- 3 vSAN**
- 4 Storage compatibility
- 5 Review and finish

vSAN

Availability **Advanced Policy Rules** Tags

Number of disk stripes per object ⓘ 1

IOPS limit for object ⓘ 0

Object space reservation ⓘ Thin provisioning

Initially reserved storage space for 100 GB VM disk would be 0 B

Flash read cache reservation (%) ⓘ 0

Reserved cache space for 100GB VM disk would be 0 B

Disable object checksum ⓘ

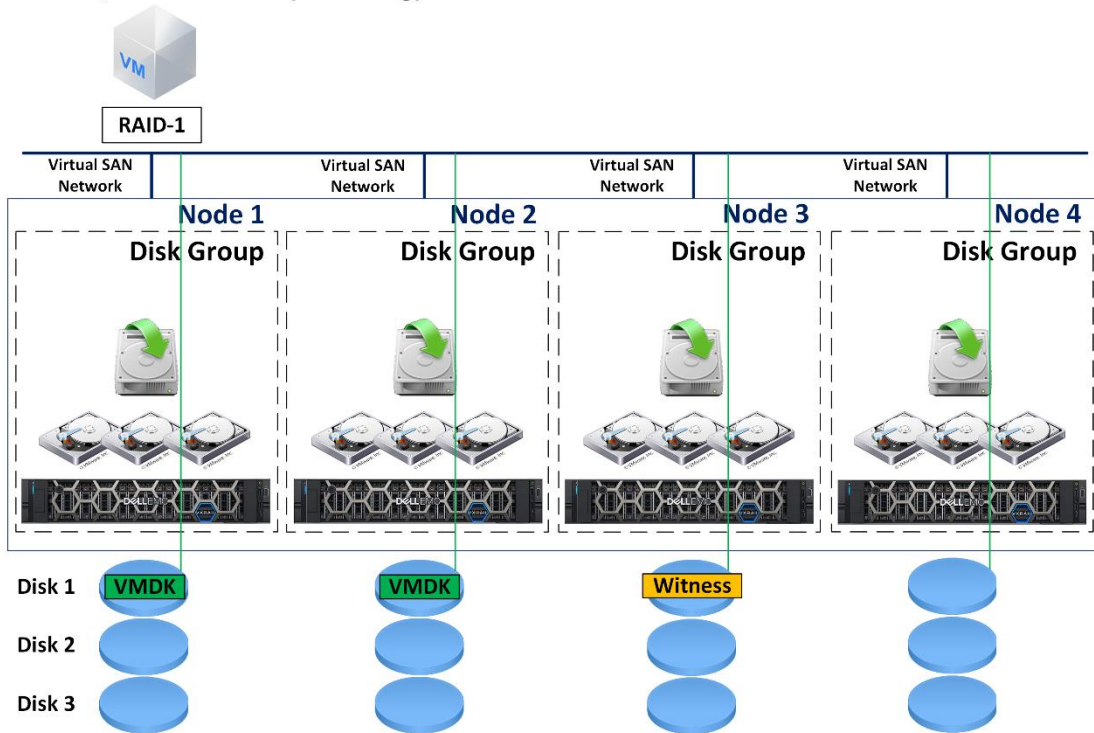
Force provisioning ⓘ

CANCEL BACK NEXT

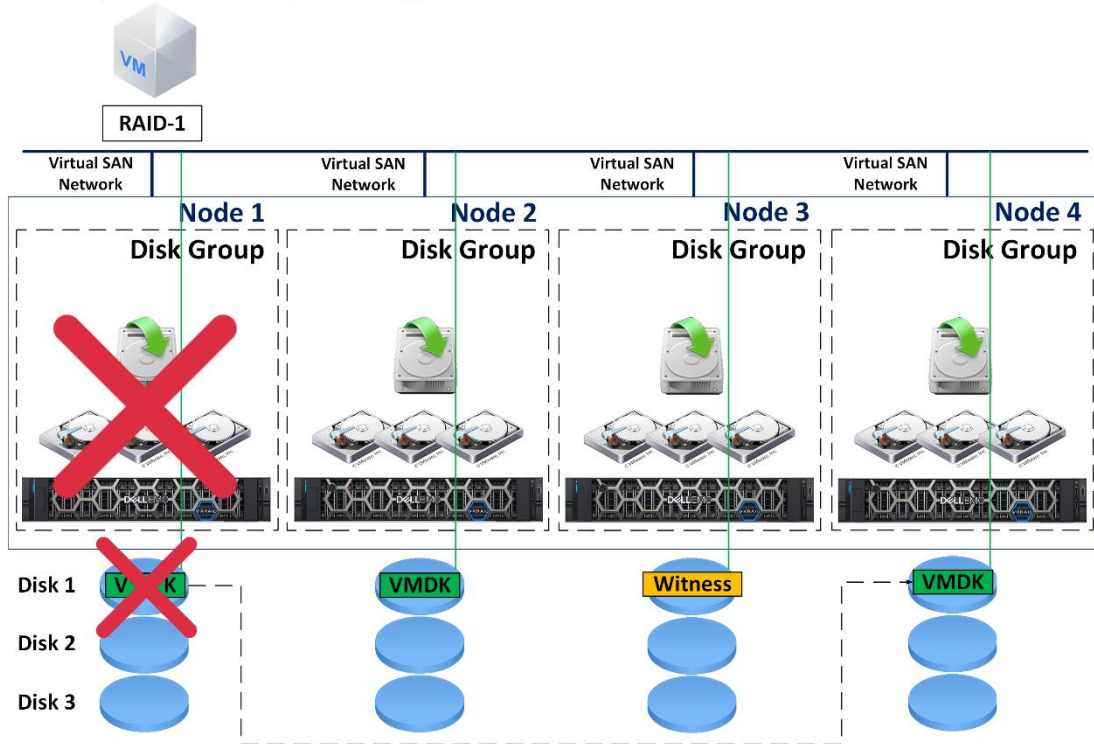
VIEW PLACEMENT DETAILS

<input type="checkbox"/>	Name	Placement and Availability	Storage Policy
> <input type="checkbox"/>	VMware vCenter Server Appliance	Healthy	
> <input type="checkbox"/>	VMware vCenter Server Platform Servi...	Healthy	
∨ <input type="checkbox"/>	VxRail Manager	Healthy	
<input type="checkbox"/>	Hard disk 1	Healthy	vSAN Default Storage Policy
<input type="checkbox"/>	Hard disk 2	Healthy	vSAN Default Storage Policy
<input type="checkbox"/>	VM home	Healthy	VXRAIL-SYSTEM-STORAGE-PROFILE
<input type="checkbox"/>	Virtual machine swap object	Healthy	VXRAIL-SYSTEM-STORAGE-PROFILE
<input type="checkbox"/>	[VxRail-Virtual-SAN-Datastore-8596e...	Healthy	vSAN Default Storage Policy
<input type="checkbox"/>	[VxRail-Virtual-SAN-Datastore-8596e...	Healthy	vSAN Default Storage Policy

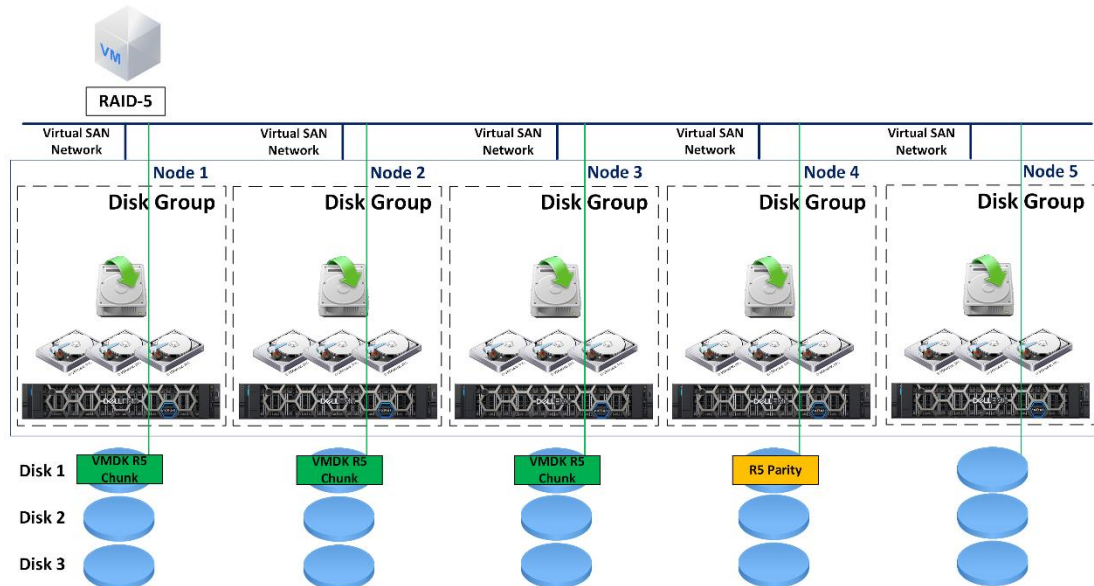
FTT = 1, FTM = RAID-1 (Mirroring)



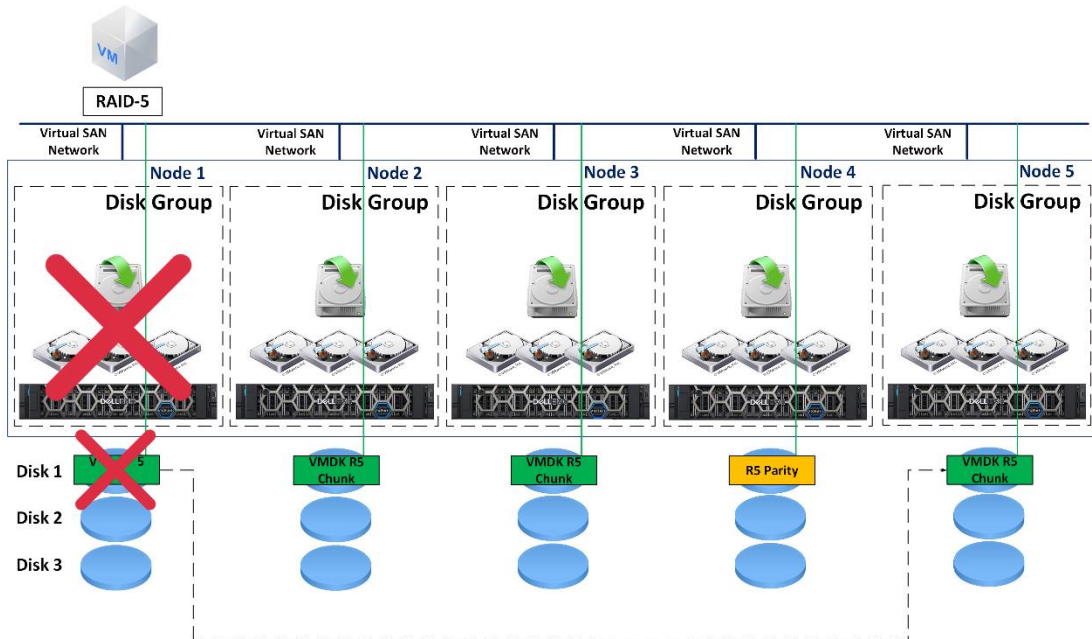
FTT = 1, FTM = RAID-1 (Mirroring)



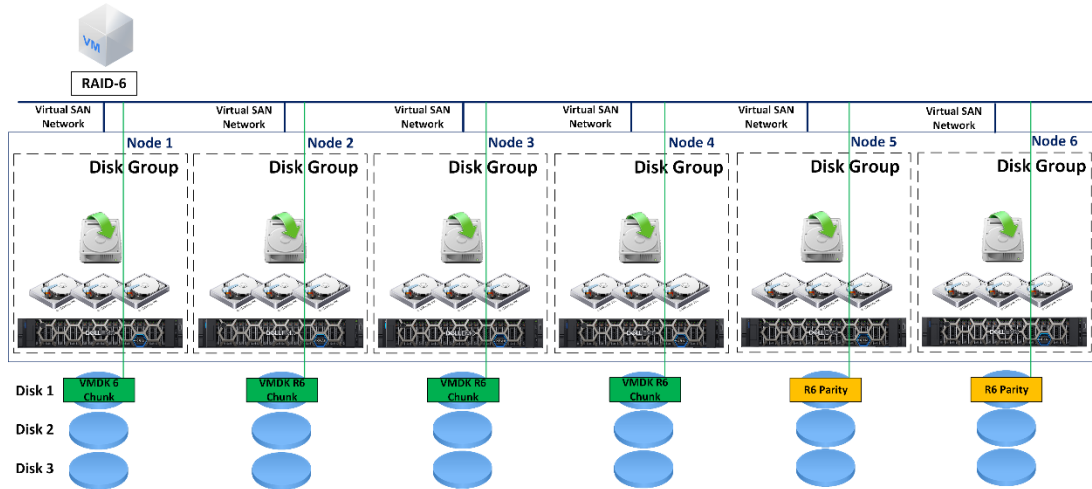
FTT = 1, FTM = RAID-5 (Erasure Coding)



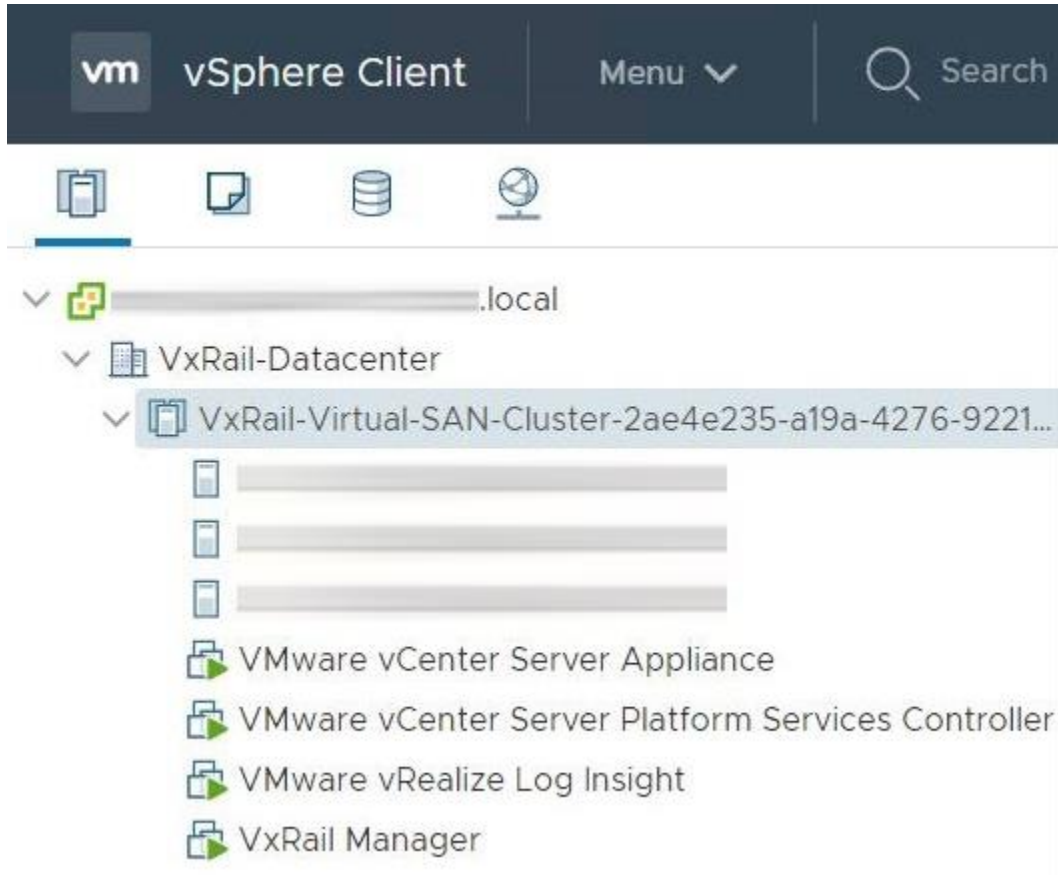
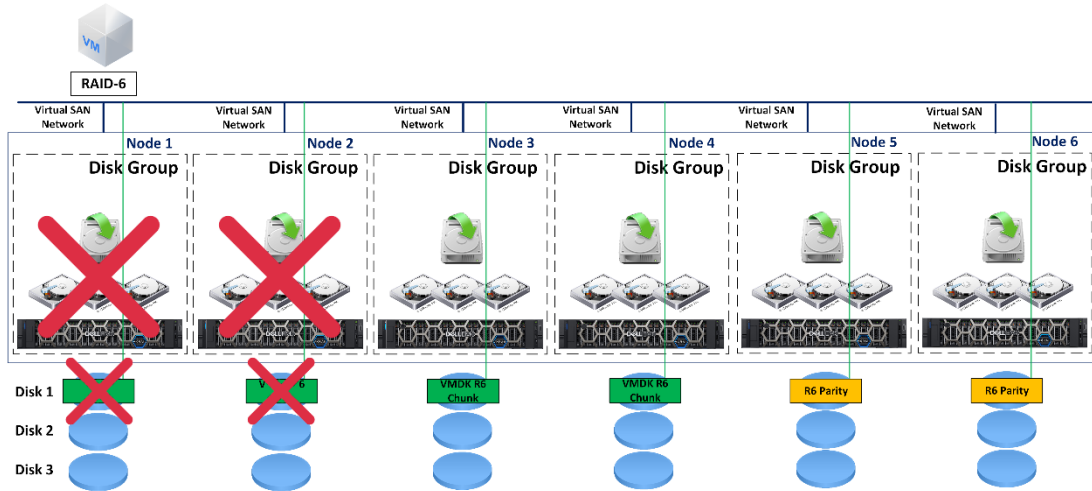
FTT = 1, FTM = RAID-5 (Erasure Coding)



FTT = 2, FTM = RAID-6 (Erasure Coding)



FTT = 2, FTM = RAID-6 (Erasure Coding)



Summary Monitor Configure Permissions Datacenters Hosts & Clusters

VxRail-Datacenter

- VMware HCIA Distributed Switch
 - Management Network-8596e7aa-99fa-4223-96...
 - vCenter Server Network-8596e7aa-99fa-4223-...
 - Virtual SAN-8596e7aa-99fa-4223-961d-91a98f6...
 - VM
 - VMware HCIA Dist-DVUplinks-26
 - vSphere vMotion-8596e7aa-99fa-4223-961d-91...
 - VxRail Management-8596e7aa-99fa-4223-961d...

Networks Distributed Switches **Distributed Port Groups** Uplink Port Groups

Name ↑	VLAN ID	Port B
Management Network-8596e7aa-99fa...	VLAN access: 0	Static
vCenter Server Network-8596e7aa-99...	VLAN access: 0	Static
Virtual SAN-8596e7aa-99fa-4223-961...	VLAN access: 0	Static
VM	VLAN access: 0	Static
vSphere vMotion-8596e7aa-99fa-422...	VLAN access: 0	Static
VxRail Management-8596e7aa-99fa-4...	VLAN access: 0	Static

VxRail-Virtual-SAN-Cluster

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

Services

- vSphere DRS
- vSphere Availability
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management**
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

✓ All 8 disks on version 10.0.

CLAIM UNUSED DISKS ADD DISKS PRE-CHECK DATA MIGRATION ... Show: By

Disk Group	Disks in...	State	vSAN Health S...	Type	Fault Do...	Network Partition ...
2 of 2	Connected	Healthy			Group 1	
Disk group (5294238c-a0a4-9853-3ded-d3108...	2	Mounted	Healthy	Hybrid		
2 of 2	Connected	Healthy			Group 1	
Disk group (523d46ae-912f-835f-00f1-35cf344...	2	Mounted	Healthy	Hybrid		
2 of 2	Connected	Healthy			Group 1	
Disk group (528cbae4-d103-bb43-2d80-63a2...	2	Mounted	Healthy	Hybrid		

ADD DISKS

<input type="checkbox"/>	Name	Drive Type	Disk Tier	Capacity	vSAN Health Status
<input type="checkbox"/>	Local VMware Disk (mpx.vmhba1:CO:T8:L0)	Flash	Cache	20.00 GB	Healthy
<input type="checkbox"/>	Local VMware Disk (mpx.vmhba1:CO:T0:L0)	HDD	Capacity	80.00 GB	Healthy

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

Services

- vSphere DRS
- vSphere Availability
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services**
 - Disk Management
 - Fault Domains

TURN OFF VSAN

Deduplication and compression	Disabled	EDIT
> Encryption	Disabled	GENERATE NEW ENCRYPTION KEYS EDIT
> Performance Service	Disabled	EDIT
> vSAN iSCSI Target Service	Disabled	EDIT
> Advanced Options		EDIT

Policies and Profiles

📁 VM Customization Specifications

📁 **VM Storage Policies**

📁 Host Profiles

📁 Storage Policy Components

VM Storage Policies

📁 Create VM Storage Policy |

Name

📁 Host-local PMem Default Storage Policy

📁 VM Encryption Policy

📁 vSAN Default Storage Policy

📁 VVol No Requirements Policy

📁 VXRAIL-SYSTEM-STORAGE-PROFILE

5 items

Rules VM Compliance VM Template Storage Compatibility







⌵ Filter

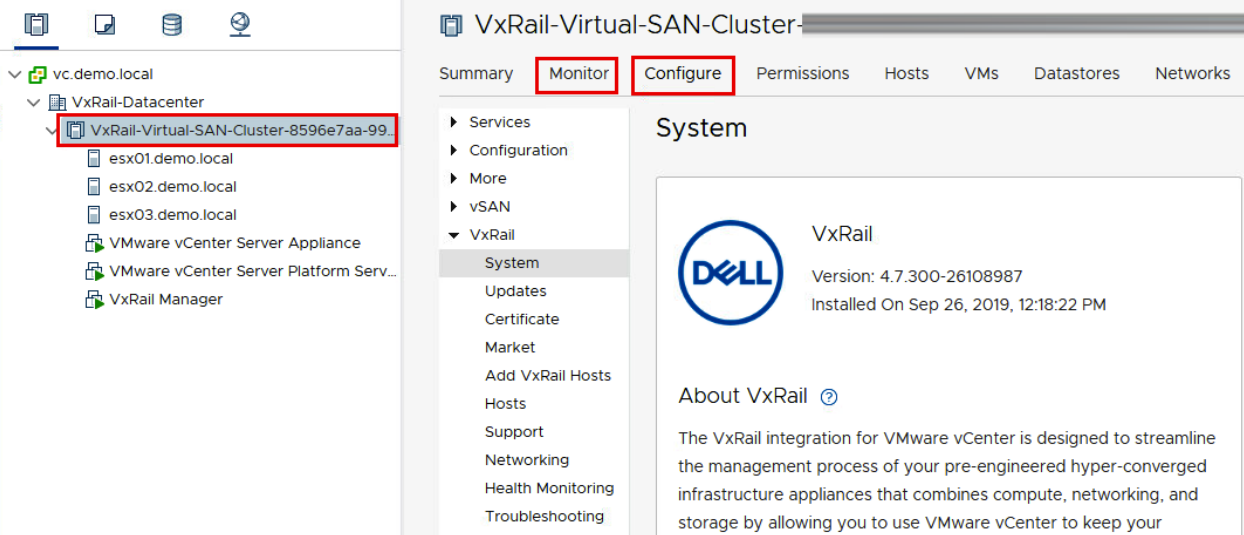
Name	Compliance Status
📁 VxRail Manager	✓ Compliant
📁 VMware vCenter Server Appliance	✓ Compliant
📁 VMware vCenter Server Platform Services Controller	✓ Compliant

Chapter 4: VxRail Management Overview.

Client Plug-Ins

ENABLE DISABLE

	Name	Vendor	Version	Description	Plugin ID
<input type="radio"/>	 VMware vRops Client Plugin	VMware, Inc.	6.7.0.40000	VMware vRops Client Plugin	com.vmware.vrops.install
<input type="radio"/>	 VMware vSAN H5 Client Plugin	VMware, Inc.	6.7.0.40000	VMware vSAN H5 Client Plugin	com.vmware.vsphere.client.h5vsan
<input type="radio"/>	 VMware Update Manager	VMware	6.7.0.41905	VMware Update Manager HTML client	com.vmware.vum.client
<input type="radio"/>	 VxRail HTML5 Client Plugin	VMware Inc.	4.7.300	vSphere Client Extension for VxRail Clusters	com.vmware.vxrail
<input type="radio"/>	 VMware Update Manager	VMware	6.7.0.41905	Update Manager client	com.vmware.vcintegrity.vcintegrity
<input type="radio"/>	 VMware vSAN Web Client Plugin	VMware, Inc.	6.7.0.40000	VMware vSAN Web Client Plugin	com.vmware.vsan.health



The screenshot shows the vCenter interface for a VxRail cluster. On the left, a tree view shows the hierarchy: vc.demo.local > VxRail-Datacenter > VxRail-Virtual-SAN-Cluster-8596e7aa-99... (highlighted). The main pane shows the 'VxRail-Virtual-SAN-Cluster' configuration page with tabs for Summary, Monitor, Configure, Permissions, Hosts, VMs, Datastores, and Networks. The 'Configure' tab is active, showing a 'System' section with the Dell logo, 'VxRail' name, version '4.7.300-26108987', and installation date 'Sep 26, 2019, 12:18:22 PM'. Below this is an 'About VxRail' section with a help icon and a descriptive paragraph.

- Services
- Configuration
- More
- vSAN
- VxRail
 - System**
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

System



VxRail

Version: 4.7.300-26108987

Installed On Sep 26, 2019, 12:18:22 PM

About VxRail

The VxRail integration for VMware vCenter is designed to streamline the management process of your pre-engineered hyper-converged infrastructure appliances that combines compute, networking, and storage by allowing you to use VMware vCenter to keep your operational environment up and running.

Helpful Information

- [Product Documentation](#)
- [Privacy Statement](#)
- [Update](#)

Copyright (c) 2019 Dell Inc.

- VM/Host Rules
- VM Overrides
- Host Options
- Host Profile
- I/O Filters
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management
 - Fault Domains
- VxRail
 - System
 - Updates**
 - Certificate

- SYSTEM
- INTERNET UPDATES**
- LOCAL UPDATES

Current VxRail System Version	4.7.300-26108987
Installed On	Sep 26, 2019, 12:18:22 PM

Installed Components and Versions

- Dell PTAgent 1.9.2-20
- VMware ESXi 6.7.0-14320388
- VxRail Manager 4.7.300-19122601 **Supported, reference version is 4.7.300-14450150**
- VMware vCenter Server Appliance 6.7.0-14368073
- VxRail Manager VIB 4.7.300-14450150

- VM/Host Rules
- VM Overrides
- Host Options
- Host Profile
- I/O Filters
- ▼ More
 - Alarm Definitions
 - Scheduled Tasks
- ▼ vSAN
 - Services
 - Disk Management
 - Fault Domains
- ▼ VxRail
 - System
 - Updates
 - Certificate**

Certificate Management

Replace VxRail Manager SSL Certificate

Certificate file
content: ⓘ *

Private key file
content: ⓘ *

Certificate chain
content: ⓘ *

- ▶ Services
- ▶ Configuration
- ▼ More
 - Alarm Definitions
 - Scheduled Tasks
- ▼ vSAN
 - Services
 - Disk Management
 - Fault Domains
- ▼ VxRail
 - System
 - Updates
 - Certificate
 - Market**
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

Market

[Open market view](#)

The world's most trusted protection storage is now software-defined with Data Domain Virtual Edition (DD VE). DD VE is simple to configure and deploy and can be up and running in your environment within minutes. Flexible licensing includes capacity, DD Boost, DD Replicator and DD Encryption. Learn more	Latest version 4.0 Download
IsilonSD Edge is the software-defined version of the DellEMC Isilon file storage appliance, the market leader in scale-out NAS storage. IsilonSD Edge provides native multi-protocol file support for NFS/SMB/HDFS/Swift/HTTP/FTP, enterprise class data management features, and integrated cloud-tiering capabilities for a hybrid cloud storage solution. Learn more	Latest version 1.0.3 Download
RecoverPoint for Virtual Machines protects and recovers VM's locally or remotely to any point in time, at VM level granularity. Disaster and Operational Recovery automation includes Test, Failback, Recover-Production and more. VxRail E, P, S and V Series appliances receive a 5 VM license each, while a VxRail G Series appliance receives a 15 VM license, regardless of the number of sleds installed in the chassis. Learn more	Latest version 5.2.0.6 Download

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

- Services
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts**
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

Add VxRail Hosts

The following VxRail hosts have been discovered within your environment.

⚠ Cluster and new hosts must have compatible software and firmware versions.

Cluster Name: VxRail-Virtual-SAN-Cluster-████████████████████

Cluster Size: 4 hosts

Service Tag	Appliance ID	Model	Compatible
██████████	██████████	VxRail E560	✔ Compatible

1 hosts discovered. 64 hosts allowed per cluster.

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

- Services
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts**
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

Hosts

EDIT

	Service Tag	Appliance ID	Model	Operation Status	ESXi Host Management IP
<input type="radio"/>	██████████	██████████	VxRail E560	Available	192.168.1.101
<input type="radio"/>	██████████	██████████	VxRail E560	Available	192.168.1.102
<input type="radio"/>	██████████	██████████	VxRail E560	Available	192.168.1.103

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

- Services
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support**
 - Networking
 - Health Monitoring
 - Troubleshooting

Support

Dell EMC Support Account EDIT...

Dell EMC Support Account is not configured.

Dell EMC Secure Remote Service (SRS) DELETE... EDIT...

Dell EMC Secure Remote Support allows your appliance to periodically send health data to Support. It also allows Support to connect to your appliance to correct problems, often before they become serious.

SRS Status	Not Configured
SRS Connection	Disabled
Customer Improvement Program	Disabled

VxRail ACE (Analytical Consulting Engine) ?

VxRail ACE allows you to monitor (and eventually manage) all of your VxRail clusters in a centralized web interface. To view your VxRail clusters in VxRail ACE, your Dell EMC support account must be enabled, SRS must be configured, and you need to opt in the Customer Improvement Program for each cluster in your environment. To learn more about VxRail ACE, refer to [VxRail ACE FAQ](#).

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

- Services
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking**
 - Health Monitoring
 - Troubleshooting

Configure Network Environment Settings

Internet Connection

If you are disconnected from the Internet, features that require Internet access are disabled.

Connection Status: Enabled

Configure Proxy Settings EDIT...

Allow connections to an external network through your internal network's proxy server.

Proxy Status: Disabled

Traffic Throttle Configuration

This option provides the optimal communication frequency of VxRail manager to vCenter, but may have a negative impact on the network bandwidth consumption.

Level: None Basic Medium Advanced

APPLY

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

Health Monitoring ?

- Services
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring**
 - Troubleshooting

VxRail Cluster Health Monitoring

When health monitoring is disabled, the VxRail cluster's health status is ignored. This can be useful when part of the cluster is disabled, such as node replacement.

Health Monitoring Status Enabled

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

Log Collection ? **CREATE...**

Create and download a diagnostics log bundle for your VxRail cluster.

i There are currently no log bundles created.

- Services
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting**

Create Log Bundle ✕

Select the data to include in log bundle file.

Data to Collect

- VxRail Manager
- vCenter
- ESXi *
- iDRAC * i
- PTAgent * i

* Requires host selection

CANCEL
GENERATE

Summary
Monitor
Configure
Permissions
Hosts
VMs
Datastores
Networks
Updates

- ▼ Resource Allocation
 - CPU
 - Memory
 - Storage
- Utilization
- Storage Overview
- Security
- ▼ vSAN
 - Health
 - Virtual Objects
 - Physical Disks
 - Resyncing objects
 - Proactive Tests
 - Capacity
 - Performance
 - Performance diagno...
 - Support
 - Data Migration Pre-c...
- ▼ VxRail
 - Appliances
 - Last Configuration D...
- ▼ Cloud Native Storage
 - Container Volumes

Cluster ID:

Last Timestamp: Dec 12, 2020, 9:36:44 AM

Number of Chassis: 4

Connected: Yes

Health State: ✔ Healthy

Operational State: ✔ OK

All ?

- ✔ Hostname: esx03.demo.local
- ✔ Appliance ID:
- ✔ Appliance ID:
- ✔ Appliance ID:

esx03.demo.local ACTIONS ▼

Service Tag:

Appliance ID:

Appliance PSNT:

Model: VxRail E560

ESXi IP Address: 192.168.1.103

iDRAC IP Address:

i No new alerts found.

- ▶ Issues and Alarms
- ▶ Performance
- ▶ Tasks and Events
- ▶ vSphere DRS
- ▶ Resource Allocation
 - Utilization
 - Storage Overview
 - Security
- ▶ vSAN
- ▼ VxRail
 - Appliances
 - Last Configuration D...**
- ▼ Cloud Native Storage
 - Container Volumes

Last Configuration Data Sent

View and download the last configuration data sent to Dell EMC using SRS.

[↓ DOWNLOAD](#)

[EXPAND ALL](#)

- ▼ Issues and Alarms
 - All Issues
 - Triggered Alarms
- ▼ Performance
 - Overview
 - Advanced
- ▼ Tasks and Events
 - Tasks
 - Events
- Hardware Health
- ▼ VxRail
 - Physical View**
- ▼ vSAN
 - Performance
 - Health

Appliance ID:	██████████	Appliance PSNT:	██████████
Service Tag:	██████████	Model:	VxRail E560
System Health:	✔ Healthy (1 Hosts)	ESXi IP Address:	192.168.1.101
IDRAC IP Address:	██████████		

Front View



Back View



esx01.demo.local ACTIONS

OVERVIEW BOOT DEVICE ALERTS

Power Status: Powered On

System Status LED: ● (OFF)

Health: ✔ Healthy

Hostname: esx01.demo.local

Manufacturer: Dell Inc.

Slot: 1

Serial Number: ██████████

Firmware Versions

BIOS: 1.5.4

- Issues and Alarms
 - All Issues
 - Triggered Alarms
- Performance
 - Overview
 - Advanced
- Tasks and Events
 - Tasks
 - Events
- Hardware Health
- VxRail
 - Physical View
- vSAN
 - Performance
 - Health



Hostname: esx01.demo.local
Manufacturer: Dell Inc.
Slot: 1
Serial Number: V052502

Firmware Versions

BIOS: 1.5.4
BMC: 3.21.23.22
HBA: 16.17.00.03
Expander Back Plane: 2.40
BOSS: 2.5.13.3014
CPLD Firmware: 1.0.1

Component Versions

Dell PtAgent: 1.9.2-20
HBA Driver: 17.00.02.00-1vmw.670.3.73.14320388
Vmware ESXi: 6.7.0-14320388
VxRail VIB: 4.7.300-14450150

- Issues and Alarms
 - All Issues
 - Triggered Alarms
- Performance
 - Overview
 - Advanced
- Tasks and Events
 - Tasks
 - Events
- Hardware Health
- VxRail
 - Physical View
- vSAN
 - Performance
 - Health



Back View



OVERVIEW BOOT DEVICE ALERTS

Power Status: Powered On
System Status LED: (OFF)
Health: Healthy
Hostname: esx01.demo.local
Manufacturer: Dell Inc.
Slot: 1
Serial Number:

Firmware Versions

BIOS: 1.5.4
BMC: 3.21.23.22
HBA: 16.17.00.03
Expander Back Plane: 2.40
BOSS: 2.5.13.3014
CPLD Firmware: 1.0.1

Component Versions

Disk Information

INFORMATION ALERTS

Status LED: (HEALTHY) Health: Healthy
Serial Number: Manufacturer: TOSHIBA
Slot: 8 Model: PX05SMB040Y
Protocol: SCSI Disk Type: SSD
GUID: 6000c29eea30037ef7 Capacity: 20480
7101871a754222

- Services
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring**
 - Troubleshooting

Health Monitoring

VxRail Cluster Health Monitoring

When health monitoring is disabled, the VxRail cluster's health status is ignored. This can be useful when part of the cluster is disabled, such as node replacement.

Health Monitoring Status Enabled

Appliance ID: [Redacted]
Service Tag: [Redacted]
System Health: Healthy (1 Hosts)
iDRAC IP Address: Unknown

Appliance PSNT: [Redacted]
Model: VxRail E560
ESXi IP Address: [Redacted]

Front View



Back View



[Redacted] **ACTIONS** ▾

OVERVIEW | BOOT DEVICE | ALERTS

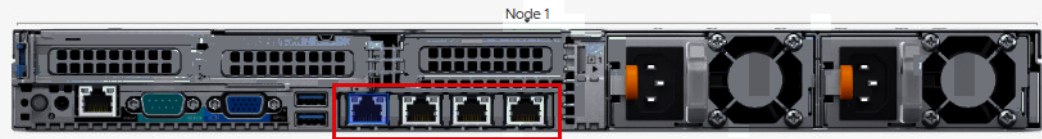
Power Status: Powered On
System Status LED: (OFF)
Health: Healthy
Hostname: [Redacted]
Manufacturer: Dell Inc.
Slot: 1
Serial Number: [Redacted]

Firmware Versions

BIOS: 1.5.4

- Overview
- Advanced
- ▼ Tasks and Events
 - Tasks
 - Events
- Hardware Health
- ▼ VxRail
 - Physical View
- ▼ vSAN
 - Performance
 - Health

Back View

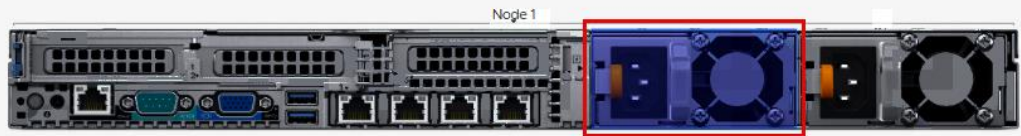


Network Interface Controller Information

INFORMATION		DRIVER VERSION	
MAC Address:	00:50:56:a5:31:a2	Link Status:	Up
Link Speed:	10 Gbps	Port:	1
Firmware Family Version:	18.5.18		

- ▼ Issues and Alarms
 - All Issues
 - Triggered Alarms
- ▼ Performance
 - Overview
 - Advanced
- ▼ Tasks and Events
 - Tasks
 - Events
- Hardware Health
- ▼ VxRail
 - Physical View
- ▼ vSAN
 - Performance
 - Health

Back View




Power Supply Information


INFORMATION		ALERTS	
Serial Number:		Slot:	1
Health:	Healthy	Part Number:	OY26KXA02
Revision Number:	00.1D.7D	Name:	Power Supply 1
Manufacturer:	Dell		

Summary **Monitor** Configure Permissions VMs Datastores Networks Updates

- Issues and Alarms
 - All Issues
 - Triggered Alarms
- Performance
 - Overview
 - Advanced
- Tasks and Events
 - Tasks
 - Events
 - Hardware Health
- VxRail
 - Physical View**
- vSAN
 - Performance
 - Health



Back View



Disk Information ACTIONS ▾ ×

INFORMATION ALERTS

Status LED:	● (HEALTHY)	Health:	✔ Healthy
Serial Number:	████████████████████	Manufacturer:	TOSHIBA
Slot:	0	Model:	PX05SMB040Y
Protocol:	SCSI	Disk Type:	HDD
GUID:	6000c2953860bea040561f	Capacity:	81920

Summary **Monitor** Configure Permissions Hosts VMs Datastores Networks Updates

- Issues and Alarms
 - All Issues
 - Triggered Alarms**
- Performance
 - Overview
 - Advanced
- Tasks and Events
 - Tasks
 - Events
- vSphere DRS
 - Recommendations
 - Faults
 - History
 - CPU Utilization
 - Memory Utilization
 - Network Utilization
- Resource Allocation
 - CPU
 - Memory
 - Storage
 - Utilization
 - Storage Overview
 - Security

ACKNOWLEDGE RESET TO GREEN

<input type="checkbox"/>	Alarm Name ▾	Object ▾	Object type ▾	Severity ▾	Triggered Time ▾	Acknowledged Time ▾
<input type="checkbox"/>	Host memory usage	esx02.demo.local	Host	⚠ Warning	12/14/2020, 2:03:27 PM	

vc.demo.local | ACTIONS

Sum... **Mon...** Conf... Permis... Datace... Hosts & Cl... V... Datast... Netw... Linked vCenter Server... Extens... Upd...

- Issues and Alarms
 - All Issues
 - Triggered Alarms
- Tasks and Events
 - Tasks
 - Events**
 - Sessions
 - Security
- Cloud Native Storage
 - Container Volumes
 - Health

Description	Type	Date Time	Task	Target	User	Event Type ID
Task VMw...	Information	12/14/2020, 2:3...			com.vmware.vc...	vim.event.Sche...
User admi...	Information	12/14/2020, 2:3...		esx01.dem...	administrator	vim.event.User...
User admi...	Information	12/14/2020, 2:3...		esx01.dem...	administrator	vim.event.User...
Running ta...	Information	12/14/2020, 2:3...				vim.event.Sche...
Task: Chec...	Information	12/14/2020, 2:3...	Check new not...	vc.demo.l...		vim.event.Task...
User admi...	Information	12/14/2020, 2:3...		esx02.de...	administrator	vim.event.User...
User admi...	Information	12/14/2020, 2:3...		esx02.de...	administrator	vim.event.User...
User admi...	Information	12/14/2020, 2:3...		esx01.dem...	administrator	vim.event.User...
User admi...	Information	12/14/2020, 2:3...		esx01.dem...	administrator	vim.event.User...
User admi...	Information	12/14/2020, 2:3...		esx03.de...	administrator	vim.event.User...

100 items

Date Time: 12/14/2020, 2:33:24 PM **Type:** Information
User: administrator **Target:** esx01.demo.local

Description:
 12/14/2020, 2:33:24 PM User administrator@192.168.1.200 logged out (login time: Monday, December 14, 2020 2:33:23 PM UTC, number of API invocations: 0, user agent:)

Related events:
 There are no related events.

vm vSphere Client | Menu | Search in all environments

- Administration
 - Access Control
 - Roles**
 - Global Permissions
 - Licensing
 - Licenses
 - Solutions
 - Client Plug-Ins
 - vCenter Server Extensions
 - Deployment
 - System Configuration
 - Customer Experience Improvement Program
 - Support
 - Upload File to Service Request
 - Single Sign On
 - Users and Groups
 - Configuration
 - Certificates
 - Certificate Management

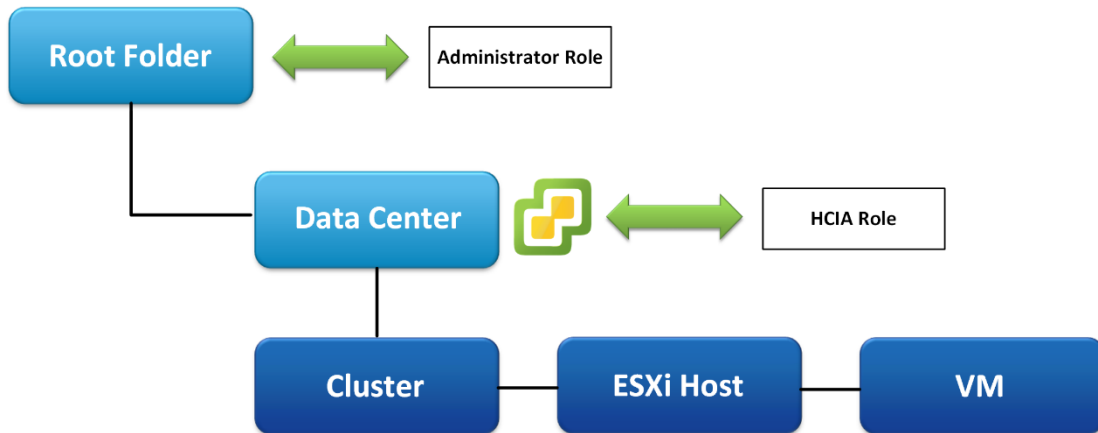
Roles

Roles provider: vc.demo.local

	DESCRIPTION	USAGE	PRIVILEGES
Administrator	Full access rights		
Read-only			
No access			
AutoUpdateUser			
Content library administrator (sample)			
Datastore consumer (sample)			
Network administrator (sample)			
No cryptography administrator			
Resource pool administrator (sample)			
Tagging Admin			
Virtual Machine console user			
Virtual machine power user (sample)			
Virtual machine user (sample)			
VMware Consolidated Backup user (sample)			
VMware HCIA Management			
vSphere Client Solution User			

16 items

VxRail Role Based Access Control



Roles provider:

+ [Icons] X

	DESCRIPTION	USAGE	PRIVILEGES
Administrator			
Read-only			
No access			
AutoUpdateUser			
Content library administrator (sample)			
Datastore consumer (sample)			
Network administrator (sample)			
No cryptography administrator			
Resource pool administrator (sample)			
Tagging Admin			
Virtual Machine console user			
Virtual machine power user (sample)			
Virtual machine user (sample)			
VMware Consolidated Backup user (sample)			
VMware HCIA Management			
vSphere Client Solution User			

16 items

Alarms

- Create alarm
- Remove alarm
- Set alarm status

Permissions

- Modify permission

Cryptographic operations

- Decrypt
- Direct Access
- Migrate

dvPort group

- Modify

Distributed switch

- Host operation
- Modify
- Network I/O control operation

Datastore

- Allocate space
- Browse datastore
- Low level file operations

Administration

- Access Control
 - Roles
 - Global Permissions
- Licensing
 - Licenses
- Solutions
 - Client Plug-Ins
 - vCenter Server Extensions
- Deployment
 - System Configuration
 - Customer Experience Improvement Progr...
- Support
 - Upload File to Service Request
- Single Sign On
 - Users and Groups**
 - Configuration
- Certificates
 - Certificate Management

Users and Groups

Users Groups

Domain vsphere.local

ADD USER

Username	First Name	Last Name	Email	Description	Locked	Disabled	Domain
K/M					No	No	vsphere.local
Administrator	Administrator	vsphere.local			No	No	vsphere.local
waiter-8ae7b42a-1657-40be-abf1-19a2da79ecd3	waiter	8ae7b42a-1657-40be-abf1-19a2da79ecd3			No	No	vsphere.local
krbtgt/VSphere.LOCAL					No	No	vsphere.local

Add User

Username *

Password * ⓘ

Confirm Password *

First Name

Last Name

Email

Description

CANCEL **ADD**

vc.demo.local | ACTIONS

Sum... Mon... Confi... **Permis...** Datace... Hosts & Cl... V... Datast... Netw... Linked vCenter Server... Extens... Upd...

+ ✎ ✕

User/Group ↑	Role	Defined In
administrator	VMware HClA Management	This object and its children
VSPHERE.LOCAL\Administrator	Administrator	This object and its children
VSPHERE.LOCAL\Administrators	Administrator	Global Permission
VSPHERE.LOCAL\AutoUpdate	AutoUpdateUser	Global Permission
VSPHERE.LOCAL\vpzd-636eacf1-1da1-4022-8ffc-d4763b0be93d	Administrator	Global Permission
VSPHERE.LOCAL\vpzd-extension-636eacf1-1da1-4022-8ffc-d47...	Administrator	Global Permission
VSPHERE.LOCAL\vsphere-webclient-636eacf1-1da1-4022-8ffc-...	vSphere Client Solution User	Global Permission

Add Permission | vc.demo.local

User: vsphere.local

Q user1

Role: VMware HClA Management

Propagate to children

CANCEL OK



User/Group ↑	Role	Defined In
administrator	VMware HCIA Management	This object and its children
VSPHERE.LOCAL\Administrator	Administrator	This object and its children
VSPHERE.LOCAL\Administrators	Administrator	Global Permission
VSPHERE.LOCAL\AutoUpdate	AutoUpdateUser	Global Permission
VSPHERE.LOCAL\user1	VMware HCIA Management	This object and its children
VSPHERE.LOCAL\vpzd-636eacf1-1da1-4022-8f1c-d4763b0...	Administrator	Global Permission
VSPHERE.LOCAL\vpzd-extension-636eacf1-1da1-4022-8f1...	Administrator	Global Permission
VSPHERE.LOCAL\vsphere-webclient-636eacf1-1da1-4022-...	vSphere Client Solution User	Global Permission

Chapter 5: Managing VMware vSAN.

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

TURN OFF VSAN

- Services
 - vSphere DRS
 - vSphere Availability
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services**
 - Disk Management
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

Deduplication and compression	Disabled		EDIT
▼ Encryption	Disabled	GENERATE NEW ENCRYPTION KEYS	EDIT
KMS Cluster	--		
Disk Wiping	Disabled		
▼ Performance Service	Disabled		EDIT
Stats object health	--		
Stats object UUID	--		
Stats object storage policy	--		
Compliance status	--		
Verbose mode	--		
Network diagnostic mode	--		
> vSAN iSCSI Target Service	Disabled		EDIT
> Advanced Options			EDIT

Summary Monitor Configure Permissions Hosts VMs Datastores Networks Updates

vSAN Services | VxRail-Virtual-SAN-Cluster- [X]

TURN OFF VSAN

EDIT

EDIT

EDIT

EDIT

EDIT

EDIT

Services

These settings require all disks to be reformatted. Moving large amount of stored data might be slow and temporarily decrease the performance of the cluster.

Deduplication and Compression ⓘ

Encryption ⓘ

Wipe residual data ⓘ

KMS cluster [v]

Options

Allow Reduced Redundancy ⓘ

CANCEL APPLY

Networking Health Monitoring Troubleshooting Advanced Options

Summary Monitor Configure Permissions Hosts VMs Datastores Networks Updates

vSAN Services | VxRail-Virtual-SAN-Cluster-8596e7aa-99fa-4223-961d-91a98f... [X]

TURN OFF VSAN

EDIT

EDIT

EDIT

EDIT

EDIT

Services

These settings require all disks to be reformatted. Moving large amount of stored data might be slow and temporarily decrease the performance of the cluster.

Deduplication and Compression ⓘ

Encryption ⓘ

Wipe residual data ⓘ

KMS cluster [v]

Options

Allow Reduced Redundancy ⓘ

CANCEL APPLY

Networking Health Monitoring Troubleshooting Advanced Options

vSAN Performance Service Settings

VxRail-Virtual-SAN-Cluster- [Close]

Enable vSAN Performance Service

Compatibility checks succeeded.

Storage policy: vSAN Default Storage Policy

The vSAN performance history database is stored as a vSAN object. The policy controls the availability, space consumption, and performance of that object. If the object becomes unavailable, the performance history for the cluster is also unavailable.

CANCEL APPLY

Health Monitoring Troubleshooting | Advanced Options

TURN OFF VSAN | EDIT | EDIT | EDIT | EDIT

Edit vSAN iSCSI Target Service

VxRail-Virtual-SAN-Cluster- [Close]

Enable vSAN iSCSI target service ⓘ

Select a default network to handle the iSCSI traffic. You can override this setting per target.

Default iSCSI network: vmk4

Default TCP port: 3260

Authentication: None

When you enable iSCSI target service, vSAN creates a home object that stores metadata for iSCSI target service similar to the VM Home object of a virtual machine.

Compatibility checks succeeded.

Storage policy for the home object: vSAN Default Storage Policy

CANCEL APPLY

Health Monitoring Troubleshooting | Advanced Options

Updates | TURN OFF VSAN | EDIT | GENERATE NEW ENCRYPTION KEYS | EDIT | EDIT | EDIT | EDIT

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

Advanced Options | VxRail-Virtual-SAN-Cluster- [X]

Object Repair Timer	60	minutes	(i)
Site Read Locality	<input type="checkbox"/>		(i)
Thin Swap	<input checked="" type="checkbox"/>		(i)
Large Cluster Support	<input checked="" type="checkbox"/>		(i)
Automatic Rebalance	<input type="checkbox"/>		(i)

CANCEL APPLY

TURN OFF VSAN

EDIT

GENERATE NEW ENCRYPTION KEYS EDIT

EDIT

Support

Networking

Health Monitoring

Troubleshooting

> vSAN iSCSI Target Service Disabled EDIT

> Advanced Options EDIT

Scheduled Tasks

Key Management Serv...

Storage Providers

▼ vSAN

Update

Internet Connectivity

VMware vSAN	Online	--	--	https://v...	12/25/20...	3.0	--
Internally Managed	--	--					

General Supported Vendor IDs Certificate Info

Provider name VMware vSAN

Provider status Online

Active/standby status --

Activation Automatic

URL https://vc.demo.local:443/vsanHealth/vsanvp/version.xml

Provider version 6.6

VASA API version 3.0

Default namespace VSAN

Provider ID vsan

Supported profiles Storage Profile Based Management
ObjectStorageProfile

[Create VM Storage Policy](#) |
 [Edit Settings](#) |
 [Clone](#) |
 [Check Compliance](#) |
 [Reapply VM Storage Policy](#) |
 [Delete](#)

Name	VC
Host-local PMem Default Storage Policy	vc.demo.local
VM Encryption Policy	vc.demo.local
vSAN Default Storage Policy	vc.demo.local
VVol No Requirements Policy	vc.demo.local
VXRAIL-SYSTEM-STORAGE-PROFILE	vc.demo.local

[Rules](#) |
 [VM Compliance](#) |
 [VM Template](#) |
 [Storage Compatibility](#)

General

Name: VXRAIL-SYSTEM-STORAGE-PROFILE

Description: Storage profile used by VxRail. Do not remove! ({proportionalCapacity=100, hostFailuresToTolerate=1})

Rule-set 1: VSAN

Placement

Storage Type	VSAN
Site disaster tolerance	None - standard cluster
Failures to tolerate	1 failure - RAID-1 (Mirroring)
Number of disk stripes per object	1
IOPS limit for object	0
Object space reservation	Thin provisioning
Flash read cache reservation	0%

[Create VM Storage Policy](#) |
 [Edit Settings](#) |
 [Clone](#) |
 [Check Compliance](#) |
 [Reapply VM Storage Policy](#) |
 [Delete](#)

Name	VC
Host-local PMem Default Storage Policy	vc.demo.local
New VM Storage Policy	vc.demo.local
VM Encryption Policy	vc.demo.local
vSAN Default Storage Policy	vc.demo.local
VVol No Requirements Policy	vc.demo.local
VXRAIL-SYSTEM-STORAGE-PROFILE	vc.demo.local

[Rules](#) |
 [VM Compliance](#) |
 [VM Template](#) |
 [Storage Compatibility](#)


Filter

Name	Compliance Status	Last Checked
VxRail Manager	✓ Compliant	Dec 25, 2020 11:00 PM
VMware vCenter Server Appliance	✓ Compliant	Dec 25, 2020 11:00 PM
VMware vCenter Server Platform Services Controller	✓ Compliant	Dec 25, 2020 11:00 PM

Create VM Storage Policy

Name and description

- 1 Name and description
- 2 Policy structure
- 3 Storage compatibility
- 4 Review and finish

vCenter Server:  VC.DEMO.LOCAL ▾

Name: New VM Storage Policy

Description:

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

Create VM Storage Policy

Policy structure

- 1 Name and description
- 2 Policy structure
- 3 vSAN
- 4 Storage compatibility
- 5 Review and finish

Host based services

Create rules for data services provided by hosts. Available data services could include encryption, I/O control, caching, etc. Host based services will be applied in addition to any datastore specific rules.

Enable host based rules

Datastore specific rules

Create rules for a specific storage type to configure data services provided by the datastores. The rules will be applied when VMs are placed on the specific storage type.

Enable rules for "vSAN" storage

Enable tag based placement rules

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

Create VM Storage Policy

- 1 Name and description
- 2 Policy structure
- 3 vSAN**
- 4 Storage compatibility
- 5 Review and finish

vSAN



Availability Advanced Policy Rules Tags

Site disaster tolerance ⓘ None - standard cluster

Failures to tolerate ⓘ

- None - standard cluster
- None - standard cluster with nested fault domains
- Dual site mirroring (stretched cluster)
- None - keep data on Preferred (stretched cluster)
- None - keep data on Non-preferred (stretched cluster)
- None - stretched cluster

CANCEL BACK NEXT

Create VM Storage Policy

- 1 Name and description
- 2 Policy structure
- 3 vSAN**
- 4 Storage compatibility
- 5 Review and finish

vSAN



Availability Advanced Policy Rules Tags

Site disaster tolerance ⓘ None - standard cluster

Failures to tolerate ⓘ

- 1 failure - RAID-1 (Mirroring)
- No data redundancy**
- 1 failure - RAID-1 (Mirroring) be 200 GB
- 1 failure - RAID-5 (Erasure Coding)
- 2 failures - RAID-1 (Mirroring)
- 2 failures - RAID-6 (Erasure Coding)
- 3 failures - RAID-1 (Mirroring)

CANCEL BACK NEXT

Create VM Storage Policy

- 1 Name and description
- 2 Policy structure
- 3 vSAN**
- 4 Storage compatibility
- 5 Review and finish

vSAN

Availability **Advanced Policy Rules** Tags

Number of disk stripes per object ⓘ 1 ▾

IOPS limit for object ⓘ 0

Object space reservation ⓘ Thin provisioning ▾
Initially reserved storage space for 100 GB VM disk would be 0 B

Flash read cache reservation (%) ⓘ 0
Reserved cache space for 100GB VM disk would be 0 B

Disable object checksum ⓘ

Force provisioning ⓘ

CANCEL BACK NEXT

Create VM Storage Policy

- 1 Name and description
- 2 Policy structure
- 3 vSAN
- 4 Storage compatibility**
- 5 Review and finish

Storage compatibility

Compatible storage 399.96 GB (321.49 GB free) **Compatible ▾**

Expand datastore clusters

Name	Datacenter	Type	Free Space	Capacity	Warnings
VxRail-Virtual-SAN-Datastore-8596e7aa-99fa-4223-961d-91a98f6415de	VxRail-Datacenter	vSAN	321.49 GB	399.96 GB	

CANCEL BACK NEXT

Create VM Storage Policy

- 1 Name and description
- 2 Policy structure
- 3 vSAN
- 4 Storage compatibility
- 5 Review and finish

Review and finish

General

Name: New VM Storage Policy
 Description:
 vCenter Server: vc.demo.local

VSAN

Availability

Site disaster tolerance: None - standard cluster
 Failures to tolerate: 1 failure - RAID-1 (Mirroring)

Advanced Policy Rules

Number of disk stripes per object: 1
 IOPS limit for object: 0
 Object space reservation: Thin provisioning
 Flash read cache reservation: 5%
 Disable object checksum: No
 Force provisioning: No

CANCEL BACK FINISH

VM Storage Policies

Create VM Storage Policy | Edit Settings | Clone | Check Compliance | Reapply VM Storage Policy | Delete

Name	VC
Host-local PMem Default Storage Policy	vc.demo.local
New VM Storage Policy	vc.demo.local
VM Encryption Policy	vc.demo.local
vSAN Default Storage Policy	vc.demo.local
VVol No Requirements Policy	vc.demo.local
VXRAIL-SYSTEM-STORAGE-PROFILE	vc.demo.local

6 items

New Virtual Machine | ACTIONS ▾

Summary Monitor **Configure** Permissions Datastores Networks Updates

Settings
 VM SDRS Rules
 vApp Options
 More
 Alarm Definitions
 Scheduled Tasks
Policies
 VMware EVC
 Guest User Mappings

EDIT VM STORAGE POLICIES

Check VM Storage Policy Compliance Reapply VM Storage Policy

Name	VM Storage Policy	Compliance Status	Last Checked
VM home	vSAN Default Storage Policy	✓ Compliant	12/25/2020, 10:19:05 AM
Hard disk 1	vSAN Default Storage Policy	✓ Compliant	12/25/2020, 10:19:05 AM

Edit VM Storage Policies | New Virtual Machine

VM storage policy: vSAN Default Storage Policy

Total vSAN storage: VM Encryption Policy

Configure per disk

New VM Storage Policy

Name	VM Storage Policy	Datastore	Datastore Type
VM home	-	VxRail-Virtual-SAN-Datastore-859...	vsan
Hard disk 1	10 GB	VxRail-Virtual-SAN-Datastore-859...	vsan

CANCEL OK

EDIT VM STORAGE POLICIES

Check VM Storage Policy Compliance Reapply VM Storage Policy

Name	VM Storage Policy	Compliance Status	Last Checked
VM home	New VM Storage Policy	✓ Compliant	12/25/2020, 10:20:04 AM
Hard disk 1	New VM Storage Policy	✓ Compliant	12/25/2020, 10:20:04 AM

▼ Resource Allocation

- CPU
- Memory
- Storage

- Utilization
- Storage Overview
- Security

▼ vSAN

- Health
- Virtual Objects
- Physical Disks
- Resyncing objects
- Proactive Tests
- Capacity
- Performance
- Performance diagno..
- Support
- Data Migration Pre-c..

▼ VxRail

- Appliances
- Last Configuration D..

▼ Cloud Native Storage

- Container Volumes

Health (Last checked: 12/29/2020, 5:25:18 AM)

> ✓ vSAN Build Recommendation

> ✓ Network

> ✓ Physical disk

> ✓ Data

> ✓ Cluster

> ✓ Capacity utilization

> ✓ Hardware compatibility

> ✓ Performance service

▼ ✗ Online health (Disabled)

✗ vSAN Support Insight

- ▼ Resource Allocation
 - CPU
 - Memory
 - Storage
 - Utilization
 - Storage Overview
 - Security
- ▼ vSAN
 - Health
 - Virtual Objects**
 - Physical Disks
 - Resyncing objects
 - Proactive Tests
 - Capacity
 - Performance
 - Performance diagno..
 - Support
 - Data Migration Pre-c..
- ▼ VxRail
 - Appliances
 - Last Configuration D..
- ▼ Cloud Native Storage
 - Container Volumes

Placement and Availability status: Affected inventory objects:

Healthy 38 VMs 3
* Others 1

VIEW PLACEMENT DETAILS

<input type="checkbox"/>	Name	Placement and Availability	Storage
> <input type="checkbox"/>	VMware vCenter Server Appliance	Healthy	
> <input type="checkbox"/>	VMware vCenter Server Platform Servi...	Healthy	
▼ <input type="checkbox"/>	VxRail Manager	Healthy	
<input type="checkbox"/>	Hard disk 1	Healthy	\
<input type="checkbox"/>	Hard disk 1 - VxRail Manager.vmdk	Healthy	\
<input type="checkbox"/>	Hard disk 2	Healthy	\
<input type="checkbox"/>	Hard disk 2 - VxRail Manager_1.vmdk	Healthy	\
<input type="checkbox"/>	VM home	Healthy	\
<input type="checkbox"/>	Virtual machine memory snapshot	Healthy	\
<input type="checkbox"/>	Virtual machine swap object	Healthy	\

Summary **Monitor** Configure Permissions Hosts VMs Datastores Networks Updates

- Resource Allocation
 - CPU
 - Memory
 - Storage
- Utilization
- Storage Overview
- Security
- vSAN
 - Health
 - Virtual Objects
 - Physical Disks
 - Resyncing objects**
 - Proactive Tests
 - Capacity
 - Performance
 - Performance diagno..
 - Support
 - Data Migration Pre-c..
- VxRail
 - Appliances
 - Last Configuration D..
- Cloud Native Storage
 - Container Volumes

Resyncing objects view displays the status of the objects that are currently being resynchronized in the vSAN cluster.

Overview

Object repair timer: 60 minutes ⓘ


This section is automatically refreshed every 10 seconds. **RESYNC THROTTLING**

> Total resyncing objects	0
> Bytes left to resync	0.00 B
> Total resyncing ETA	0 seconds
> Scheduled resyncing	None

Object list

Intent: All ⓘ Status: Active ⓘ Show first: 100 ⓘ **REFRESH**

There are no objects in resync.

Name	VM Storage Policy	Host	Bytes Left to Resy
			

Summary **Monitor** Configure Permissions Hosts VMs Datastores Networks Updates

- Resource Allocation
 - CPU
 - Memory
 - Storage
- Utilization
- Storage Overview
- Security
- vSAN
 - Health
 - Virtual Objects
 - Physical Disks
 - Resyncing objects
 - Proactive Tests
 - Capacity**
 - Performance
 - Performance diagno..
 - Support
 - Data Migration Pre-c..
- VxRail
 - Appliances
 - Last Configuration D..
- Cloud Native Storage
 - Container Volumes

CAPACITY USAGE **CAPACITY HISTORY**

Capacity Overview

✓ Used 80.00 GB/399.96 GB (20%) Free space on disks 319.96 GB ⓘ

■ Actually written 80.00 GB (20%)

Usable capacity analysis

This panel helps you estimate the effective free space if deploying new workload with the selected storage policy, assuming dedup ratio is 1. ⓘ

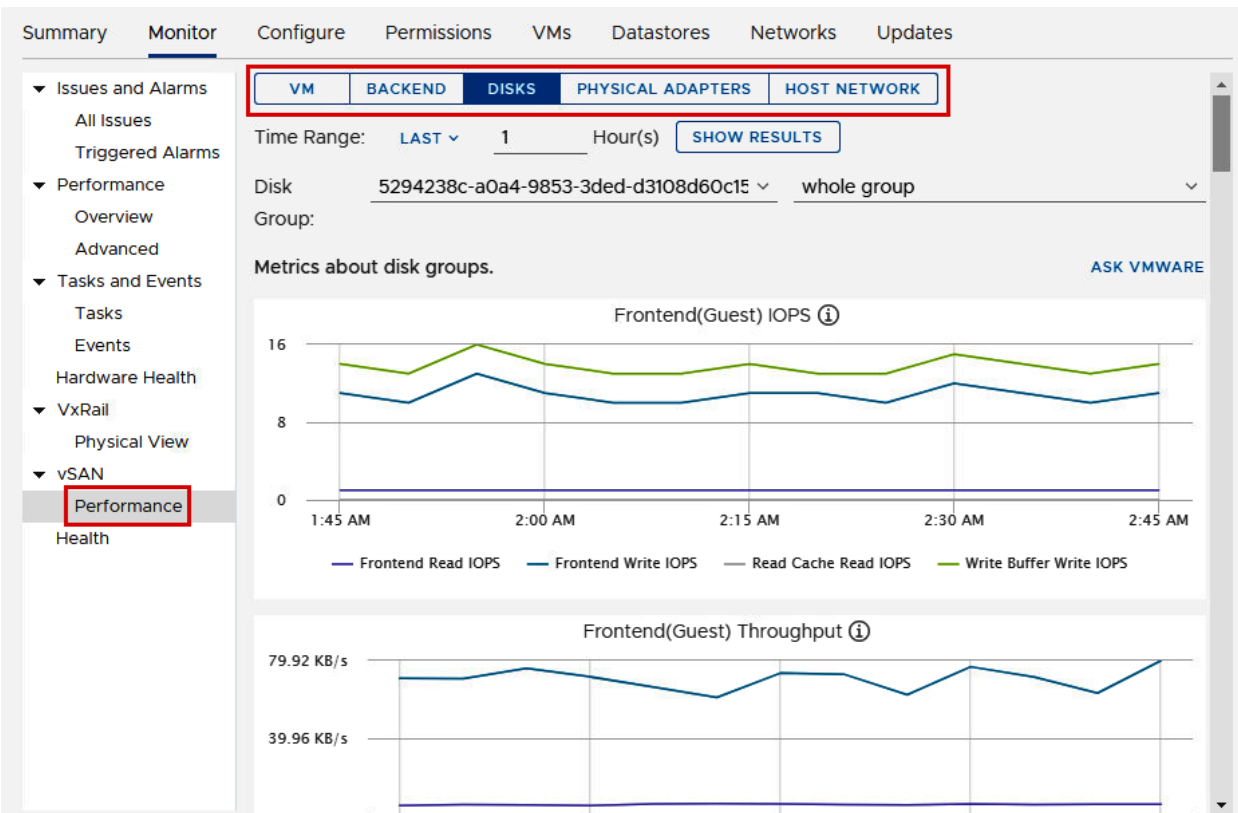
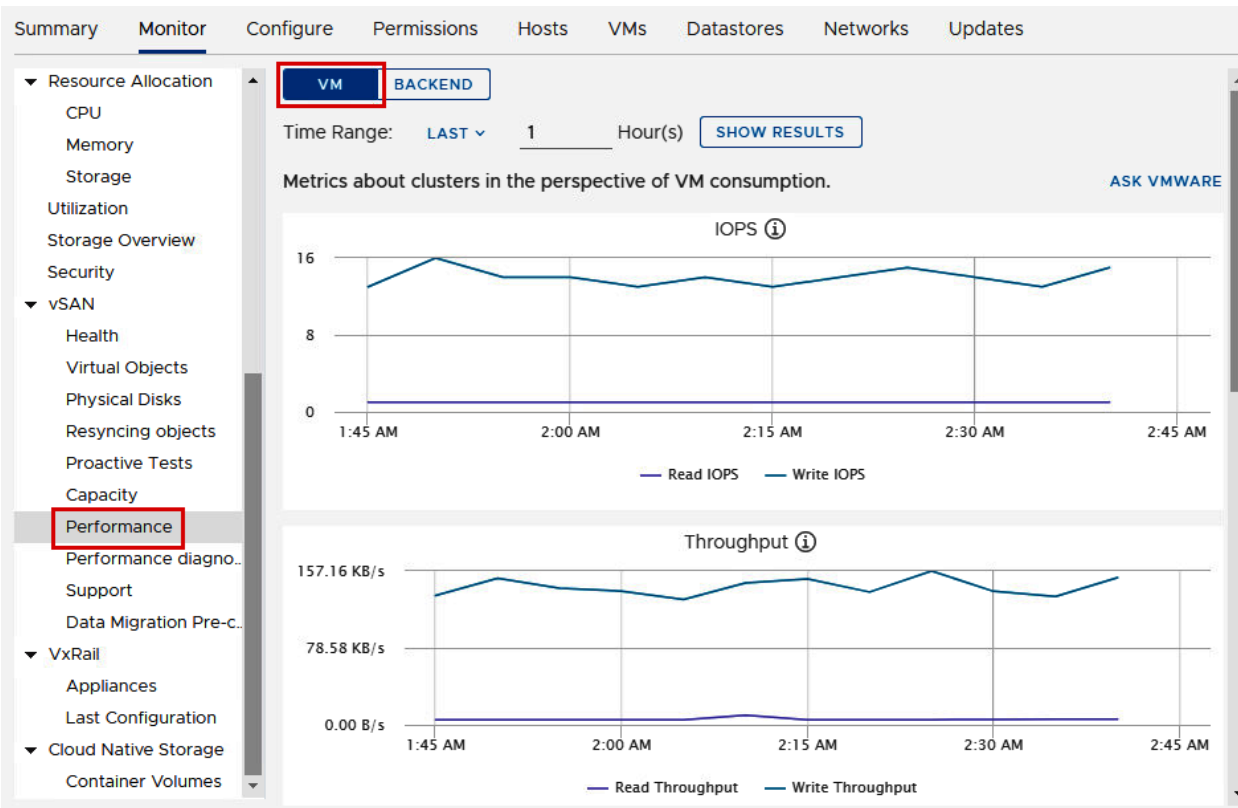
Change policy to Effective free space with the policy: 159.98 GB

vSAN Default Storage Policy

Usage breakdown before dedup and compression

Usage by categories **EXPAND ALL**

- > ■ VM 73.32 GB (91.65%)



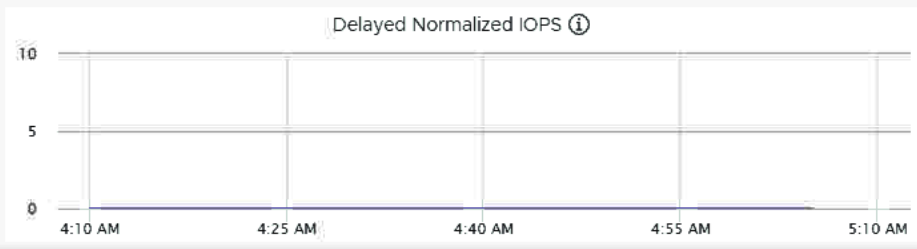
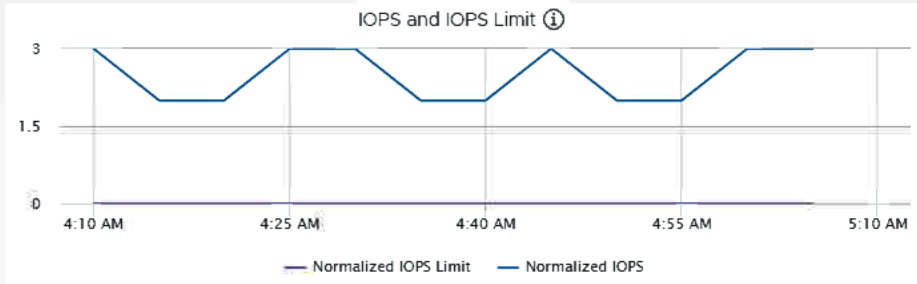
- ▼ Issues and Alarms
 - All Issues
 - Triggered Alarms
- ▼ Performance
 - Overview
 - Advanced
- ▼ Tasks and Events
 - Tasks
 - Events
 - Utilization
- ▼ vSAN
 - Physical disk placem...
 - Performance**

VM **VIRTUAL DISKS**

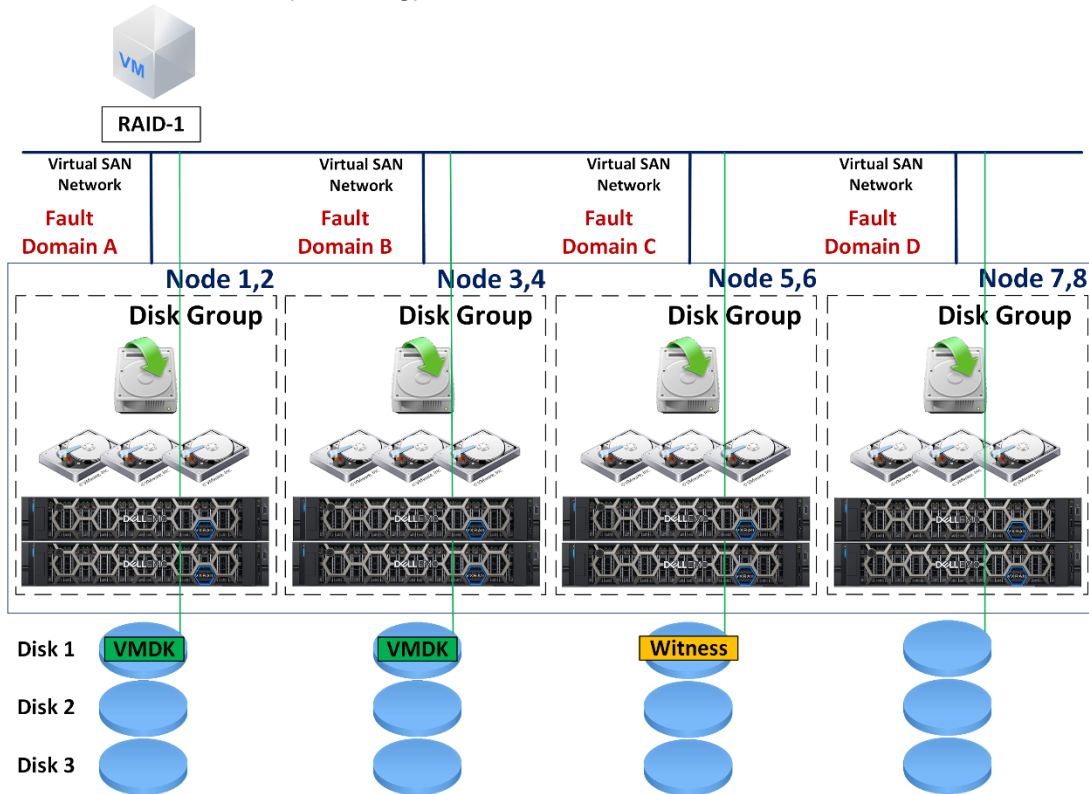
Time Range: LAST ▾ 1 Hour(s) SHOW RESULTS

Virtual Disk: Hard disk 1 ▾

Metrics for virtual disks. [ASK VMWARE](#)



FTT = 1, FTM = RAID-1 (Mirroring)



Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

VM/Host Rules
VM Overrides
Host Options
Host Profile
I/O Filters

▼ More
Alarm Definitions
Scheduled Tasks


▼ vSAN
Services
Disk Management
Fault Domains

▼ VxRail
System
Updates
Certificate
Market
Add VxRail Hosts
Hosts
Support
Networking
Health Monitoring
Troubleshooting

Fault Domains

Fault domain failures to tolerate	1
Configuration type	Single site CONFIGURE STRETCHED CLUSTER







To manage the fault domains, use the Actions menu or drag and drop the host.



Click the plus icon or drag and drop here to create new fault domain.

Standalone Hosts (3) ⓘ

MOVE HOSTS ▼




 esx01.demo.local Used and Reserved capacity  39%	 esx02.demo.local Used and Reserved capacity  9%
 esx03.demo.local Used and Reserved capacity  21%	

New Fault Domain



Fault domain name:

Fault Domain A

<input type="checkbox"/>	Host	Current fault domain
<input checked="" type="checkbox"/>	 esx01.demo.local	
<input type="checkbox"/>	 esx02.demo.local	
<input type="checkbox"/>	 esx03.demo.local	
<input checked="" type="checkbox"/> 1	3 hosts	

CANCEL

CREATE


Fault Domains



Fault domain failures to tolerate 1

Configuration type Single site [CONFIGURE STRETCHED CLUSTER](#)


You can drag and drop hosts below to create a new fault domain


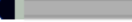
Fault Domain A

Used and Reserved capacity  39%

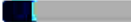
 esx01.demo.l...  39%


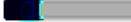
Fault Domain B


Used and Reserved capacity  9%

 esx02.demo.l...  9%


Fault Domain C

Used and Reserved capacity  21%

 esx03.demo.l...  21%



Click the plus icon or drag and drop here to create new fault domain.

Standalone Hosts (0) 

vm vSphere Client

Actions - esx01.demo.local

- New Virtual Machine...
- Deploy OVF Template...
- New Resource Pool...
- New vApp...
- Maintenance Mode**
 - Enter Maintenance Mode**
 - Exit Maintenance Mode
- Connection
- Power
- Certificates
- Storage
- Add Networking...
- Host Profiles
- Export System Logs...
- Reconfigure for vSphere...

demo.local | ACTIONS

Monitor Configure Permissions VMs Datastores

ESXi, 6.7.0, 14320388
Virtual Platform
Xeon(R) Gold 6230 CPU @ 2.10GHz

NICs: 4
Virtual Machines: 1
State: Connected
Uptime: 1 days

Enter Maintenance Mode | esx01.demo.local



This host is in a vSAN cluster. Once the host is in maintenance mode, it cannot access the vSAN datastore and the state of any virtual machines on the datastore. No virtual machines can be provisioned on this host while in maintenance mode. You must either power off or migrate the virtual machines from the host manually.

Move powered-off and suspended virtual machines to other hosts in the cluster

vSAN data migration Ensure accessibility

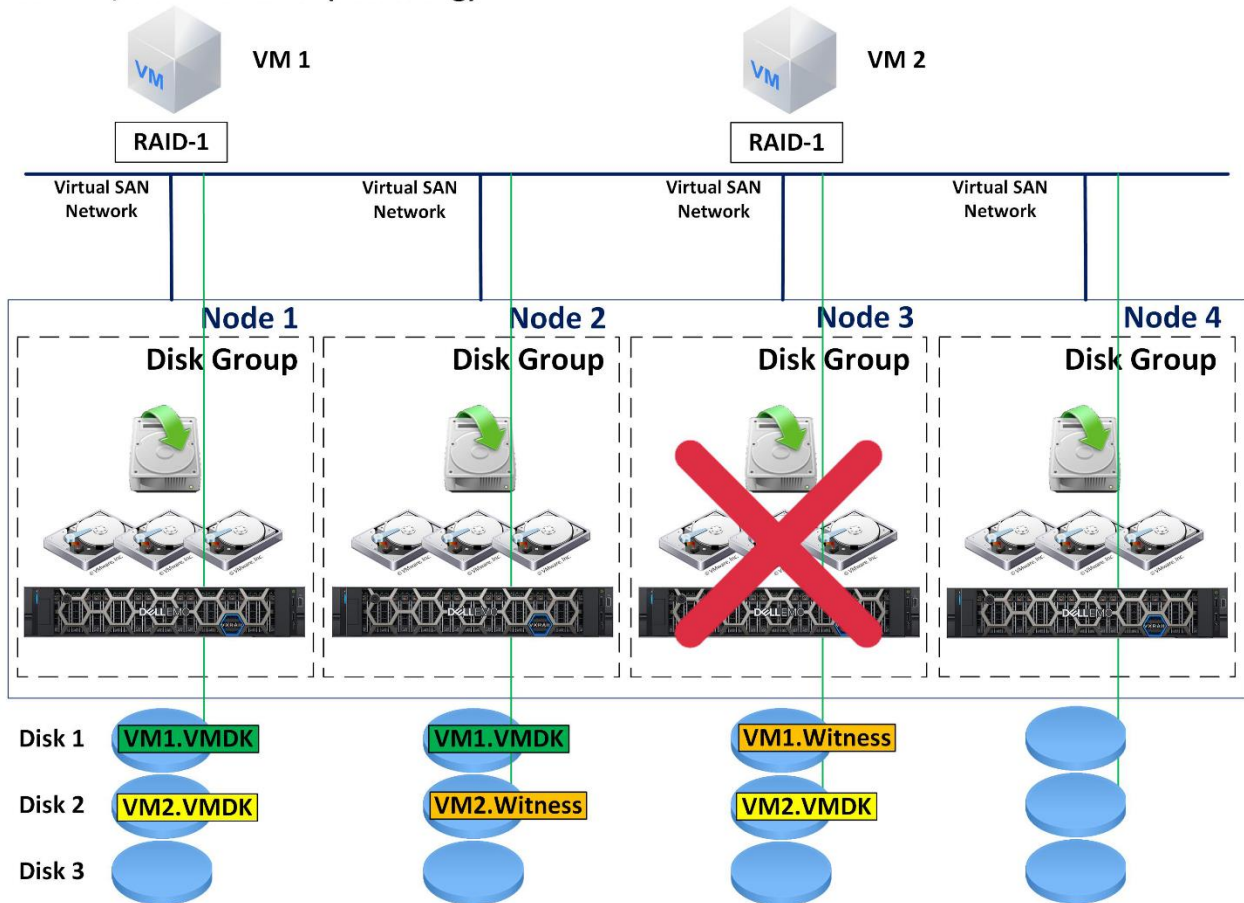
VMware recommends to run a data migration pre-check before entering maintenance mode. Pre-check determines if the operation will be successful, and reports the state of the cluster once the host enters maintenance mode.

Put the selected hosts in maintenance mode?

[GO TO PRE-CHECK](#)

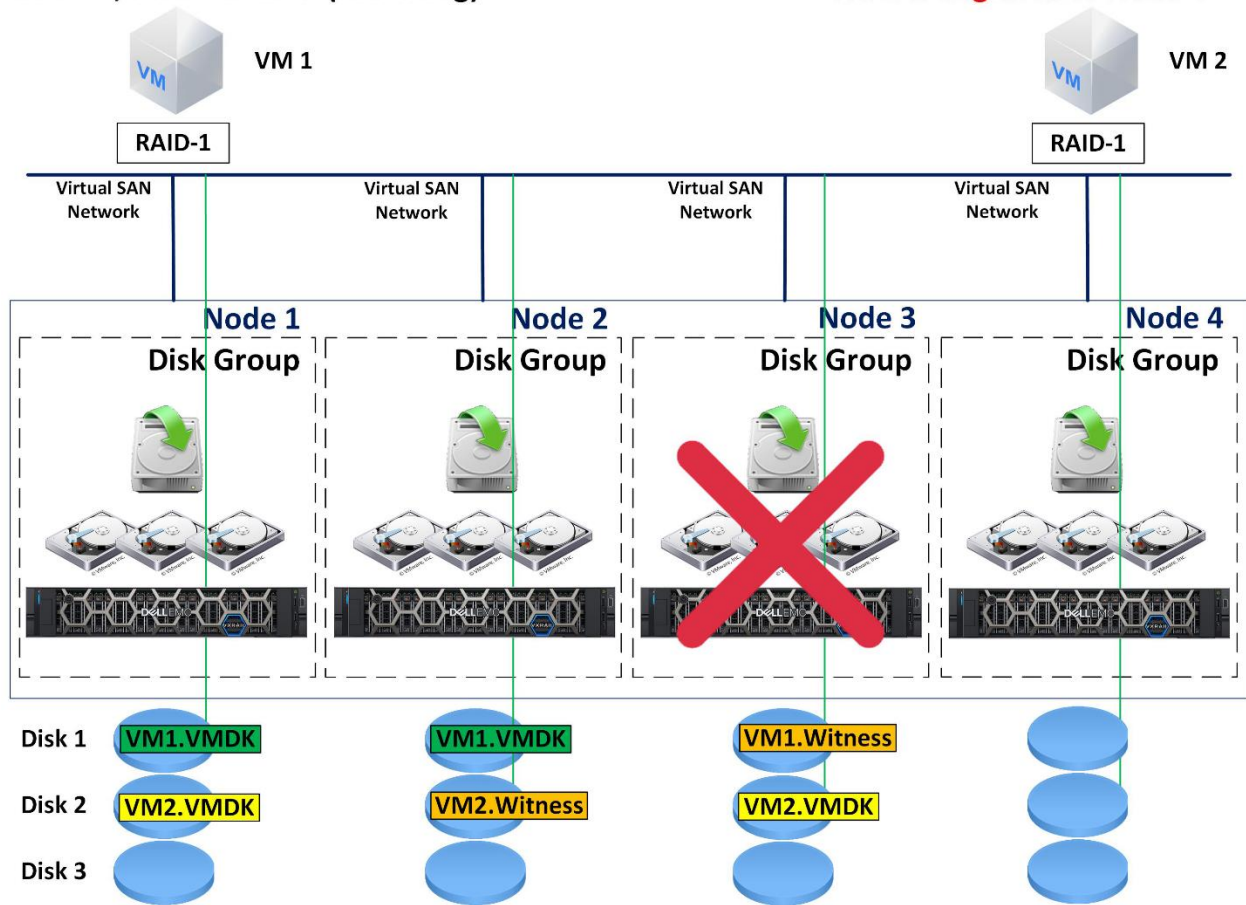
[CANCEL](#) [OK](#)

FTT = 1, FTM = RAID-1 (Mirroring)



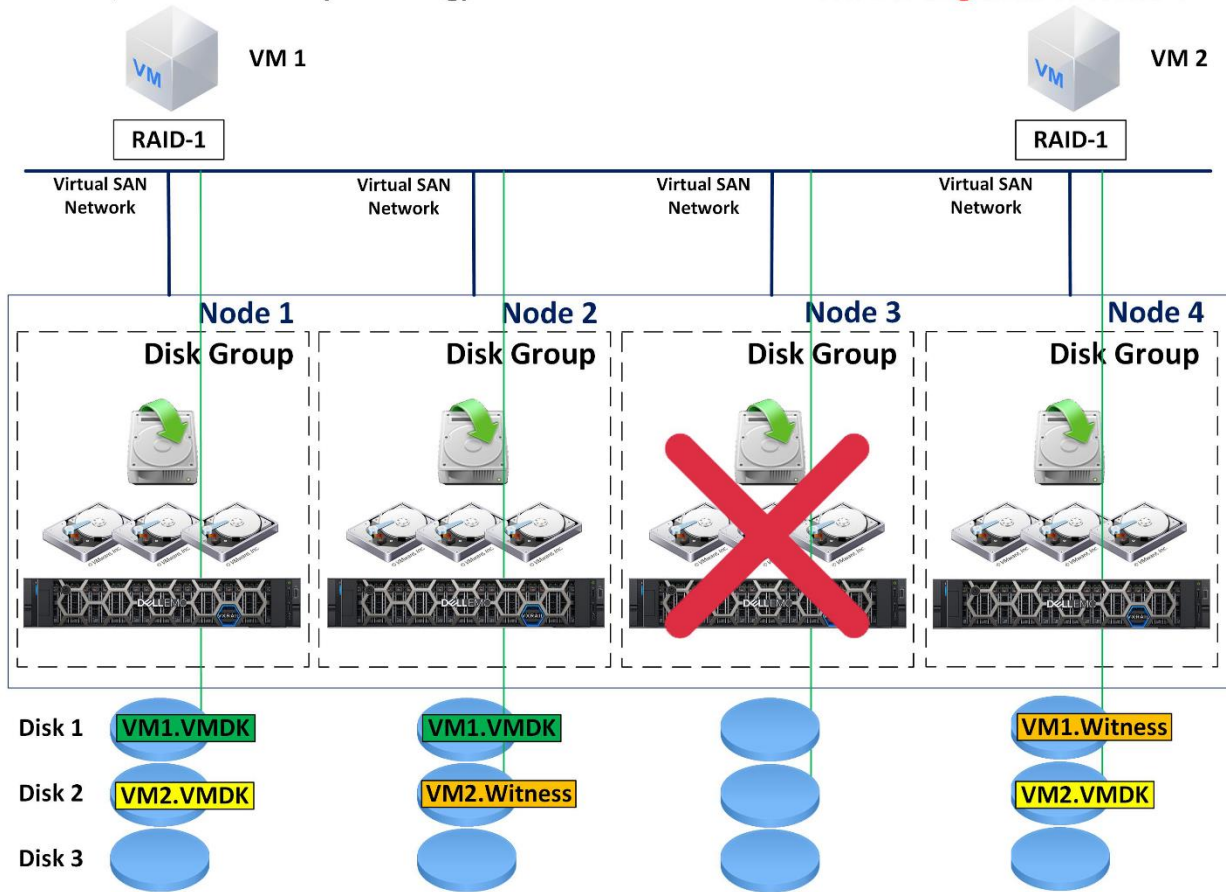
FTT = 1, FTM = RAID-1 (Mirroring)

VM 2 is migrated to Node 4



FTT = 1, FTM = RAID-1 (Mirroring)

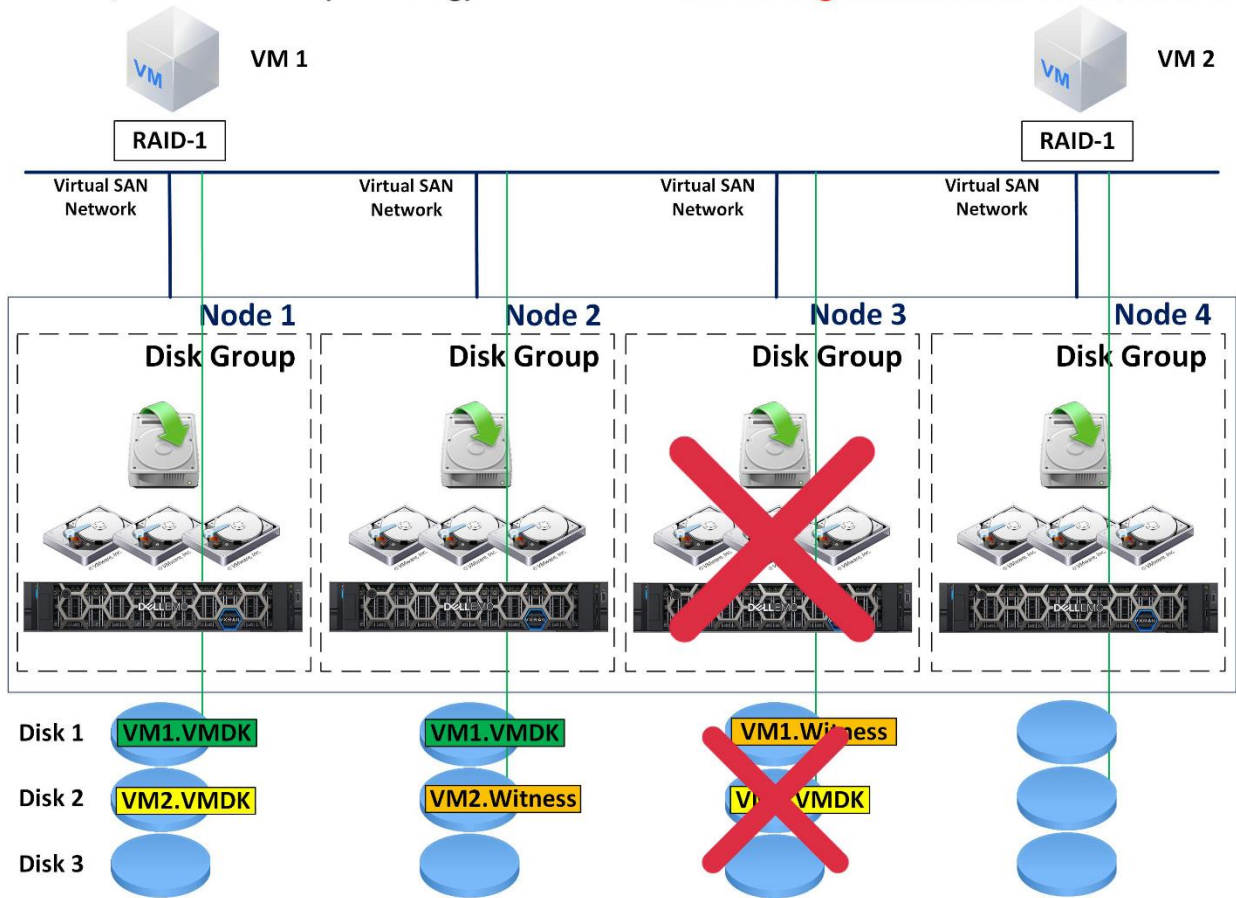
VM 2 is migrated to Node 4



All vSAN components migrated to Node 4 from Node 3

FTT = 1, FTM = RAID-1 (Mirroring)

VM 2 is migrated to Node 4 from Node 3



All vSAN components keep on Node 3

Select a host and check the effect on the cluster if this host enters maintenance mode.

Pre-check data migration for ESX01.DEMO.LOCAL

vSAN data migration

Ensure accessibility



PRE-CHECK

Latest test result

ENTER MAINTENANCE MODE

01/03/2021, 3:21:21 AM

The host can enter maintenance mode.

Object Compliance and Accessibility

Cluster Capacity

Predicted Health

The following objects will be directly affected by the operation.

34 objects will become non-compliant.

A rebuild operation for any non-compliant objects will be triggered in 60 minutes, unless the host is taken out of maintenance mode. You can change this timer for the cluster in the vSAN advanced settings.

Name	Result	Storage Policy
> VMware vCenter Server Appliance		
> VMware vCenter Server Platform Servi...		
∨ VxRail Manager		
Hard disk 1	Non-compliant	vSAN Default Storage
Hard disk 2	Non-compliant	vSAN Default Storage

New Virtual Machine

1 Select a creation type

2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Select a creation type

How would you like to create a virtual machine?

- Create a new virtual machine
- Deploy from template
- Clone an existing virtual machine
- Clone virtual machine to template
- Clone template to template
- Convert template to virtual machine

This option guides you through creating a new virtual machine. You will be able to customize processors, memory, network connections, and storage. You will need to install a guest operating system after creation.

CANCEL

BACK

NEXT

New Virtual Machine

✓ 1 Select a creation type

2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Select a name and folder

Specify a unique name and target location

Virtual machine name:

Select a location for the virtual machine.

- vc.demo.local
 - VxRail-Datacenter

CANCEL

BACK

NEXT

New Virtual Machine

✓ 1 Select a creation type

✓ 2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Select a compute resource

Select the destination compute resource for this operation

- VxRail-Datacenter
 - VxRail-Virtual-SAN-Cluster-8596e7aa-99fa-4223-961d-91a98f6415de
 - esx01.demo.local
 - esx02.demo.local
 - esx03.demo.local

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT

New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- 4 Select storage**
- 5 Select compatibility
- 6 Select a guest OS
- 7 Customize hardware
- 8 Ready to complete

Select storage

Select the storage for the configuration and disk files

Encrypt this virtual machine (Requires Key Management Server)

VM Storage Policy:

Datastore Default

Name	Capacity	Provisioned	Free	Type
V0525020000000-01-0...	22.5 GB	7.88 GB	14.63 GB	VM
VxRail-Virtual-SAN-Datas...	399.96 GB	431.22 GB	314.88 GB	Vir

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT

New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- 5 Select compatibility**
- 6 Select a guest OS
- 7 Customize hardware
- 8 Ready to complete

Select compatibility

Select compatibility for this virtual machine depending on the hosts in your environment

The host or cluster supports more than one VMware virtual machine version. Select a compatibility for the virtual machine.

Compatible with: ESXi 6.7 and later

This virtual machine uses hardware version 14, which provides the best performance and latest features available in ESXi 6.7.

New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- ✓ 5 Select compatibility
- 6 Select a guest OS**
- 7 Customize hardware
- 8 Ready to complete

Select a guest OS

Choose the guest OS that will be installed on the virtual machine

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Guest OS Family:

Guest OS Version:

Enable Windows Virtualization Based Security ⓘ

New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- ✓ 5 Select compatibility
- ✓ 6 Select a guest OS
- 7 Customize hardware**
- 8 Ready to complete

Customize hardware

Configure the virtual machine hardware

Virtual Hardware VM Options

> CPU	2	
> Memory	4	GB
> New Hard disk *	40	GB
> New SCSI controller *	LSI Logic SAS	
> New Network *	Virtual SAN-8596	<input checked="" type="checkbox"/> Connect...
> New CD/DVD Drive *	Client Device	<input type="checkbox"/> Connect...
> New USB Controller	USB 3.0	
> Video card *	Specify custom settings	
VMCI device	Device on the virtual machine PCI bus that provides support for the virtual machine	

Compatibility: ESXi 6.7 and later (VM version 14)

CANCEL

BACK

NEXT

New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- ✓ 5 Select compatibility
- ✓ 6 Select a guest OS
- ✓ 7 Customize hardware
- 8 Ready to complete**

Ready to complete
Click Finish to start creation.

Provisioning type	Create a new virtual machine
Virtual machine name	New Virtual Machine
Folder	VxRail-Datacenter
Host	esx01.demo.local
Datastore	VxRail-Virtual-SAN-Datastore-8596e7aa-99fa-4223-961d-91a98f6415de
Guest OS name	Microsoft Windows Server 2016 or later (64-bit)
Virtualization Based Security	Disabled
CPUs	2
Memory	4 GB
NICs	1
NIC 1 network	Virtual SAN-8596e7aa-99fa-4223-961d-91a98f6415de (VMware HCIA Distributed Switch)
NIC 1 type	E1000E

CANCEL

BACK

FINISH

Chapter 6: VxRail Upgrade.

VxRail Appliance

- > Dell EMC Technical and Security Advisories
- > Networking Procedures
- ✓ VxRail Procedures
 - > Connectivity
 - > Install
 - ✓ Upgrade
 - 📄 Firmware Upgrade Procedures
 - 📄 Hardware Upgrade/Expansion Procedures**
 - 📄 Software Upgrade Procedures
 - > Replacement Procedures
 - > Miscellaneous
- > Reference Material
- > VMware Validated Design for VxRail (VVD) Content
- > VMware Cloud on Dell EMC VxRail (Dimension)
- > VMware Cloud Foundation for VxRail (VCF) Procedures



Select a Procedure

- Compute Node Expansion
- Capacity Drive (HDD/SSD) Expansion
- Disk Group Add
- Solid State Cache Drive (SSD) Upgrade
- NVMe APOS kit Installation
- NVMe Disk Addition
- System Memory Upgrade
- NIC Upgrade
- GPU Upgrade

CANCEL

CLEAR

NEXT

VxRail Appliance

1 Step 1

2 Step 2

Hardware Upgrade/Expansion Procedures ×

Select the VxRail Appliance

- VxRail E460/E460F
- VxRail P470/P470F
- VxRail V470/V470F
- VxRail S470
- VxRail D560/D560F
- VxRail E560/E560F
- VxRail G560/G560F
- VxRail P570/P570F
- VxRail V570/V570F
- VxRail S570
- VxRail E665/E665F/E665N
- VxRail P675F/N

What VxRail Software Version is the Cluster running?

- v7.0.101

CANCEL

CLEAR

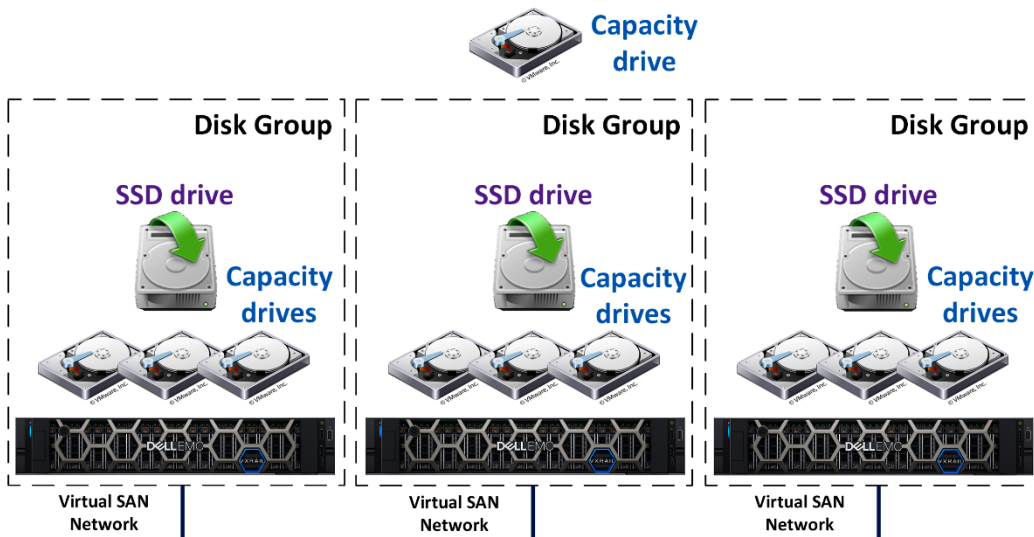
BACK

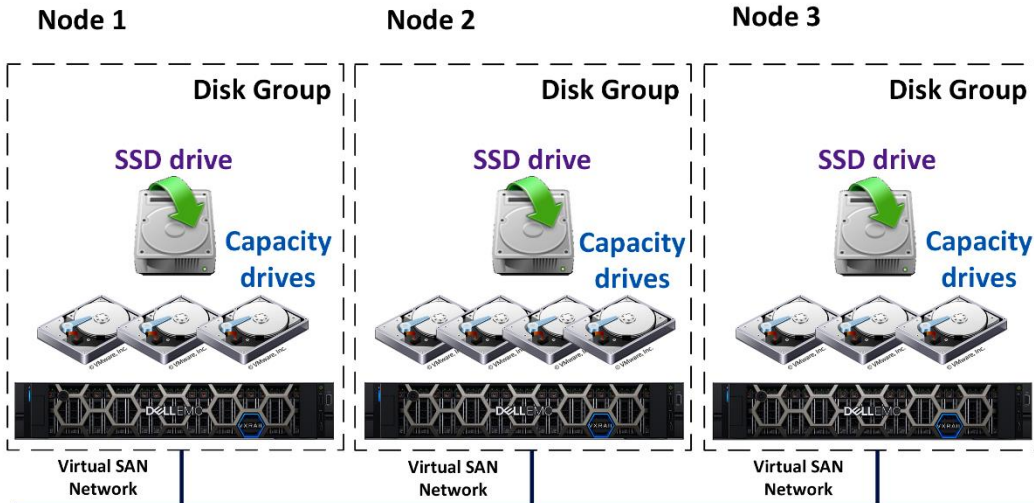
NEXT

Node 1

Node 2

Node 3





Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

- Services
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management**
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

All 8 disks on version 10.0.

CLAIM UNUSED DISKS CREATE DISK GROUP GO TO PRE-CHECK Show: By Disk Groups

Disk Group	Disks i...	State	vSAN ...	Type
esx01.demo.local	2 of 2	Connected	Healthy	
Disk group (5294238c-a0a4-9853-3ded-d3108...)	2	Mounted	Healthy	
esx02.demo.local	3 of 4	Connected	Healthy	
Disk group (523d46ae-912f-835f-00f1-35cf344...)	3	Mounted	Healthy	

Show: In use (3)

Name	Drive ...	Disk Ti...	Capaci...	vSAN
Local VMware Disk (mpx.vmhba1:CO:TO:LO)	HDD	Capacity	80.00 GB	
VMware Serial Attached SCSI Disk (mpx.vmhba...)	Flash	Cache	20.00 GB	

3 items

Services
 Configuration
 More
 Alarm Definitions
 Scheduled Tasks
 vSAN
 Services
 Disk Management
 Fault Domains
 VxRail
 System
 Updates
 Certificate
 Market

✓ All 8 disks on version 10.0.

CLAIM UNUSED DISKS **ADD DISKS** PRE-CHECK DATA MIGRATION Show By Disk Groups

Disk Group	Disks i...	State	vSAN ...	Type
esx01.demo.local	2 of 2	Connected	Healthy	
Disk group (5294238c-a0a4-9853-3ded-d3108...	2	Mounted	Healthy	Hyl
esx02.demo.local	3 of 4	Connected	Healthy	
Disk group (523d46ae-912f-835f-00f1-35cf3...	3	Mounted	Healthy	Hyl

Add Capacity Disks | 523d46ae-912f-835f-00f1-35cf3445a1c2 ✕

Select one or many disks to serve as capacity disks.

<input checked="" type="checkbox"/>	Name	Drive Type	Capacity	Transport Type	Adapter
<input checked="" type="checkbox"/>	Local VMware Disk (mpx.vmhba1:C0:T2:L0)	HDD	80.00 GB	SAS	vmhba1

1 1 item

- Services
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management**
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

✔ All 9 disks on version 10.0.

CLAIM UNUSED DISKS ADD DISKS PRE-CHECK DATA MIGRATION Show: By Disk Groups

Disk Group	Disks i...	State	vSAN ...	Type
esx01.demo.local	2 of 2	Connected	Healthy	
Disk group (5294238c-a0a4-9853-3ded-d3108...	2	Mounted	Healthy	Hyl
esx02.demo.local	4 of 4	Connected	Healthy	
Disk group (523d46ae-912f-835f-00f1-35cf344...	4	Mounted	Healthy	Hyl

ADD DISKS

<input type="checkbox"/>	Name	Drive ...	Disk Ti...	Capaci...	vSAN
<input type="checkbox"/>	VMware Serial Attached SCSI Disk (mpx.vmhba...	Flash	Cache	20.00 GB	Hi
<input type="checkbox"/>	Local VMware Disk (mpx.vmhba1:C0:T2:L0)	HDD	Capacity	80.00 GB	Hi
<input type="checkbox"/>	Local VMware Disk (mpx.vmhba1:C0:T1:L0)	HDD	Capacity	80.00 GB	Hi

4 items



VxRail Appliance

- ∨ Dell EMC Technical and Security Advisories
 - > Dell EMC Technical Advisories (DTAs)
 - > Dell EMC Security Advisories (DSAs)
- > Networking Procedures
- ∨ VxRail Procedures
 - > Connectivity
 - > Install
 - ∨ Upgrade
 - ↻ Firmware Upgrade Procedures
 - ↻ Hardware Upgrade/Expansion Procedures
 - ↻ Software Upgrade Procedures
 - > Replacement Procedures
 - > Miscellaneous
- > Reference Material
- > VMware Validated Design for VxRail (VVD) Content
- > VMware Cloud on Dell EMC VxRail (Dimension)
- > VMware Cloud Foundation for VxRail (VCF) Procedures

VxRail Appliance

1 Step 1

Software Upgrade Procedures



- VxRail 60
- VxRail 120/120F
- VxRail 160/160F
- VxRail 200/200F
- VxRail 240F
- VxRail 280F
- VxRail G410
- VxRail E460/E460F
- VxRail P470/P470F
- VxRail V470/V470F
- VxRail S470
- VxRail D560/D560F
- VxRail E560/E560F
- VxRail E560N
- VxRail G560/G560F
- VxRail P570/P570F
- VxRail P580N
- VxRail V570/V570F
- VxRail S570

CANCEL

CLEAR

NEXT

VxRail Appliance

1 Step 1

2 Step 2

Software Upgrade Procedures



Select the Installed VxRail Software Version

- v7.0.100
- v7.0.010
- v7.0.000
- v4.7.525
- v4.7.521
- v4.7.520
- v4.7.515
- v4.7.511
- v4.7.510
- v4.7.411
- v4.7.410
- v4.7.400
- v4.7.301
- v4.7.300
- v4.7.212

CANCEL

CLEAR

BACK

NEXT

VxRail Appliance Software Upgrade Procedures

- 1 Step 1
- 2 Step 2
- 3 Step 3

Select your current VxRail Configuration

- VxRail Cluster - non-vSAN Stretched Cluster
- VxRail vSAN Stretched Cluster

Is VMware Horizon VDI Installed?

- Yes
- No

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

The screenshot shows the Dell website's product page for the VxRail Appliance Series. At the top, there is a navigation bar with the Dell logo and 'Dell Technologies' text. A search bar is present with the placeholder text 'What can we help you find?'. To the right of the search bar are links for 'Sign In' and 'Cart'. Below the search bar is a main navigation menu with categories: 'Products', 'Solutions', 'Services', 'Support', and 'Community'. Under 'Support', there are sub-links: 'Product Support', 'Knowledge Base', 'Warranty & Contracts', 'Service Requests & Dispatch Status', 'Order Support', and 'Contact Support'. The breadcrumb trail shows 'Home > Support > Product Support'. The main content area features the product name 'VxRail Appliance Series' in a large font, with a red box around it. Below the name is a 'Select a Model' dropdown menu with 'Please Select' as the current selection, also with a red box around it. A small image of the VxRail appliance is shown to the left. Below the dropdown are two links: '< Change product' and 'Enter Product ID to view details'. At the bottom, there is a horizontal navigation bar with four tabs: 'OVERVIEW', 'DRIVERS & DOWNLOADS' (highlighted with a red box), 'DOCUMENTATION', and 'ADVISORIES'.

Find a download for your VxRail Appliance Series

Keyword

Category

Only show downloads I have access to. ⓘ Show recommended downloads only.

	NAME	CATEGORY	PUBLISH DATE	ACTION
<input type="checkbox"/>	VxRail 4.7.526 Composite Upgrade Package for 4.7.x	Full Release	17 Dec 2020	Download
<input type="checkbox"/>	VxRail 4.5.452 Composite Upgrade Package for 4.0.x	Full Release	03 Dec 2020	Download
<input type="checkbox"/>	VxRail 4.5.452 Composite Upgrade Package for 4.5.x	Full Release	03 Dec 2020	Download
<input type="checkbox"/>	VxRail 4.7.525 Composite Upgrade Package for 4.0.x	Full Release	03 Dec 2020	Download
<input type="checkbox"/>	VxRail 4.7.525 Composite Upgrade Package for 4.5.x	Full Release	03 Dec 2020	Download
<input type="checkbox"/>	VxRail 4.7.525 Composite Upgrade Package for 4.7.x	Full Release	03 Dec 2020	Download
<input type="checkbox"/>	VxRail 7.0.101 Composite Upgrade Package for 4.5.x	Full Release	03 Dec 2020	Download
<input type="checkbox"/>	VxRail 7.0.101 Composite Upgrade Package for 4.7.x	Full Release	03 Dec 2020	Download

MANUALS AND DOCUMENTS

- [VxRail G410 Series Support Matrix](#)
Last Modified: 17 Dec 2020
- [VxRail 4.7.x Support Matrix](#)
Last Modified: 17 Dec 2020
- [VxRail Appliance Software 4.7.x Release Notes](#)
Last Modified: 17 Dec 2020
- [VxRail 7.0.x Release Notes](#)
Last Modified: 17 Dec 2020
- [VMware Cloud Foundation 3.x on VxRail Release Notes](#)
Last Modified: 10 Dec 2020

vm vSphere Client Menu Search in all environments

VxRail-Virtual-SAN-Cluster ACTIONS

Summary Monitor Configure Permissions Hosts VMs

Total Processors: 84
Total vMotion Migrations: 0

Related Objects

Datcenter	VxRail-Datacenter
-----------	-------------------

vm vSphere Client Menu Search in all environments

VxRail-Virtual-SAN-Cluster

Summary Monitor Configure Permi

Total Processors: 84
Total vMotion Migrations: 0

Tags

Assigned Tag	Category
--------------	----------

Take Snapshot

VxRail Manager



Name

VM Snapshot 9/20/2020, 11:42:59 PM

Description

Snapshot the virtual machine's memory

Quiesce quest file system (Needs VMware Tools installed)

CANCEL

OK

VxRail-Virtual-SAN-Cluster

ACTIONS

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

- Services
- Configuration
- More
- vSAN
- VxRail
 - System
 - Updates**
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts
 - Support
 - Networking
 - Health Monitoring
 - Troubleshooting

SYSTEM INTERNET UPDATES LOCAL UPDATES

Current VxRail System Version	4.7.410-26262335
Installed On	Sep 20, 2020, 11:20:43 PM

Installed Components and Versions

- Dell PTAgent 1.9.4-41
- VMware ESXi 6.7.0-15160138
- VxRail Manager 4.7.410-15257101
- VMware vCenter Server Appliance 6.7.0-15129973
- VxRail Manager VIB 4.7.410-15257101

VxRail-Virtual-SAN-Cluster | ACTIONS ▾

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

- ▶ Services
- ▶ Configuration
- ▶ More
- ▶ vSAN
- ▼ VxRail
 - System
 - Updates**
 - Certificate
 - Market
 - Add VxRail Hosts

SYSTEM INTERNET UPDATES **LOCAL UPDATES**

VxRail Local Update

Select a local VxRail update package to upload to your system in order to apply a local update.


BROWSE...

SYSTEM INTERNET UPDATES **LOCAL UPDATES** ⓘ

VxRail Local Update

Uploading selected update package: VXRAIL_COMPOSITE-7.0.010-26590399_for_4.7.x.zip (9.07 GB)

⚠ Wait for the upload to complete before navigating away from this view, otherwise the upload will not finish properly.

↑  100% **CANCEL UPDATE**

9.07 GB / 9.07 GB

VxRail Update In Progress: Version 7.0.010-26590399

VxRail is Ready to Update Your Cluster

Estimated Minimum Update Time: 5.1 hours.
Note: This estimate does not include the time to resynchronize data on the cluster. Refer to KB535956 for more details.

- ⚠ This update requires host reboot.
- ⚠ The vCenter Server Appliance will be rebooted to update. You will be interrupted and need to login again to continue this update after all services are restarted.
- ⚠ Before you begin this upgrade, it is highly recommended that you create a snapshot of core system VMs (VxRail Manager, vCenter Server Appliance, Platform Services Controller, and if applicable, Log Insight and SRS) in case of upgrade failure.
- ⚠ Refer to KB523995 to make sure there is enough healthy nodes in the cluster. Otherwise, during upgrade, the system may run in degrade state in which there is risk of data loss or unavailability.

CONTINUE UPDATE
CANCEL UPDATE

Components changed by this update:

- VxRail Manager 7.0.010-26590399 (All Platforms) **Reboot Required**
- VMware vCenter Server Appliance 7.0.0-16386335 (All Platforms) **Reboot Required**
- Dell PTAgent for vSphere 7 2.1.0-70 (Dell)
- VxRail Platform Service 7.0.010-16488358 (All Platforms)
- DELL iDRAC for 14G 4.22.00.201 (Dell) **Reboot Required**
- NIC Firmware for bcm5741X 21.60.22.11 (Dell) **Reboot Required**
- BIOS for 14G 2.7.7 (Dell) **Reboot Required**
- DELL ISM 3.5.0.ESXi6-1862 (Dell)
- Dell ISM for vSphere 7 3.5.1.1952-DEL 700.0.0.14828939 (Dell)
- ESXi 7.0.0-16324942 (All Platforms) **Reboot Required**
- VxRail VIB 7.0.010-16506064 (All Platforms)
- NIC Driver for Broadcom bnxtnet 216.0.72.0-10EM.700.1.0.15525992 (Dell)
- NIC Driver for Broadcom bnxtroce 216.0.65.0-10EM.700.1.0.15525992 (Dell)
- Dell ISM for vSphere 7 3.5.1.1952-DEL 700.0.0.14828939 (Dell)
- Dell PTAgent for vSphere 7 2.1.0-70 (Dell)

Update VxRail

- 1 Schedule
- 2 Specification
- 3 Summary

Schedule When to Apply This Update

Select to update your VxRail system now or schedule update for later.

- Update Now
- Schedule Update

MM/DD/YYYY  HH : MM

ANCEL NEXT

Update VxRail

- 1 Schedule
- 2 Specification
- 3 Summary

Specification

Enter necessary information to initiate the upgrade process.

The VMware software included in this VxRail software upgrade requires 7.0 upgrade licenses. Please visit MyVMware.com to obtain your VMware upgrade licenses.

Required Information to Upgrade VxRail System

VxRail Manager root account username *

VxRail Manager root account password *

VxRail Manager service account password *

Required Information to Upgrade vCenter

vCenter administrator account username *

CANCEL


BACK

NEXT


Update VxRail

- 1 Schedule
- 2 Specification**
- 3 Summary


Specification

vCenter administrator account password * 

VCSA upgrade root account username *

VCSA upgrade root account password * 

PSC upgrade root account username *

PSC upgrade root account password * 

Temporary IP settings *

Netmask

Gateway

CANCEL

Update VxRail

- 1 Schedule
- 2 Specification
- 3 Summary**

Summary

VxRail has all the information to start the update.
To initiate the update, click Finish.

Target Version 7.0.010-26590399

Minimum Estimated Time 5.1 hours


CANCEL

Configure Permissions Hosts VMs Datastores Networks Updates

SYSTEM INTERNET UPDATES LOCAL UPDATES

VxRail Update In Progress: Version 7.0.010-26590399

The upgrade process may take significant time to complete, you can come back later to check the results.



32%

NIC Driver for i350 upgrade is in progress on ESXi host: 34v-app02-esx01.row34.local. [View Details](#)

Estimated remaining time: 235 minutes

VxRail-Virtual-SAN-Cluster | ACTIONS

Summary Monitor Configure Permissions Hosts VMs Datastores Networks Updates






Services Configuration Trust Authority Alarm Definitions Scheduled Tasks VxRail System Updates Certificate Market Add VxRail Hosts Hosts Support Networking Health Monitoring Troubleshooting vSAN

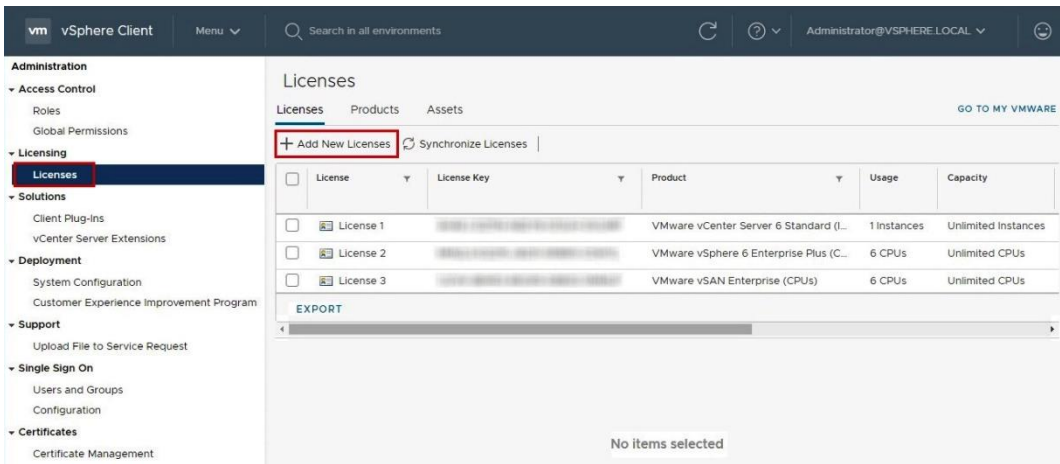
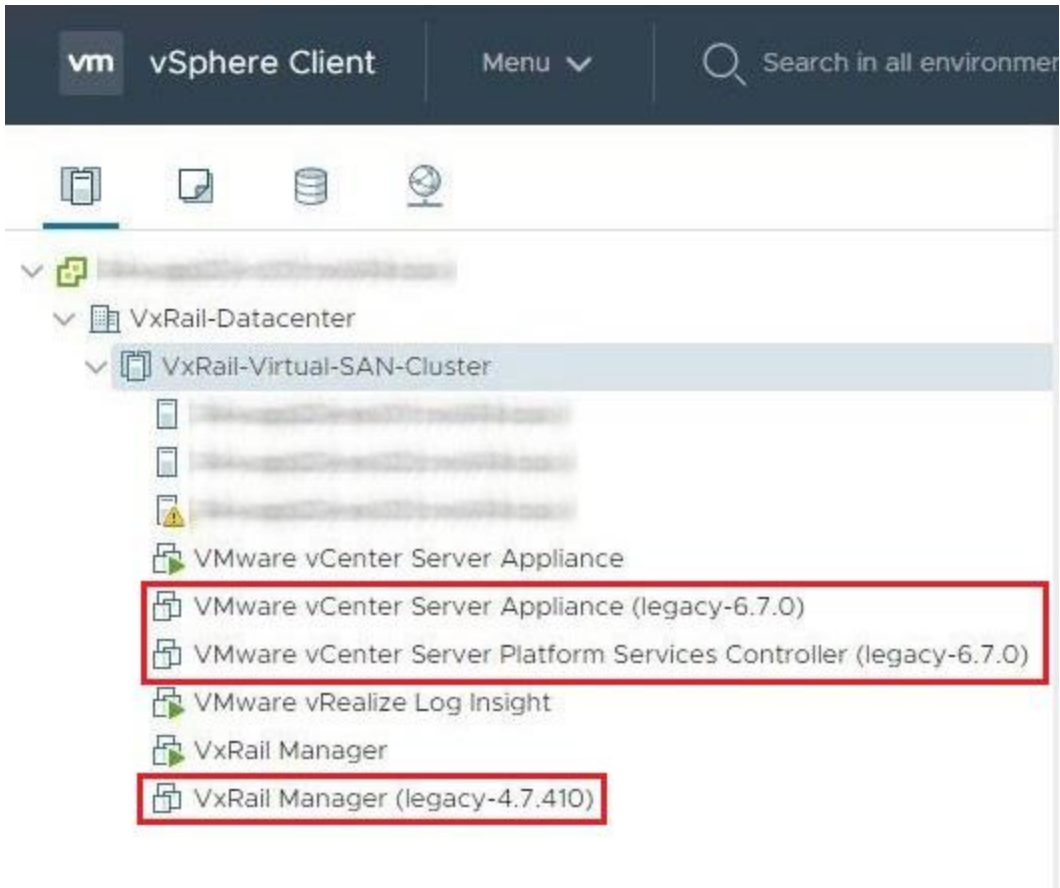
SYSTEM INTERNET UPDATES LOCAL UPDATES

⚠ Please visit MyVMware.com to obtain 7.0 upgrade licenses for the VMware software included in this VxRail software upgrade. This VxRail cluster will become inoperable without 7.0 upgrade licenses after 60 days when the embedded VMware evaluation licenses expire. Please refer to KB2006974.

Current VxRail System Version	7.0.010-26590399
Installed On	Sep 20, 2020, 11:20:43 PM

Installed Components and Versions

-  VxRail Manager 7.0.010-26590399
-  VMware vCenter Server Appliance 7.0.0-16386335
-  Dell PTAgent 2.1.0-70
-  VxRail Manager VIB 7.0.010-16506064
-  VMware ESXi 7.0.0-16324942



New Licenses

- 1 Enter license keys
- 2 Edit license names
- 3 Ready to complete

Enter license keys

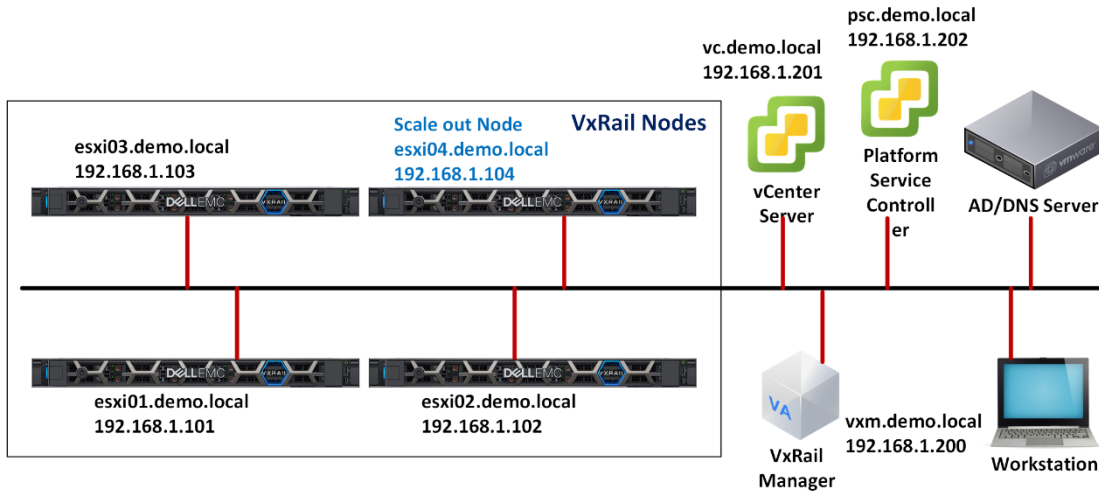


License keys (one per line):

CANCEL

NEXT

Chapter 7: VxRail Scale-Out Operations.



Getting Started

The vSphere Flash-based Web Client is deprecated in vSphere 6.7. We recommend switching to the all-new modern HTML5-based vSphere client as the primary client and only reverting to the Flash-based Web Client when necessary.

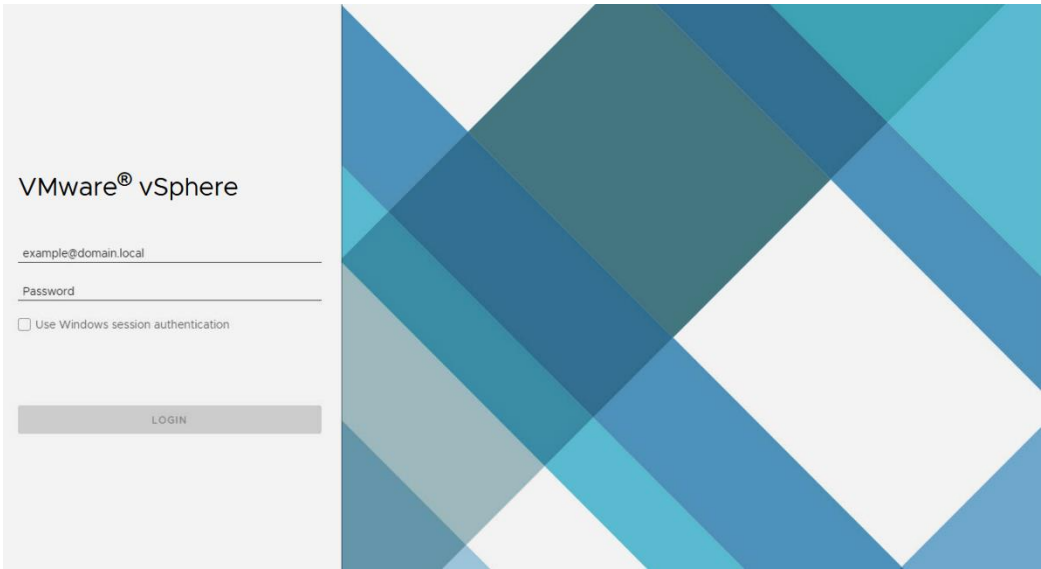
[LAUNCH VSPHERE CLIENT \(HTML5\)](#)

[LAUNCH VSPHERE WEB CLIENT \(FLEX\)](#)

Deprecated

Documentation

- [VMware vSphere Documentation Center](#)
- [Functionality Updates for the vSphere Client \(HTML5\)](#)



vm vSphere Client

Menu Search in all environments Administrator@VSPHERE.LOCAL

Home

VC.DEMO.LOCAL

CPU 22.59 GHz free 2.55 GHz used 25.14 GHz total	Memory 19.14 GB free 44.85 GB used 63.99 GB total	Storage 365.45 GB free 102.02 GB used 467.46 GB total
---	--	--

VMs 3	Hosts 3
3 Powered On 0 Powered Off 0 Suspended	3 Connected 0 Disconnected 0 Maintenance

Objects with most alerts 1	Installed Plugins 4						
<table border="1"><thead><tr><th>Item</th><th>Alerts</th><th>Warnings</th></tr></thead><tbody><tr><td>vc.demo.local</td><td>1</td><td>0</td></tr></tbody></table>	Item	Alerts	Warnings	vc.demo.local	1	0	<ul style="list-style-type: none">VMware vRops Client PluginVMware vSAN H5 Client PluginVMware Update Manager
Item	Alerts	Warnings					
vc.demo.local	1	0					

Recent Tasks Alarms

vc.demo.local

VxRail Dashboard

VxRail-Virtual-SAN-Cluster-8596e7aa-99fa-4223-961d-91a98f6415de

1 New Hosts have been detected! [Add to Cluster](#)

System Health

✔ Healthy

VxRail Community

- VM/Host Rules
- VM Overrides
- Host Options
- Host Profile
- I/O Filters
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management
 - Fault Domains
- VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts
 - Hosts**
 - Support

Hosts

EDIT

	Service Tag	Appliance ID	Model	Operation Status	ESXi Host Management IP	Hostname
<input type="radio"/>			VxRail E560	Available	192.168.1.101	esx01.demo.
<input type="radio"/>			VxRail E560	Available	192.168.1.102	esx02.demo.
<input type="radio"/>			VxRail E560	Available	192.168.1.103	esx03.demo.

1 - 3 of 3 hosts

- VM/Host Rules
- VM Overrides
- Host Options
- Host Profile
- I/O Filters
- ▼ More
 - Alarm Definitions
 - Scheduled Tasks
- ▼ vSAN
 - Services
 - Disk Management
 - Fault Domains
- ▼ VxRail
 - System
 - Updates
 - Certificate
 - Market
 - Add VxRail Hosts**
 - Hosts
 - Support

Add VxRail Hosts



ADD HOST

ADD PROXY

The following VxRail hosts have been discovered within your environment.

⚠ Cluster and new hosts must have compatible software and firmware versions.

Cluster Name: VxRail-Virtual-SAN-Cluster-[REDACTED]

Cluster Size: 4 hosts

Service Tag	Appliance ID	Model	Compatible
[REDACTED]	[REDACTED]	VxRail E560	✔ Compatible

1 hosts discovered. 64 hosts allowed per cluster.

VxRail Hosts

- 1 Discovered Hosts**
- 2 User Credentials
- 3 Host IP Address
- 4 ESXi Credentials
- 5 Maintenance Mode
- 6 Validate

Discovered Hosts

Select the VxRail host(s) to add to the cluster.

⚠ In an external vCenter, it needs to flush the DNS cache prior to reusing a hostname of the removed host. Refer to KB525600 for more details.

▼ Hosts

Cluster Name: VxRail-Virtual-SAN-Cluster-8596e7aa-99fa-4223-961d-91a98f6415de Cluster Size :4 hosts

<input type="checkbox"/>	Service Tag	Appliance ID	Model	Compatible
<input type="checkbox"/>	[REDACTED]	[REDACTED]	VxRail E560	✔ Compatible

1 hosts discovered. 64 hosts allowed per cluster.

CANCEL


NEXT

VxRail Hosts

- 1 Discovered Hosts
- 2 User Credentials
- 3 Host IP Address
- 4 ESXi Credentials
- 5 Maintenance Mode
- 6 Validate

Discovered Hosts

Select the VxRail host(s) to add to the cluster.

 In an external vCenter, it needs to flush the DNS cache prior to reusing a hostname of the removed host. Refer to KB525600 for more details.

Hosts

Cluster Name: VxRail-Virtual-SAN-Cluster-8596e7aa-99fa-4223-961d-91a98f6415de Cluster Size :4 hosts

<input checked="" type="checkbox"/>	Service Tag	Appliance ID	Model	Compatible
<input checked="" type="checkbox"/>			VxRail E560	✔ Compatible

1

1 hosts discovered. 64 hosts allowed per cluster.

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


VxRail Hosts

- 1 Discovered Hosts
- 2 User Credentials
- 3 Host IP Address
- 4 ESXi Credentials
- 5 Maintenance Mode
- 6 Validate

User Credentials

To add the hosts, enter the vSphere username and password.

Username: *

Password: * 

* field is required

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

VxRail Hosts

1 Discovered Hosts

2 User Credentials

3 Host IP Address


4 ESXi Credentials

5 Maintenance Mode

6 Validate

Host IP Address

Assign IP Addresses to the hosts.

 Verify new IP Addresses have been added to the DNS lookup records.

ESXi Management IP Pools

3 Used / 4 Total

VLAN ID: 0

Subnet Mask: 255.255.255.0

Starting IP Address	Ending IP Address	Count	Action
192.168.1.101	192.168.1.104	4	+ ADD DELETE
_____	_____	0	+ ADD DELETE

vSphere vMotion IP Pools

3 Used / 4 Total

VLAN ID: 0

Subnet Mask: 255.255.255.0

[CANCEL](#)

[BACK](#)

[NEXT](#)

VxRail Hosts

1 Discovered Hosts

2 User Credentials

3 Host IP Address

4 ESXi Credentials

5 Maintenance Mode

6 Validate

Host IP Address

3 Used / 4 Total

Subnet Mask: 255.255.255.0

Starting IP Address	Ending IP Address	Count	Action
192.168.1.131	192.168.1.134	4	+ ADD DELETE
_____	_____	0	+ ADD DELETE

vSAN IP Pools

3 Used / 4 Total

VLAN ID: 0

Subnet Mask: 255.255.255.0

Starting IP Address	Ending IP Address	Count	Action
192.168.1.121	192.168.1.124	4	+ ADD DELETE
_____	_____	0	+ ADD DELETE

[CANCEL](#)

[BACK](#)

[NEXT](#)

VxRail Hosts

1 Discovered Hosts

2 User Credentials

3 Host IP Address


4 ESXi Credentials

5 Maintenance Mode

6 Validate

ESXi Credentials

Enter the ESXi root and management credentials.

 Verify new IP Addresses have been added to the DNS lookup records.

Root Account

Root
Username * root

Password: * 

Re-enter
Password: * 

Management Account

[CANCEL](#)

[BACK](#)

[NEXT](#)


VxRail Hosts


- 1 Discovered Hosts
- 2 User Credentials
- 3 Host IP Address
- 4 ESXi Credentials**
- 5 Maintenance Mode
- 6 Validate

ESXi Credentials

Management Account

Management Username *

Password: * 

Re-enter Password: * 

Host Configurations

Autofill Host Configurations


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

VxRail Hosts

- 1 Discovered Hosts
- 2 User Credentials
- 3 Host IP Address
- 4 ESXi Credentials
- 5 Maintenance Mode**
- 6 Validate

Maintenance Mode

Select whether hosts are to be in maintenance mode.

 Once done servicing hosts, make sure to exit maintenance mode.

Put Hosts in Maintenance Mode?

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

VxRail Hosts

- 1 Discovered Hosts
- 2 User Credentials
- 3 Host IP Address
- 4 ESXi Credentials
- 5 Maintenance Mode
- 6 Validate**

Validate

If the information is correct, click Validate to verify the configuration and network.

▼ VxRail Cluster

Put Hosts in Maintenance Mode: No

Appliance ID	Model	Hostname	ESXi IP Address	vSphere vMotion IP	vSAN IP
	VxRail E560	esx04.demo.local	192.168.1.104	192.168.1.134	192.168.1.124

1 hosts to be added. Displaying items 1 - 1

[CANCEL](#) [BACK](#) [VALIDATE](#)

VxRail Hosts

1 Discovered Hosts

2 User Credentials

3 Host IP Address

4 ESXi Credentials

5 Maintenance Mode

6 Validate

Validate

Validation in Progress ...



Expansion VLAN live Configuration Validation...

13/27

CANCEL

BACK

VALIDATE

VxRail Hosts

1 Discovered Hosts

2 User Credentials

3 Host IP Address

4 ESXi Credentials

5 Maintenance Mode

6 Validate

Validate

✓ Success: The configuration has passed validation. Click Finish to add hosts to current cluster.

CANCEL

BACK

FINISH

vm vSphere Client Menu Search in all environments Administrator@VSPHERE_LOCAL

VxRail-Virtual-SAN-Cluster- ACTIONS

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

VM/Host Rules
VM Overrides
Host Options
Host Profile
I/O Filters
More
Alarm Definitions
Scheduled Tasks
vSAN
Services
Disk Management
Fault Domains
VxRail
System
Updates
Certificate
Market
Add VxRail Hosts
Hosts
Support
Networking
Health Monitoring
Troubleshooting

Add VxRail Hosts

ADD_HOST ADD_PROXY

Host expansion in progress. Health monitoring is currently disabled during this task.

RETRY CANCEL

Status	Description
<div style="width: 100%; height: 10px; background-color: #0070C0;"></div>	(30/39) Configuring passwords on ESXi hosts...

Recent Tasks Alarms

vm vSphere Client Menu Search in all environments Administrator@VSPHERE_LOCAL

VxRail-Virtual-SAN-Cluster- ACTIONS

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

VM/Host Rules
VM Overrides
Host Options
Host Profile
I/O Filters
More
Alarm Definitions
Scheduled Tasks
vSAN
Services
Disk Management
Fault Domains
VxRail
System
Updates
Certificate
Market
Add VxRail Hosts
Hosts
Support
Networking
Health Monitoring
Troubleshooting

Add VxRail Hosts

ADD_HOST ADD_PROXY

Host expansion complete.

RETRY CANCEL

Status	Description
✓	Host successfully added to VxRail Cluster.

Recent Tasks Alarms

vm vSphere Client Menu Search in all environments Administrator@VSPHERE.LOCAL

VxRail-Virtual-SAN-Cluster- ACTIONS

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

vc.demo.local
 VxRail-Datcenter
 VxRail-Virtual-SAN-Cluster-8596e7aa-99fa-...
 esx01.demo.local
 esx02.demo.local
 esx03.demo.local
 esx04.demo.local
 VMware vCenter Server Appliance
 VMware vCenter Server Platform Servic...
 VxRail Manager

VM/Host Rules
 VM Overrides
 Host Options
 Host Profile
 I/O Filters
 More
 Alarm Definitions
 Scheduled Tasks
 vSAN
 Services
 Disk Management
 Fault Domains
 VxRail
 System
 Updates
 Certificate
 Market
 Add VxRail Hosts
Hosts
 Support
 Networking
 Health Monitoring
 Troubleshooting

Hosts

EDIT

	Service Tag	Appliance ID	Model	Operation Status	ESXi Host Management IP	Hostname
<input type="radio"/>			VxRail E560	Available	192.168.1.104	esx04.demo
<input type="radio"/>			VxRail E560	Available	192.168.1.101	esx01.demo.
<input type="radio"/>			VxRail E560	Available	192.168.1.102	esx02.demo.
<input type="radio"/>			VxRail E560	Available	192.168.1.103	esx03.demo.

1 - 4 of 4 hosts

Recent Tasks Alarms

vm vSphere Client Menu Search in all environments Administrator@VSPHERE.LOCAL

Home

VC.DEMO.LOCAL

CPU 31.37 GHz free
 2.15 GHz used | 33.52 GHz total

Memory 23.35 GB free
 52.63 GB used | 75.98 GB total

Storage 380.25 GB free
 109.71 GB used | 489.96 GB total

VMs 3
 3 Powered On 0 Powered Off 0 Suspended

Hosts 4
 4 Connected 0 Disconnected 0 Maintenance

Objects with most alerts 0
 Alerts Warnings

Installed Plugins 4
 VMware vRops Client Plugin
 VMware vSAN H5 Client Plugin
 VMware Update Manager

Recent Tasks Alarms

vm vSphere Client Menu Search in all environments Administrator@VSPHERE.LOCAL

Administration

- Access Control
 - Roles
 - Global Permissions
- Licensing
 - Licenses**
- Solutions
 - Client Plug-Ins
 - vCenter Server Extensions
- Deployment
 - System Configuration
 - Customer Experience Improvement Pr...
- Support
 - Upload File to Service Request
- Single Sign On
 - Users and Groups
 - Configuration
- Certificates
 - Certificate Management

Licenses

Licenses Products Assets [GO TO MY VMWARE](#)

+ Add New Licenses Synchronize Licenses

<input type="checkbox"/>	License	License Key	Product	Usage	Capacity
<input type="checkbox"/>	License 1		VMware vCenter Server 6 Standard (L...	1 Instances	Unlimited Instances
<input type="checkbox"/>	License 2		VMware vSphere 6 Enterprise Plus (C...	8 CPUs	Unlimited CPUs
<input type="checkbox"/>	License 3		VMware vSAN Enterprise (CPUs)	8 CPUs	Unlimited CPUs

EXPORT

No items selected

Recent Tasks Alarms

New Licenses

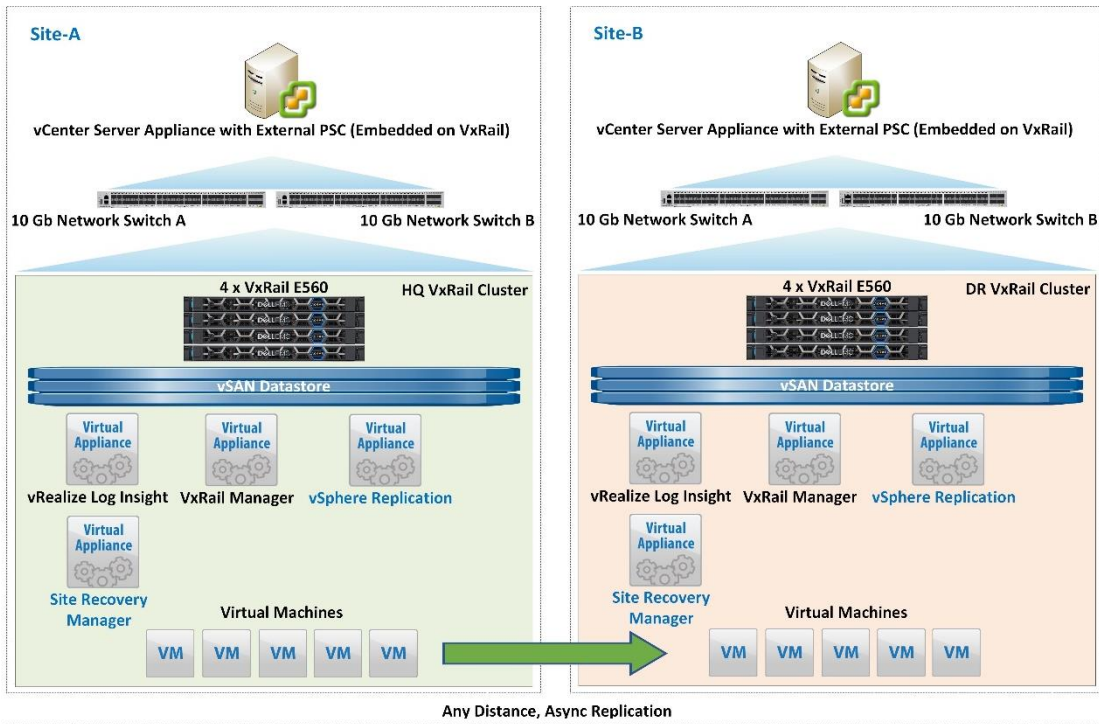
- 1 Enter license keys
- 2 Edit license names
- 3 Ready to complete

Enter license keys

License keys (one per line):

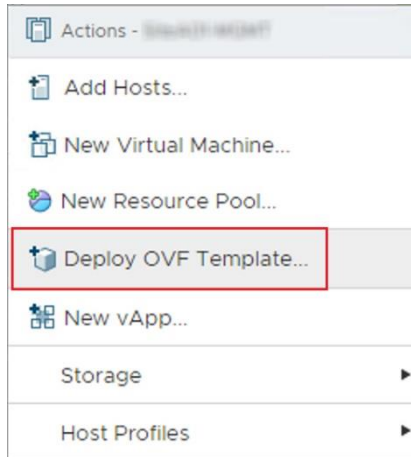
CANCEL **NEXT**

Chapter 8: Active-Passive Solution for VxRail.



Product Downloads Drivers & Tools Open Source Custom ISOs OEM Addons

File	Information
VMware Site Recovery Manager 8.2.1 Self Extracting Installer for Windows	
VMware Site Recovery Manager 8.2.1 Self Extracting Installer File size: 408.16 MB File type: exe Read More	DOWNLOAD NOW
VMware Site Recovery Manager 8.2.1 Appliance	
VMware Site Recovery Manager 8.2.1 Appliance - *.iso disk image File size: 1.35 GB File type: iso Read More	DOWNLOAD NOW
The plug-ins for this release are available for download on the Drivers & Tools tab.	
The Storage Replication Adapters for this release are available for download on the Drivers & Tools tab.	



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

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

Local file

No file chosen

Deploy OVF Template

✓ 1 Select an OVF template

2 Select a name and folder

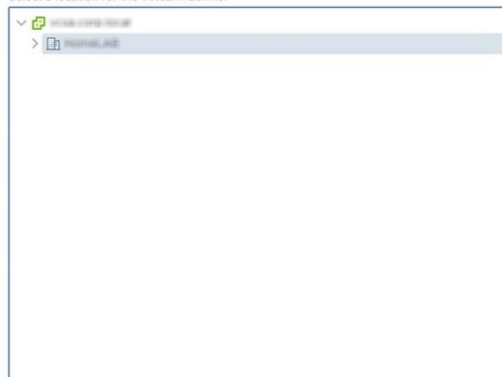
- 3 Select a compute resource
- 4 Review details
- 5 Select storage
- 6 Ready to complete

Select a name and folder

Specify a unique name and target location

Virtual machine name:

Select a location for the virtual machine.



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

- Home, AG
- ABUS
 - win-01 comp local
 - win-02 comp local
 - Stack
 - Stack

Compatibility

✓ Compatibility checks succeed

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	8.2.0.3101
Vendor	VMware, Inc.
Description	VMware Site Recovery Manager Appliance
Download size	805.0 MB
Size on disk	1.2 GB (thin provisioned)
	20.0 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.

VMWARE END USER LICENSE AGREEMENT

PLEASE NOTE THAT THE TERMS OF THIS END USER LICENSE AGREEMENT SHALL GOVERN YOUR USE OF THE SOFTWARE, REGARDLESS OF ANY TERMS THAT MAY APPEAR DURING THE INSTALLATION OF THE SOFTWARE.

IMPORTANT-READ CAREFULLY: BY DOWNLOADING, INSTALLING, OR USING THE SOFTWARE, YOU (THE INDIVIDUAL OR LEGAL ENTITY) AGREE TO BE BOUND BY THE TERMS OF THIS END USER LICENSE AGREEMENT ("EULA"). IF YOU DO NOT AGREE TO THE TERMS OF THIS EULA, YOU MUST NOT DOWNLOAD, INSTALL, OR USE THE SOFTWARE, AND YOU MUST DELETE OR RETURN THE

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

2 vCPU

4 vCPU

Description

Deploy the VM configured with 4 vCPU and 12 GB of RAM

2 Items

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 format: **Thick Provision Lazy Zeroed** ▾

VM Storage Policy: **Datastore Default** ▾

Name	Capacity	Provisioned	Free	Ty
datastore1_A	476.75 GB	265.98 GB	210.77 GB	
datastore1_B	476.75 GB	350.7 GB	146.44 GB	
datastore1_A1	111.75 GB	165.79 GB	27.87 GB	
datastore1_A2	111.75 GB	173.6 GB	27.88 GB	
datastore1_B1	111.75 GB	165.79 GB	27.87 GB	
datastore1_B2	111.75 GB	173.6 GB	27.88 GB	
datastore1_A	48.5 GB	1.41 GB	47.09 GB	
datastore1_B	48.5 GB	1.41 GB	47.09 GB	

Compatibility

✓ Compatibility checks succeeded.

ANCEL

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 items

IP Allocation Settings

IP allocation: **Static - Manual** ▾

IP protocol: **IPv4** ▾

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

Customize template

Customize the deployment properties of this software solution.

✓ All properties have valid values ✕

Application	7 settings
Enable SSHD	Determines whether the SSHD service will be enabled and started by default in the appliance. <input checked="" type="checkbox"/>
Initial root password	This will be used as an initial password for the root user account. Password <input style="width: 100px;" type="password" value="*****"/> Confirm <input style="width: 100px;" type="password" value="*****"/> Password
Initial admin user password	This will be used as an initial password for the admin user account. Password <input style="width: 100px;" type="password" value="*****"/> Confirm <input style="width: 100px;" type="password" value="*****"/> Password

CANCEL

BACK

NEXT

NTP Servers	A comma-separated list of hostnames or IP addresses of NTP Servers. <input style="width: 100%; border-bottom: 1px solid #ccc;" type="text" value="pool.ntp.org"/>
Hostname	The hostname for this VM. Leave blank to try to reverse lookup the IP address. <input style="width: 100%; border-bottom: 1px solid #ccc;" type="text" value="vm-016"/>
Initial database password	This will be used as initial database password. Password <input style="width: 100px;" type="password" value="*****"/> Confirm <input style="width: 100px;" type="password" value="*****"/> Password

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

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="example.com"/>
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) <input type="text" value="example.com"/>
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) <input type="text" value="192.168.1.1"/>
Network 1 IP Address	The IP address for this interface. <input type="text" value="192.168.255.255"/>
Network 1 Netmask	The netmask or prefix for this interface. <input type="text" value="255.255.255.0"/>

CANCEL

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**

Ready to complete

Click Finish to start creation.

Provisioning type	Deploy from template
Name	SRM-DRS
Template name	SRM-DRS_Template
Download size	805.0 MB
Size on disk	20.0 GB
Folder	SRM-DRS
Resource	SRM-DRS
Storage mapping	1
All disks	Datastore: SRM-DRS; Format: Thick provision lazy zeroed
Network mapping	1
Network 1	VM Network
IP allocation settings	
IP protocol	IPv4
IP allocation	Static - Manual

CANCEL



Getting Started

Documentation

[VMware SRM Documentation](#)

SRM Appliance Management Refresh Settings Notifications

Summary RESTART DOWNLOAD

Product	VMware vCenter Site Recovery Manager
Version	8.2.0
Build	13144508

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

CONFIGURE APPLIANCE

Monitor Disks
Access
Networking
Time
Services
Update
Syslog Forwarding
Storage Replication A...

Configure Site Recovery Manager

- 1 Platform Services Controller
- 2 vCenter Server
- 3 Name and extension
- 4 Ready to complete

Platform Services Controller

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

PSC host name vsph-w01b-corp.local PSC port 443

User name administrator@vsphere.local

Password *****

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

CANCEL NEXT

Configure Site Recovery Manager

- Platform Services Controller
- vCenter Server
- Name and extension**
- Ready to complete

Name and extension

Enter name and extension for Site Recovery Manager

Site name ^①

Administrator email ^①

Local host ^①

Extension ID ^①

Default extension ID (com.vmware.vcDr)

Custom extension ID

Extension ID

Organization

Description

CANCEL BACK NEXT

Configure Site Recovery Manager

- Platform Services Controller
- vCenter Server
- Name and extension
- Ready to complete**

Ready to complete

Review your settings before finishing the wizard.

Platform Services Controller

vCenter Server

Site name

Extension ID

CANCEL BACK FINISH

SRM Appliance Management

🔄
⚙️
🔔
🔍
👤

- Summary
- Monitor Disks
- Access
- Networking
- Time
- Services
- Update
- Syslog Forwarding
- Storage Replication A...

[RESTART](#)
[DOWNLOAD SUPPORT BUNDLE](#)
[STOP](#)

Product	VMware vCenter Site Recovery Manager
Version	8.2.0
Build	13144508

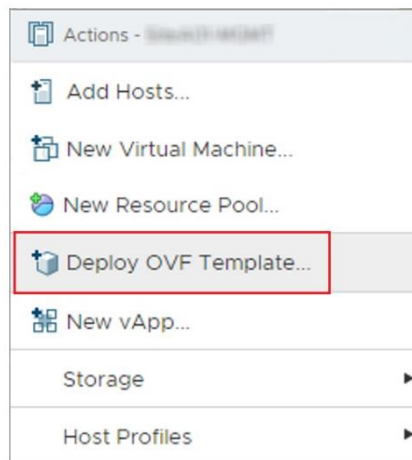
[RECONFIGURE](#)
[UNREGISTER](#)

Site name	<input type="text" value="Site1"/>
Extension key	com.vmware.vcDr
Platform Services Controller	<input type="text" value="https://vms-07b.corp.local:443"/>
vCenter Server	<input type="text" value="vms-07b.corp.local"/>
Connection thumbprint	⚠️ 9FFA4C:D6E6:04:20:26:66:56:F5:CC:5E:40:16:97:32:09:50:80

File	Information
VMware vSphere Replication 8.2.0.2 Appliance - *.iso disk image	DOWNLOAD NOW
File size: 1.43 GB File type: iso	
Read More	

MD5 checksums, SHA1 checksums and SHA256 checksums.

End User License Agreement: [View EULA](#)



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

No file chosen

Name	Date modified	Type	Size
vSphere_Replication_AddOn_OVF10.cert	10/19/2019 2:08:49PM	CERT File	2 KB
vSphere_Replication_AddOn_OVF10.mf	10/19/2019 2:08:49PM	MF File	1 KB
vSphere_Replication_AddOn_OVF10.ovf	10/19/2019 2:08:49PM	OVF File	20 KB
vSphere_Replication_Migrate_AddOn_OVF10.cert	10/19/2019 2:08:49PM	CERT File	2 KB
vSphere_Replication_Migrate_AddOn_OVF10.mf	10/19/2019 2:08:49PM	MF File	1 KB
vSphere_Replication_Migrate_AddOn_OVF10.ovf	10/19/2019 2:08:49PM	OVF File	21 KB
vSphere_Replication_OVF10.cert	10/19/2019 2:08:49PM	CERT File	2 KB
vSphere_Replication_OVF10.mf	10/19/2019 2:08:49PM	MF File	1 KB
vSphere_Replication_OVF10.ovf	10/19/2019 2:08:49PM	OVF File	343 KB
vSphere_Replication-support.vmdk	10/19/2019 2:08:49PM	VMDK File	7,754 KB
vSphere_Replication-system.vmdk	10/19/2019 2:08:49PM	VMDK File	1,014,899 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 a name and folder
Specify a unique name and target location

Virtual machine name:

Select a location for the virtual machine.

- vSphere-0716-compute-01
 - SiteA01
- vSphere-0716-compute-02
 -

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 vService bindings
 11 Ready to complete

Review details
Verify the template details.

Publisher	VMware\, Inc. (Trusted certificate)
Product	vSphere Replication Appliance
Version	8.2.0.8384
Vendor	VMware, Inc.
Description	vSphere Replication Appliance
Download size	687.6 MB
Size on disk	1.3 GB (thin provisioned)
	26.0 GB (thick provisioned)

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 vService bindings
- 11 Ready to complete

License agreements

The end-user license agreement must be accepted.

Read and accept the terms for the license agreement.

vSphere Replication

Copyright (c) 2011, 2012, 2013, 2014, 2015, 2016, 2018, 2019 VMware, Inc. All rights reserved. This product is protected by copyright and intellectual property laws in the United States and other countries as well as by international treaties. VMware products are covered by one or more patents listed at <http://www.vmware.com/go/patents>.

VMWARE END USER LICENSE AGREEMENT

PLEASE NOTE THAT THE TERMS OF THIS END USER LICENSE AGREEMENT SHALL GOVERN YOUR USE OF THE SOFTWARE, REGARDLESS OF ANY TERMS THAT MAY APPEAR DURING THE

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 vService bindings
- 11 Ready to complete

Configuration

Select a deployment configuration

	Description
<input type="radio"/> 2 vCPU	Deploy the VM configured with 4 vCPU
<input checked="" type="radio"/> 4 vCPU	
2 Items	

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 vService bindings
- 11 Ready to complete

Select storage

Select the storage for the configuration and disk files

Encrypt this virtual machine

Select virtual disk format: **Thin Provision**

VM Storage Policy: **Datastore Default**

Name	Capacity	Provisioned	Free	Type
NFS_SiteA	5.41 TB	2.52 TB	2.98 TB	
SiteA-VSAN-MGMT01	119.98 GB	1.63 GB	118.35 GB	

Compatibility

✓ Compatibility checks succeeded.

ANCEL

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 vService bindings
- 11 Ready to complete

Select networks

Select a destination network for each source network.

Source Network	Destination Network
Management Network	SiteA-VSAN-MGMT01

1 items

IP Allocation Settings

IP allocation: **Static - Manual**

IP protocol: **IPv4**

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 vService bindings
- 11 Ready to complete

Customize template

Customize the deployment properties of this software solution.

Application		5 settings
Password		
The password for the appliance 'root' account.		
Password	
Confirm Password	
NTP Servers		
A comma-separated list of hostnames or IP addresses of NTP Servers.		
<u>pool.ntp.org</u>		
Hostname		
The host name for this virtual machine. Provide the FQDN if you use a static IP. Leave blank to reverse look up the IP address if you use DHCP.		
<u>www.123.com.local</u>		
Enable file integrity		
Enables file integrity monitoring of the VR appliance.		

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 vService bindings
- 11 Ready to complete

Domain Name	
The domain name of this VM. (from the IP Pool associated with the vSphere network mapped to the 'Management Network' network)	
<u>www.local</u>	
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 'Management Network' network)	
<u>www.local</u>	
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 'Management Network' network)	
<u>192.168.100.10</u>	
Management Network IP Address	The IP address for this interface.
	<u>192.168.100.62</u>
Management Network Netmask	The netmask or prefix for this interface.
	<u>255.255.255.0</u>

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 vService bindings**
- 11 Ready to complete

vService bindings

Select the vServices to which the deployed OVF template should bind

vCenter Extension Installation

This appliance requires a binding to the vCenter Extension vService, which allows it to register as a vCenter Extension at runtime.

Provider:

Binding status:

Validation Message:

ATTENTION: This virtual machine will gain unrestricted access to the vCenter server APIs. Make sure that the virtual machine is connected to a network where it can reach the URL 'https://vcsa-01a.corp.local/vsm/extensionService'.

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 vService bindings
- 11 Ready to complete**

Ready to complete

Click Finish to start creation.

Provisioning type	Deploy from template
Name	VRSA-01A
Template name	vSphere_Replication_OVF10
Download size	687.6 MB
Size on disk	1.3 GB
Folder	SiteA01
Resource	SiteA01-VM001
Storage mapping	1
All disks	Datastore: NFS_Stack_Format_The-provision
Network mapping	1
Management Network	SiteA01-10.10.10.10
IP allocation settings	
IP protocol	IPv4
IP allocation	Static - Manual

CANCEL

BACK

FINISH

vSphere Replication Appliance

VR | Network | Update | System | [Application Home](#) | [Help](#) | [Logout user root](#)

[Getting Started](#) | Configuration | Security | Support

Getting Started with vSphere Replication

These links will help you configure your VR appliance.

- 1. Configuration**
You can override the default configuration of the VR appliance.
[Configuration page](#)
- 2. Change Appliance Credentials**
Change the password of the VR appliance or review the SSL certificate that the appliance uses.
[Security page](#)

Replication Between Sites

Before you can replicate virtual machines between sites, you must deploy a VR appliance at each site and register it with the respective vCenter Server.

The diagram illustrates the replication architecture between two sites. On the left, the 'Protected Site' contains a vCenter Server, a VRM Server, a Host, and a VR Agent. On the right, the 'Recovery Site' contains a vCenter Server, a VRM Server, and a VR Server. Source Datastores from the Protected Site are connected to Target Datastores in the Recovery Site. A blue arrow indicates the direction of replication from the Protected Site to the Recovery Site.

Startup Configuration

- Configuration Mode:**
- Configure using the embedded database
 - Manual configuration
 - Configure from an existing VRM database

Actions

- Save and Restart Service**
- Unregister VRMS
- Reset Embedded Database

LookupService Address:

SSO Administrator:

Password:

VRM Host:

VRM Site Name:

vCenter Server Address:

vCenter Server Port:

vCenter Server Admin Mail:

IP Address for Incoming Storage Traffic:

SSL Certificate Policy

Accept only SSL certificates signed by a trusted Certificate Authority
(You must click the 'Save and Restart Service' button after changing this setting)

Install a new SSL Certificate

Generate a self-signed certificate

Upload PKCS#12 (*.pfx) file No file chosen

Service Status

VRM service is **stopped**

Tomcat service is **running**

Confirm SSL Certificate

Please confirm that you trust this certificate

Issued To

Common Name `www.171a.com.local`
Country `US`

Issued By

Common Name `CA`
Organization `www.171a.com.local`
Organizational Unit `Webware Engineering`
State `California`
Country `US`

Validity

Issued On 11 Jun 2018 10:02:22 GMT

Expires On 5 Jun 2028 10:02:21 GMT

Validation problems **Certificate not signed by a trusted authority**

Fingerprints

SHA-256 Thumbprint `28A:62B:88B:1E2:877:79:48:84A:1C2:8A1:1A:411:483:423:483:28:88A:23:1C8:87F:79:441:7E:2D2:88C:8D:038:511:88B:1F:8D:27F`

Reject

Accept

Service Status

Restart

VRM service is running

Restart

Tomcat service is running

vm vSphere Client Menu ▾ 🔍 Search in all environments

- Home
- Shortcuts
- Hosts and Clusters
- VMs and Templates
- Storage
- Networking
- Content Libraries
- Global Inventory Lists
- Policies and Profiles
- AppDefense
- Auto Deploy
- vRealize Operations
- Networking and Security
- Site Recovery**
- Administration
 - Site Recovery
- Update Manager
- Tasks
- Events
- Tags & Custom Attributes

Home

CPU: 53.24 GHz free (4.34 GHz used | 57.58 GHz total)

Memory: 28.33 (43.66 GB)

VMs: 11

- 6 Powered On
- 5 Powered Off
- 0 Suspended

Objects with most alerts: 0

Item	Alerts	Warnings
🔍		

Site Recovery


Local vCenter Server instances are displayed below. If you want to see more details, use the Open button. The Site Recovery application opens in a new browser tab.

Item	Status	Action
vSphere Replication	✓ OK	CONFIGURE
Site Recovery Manager	✓ OK	

[OPEN Site Recovery](#)

Site Recovery

Local vCenter Server instances are displayed below. If you want to see more details, use the Open button. The Site Recovery application opens in a new browser tab.



vSphere Replication ✓ OK [CONFIGURE](#)

Site Recovery Manager ✓ OK

[OPEN Site Recovery](#)

Site A



vSphere Replication ✓ OK [CONFIGURE](#)

Site Recovery Manager ✓ OK

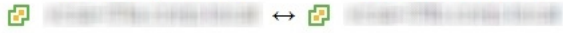
[OPEN Site Recovery](#)

Site B

 Site Recovery Menu ▼

[NEW SITE PAIR](#)

vCenter (Site A) ↔ **vCenter (Site B)**



Site Recovery Manager


Protection Groups 0 Recovery Plans 0


vSphere Replication

from Last login: Tue Jun... 0 from Last login: Wed Ju... 0

[VIEW DETAILS](#) ACTIONS ▼

Replications within the same vCenter Server

 within [vCenter] 0

 within [vCenter] 0

[VIEW DETAILS](#) ▼

Site Recovery

Site Pair | Replications | Protection Groups | Recovery Plans

- Summary
- Issues
- Configure
 - Replication Servers
 - Array Based Replication
 - Storage Replication Adapters
 - Array Pairs
 - Network Mappings**
 - Folder Mappings
 - Resource Mappings
 - Storage Policy Mappings
 - Placeholder Datastores
 - Advanced Settings
 - Permissions
 - Recovery Plans History
 - vSphere Replication reports

Network Mappings

+ NEW

	Recovery Network	Reverse Mapping	Test Network
--	------------------	-----------------	--------------

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.

SiteA

- SiteA-vDS-COMP
- SiteA-vDS-MGMT
- none *

SiteB

- SiteB-vDS-COMP
- SiteB-vDS-MGMT
- none

ADD MAPPINGS

SiteA	SiteB
SiteA > none	SiteB > none

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.

SiteA	SiteB
<input checked="" type="checkbox"/> SiteA > none	<input checked="" type="checkbox"/> SiteB > none

1

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.

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

Recovery Network	↑ ↓	Test Network
SiteB > none		Isolated network (auto created) ↓

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

		Reverse Mapping	Test Network
SiteA > none	SiteB > none	Yes	Isolated network (auto crea...

CANCEL

BACK

FINISH

Summary

Issues

Configure

Replication Servers

Array Based Replication

Storage Replication Adapters

Array Pairs

Network Mappings

Folder Mappings

Resource Mappings

Storage Policy Mappings

Placeholder Datastores

Advanced Settings

Permissions

Recovery Plans History

vSphere Replication reports

Folder Mappings

[Filter/Sort bar]

+ NEW

[Table header with checkboxes and arrows]

Summary

Issues

Configure

Replication Servers

Array Based Replication

Storage Replication Adapters

Array Pairs

Network Mappings

Folder Mappings

Resource Mappings

Storage Policy Mappings

Placeholder Datastores

Advanced Settings

Permissions

Recovery Plans History

vSphere Replication reports

Resource Mappings

+ NEW



vcsa-01a.corp.local



vcsa-01b.corp.local

- Summary
- Issues
- Configure
 - Replication Servers
 - Array Based Replication
 - Storage Replication Adapters
 - Array Pairs
 - Network Mappings
 - Folder Mappings
 - Resource Mappings
 - Storage Policy Mappings**
 - Placeholder Datastores
 - Advanced Settings
 - Permissions
 - Recovery Plans History
 - vSphere Replication reports

Storage Policy Mappings

+ NEW

<input type="checkbox"/>	vcsa-01a.corp.local	↑ ↓	vcsa-01b.corp.local
--------------------------	---------------------	-----	---------------------

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.

<input checked="" type="checkbox"/>	Source Policy	Destination Policy
<input checked="" type="checkbox"/>	vCenter (Site A)	vCenter (Site B)
<input checked="" type="checkbox"/>	VM Recovery Policy	VM Recovery Policy
<input checked="" type="checkbox"/>	VM Recovery Policy - Backup Storage Policy	VM Recovery Policy - Backup Storage Policy
<input checked="" type="checkbox"/>	VM Recovery Policy	VM Recovery Policy
<input checked="" type="checkbox"/>	VM Recovery Policy - Backup Storage Policy	VM Recovery Policy - Backup Storage Policy
<input checked="" type="checkbox"/>	VM Recovery Policy	VM Recovery Policy
<input checked="" type="checkbox"/>	VM Recovery Policy - Backup Storage Policy	VM Recovery Policy - Backup Storage Policy

5

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

Source Policy	Destination Policy	Reverse Mapping
VM Recovery Policy	VM Recovery Policy	Yes
VM Recovery Policy - Backup Storage Policy	VM Recovery Policy - Backup Storage Policy	Yes
VM Recovery Policy	VM Recovery Policy	Yes
VM Recovery Policy - Backup Storage Policy	VM Recovery Policy - Backup Storage Policy	Yes
VM Recovery Policy	VM Recovery Policy	Yes

CANCEL

BACK

FINISH

- Summary
- Issues
- Configure
 - Replication Servers
 - Array Based Replication
 - Storage Replication Adapters
 - Array Pairs
 - Network Mappings
 - Folder Mappings
 - Resource Mappings
 - Storage Policy Mappings
 - Placeholder Datastores**
 - Advanced Settings
- Permissions
- Recovery Plans History
- vSphere Replication reports

Placeholder Datastores

+ NEW

<input type="checkbox"/>	Name	Host/Cluster
--------------------------	------	--------------

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.

<input type="checkbox"/>	Name	↑ ▼
<input type="checkbox"/>	[REDACTED]	
<input checked="" type="checkbox"/>	[REDACTED]	
<input type="checkbox"/>	vsanDatastore	

3 datastore(s)

CANCEL

ADD

Site Recovery [REDACTED]

Site Pair | Replications | Protection Groups | Recovery Plans

Forward replications
Reverse replications

Forward replications

+ NEW

<input type="checkbox"/>	Virtual Machine	↑ ▼	Status	▼	Target
--------------------------	-----------------	-----	--------	---	--------

Configure Replication

1 Virtual machines

2 Target site

3 Target datastore

4 Replication settings

5 Protection group

6 Ready to complete

Virtual machines

Select the virtual machines you want to protect.

All Selected (2)

<input type="checkbox"/>	Name	VM Folder
<input type="checkbox"/>	App01	SiteA01
<input checked="" type="checkbox"/>	App02	SiteA01
<input type="checkbox"/>	...	SiteA01
<input type="checkbox"/>	...	SiteA01
<input type="checkbox"/>	...	SiteA01
<input type="checkbox"/>	...	SiteA01
<input type="checkbox"/>	...	SiteA01
<input type="checkbox"/>	...	SiteA01
<input type="checkbox"/>	...	SiteA01
<input type="checkbox"/>	...	SiteA01
<input checked="" type="checkbox"/>	Web02	SiteA01
<input checked="" type="checkbox"/> 2		

CANCEL

NEXT

Configure Replication - 2 VMs

- 1 Virtual machines
- 2 Target site**
- 3 Target datastore
- 4 Replication settings
- 5 Protection group
- 6 Ready to complete

Target site

Select the target site where the virtual machines will be replicated.

	Target Site	Status
<input type="radio"/>	vCenter (Site A)	✓ Logged in
<input checked="" type="radio"/>	vCenter (Site B)	✓ Logged in

2 site(s)

Select the vSphere Replication server that will handle the replication.

- Auto-assign vSphere Replication Server
- Manually select vSphere Replication Server

	Name	Replications
<input type="radio"/>		0
vSphere Replication (Site B)		

1 replication server(s)

CANCEL BACK NEXT

Configure Replication - 2 VMs

- 1 Virtual machines
- 2 Target site
- 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 virtual machine

The selected virtual machines are using 2.35 GB.

Disk format: Same as source

VM storage policy: Datastore Default

	Name	Capacity	Free	Type
<input type="radio"/>		89.75 GB	83.72 GB	VMFS
<input checked="" type="radio"/>		5.41 TB	2.3 TB	NFS
<input type="radio"/>	vsanDatastore	119.98 GB	117.56 GB	vsan

3 datastore(s)

Select seeds

CANCEL BACK NEXT


Configure Replication - 2 VMs

- 1 Virtual machines
- 2 Target site
- 3 Target datastore
- 4 Replication settings**
- 5 Protection group
- 6 Ready to complete

Replication settings

Configure the replication settings for the virtual machines.

Recovery point objective (RPO) ⓘ

5 minutes  24 hours
1 hour

Enable point in time instances ⓘ

Keep 3 instances per day for the last 5 days

If the RPO period is longer than 8 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 ⓘ

CANCEL BACK NEXT

Configure Replication - 2 VMs

- 1 Virtual machines
- 2 Target site
- 3 Target datastore
- 4 Replication settings
- 5 Protection group**
- 6 Recovery plan
- 7 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

Protection group name:

CANCEL BACK NEXT

Configure Replication - 2 VMs

- 1 Virtual machines
- 2 Target site
- 3 Target datastore
- 4 Replication settings
- 5 Protection group
- 6 Ready to complete

Ready to complete



Review your selected settings.

Target site	[Redacted]
Replication server	Auto-assign
VMs to be replicated	2
Quiescing	Disabled
Network compression	Disabled
Recovery point objective	1 hour
Points in time recovery	Disabled
Protection group	[Redacted]

CANCEL

BACK

FINISH

Recovery Plans

+ NEW

	Name	↑ ↓	Status
<input type="radio"/>	[Redacted]		→ Ready
<input type="radio"/>	[Redacted]		→ Ready
<input type="radio"/>	[Redacted]		→ Ready

Create Recovery Plan

1 Name and direction

2 Protection Groups

3 Test Networks

4 Ready to complete

Name and direction



Name:

XXXXXXXXXXXX

Description:

Direction:

vCenter (Site A) → vCenter (Site B)

vCenter (Site B) → vCenter (Site A)

Location:

Search...

Recovery Plans

CANCEL

NEXT

Create Recovery Plan

- 1 Name and direction
- 2 Protection Groups
- 3 Test Networks**
- 4 Ready to complete

Test Networks



Select the networks to use while running tests of this plan.

i If "Use site-level mapping" is selected and no such mapping exists, an isolated test network will be created.

Recovery Network	↑ ↓	Test Network
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]
SiteB01 > [Network Name]		[Network Name]

CANCEL BACK NEXT

Create Recovery Plan

- 1 Name and direction
- 2 Protection Groups
- 3 Test Networks
- 4 Ready to complete**

Ready to complete

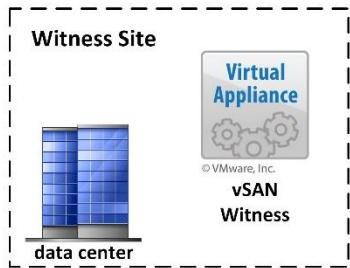


Review your selected settings.

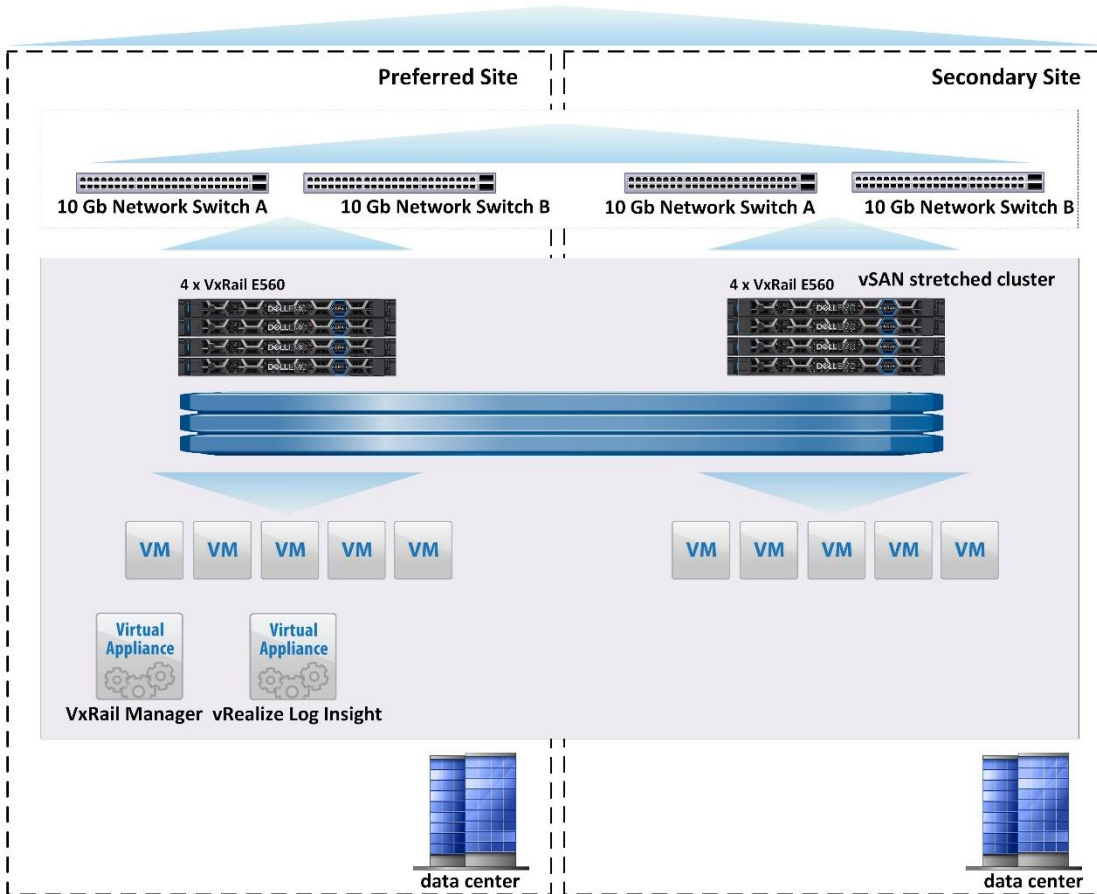
Name	[Network Name]
Description	
Protected site	vCenter (Site A)
Recovery site	vCenter (Site B)
Location	Recovery Plans
Total protection groups	0

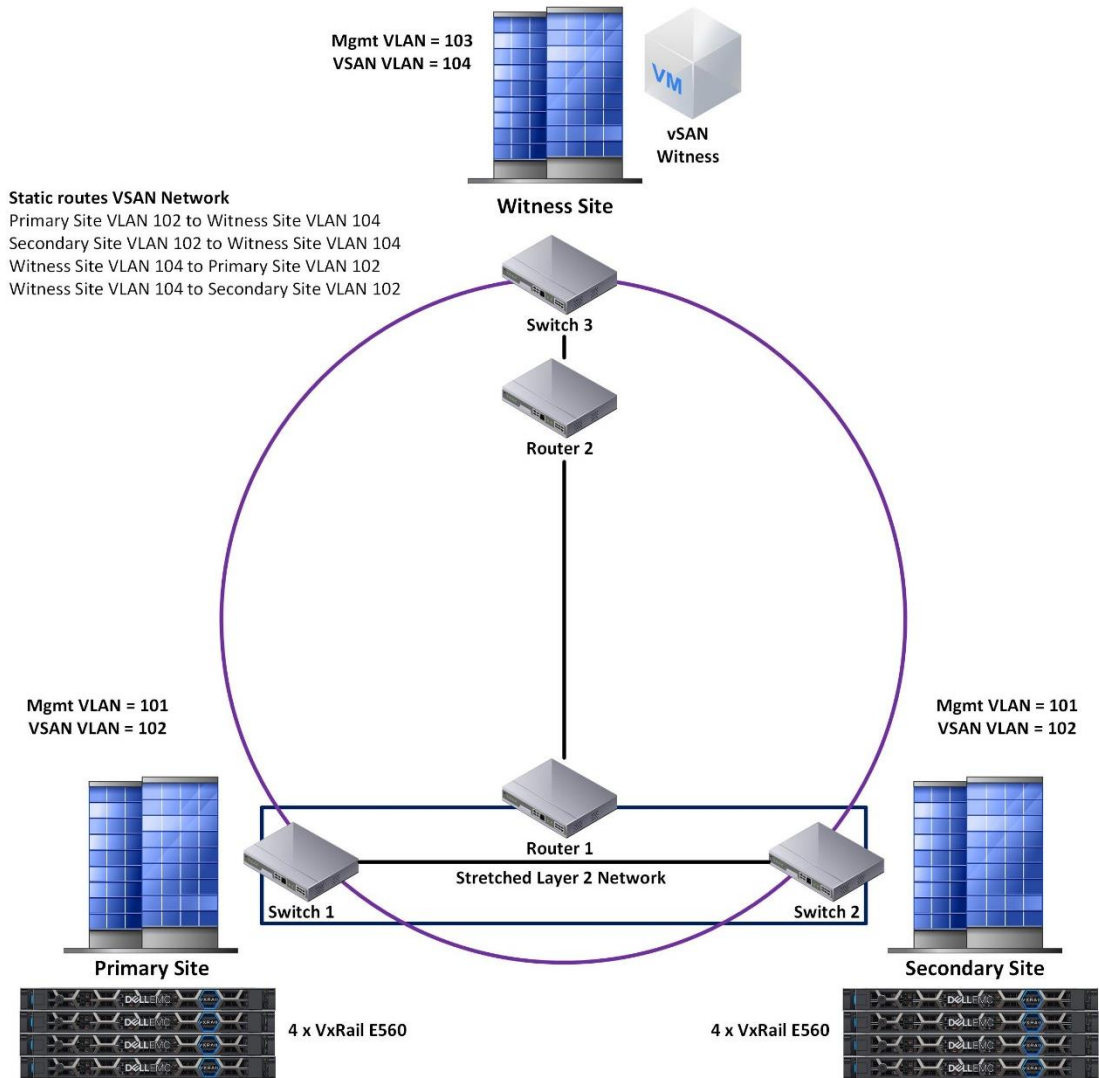
CANCEL BACK FINISH

Chapter 9: Active-Active Solution for VxRail.



vCenter Server Appliance with external PSC (embedded on VxRail cluster)





vmware CUSTOMER CONNECT | Products and Accounts | Knowledge | More | Register | Login

Product Downloads | Drivers & Tools | Open Source | Custom ISOs | OEM Addons

Driver / Tool	Release Date	
> VMware NSX for vSphere Tools		
▼ VMware vSAN Tools, Plug-ins and Appliances		
VMware Virtual SAN Witness Appliance 6.7U3j	2020-08-20	GO TO DOWNLOADS
VMware Virtual SAN Witness Appliance 6.7U3b	2019-12-05	GO TO DOWNLOADS
VMware Virtual SAN Witness Appliance 6.7U3	2019-08-20	GO TO DOWNLOADS
VMware Virtual SAN Witness Appliance 6.7U2	2019-04-11	GO TO DOWNLOADS
VMware Virtual SAN Witness Appliance 6.7U1	2018-10-16	GO TO DOWNLOADS
VMware Virtual SAN Witness Appliance 6.7	2018-04-17	GO TO DOWNLOADS
> VMware vRealize Orchestrator Plugin		
> VMware vSphere Management Information Base		

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

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

Local file

VMware-Virtual..

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 name and folder


Specify a unique name and target location

Virtual machine name: _____

Select a location for the virtual machine.

▼  vcs _____

>  _____

>  _____

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

▼  Datacenter

>  _____

>  _____

Compatibility

✓ Compatibility checks succeeded.

⌵

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.

 The OVF package contains advanced configuration options, which might pose a security risk. Review the advanced configuration options below. Click next to accept the advanced configuration options.

Publisher	VMware\, Inc. (Trusted certificate)
Product	VMware vSAN Witness Appliance
Version	6.7
Vendor	VMware, Inc.
Description	VMware vSAN Witness Appliance
Download size	455.4 MB
Size on disk	Unknown (thin provisioned)
	1.4 TB (thick provisioned)
Extra configuration	svga.maxWidth = 720 svga.maxHeight = 480

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.

VMWARE END USER LICENSE AGREEMENT

PLEASE NOTE THAT THE TERMS OF THIS END USER LICENSE AGREEMENT SHALL GOVERN YOUR USE OF THE SOFTWARE, REGARDLESS OF ANY TERMS THAT MAY APPEAR DURING THE INSTALLATION OF THE SOFTWARE.

IMPORTANT-READ CAREFULLY: BY DOWNLOADING, INSTALLING, OR USING THE SOFTWARE, YOU (THE INDIVIDUAL OR LEGAL ENTITY) AGREE TO BE BOUND BY THE TERMS OF THIS END USER LICENSE AGREEMENT ("EULA"). IF YOU DO NOT AGREE TO THE TERMS OF THIS EULA, YOU MUST NOT DOWNLOAD, INSTALL, OR USE THE SOFTWARE, AND YOU MUST DELETE OR RETURN THE UNUSED SOFTWARE TO THE VENDOR FROM WHICH YOU ACQUIRED IT WITHIN THIRTY (30) DAYS AND REQUEST A REFUND OF THE LICENSE FEE, IF ANY, THAT YOU PAID

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"/> Tiny (10 VMs or fewer)	Description Configuration for Medium vSAN Deployments of up to 500 VMs * 2 vCPUs * 16GB vRAM * 1x 12GB ESXi Boot Disk * 1x 350GB Magnetic Disk * 1x 10GB Solid-State Disk * Maximum of 21K Witness Components
<input checked="" type="radio"/> Medium (up to 500 VMs)	
<input type="radio"/> Large (more than 500 VMs)	
3 Items	

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 (Requires Key Management Server)

Select virtual disk format:

As defined in the VM storage policy ▾

VM Storage Policy:

vSAN Default Storage Policy ▾

Name	Capacity	Provisioned	Free
Storage Compatibility: Compatible			
[Storage Name]	6.55 TB	5.34 TB	5.23 TB
Storage Compatibility: Incompatible			
[Storage Name]	4 GB	192.23 MB	3.81 GB

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
Witness Network	<input type="text"/> v
Management Network	<input type="text"/> v
2 items	

IP Allocation Settings

IP allocation: Static - Manual

IP protocol: IPv4

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

Customize template

Customize the deployment properties of this software solution.

✓ All properties have valid values ✕

Uncategorized	1 settings
Root password	<p>Set password for root account.</p> <p>A valid password must be at least 7 characters long and must contain a mix of upper and lower case letters, digits, and other characters. You can use a 7 character long password with characters from at least 3 of these 4 classes. An upper case letter that begins the password and a digit that ends it do not count towards the number of character classes used.</p> <p>Password <input type="password"/></p> <p>Confirm <input type="password"/></p> <p>Password <input type="password"/></p>

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**

Ready to complete
Click Finish to start creation.

Provisioning type	Deploy from template
Name	[REDACTED]
Template name	VMware-VirtualSAN-Witness-6.7.0. [REDACTED]
Download size	455.4 MB
Size on disk	1.4 TB
Folder	Datacenter
Resource	SCD
Storage mapping	1
All disks	[REDACTED]
Network mapping	2
Witness Network	[REDACTED]
Management Network	[REDACTED]
IP allocation settings	
IP protocol	IPV4
IP allocation	Static - Manual

CANCEL

BACK

FINISH

System Customization

Configure Password
Configure Lockdown Mode

Configure Management Network
Restart Management Network
Test Management Network
Network Restore Options

IPv4 Configuration

This host can obtain network settings automatically if your network includes a DHCP server. If it does not, the following settings must be specified:

Disable IPv4 configuration for management network

Use dynamic IPv4 address and network configuration

Set static IPv4 address and network configuration:

IPv4 Address	[192.168.110.194]
Subnet Mask	[255.255.255.0]
Default Gateway	[192.168.110.100]

<Up/Down> Select <Space> Mark Selected <Enter> OK <Esc> Cancel

DNS Configuration

This host can only obtain DNS settings automatically if it also obtains its IP configuration automatically.

Obtain DNS server addresses and a hostname automatically

Use the following DNS server addresses and hostname:

Primary DNS Server	[172.16.141.2]
Alternate DNS Server	[]
Hostname	[]

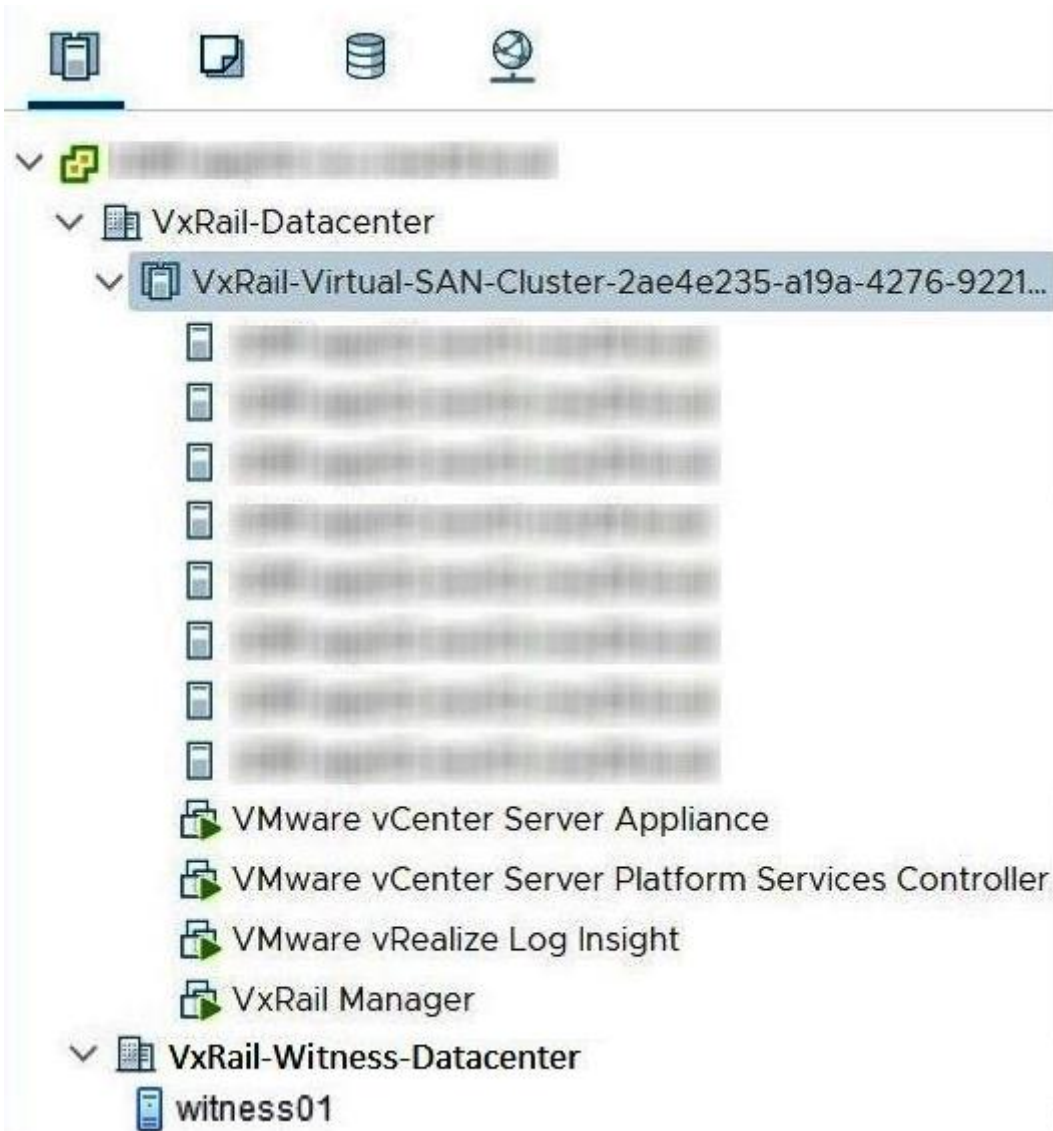
<Up/Down> Select <Space> Mark Selected <Enter> OK <Esc> Cancel

Testing Management Network

You may interrupt the test at any time.

Pinging address #1	192.168.110.100	OK.
Pinging address #2	192.168.110.100	OK.
Pinging address #3	192.168.110.100	OK.
Resolving hostname	192.168.110.100	OK.

<Enter> OK



Summary Monitor **Configure** Permissions VMs Resource Pools Datastores Networks

- Storage
 - Storage Adapters
 - Storage Devices
 - Host Cache Configur...
 - Protocol Endpoints
 - I/O Filters

VMkernel adapters

[Add Networking...](#) [Refresh](#) [Edit...](#) [Remove](#)

Device	Network Label	Switch	IP Address
vmk0	Management N...	vSwitch0	192.168.1.100
vmk1	witnessPg	witnessSwitch	192.168.1.101

vmk1 - Edit Settings

Port properties

IPv4 settings

IPv6 settings

VMkernel port settings

TCP/IP stack Default

MTU 1500

Available services

- Enabled services
- vMotion
 - Provisioning
 - Fault Tolerance logging
 - Management
 - vSphere Replication
 - vSphere Replication NFC
 - vSAN

CANCEL

OK

vmk1 - Edit Settings

Port properties

IPv4 settings

No IPv4 settings

IPv6 settings

Obtain IPv4 settings automatically

Use static IPv4 settings

IPv4 address

Subnet mask

Default gateway Override default gateway for this adapter

DNS server addresses

CANCEL

OK

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

- Services
 - vSphere DRS
 - vSphere Availability
- Configuration
- More
 - Alarm Definitions
 - Scheduled Tasks
- vSAN
 - Services
 - Disk Management
 - Fault Domains**
- VxRail

Fault Domains

Fault domain failures to tolerate	1	
Configuration type	Single site	CONFIGURE STRETCHED CLUSTER

To manage the fault domains, use the Actions menu or drag and drop the host.

+

Click the plus icon or drag and drop here to create new fault domain.

Configure Stretched Cluster

Configure fault domains

Divide the hosts in 2 fault domains that will be used for configuring vSAN stretched cluster.

Preferred domain: Preferred

Secondary domain: Secondary

VxRail nodes deployed at Preferred site.

VxRail nodes deployed at Secondary site.

CANCEL NEXT

Configure Stretched Cluster

Select witness host

Select a host which will store all the witness components for this vSAN Stretched Cluster.

Requirements for witness host:

- Not part of any vSAN enabled cluster
- Have at least one VMkernel adapter with vSAN traffic enabled
- That adapter must be connected to all hosts in the Stretched cluster

Q Search...

Witness: [selected]

Compatibility checks succeeded.

CANCEL BACK NEXT

Configure Stretched Cluster

Claim disks for witness host

Select disks on the witness host to be used for storing witness components.

First, select a single disk to serve as cache tier.

Name	Drive Type	Capacity	Transport Type	Adapter
<input checked="" type="checkbox"/> Local VMware Disk (mpx.vmh...)	Flash	10.00 GB		
<input type="checkbox"/> Local VMware Disk (mpx.vmh...)	Flash	350.00 GB		

2 Items

Then, select one or more disks to serve as capacity tier.

Capacity type: Flash

Name	Drive Type	Capacity	Transport Type	Adapter
<input checked="" type="checkbox"/> Local VMware Disk (mpx.vmh...)	Flash	350.00 GB		

1 Item

CANCEL BACK NEXT

Configure Stretched Cluster Ready to complete ✕

Review your settings selections before finishing the wizard.

1 Configure fault domains
 2 Select witness host
 3 Claim disks for witness host
 4 Ready to complete

Preferred fault domain name: Preferred
 Hosts in preferred fault domain: [blurred]
 Secondary fault domain name: Secondary
 Hosts in secondary fault domain: [blurred]
 Witness host: witness [blurred]
 Claimed cache: 10.00 GB
 Claimed capacity: 350.00 GB

[CANCEL](#) [BACK](#) [FINISH](#)

Summary **Monitor** Configure Permissions Hosts VMs Datastores Networks Updates

▼ Issues and Alarms
 All Issues
 Triggered Alarms

▼ Performance
 Overview
 Advanced

▼ Tasks and Events
 Tasks
 Events

▼ vSphere DRS
 Recommendations
 Faults
 History
 CPU Utilization
 Memory Utilization
 Network Utilization

▼ Resource Allocation
 CPU
 Memory
 Storage
 Utilization
 Storage Overview
 Security

▼ vSAN
 Health

Health (Last checked: [progress bar]) [RETEST](#)

- > ✓ Cluster
- > ✓ Network
- > ✓ Stretched cluster
- ▼ ✓ Data
 - ✓ vSAN object health
- > ✓ Capacity utilization
- > ✓ Physical disk
- > ✓ vSAN Build Recommendation
- > ✓ Hardware compatibility
- > ✓ Online health (Last check: 1 hour(s) ago)
- > ✓ Performance service

Quickstart
 General
 Licensing
 VMware EVC
VM/Host Groups
 VM/Host Rules
 VM Overrides
 Host Options
 Host Profile
 I/O Filters
 More
 Alarm Definitions
 Scheduled Tasks
 vSAN
 Services
 Disk Management
 Fault Domains

Create VM/Host Group

Name: Preferred Site

Type: Host Group

+ Add... - Remove

Members

📄	VM/Host Group
📄	VM/Host Group
📄	VM/Host Group
📄	VM/Host Group

CANCEL OK

ACTIONS

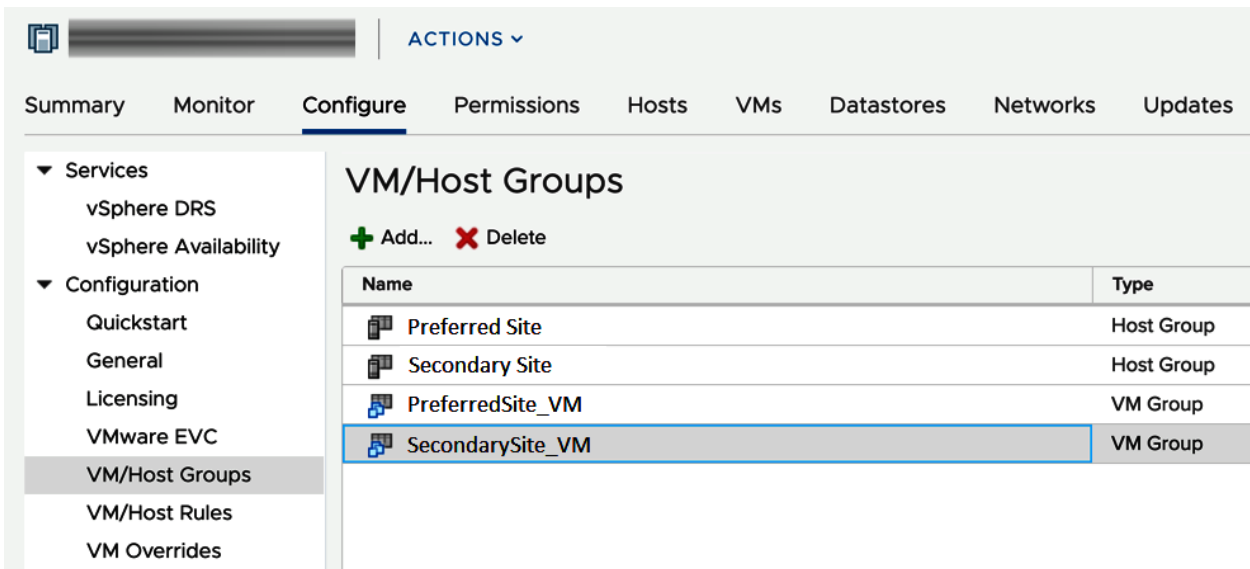
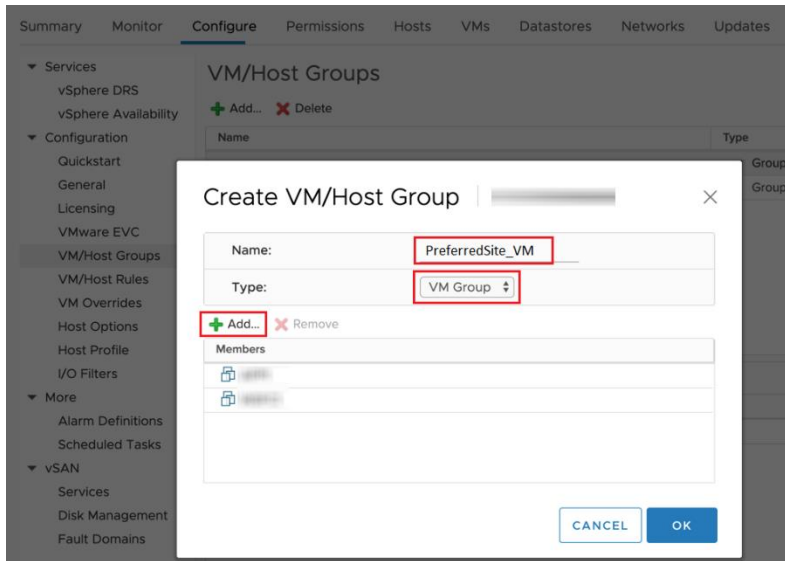
Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

Services
 vSphere DRS
 vSphere Availability
 Configuration
 Quickstart
 General
 Licensing
 VMware EVC
VM/Host Groups
 VM/Host Rules
 VM Overrides
 Host Options

VM/Host Groups

+ Add... - Delete

Name	Type
📄 Preferred Site	Host Group
📄 Secondary Site	Host Group



Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

Services
vSphere DRS
vSphere Availability

Configuration
Quickstart
General
Licensing
VMware EVC
VM/Host Groups
VM/Host Rules
VM Overrides
Host Options
Host Profile
I/O Filters

More
Alarm Definitions
Scheduled Tasks

vSAN
Services
Disk Management
Fault Domains

VM/Host Rules

[+ Add...](#) [Edit...](#) [Delete](#)

Create VM/Host Rule

Name: Enable rule.

Type:

Description:
Virtual machines that are members of the Cluster VM Group SiteAVMs should run on host group HostsSiteA.

VM Group:

Host Group:

ACTIONS

Summary Monitor **Configure** Permissions Hosts VMs Datastores Networks Updates

Services
vSphere DRS
vSphere Availability

Configuration
Quickstart
General
Licensing
VMware EVC
VM/Host Groups
VM/Host Rules
VM Overrides
Host Options

VM/Host Rules

[+ Add...](#) [Edit...](#) [Delete](#)

Name	Type	Enabled	Conflicts
ShouldRunPreferred	Run VMs on Hosts	Yes	0
ShouldRunSecondary	Run VMs on Hosts	Yes	0

Edit Cluster Settings



vSphere HA

Failures and responses

Admission Control

Heartbeat Datastores

Advanced Options

Admission control is a policy used by vSphere HA to ensure failover capacity within a cluster. Raising the number of potential host failures will increase the availability constraints and capacity reserved.

Host failures cluster tolerates

Define host failover capacity by

Cluster resource Percentage

Override calculated failover capacity.

Reserved failover CPU capacity: % CPU

Reserved failover Memory capacity: % Memory

Performance degradation VMs tolerate %

Percentage of performance degradation the VMs in the cluster are allowed to tolerate during a failure. 0% - Raises a warning if there is insufficient failover capacity to guarantee the same performance after VMs restart. 100% - Warning is disabled.

CANCEL

OK

Edit Cluster Settings



vSphere HA

Failures and responses

Admission Control

Heartbeat Datastores

Advanced Options

You can set advanced options that affect the behavior of your vSphere HA cluster.

+ Add Delete

Option	Value
das.isolationaddress0	192.168.1.10
das.isolationaddress1	192.168.1.11
das.usedefaultisolationaddress	false

3 items

CANCEL

OK

vSAN

Availability

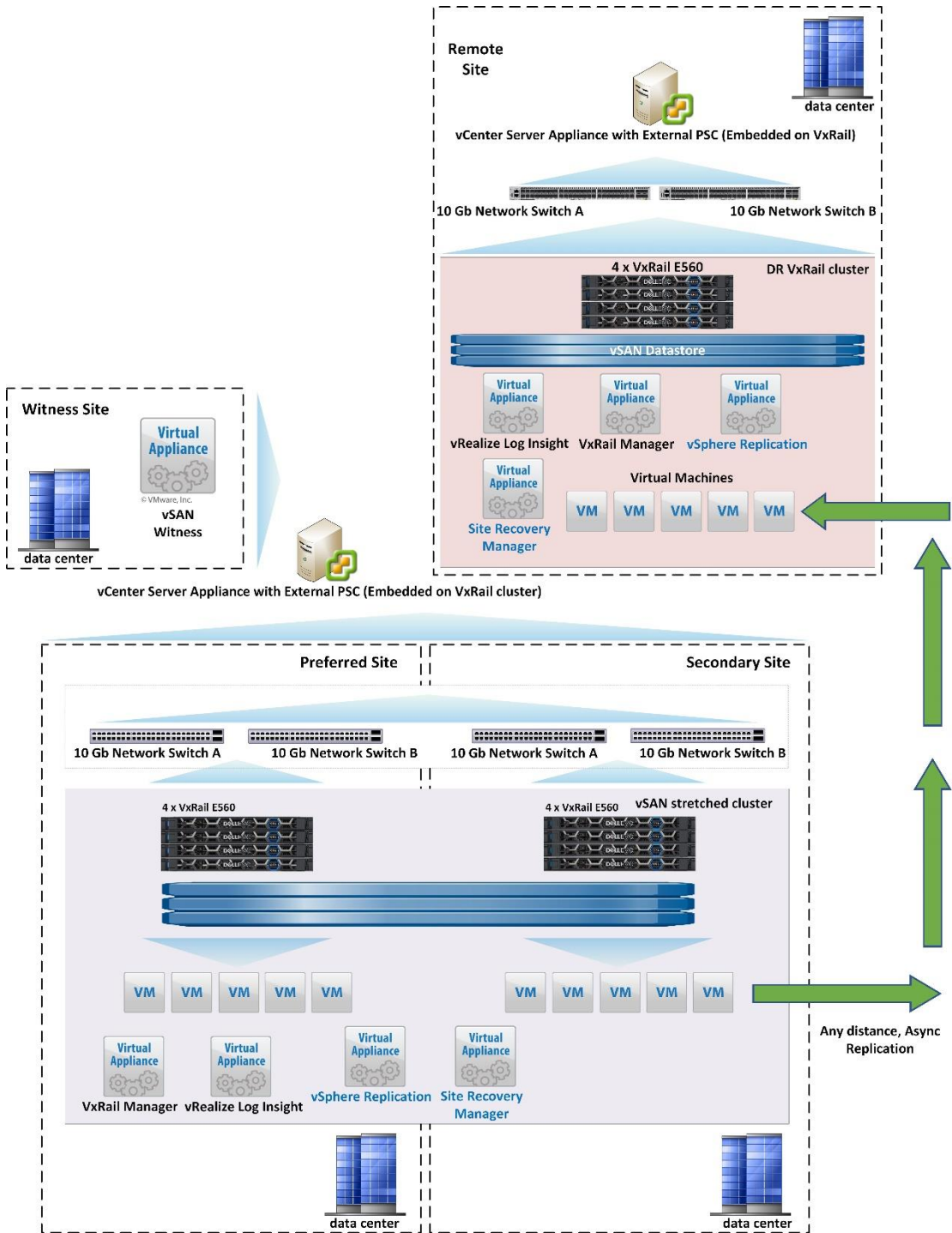
Advanced Policy Rules

Tags

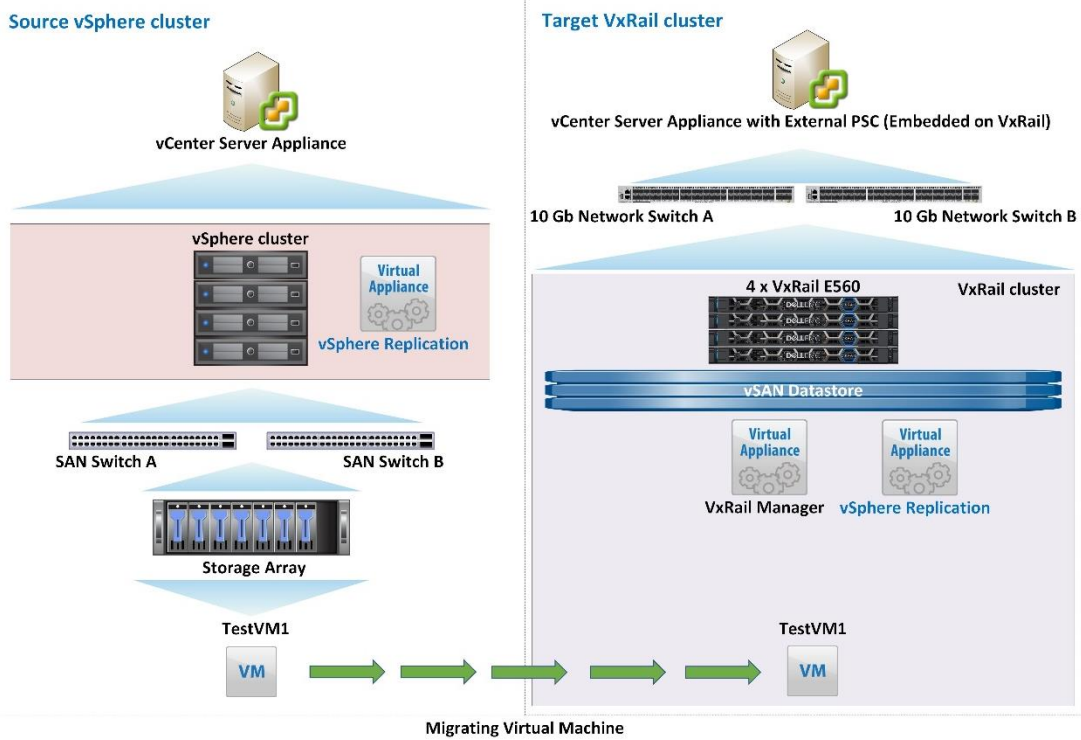
Site disaster tolerance ⓘ Dual site mirroring (stretched cluster) ▾

Failures to tolerate ⓘ 1 failure - RAID-1 (Mirroring) ▾

Consumed storage space for 100 GB VM disk would be 200 GB



Chapter 10: Migrating Virtual Machines into VxRail.



vmw Site Recovery Menu

NEW SITE PAIR

Source vCenter Server ↔ Target vCenter Server

vSphere Replication

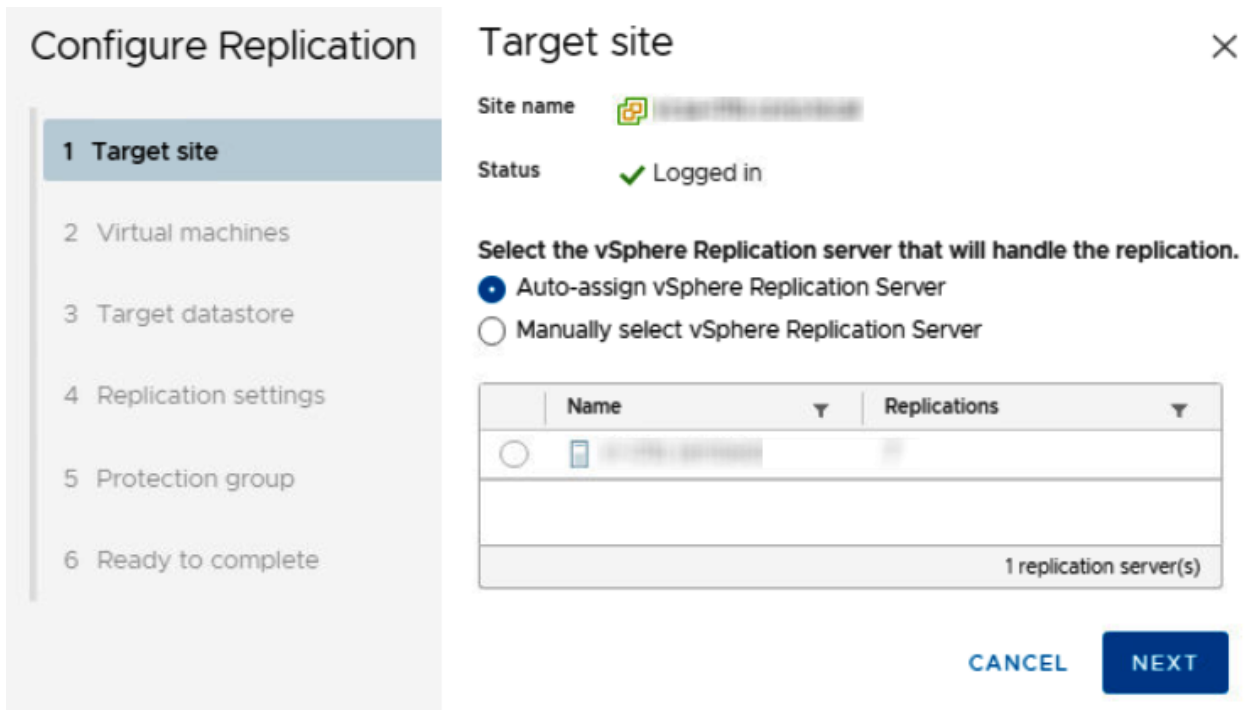
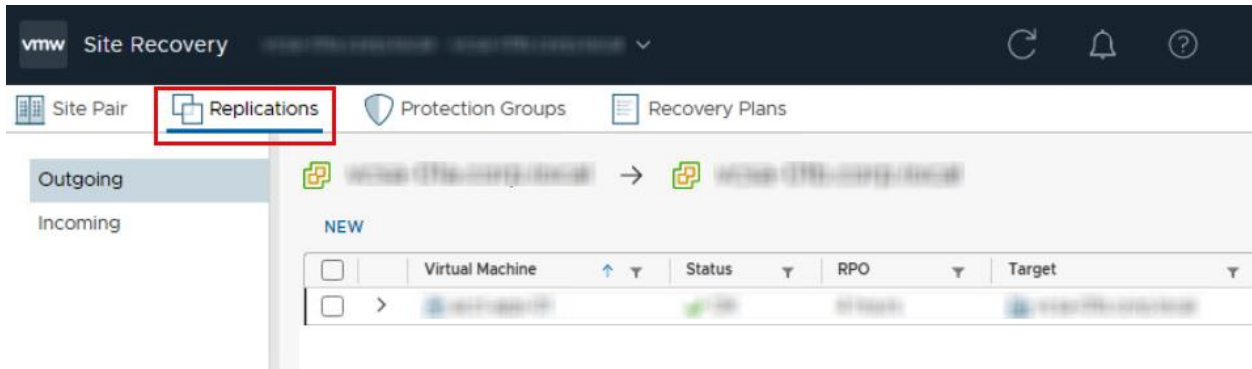
Outgoing 0 Incoming 0

VIEW DETAILS ACTIONS

Replications within the same vCenter Server

- Source VR Appliance
- Target VR Appliance

VIEW DETAILS



Configure Replication

Virtual machines



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

1 Target site

2 Virtual machines

3 Target datastore

4 Replication settings

5 Protection group

6 Ready to complete

All Selected (1)

<input type="checkbox"/>	Name	VM Folder	Compute Resource
<input type="checkbox"/>	TestVM1	TestVM1	TestVM1
<input type="checkbox"/>	TestVM2	TestVM2	TestVM2
<input type="checkbox"/>	TestVM3	TestVM3	TestVM3
<input type="checkbox"/>	TestVM4	TestVM4	TestVM4
<input type="checkbox"/>	TestVM5	TestVM5	TestVM5

1 5 VM(s)

CANCEL

BACK

NEXT

Configure Replication - TestVM1

Target datastore



Select a datastore for the replicated files.

Configure datastore per disk

Virtual machine 'TestVM1' is currently using 9.08 GB.

Disk format: Same as source

VM storage policy: Datastore Default

Name	Capacity	Free	Type
TestVM1-Datastore	10 GB	10 GB	VMFS
TestVM1-Datastore	10 GB	10 GB	VMFS
TestVM1-Datastore	10 GB	10 GB	VMFS
TestVM1-Datastore	10 GB	10 GB	VMFS
TestVM1-Datastore	10 GB	10 GB	VMFS
TestVM1-Datastore	10 GB	10 GB	VMFS
TestVM1-Datastore	10 GB	10 GB	VMFS
TestVM1-Datastore	10 GB	10 GB	VMFS

Select seeds

CANCEL

BACK

NEXT

Configure Replication - TestVM1

Replication settings



Configure the replication settings for the virtual machine.

Recovery point objective (RPO)



Enable point in time instances

Instances per day 3

Days 5

Keep 3 instances per day for the last 5 days.

If the RPO period is longer than 8 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

Configure Replication - TestVM1

- 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 - TestVM1

- 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	192.168.1.100
Replication server	Auto-assign
VM storage policy	Default Storage Policy
Target datastore	192.168.1.100
Quiescing	Disabled
Network compression	Disabled
Encryption	Disabled
Recovery point objective	1 hour
Points in time recovery	Disabled
Protection group	none

CANCEL

BACK

FINISH

vmware (176.10.100.10) → vmware (176.10.100.10) Learn more

Source vCenter Target vCenter

NEW

Virtual Machine	Status	RPO	Target	Replication Server	Protection
TestVM1	Initial Sync	1 hour	vmware (176.10.100.10)	176.10.100.10	

Configured disks: 1 of 1 Last instance sync point: No instances
 Managed by: VR Last sync duration:
 Quiescing: Disabled Last sync size:
 Network compression: Disabled Lag time:
 Encryption: Disabled RPO: 1 hour
 Datastore: Points in time: Disabled
 Storage policy: Replica disk usage: 5 GB

vmware (176.10.100.10) → vmware (176.10.100.10) Learn more

Source vCenter Target vCenter

NEW

Virtual Machine	Status	RPO	Target	Replication Server	Protection
TestVM1	OK	1 hour	vmware (176.10.100.10)	176.10.100.10	

Configured disks: 1 of 1 Last instance sync point: Mar 4, 2021, 6:52:50 AM
 Managed by: VR Last sync duration: 1 second
 Quiescing: Disabled Last sync size: 0 Bytes
 Network compression: Disabled Lag time: 22 seconds
 Encryption: Disabled RPO: 1 hour
 Datastore: Points in time: Disabled
 Storage policy: Replica disk usage: 5 GB

vmware Site Recovery

Site Pair Replications Protection Groups Recovery Plans

Outgoing Incoming

Target vCenter Source vCenter Learn more

NEW RECONFIGURE PAUSE RESUME REMOVE SYNC NOW RECOVER

Virtual Machine	Status	RPO	Source	Replication Server	Protection
TestVM1	OK	1 hour	vmware (176.10.100.10)	176.10.100.10	

Configured disks: 1 of 1 Last instance sync point: Mar 4, 2021, 6:52:50 AM
 Managed by: VR Last sync duration: 1 second
 Quiescing: Disabled Last sync size: 0 Bytes
 Network compression: Disabled Lag time: 2 minutes and 56 seconds
 Encryption: Disabled RPO: 1 hour
 Datastore: Points in time: Disabled
 Storage policy: Replica disk usage: 5 GB

Recover virtual machine

Recovery options

- Synchronize recent changes
Perform synchronization with the latest data from the source machine. Use this option if the source virtual machine is accessible. Requires login to the remote site.
- Use latest available data
Skip data synchronization and use latest replication data on the target site. Use this option if the source site is not available or the disks of the source virtual machine are corrupted.
- Power on the virtual machine after recovery.

Points in time recovery
There are 1 currently retained instances that will be converted to snapshots during recovery.

CANCEL NEXT

Recover virtual machine

Folder

Specify a folder for this VM at the recovery site

- vcasa
- > [Folder]

CANCEL BACK NEXT

Recover virtual machine

Resource

Specify resource for this VM at the recovery site

- Source Data center
- > Source VxRail cluster

CANCEL BACK NEXT

Recover virtual machine

Ready to complete



1 Recovery options

2 Folder


3 Resource

4 Ready to complete

Review your selected settings.

The network devices of the recovered virtual machine will be disconnected.

The latest available replication data on the target site is used for recovery. No synchronization is performed.



Protected site	vcsa- 	Source vCenter
Recovery site	vcsa- 	Target vCenter
Recovery folder	Discovered virtual machine	
Recovery host		Recovered ESXi host



CANCEL

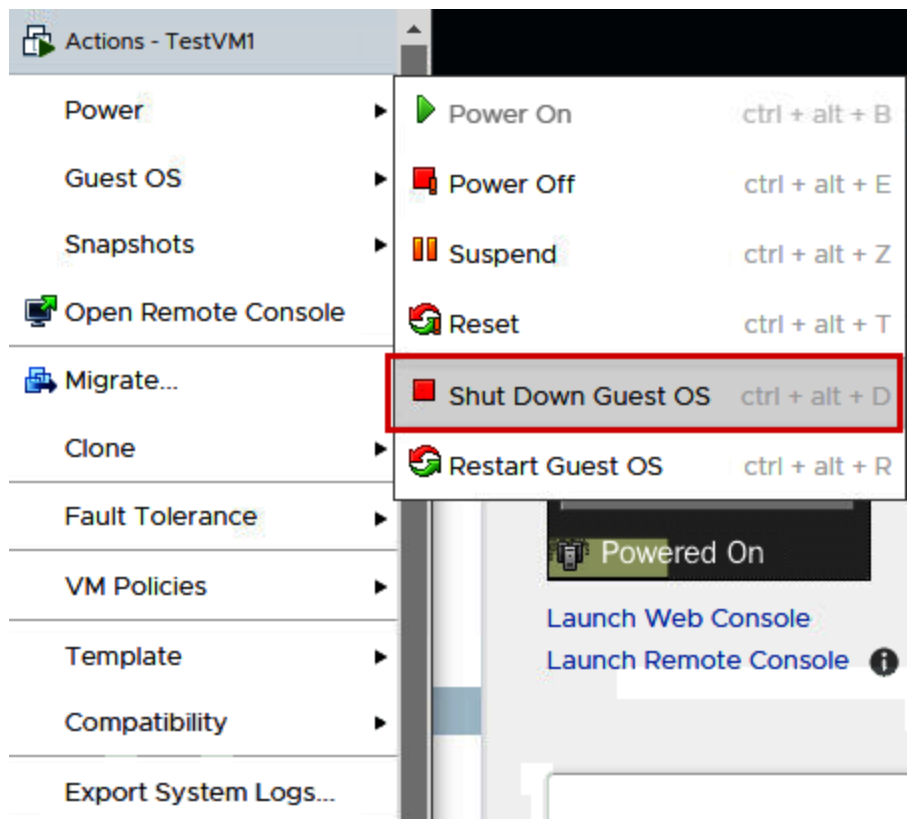
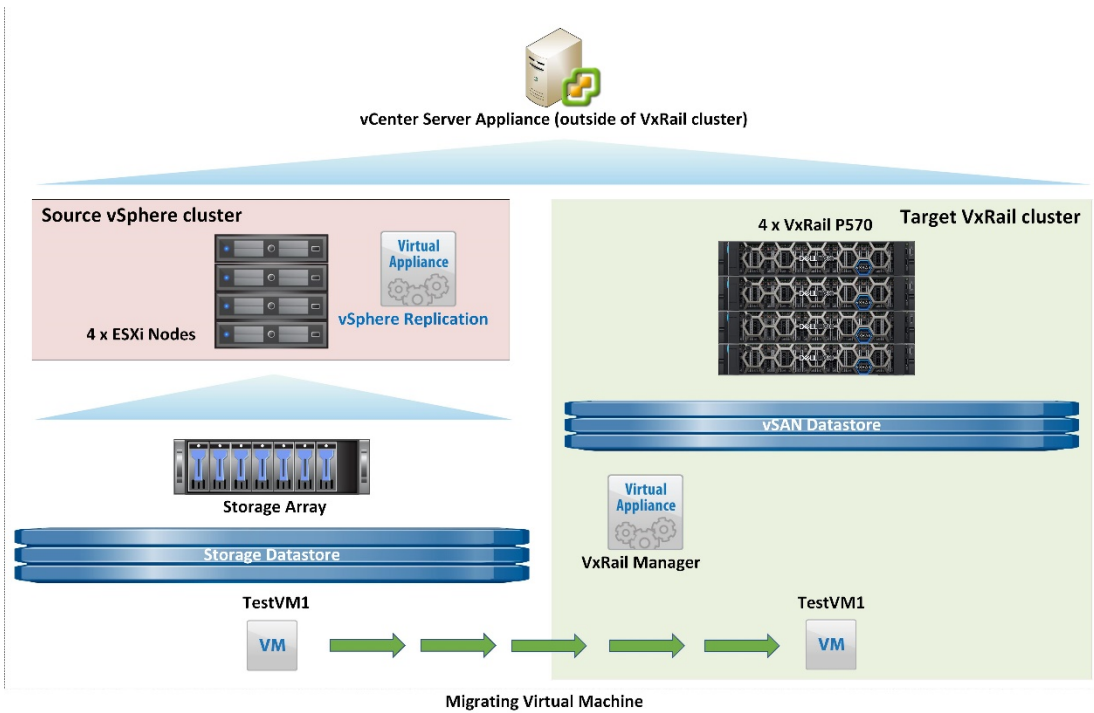
BACK

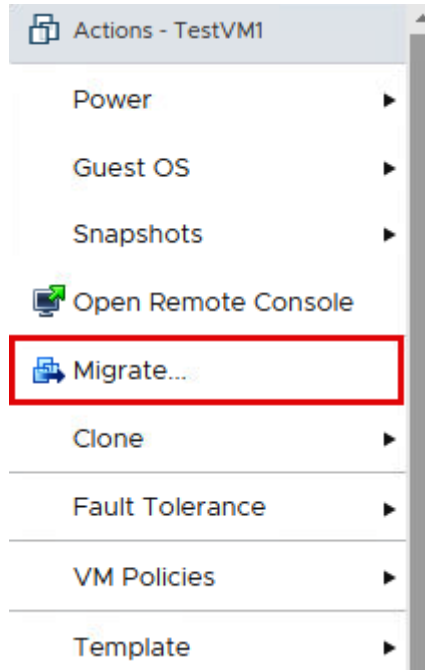
FINISH

The screenshot shows the vSphere interface with two vCenter instances: 'Target vCenter' and 'Source vCenter'. A table lists the replication details for a VM named 'TestVM1'. The 'Status' column is highlighted with a red box and shows 'Recovered' with a green checkmark icon. Below the table, detailed replication statistics are provided.

Virtual Machine	Status	RPO	Source	Replication Server
TestVM1	Recovered	1 hour		

Configured disks:	1 of 1	Last instance sync point:	Mar 4, 2021, 6:52:50 AM
Managed by:	VR	Last sync duration:	1 second
Quiescing:	Disabled	Last sync size:	0 Bytes
Network compression:	Disabled	Lag time:	4 minutes and 32 seconds
Encryption:	Disabled	RPO:	1 hour
Datastore:		Points in time:	Disabled
Storage policy:		Replica disk usage:	0 Bytes





TestVM1 - Migrate

1 Select a migration type

2 Select a compute resource

3 Select storage

4 Select networks

5 Ready to complete

Select a migration type

Change the virtual machines' compute resource, storage, or both.

VM origin ⓘ

Change compute resource only

Migrate the virtual machines to another host or cluster.

Change storage only

Migrate the virtual machines' storage to a compatible datastore or datastore cluster.

Change both compute resource and storage

Migrate the virtual machines to a specific host or cluster and their storage to a specific datastore or datastore cluster.

CANCEL

BACK

NEXT

TestVM1 - Migrate

✓ 1 Select a migration type

2 Select a compute resource

3 Select storage

4 Select networks

5 Ready to complete

Select a compute resource VM origin ⓘ

Select a cluster, host, vApp or resource pool to run the virtual machines.

▼ vc. [redacted]

▼ VxRail-Datacenter

 > VxRail-Virtual-SAN-Cluster- [redacted]

 > [redacted]

Compatibility

✓ Compatibility checks succeeded.

CANCEL BACK NEXT

TestVM1 - Migrate

✓ 1 Select a migration type

✓ 2 Select a compute resource

3 Select storage

4 Select networks

5 Ready to complete

Select storage VM origin ⓘ

Select the destination storage for the virtual machine migration.

Select virtual disk format: Configure per disk

As defined in the VM storage policy ▼

VM Storage Policy: Keep existing VM storage policies ▼

Name	Capacity	Provisioned	Free	Type
Storage Compatibility: Compatible				
VxRail-Virtual-SAN-Datas...	399.96 GB	438.18 GB	318.73 GB	Virt
Storage Compatibility: Incompatible				
[redacted]	[redacted]	[redacted]	14.63 GB	VM
[redacted]	[redacted]	[redacted]	14.63 GB	VM
[redacted]	[redacted]	[redacted]	14.63 GB	VM

Compatibility

✓ Compatibility checks succeeded.

CANCEL BACK NEXT

TestVM1 - Migrate

- ✓ 1 Select a migration type
- ✓ 2 Select a compute resource
- ✓ 3 Select storage
- 4 Select networks**
- 5 Ready to complete

Select networks

VM origin ⓘ

Select destination networks for the virtual machine migration.

Migrate VM networking by selecting a new destination network for all VM network adapters attached to the same source network.

Source Network	Used By	Destination Network
Virtual SAN-8596e7aa-9...	1 VMs / 1 Network adapters	Virtual SAN-8596e7aa-9...

ADVANCED >>

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT

TestVM1 - Migrate

- ✓ 1 Select a migration type
- ✓ 2 Select a compute resource
- ✓ 3 Select storage
- ✓ 4 Select networks
- 5 Ready to complete**

Ready to complete

VM origin ⓘ

Verify that the information is correct and click Finish to start the migration.

Migration Type	Change compute resource and storage
Virtual Machine	TestVM1
Cluster	Virtual SAN-8596e7aa-9... VxRail Cluster
Storage	VxRail-Virtual-SAN-Datastore-... vSAN Datastore
VM storage policy	vSAN Default Storage Policy
Disk Format	As defined in the VM storage policy
Networks	Virtual SAN-8596e7aa-9...

CANCEL

BACK

FINISH

