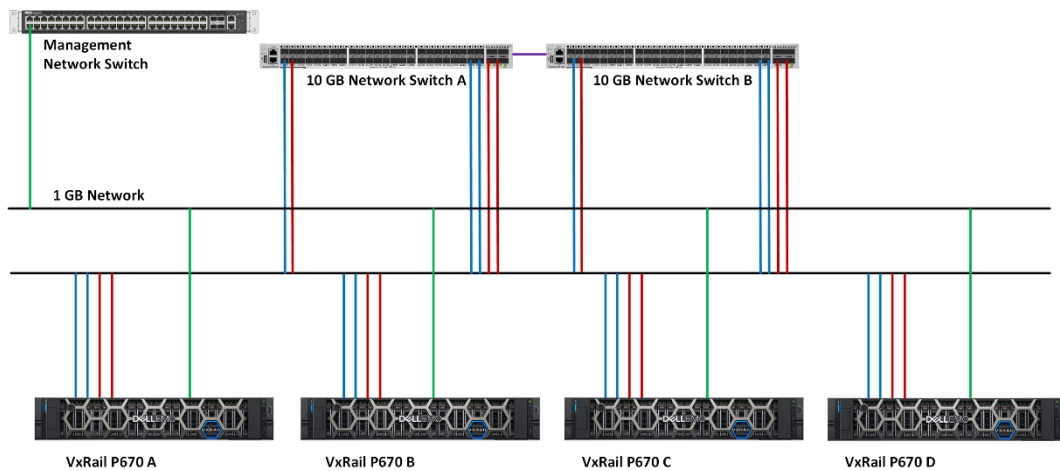


Chapter 1: Overview of VxRail Appliance 7.x System

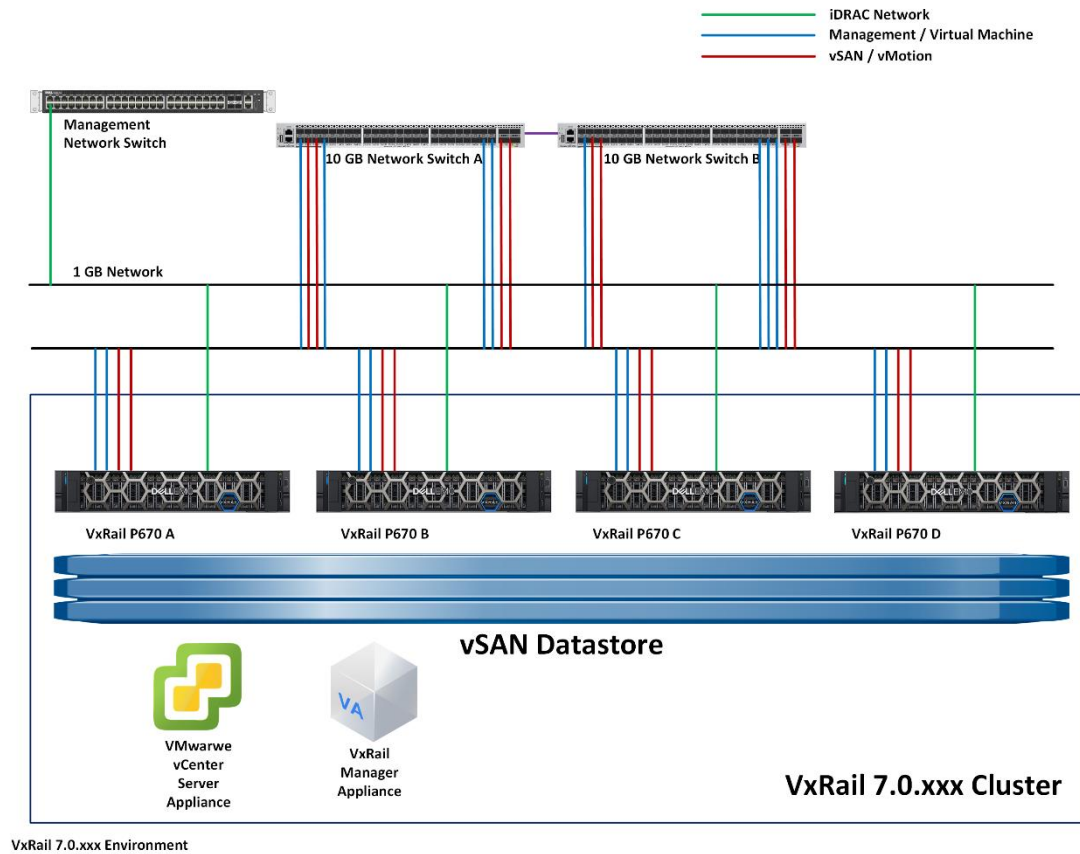




- iDRAC Network
- Management / Virtual Machine
- vSAN / vMotion



VxRail 7.0.xxx Environment



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. [i](#)

Configure VxRail

Configure the VxRail cluster.

GET STARTED



Dell EMC VxRail Deployment Wizard

- 1 Welcome
- 2 End User License Agreement
- 3 Cluster Type
- 4 Resources
- 5 Network Confirmation

Cluster Type

Specify the type of VxRail cluster that is being configured.

VxRail Cluster Type [?](#)

- ☒ Standard Cluster (3 or more hosts) ☐ vSAN 2-Node Cluster (2 hosts only)
☐ Dynamic Node Cluster (2 or more hosts)

Storage Type [?](#)

- ☒ Standard vSAN ☐ Fibre Channel Array ☐ vSAN HCI Mesh

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

Services [v](#)

- vSphere DRS
- vSphere Availability

Configuration [>](#)

Licensing [>](#)

- Trust Authority
- Alarm Definitions
- Scheduled Tasks

vSAN [>](#)

VxRail [v](#)

System

- Updates
- Certificate
- Market
- Add VxRail Hosts
- Hosts

System



VxRail

Version: 7.0.100-26719865

Installed On Mar 15, 2021, 10:53:54 PM

About VxRail [?](#)

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

Convert vCenter Mode

Create VM Storage Policy

1 Name and description

2 Policy structure

3 vSAN

4 Storage compatibility

5 Review and finish

vSAN

Availability

Storage rules

Advanced Policy Rules

Tags

Encryption services ⓘ

☒ Data-At-Rest encryption

☐ No encryption

☐ No preference

Space efficiency ⓘ

☐ Deduplication and compression

☒ Compression only

☐ No space efficiency

☐ No preference

Storage tier ⓘ

☒ All flash

☐ Hybrid

☐ No preference

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

Services

vSphere DRS

vSphere Availability

Configuration

Licensing

Trust Authority

Alarm Definitions

Scheduled Tasks

vSAN

VxRail

System

Updates

Certificate

Market

Add VxRail Hosts

Hosts

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-XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX

Cluster Size: 3 hosts

Service Tag	PSNT	Model	Compatible
XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	VxRail E560F	Compatible

1 hosts discovered. 64 hosts allowed per cluster.

Summary

Monitor

Configure

Permissions

Hosts

VMs

Datastores

Networks

Updates

Services

vSphere DRS

vSphere Availability

Configuration

Licensing

Trust Authority

Alarm Definitions

Scheduled Tasks

vSAN

VxRail

System

Updates

SYSTEMINTERNET UPDATESLOCAL UPDATES

Current VxRail System Version

7.0.100-26719865

Installed On

Mar 15, 2021, 10:53:54 PM

Installed Components and Versions

VxRail Manager 7.0.100-26719865

VMware vCenter Server Appliance 7.0.1-16858589

Dell PTAgent 2.2.0.32-DEL.701.0.0.16555998

VxRail Manager VIB 7.0.100-16913405

VMware ESXi 7.0.1-16850804

Feature Comparison

	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
3 rd party collaborative assistance		●	●
Self-service case initiation and management		●	●
Access to software updates		●	●
Proactive storage health monitoring, predictive analytics and anomaly detection with CloudIQ and the CloudIQ mobile app		●	●
Priority access to specialized support experts			●
Predictive detection of hardware failures			●
3 rd party software support			●
An assigned Service Account Manager			●
Proactive, personalized assessments and recommendations			●
Proactive systems maintenance			●

↻
?
Administrator@VSPHERE.LOCAL
😊

Shortcuts

Inventories

Hosts and Clusters

VMs and Templates

Storage

Networking

Content Libraries

Global Inventory Lists

Workload Management

DRaaS

Monitoring

Task Console

Event Console

VM Customization Specifications

VM Storage Policies

Host Profiles

Lifecycle Manager

VxRail

VxRail is Ready to Update Your Cluster

Minimum estimated update time: 4.8 hours. During the upgrade, some features, such as "Add drives" and "Add hosts" will not be available.

CONTINUE UPD...

CANCEL UPDATE

- ⚠ This update requires host reboot.
- ⚠ 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.
- ⚠ Note that GPU hardware compatibility may be different for the new version of vSphere software. If you have installed a GPU card since the initial cluster configuration, consult with the GPU vendor for compatibility suggestions to ensure support with the version of vSphere software included in the VxRail Appliance software.

Components changed by this update:

VxRail Manager 4.7.310-13900909 (All Platforms) **Reboot Required**

VMware vCenter Server Appliance 6.7.0-13640226 (All Platforms) **Reboot Required**

VxRail Platform Service 4.7.310-13900909 (All Platforms)

ESXi 6.7.0-13708665 (All Platforms) **Reboot Required**

VxRail VIB 4.7.310-13900909 (All Platforms)

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[Support](#)
[Product Support](#)

VxRail Appliance Series

Select a Model

Select one

[Change product](#)

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[Drivers & Downloads](#)
[Documentation](#)
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Access support customized for your product

Enter your Product ID or Service Tag to view contract status, purchase info, and more.

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Quick links

[Identify your product](#)

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VxRail Appliance

- > Networking Procedures
- ✓ VxRail Procedures
 - > Connectivity
 - > Install
 - > Upgrade
 - > Replacement Procedures
 - > Miscellaneous
- > Reference Material
- > VMware Validated Design for VxRail (VVD) Content
- > APEX Cloud Services with VMware Cloud
- > VMware Cloud on Dell EMC VxRail (Dimension)
- > VMware Cloud Foundation for VxRail (VCF) Procedures



Explore the Docs

workstation "change hotkey"



vSphere



NSX-T Data Center



Horizon 8



vRealize Automation



All Products

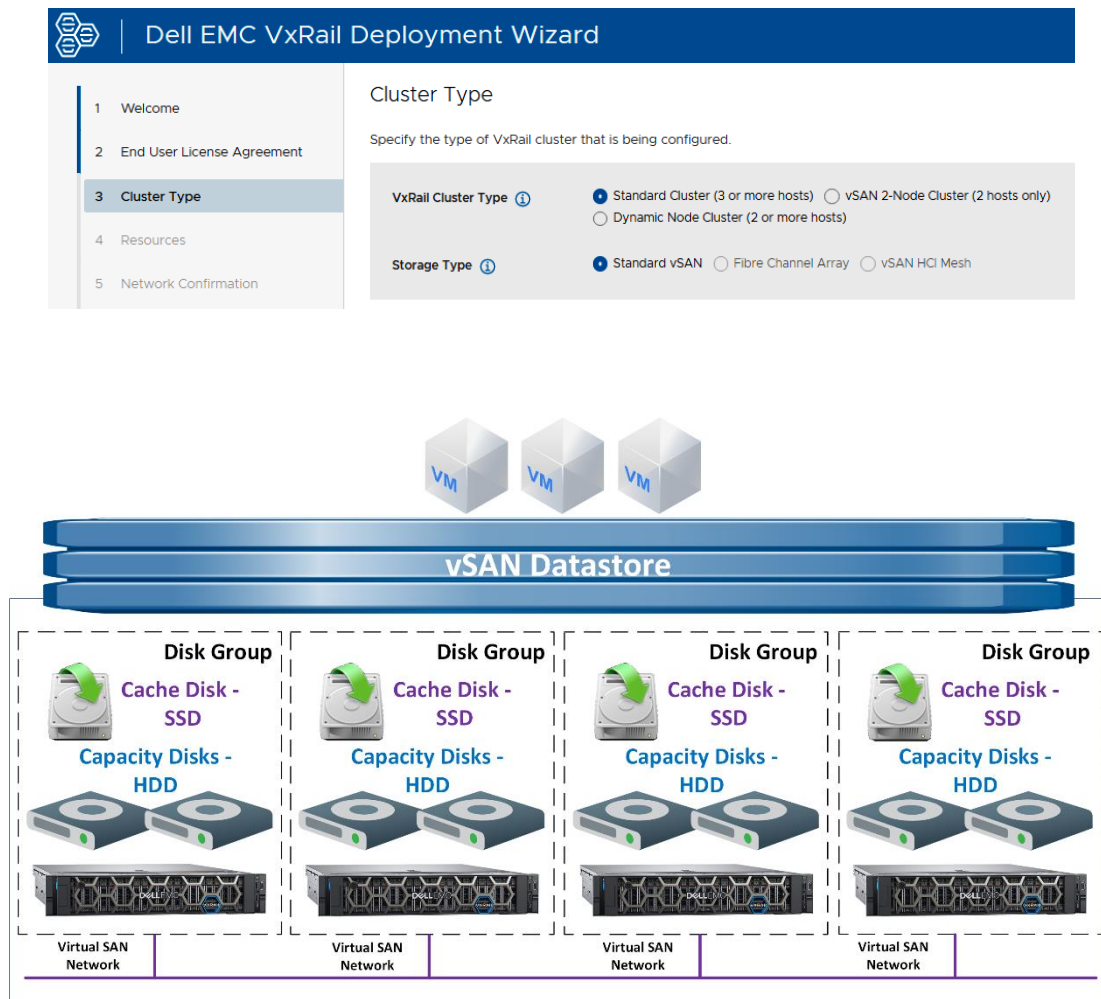


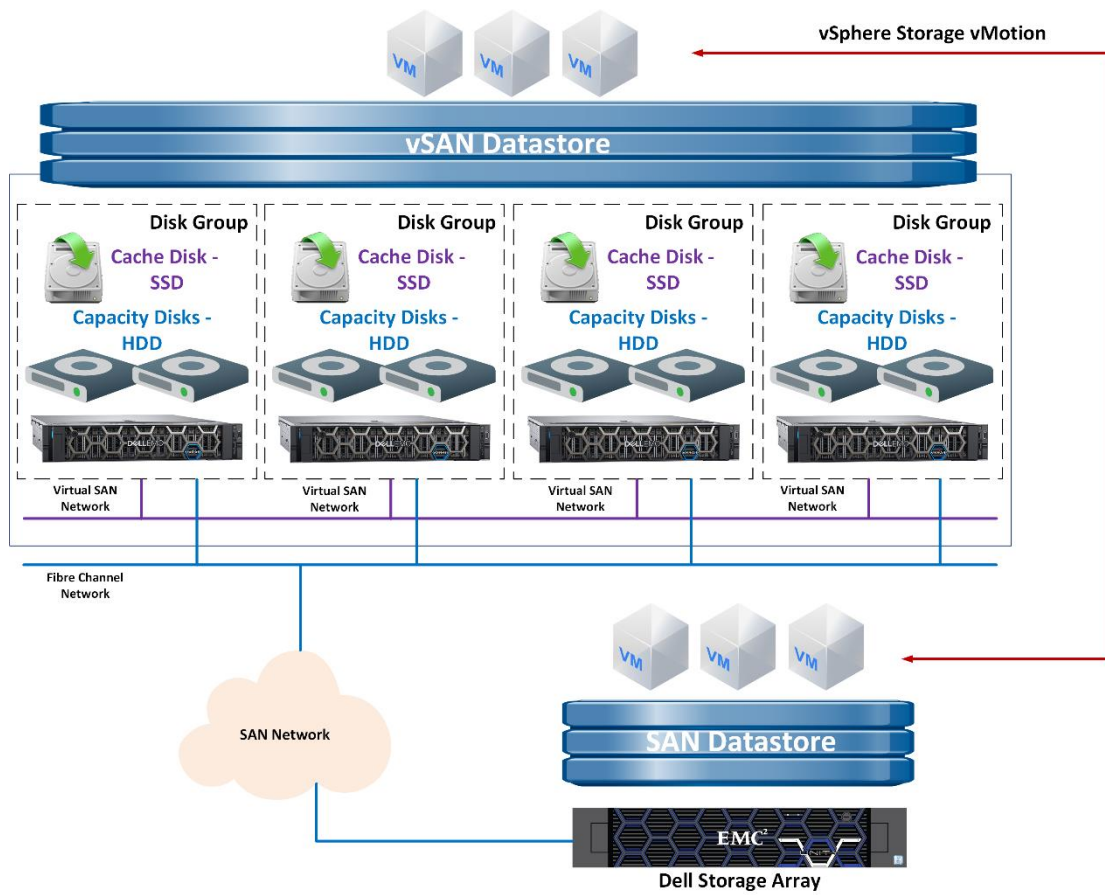
Build Custom Docs

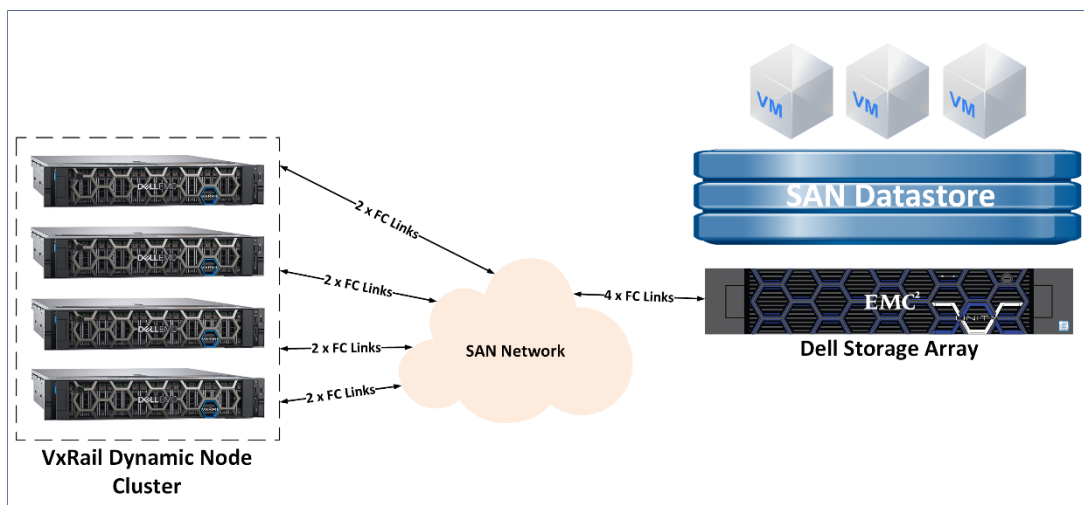
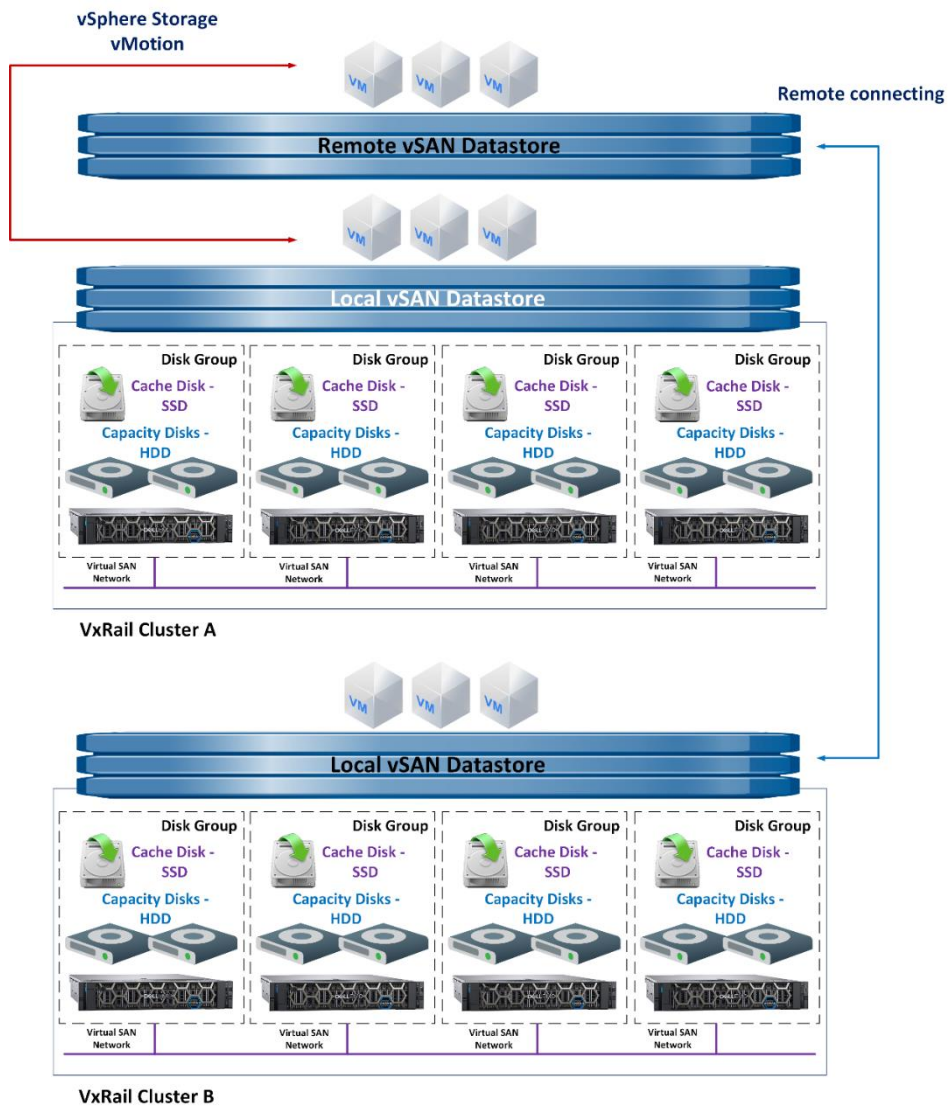


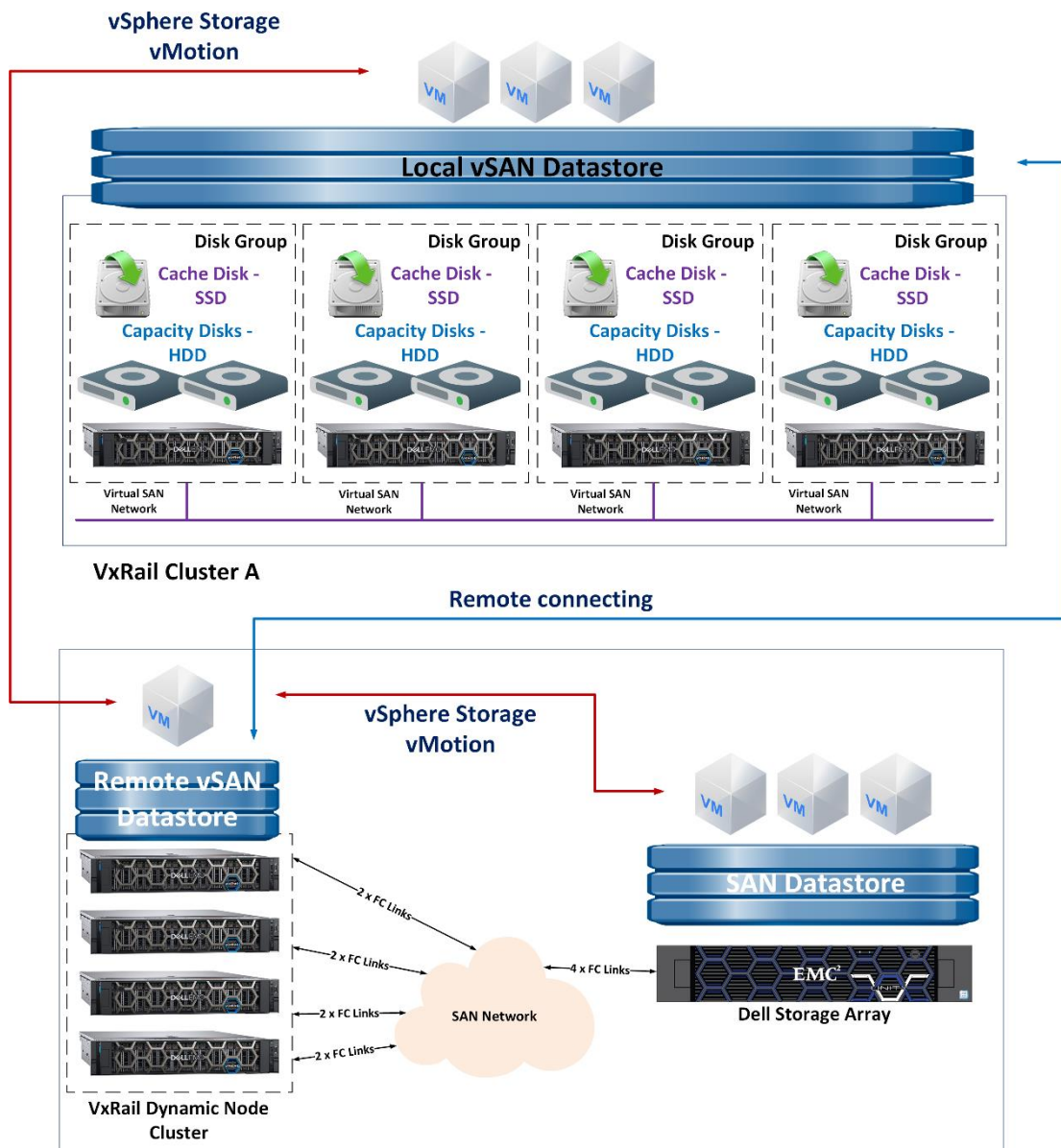
Start using MyLibrary to create, annotate and share topics, KB articles, code samples and more

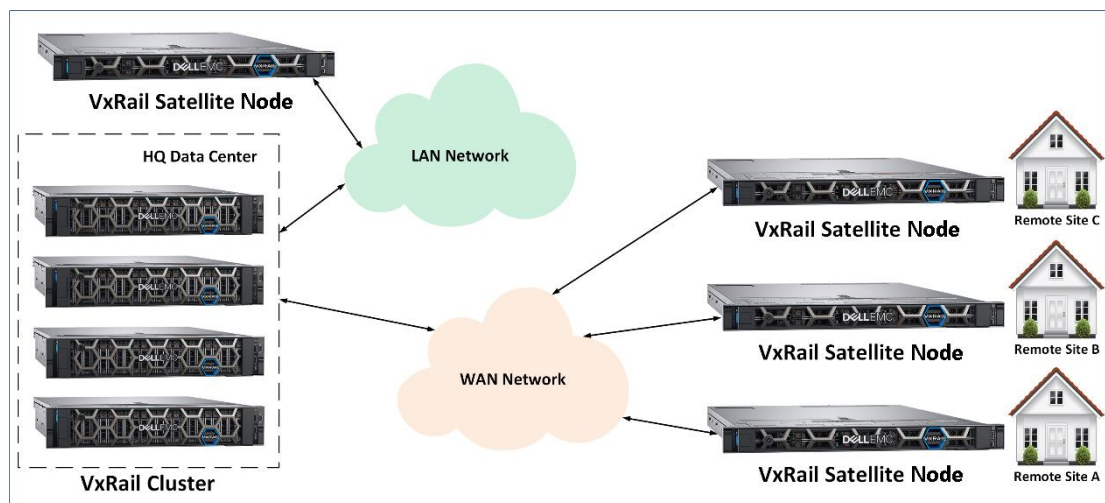
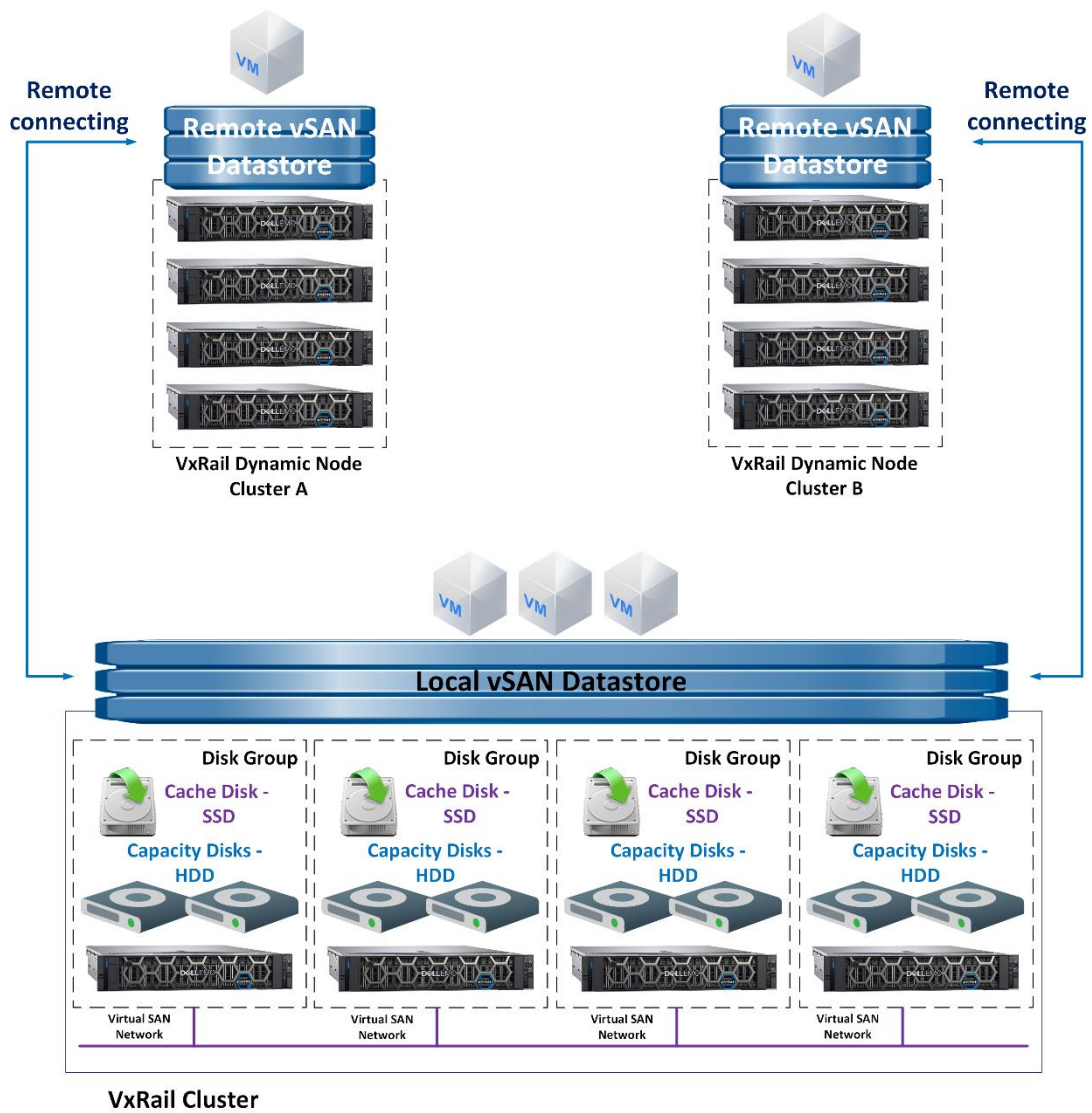
Chapter 2: Benefits of Hyper-Converged Infrastructure

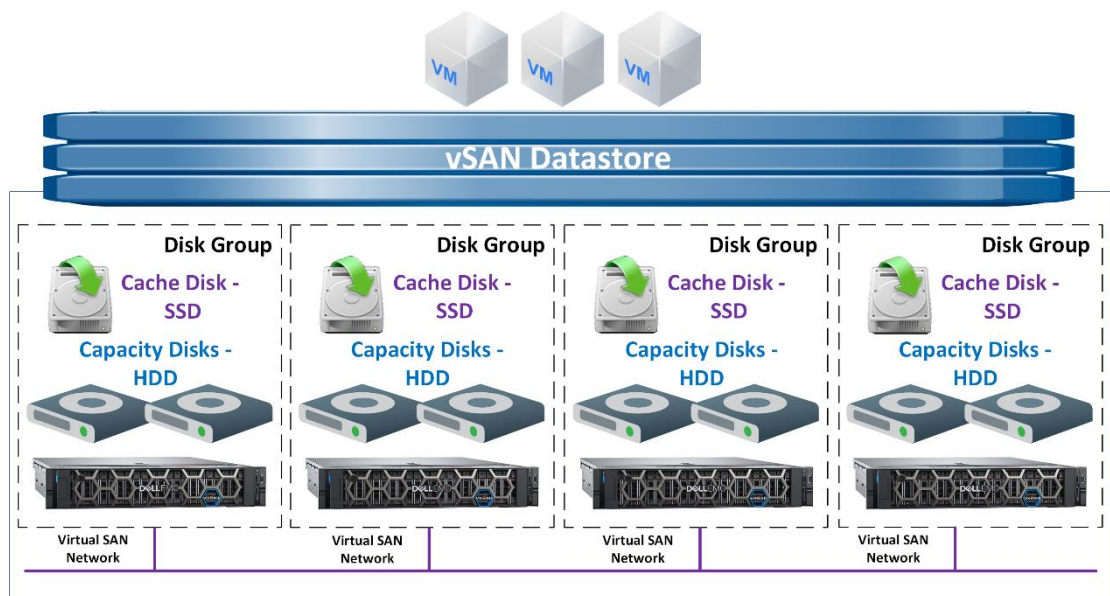
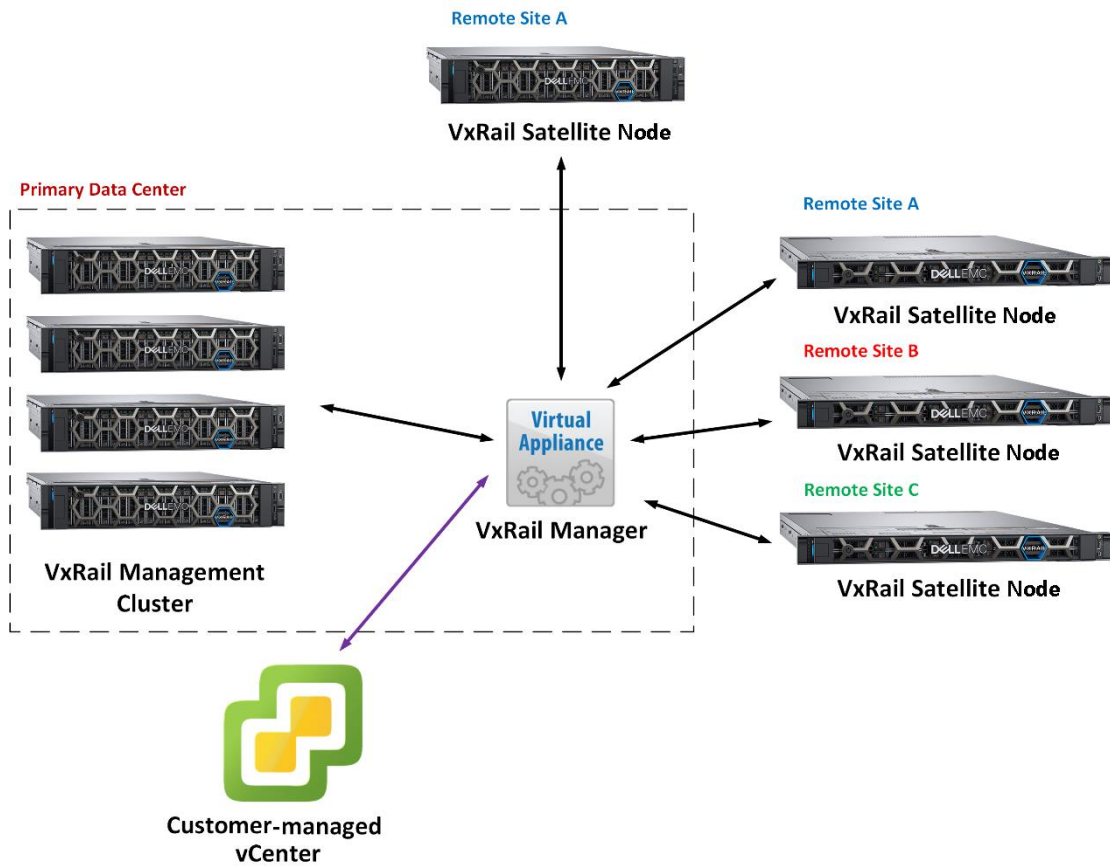


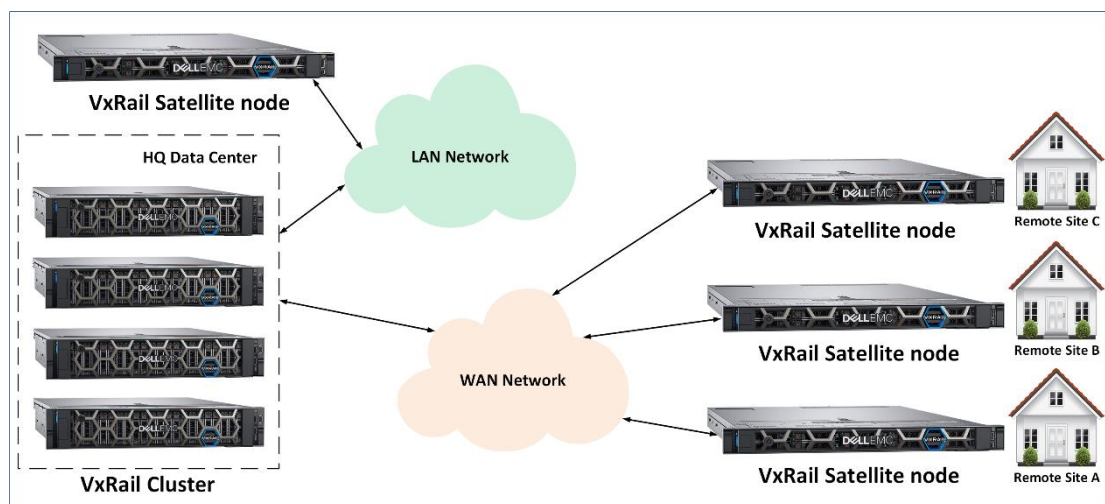
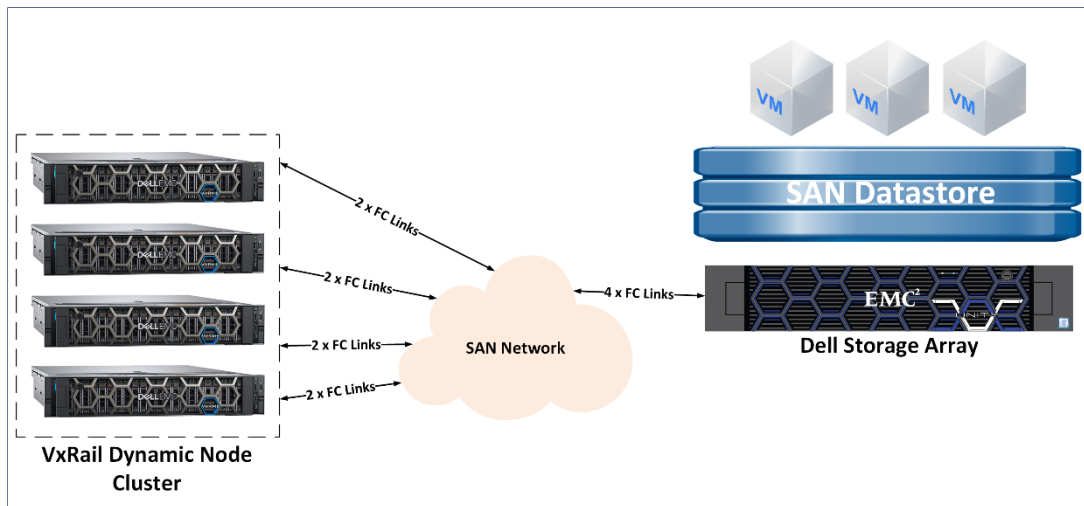


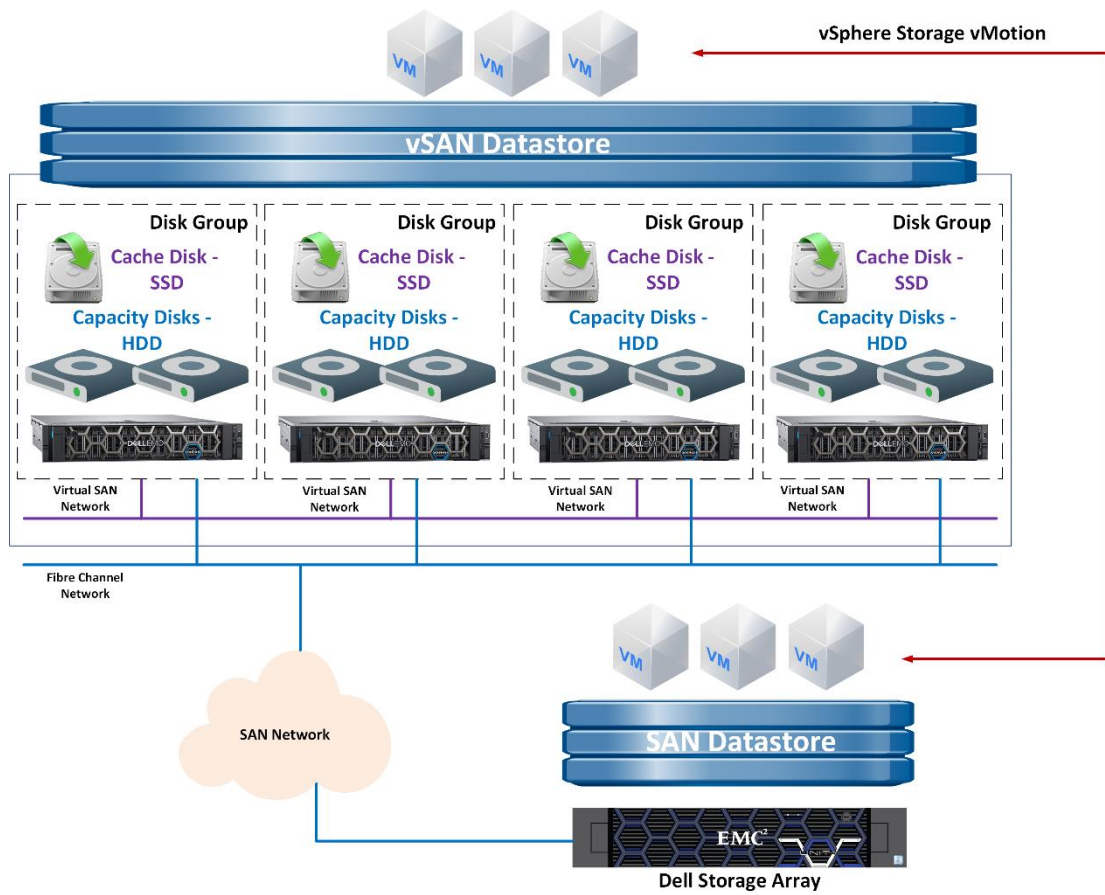


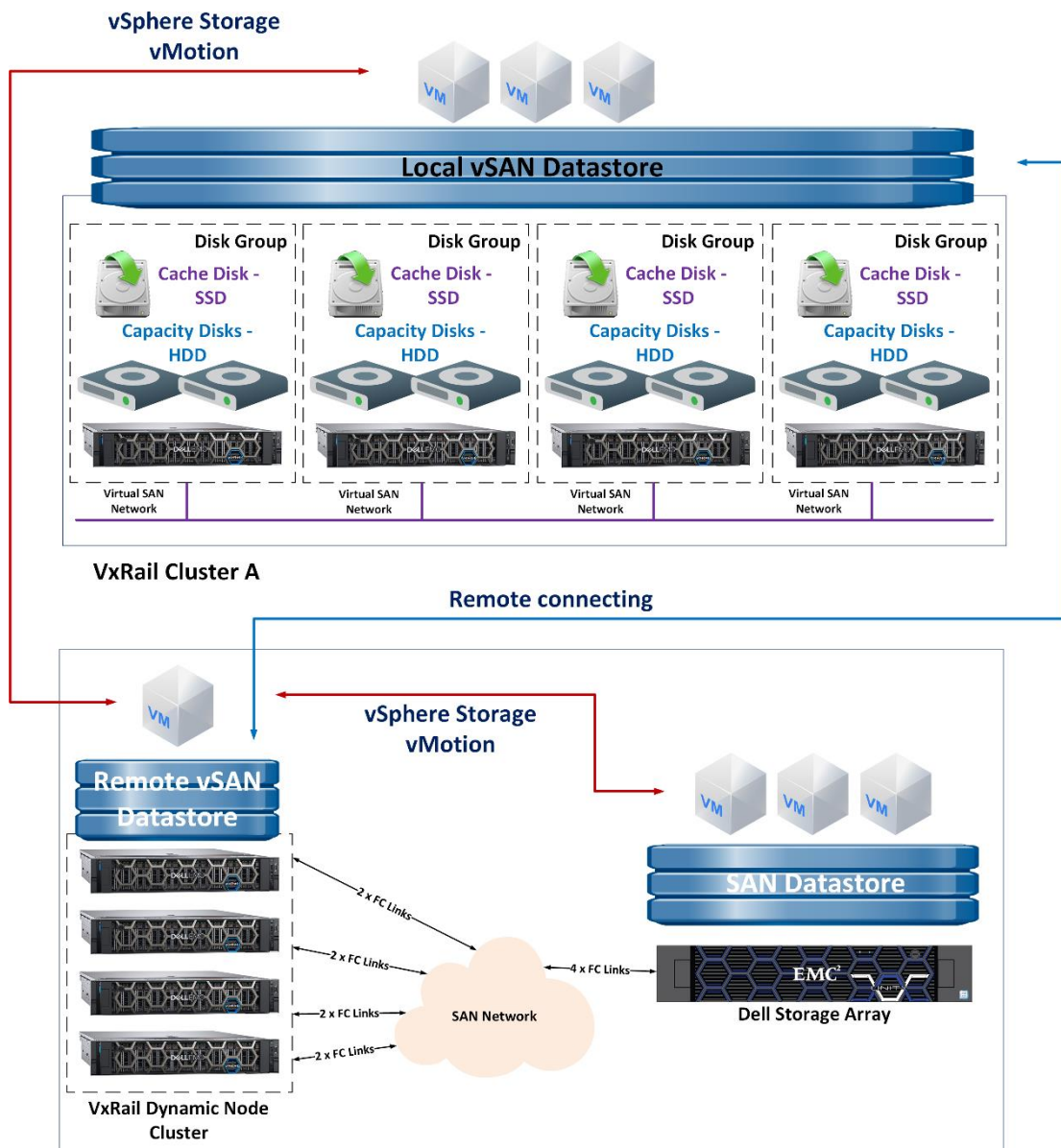




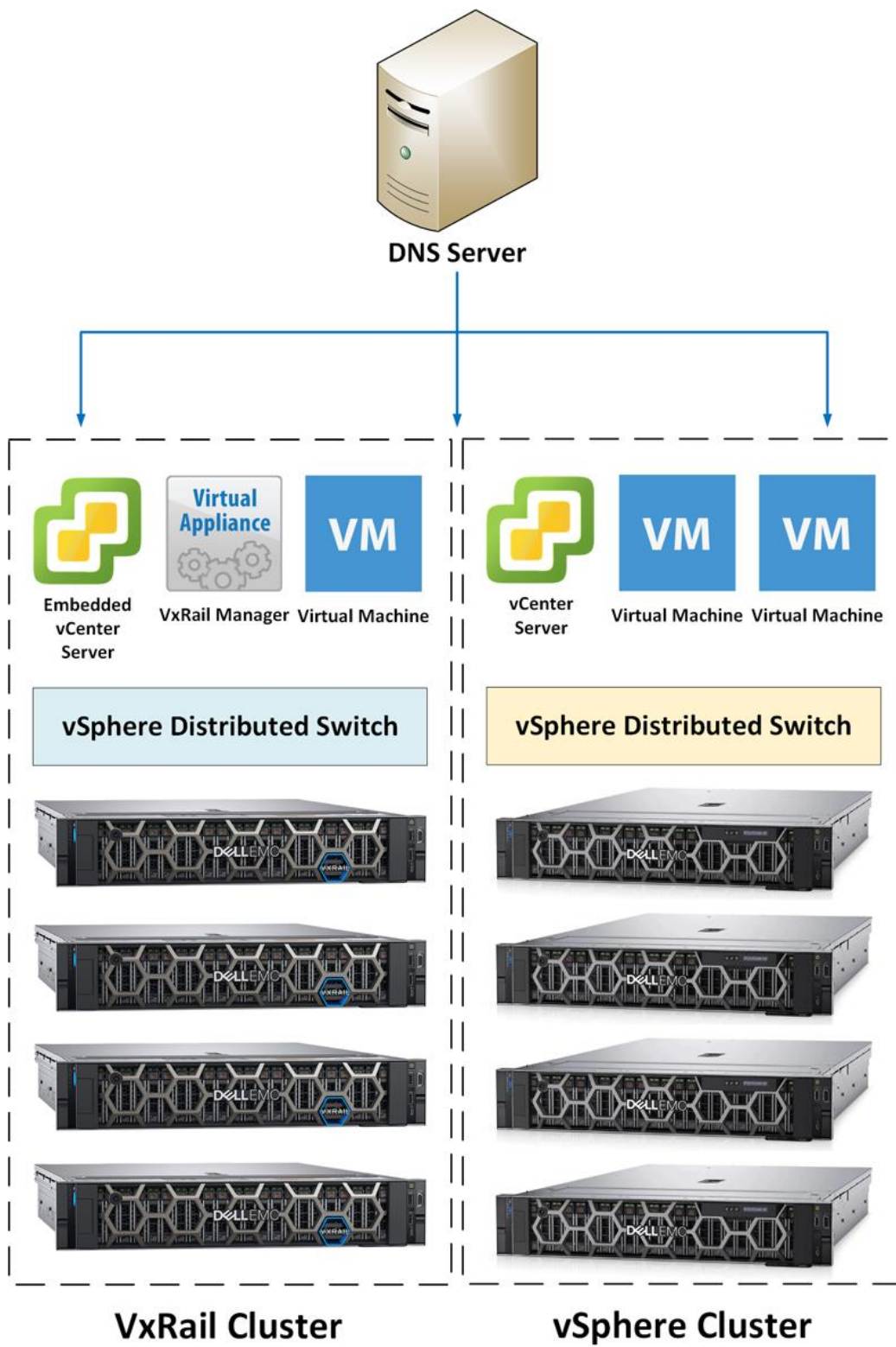


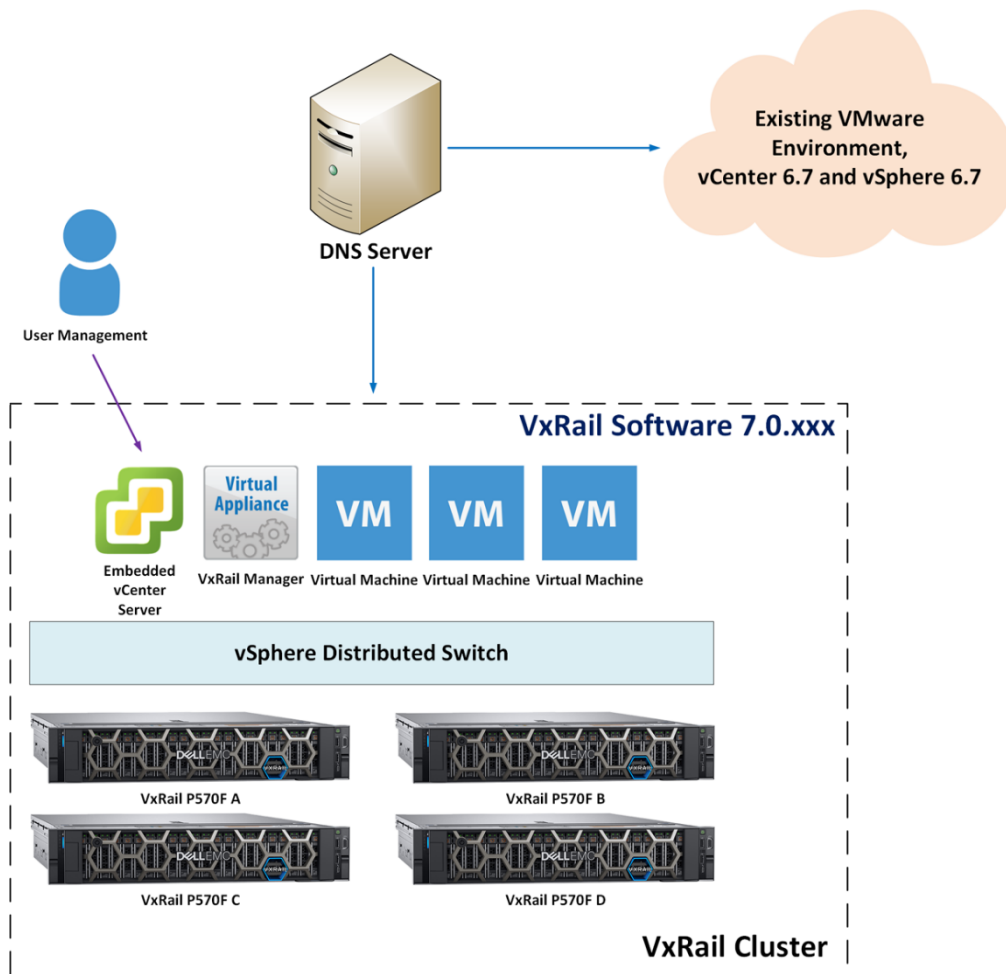






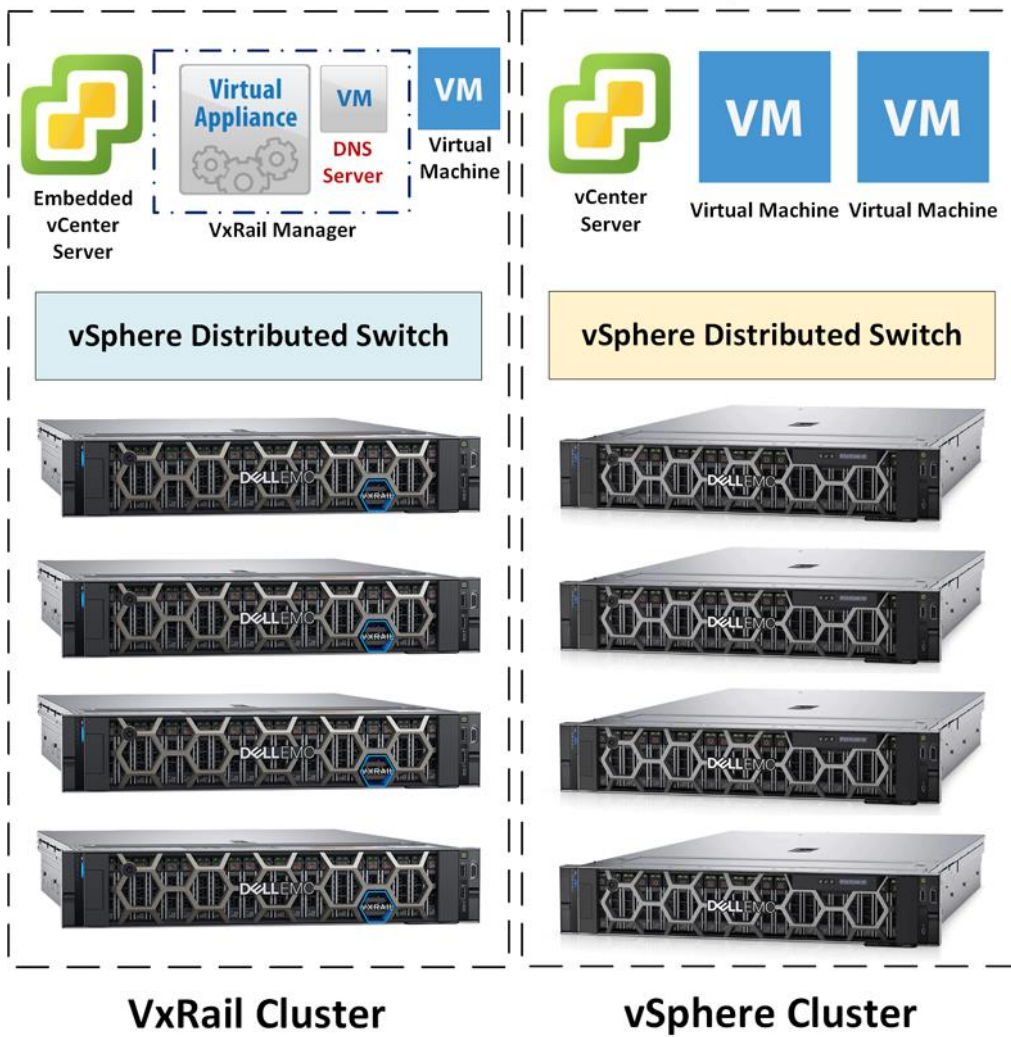
Chapter 3: Design of vCenter Server

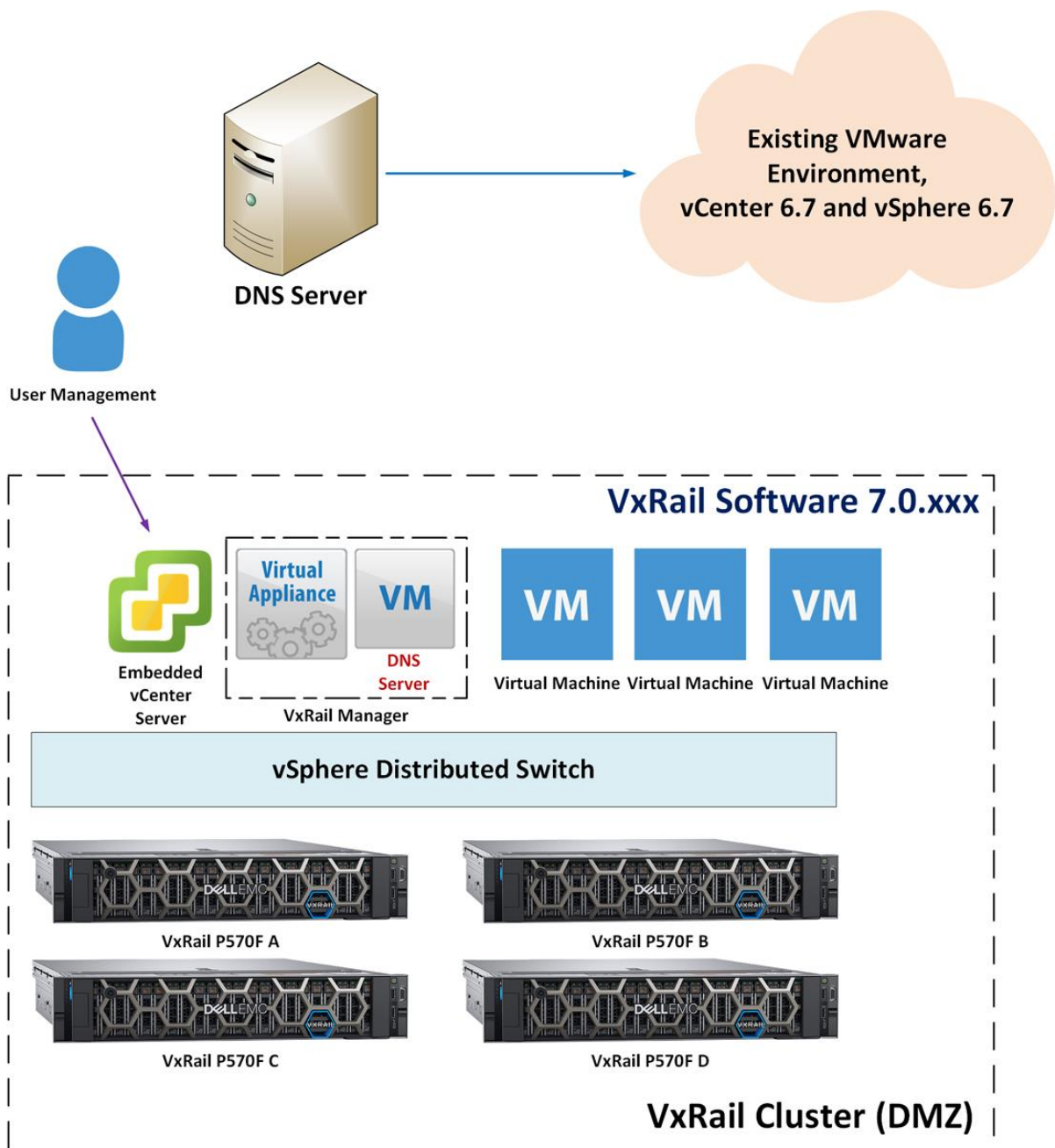


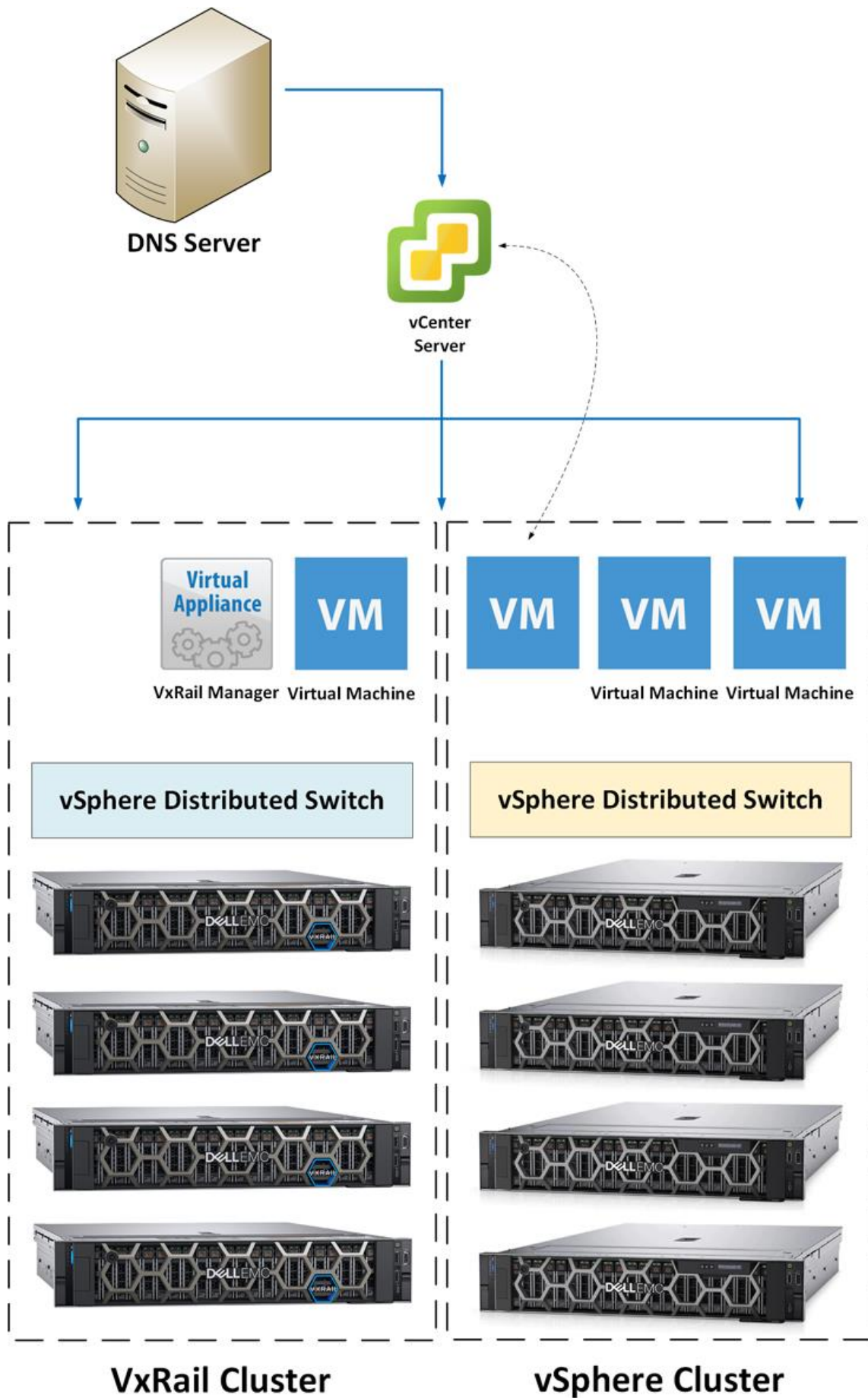


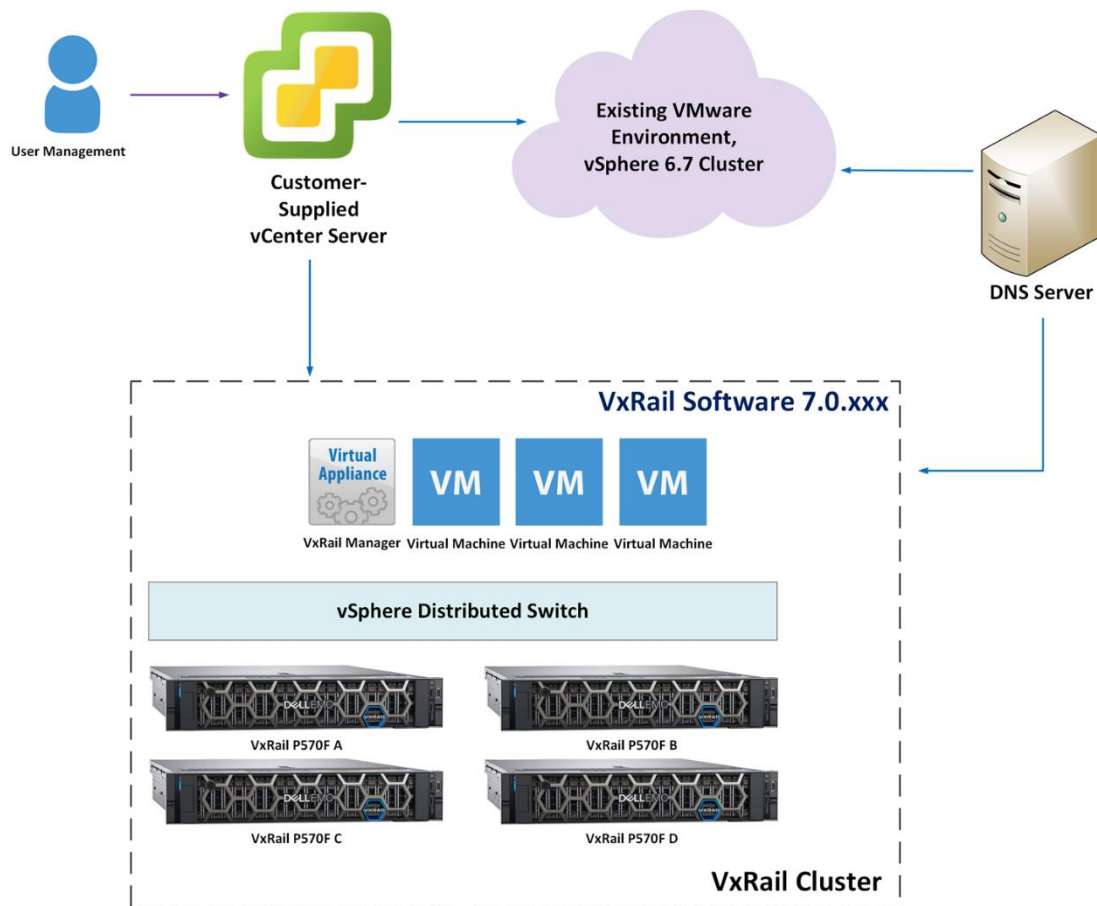


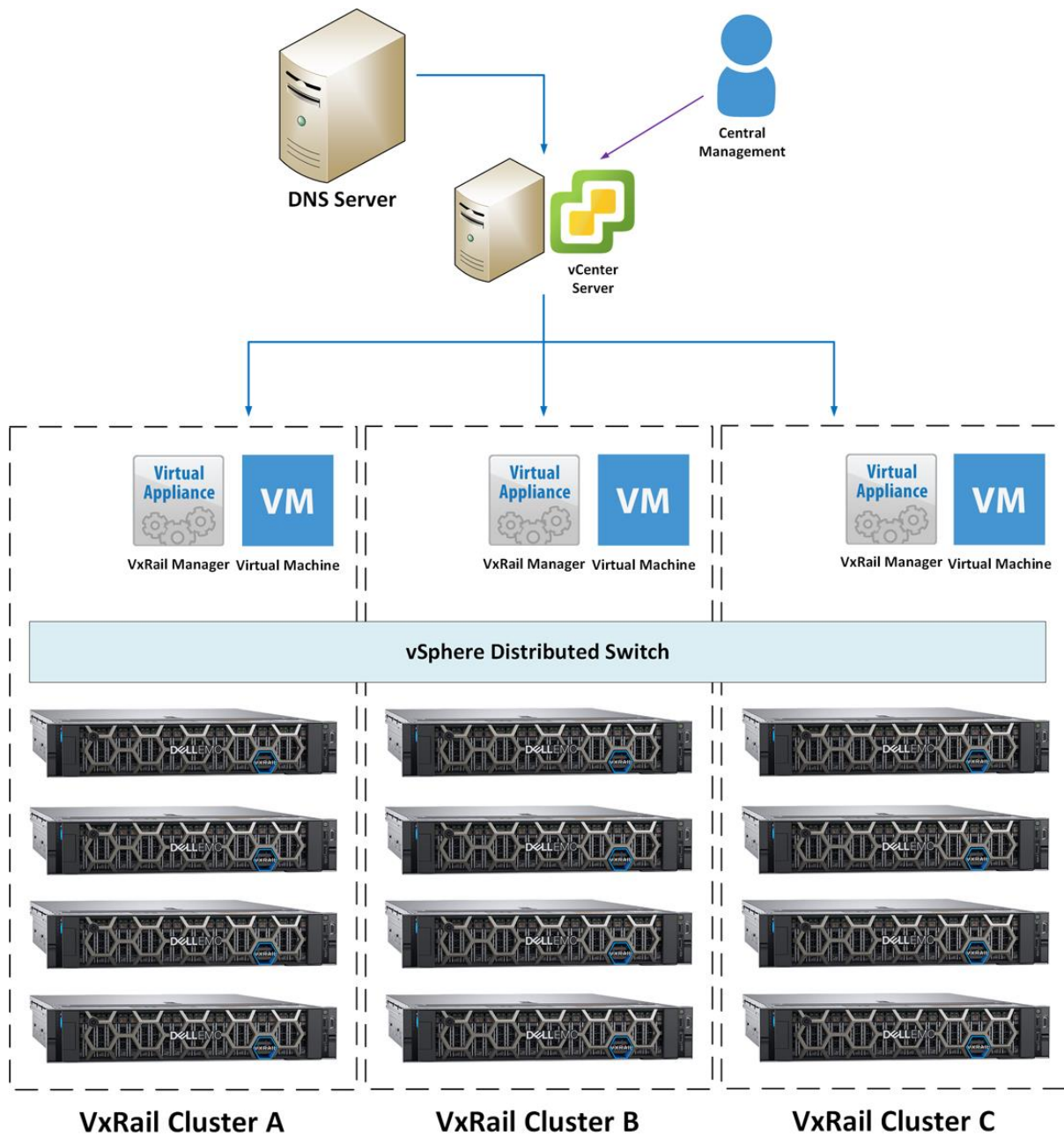
DNS Server

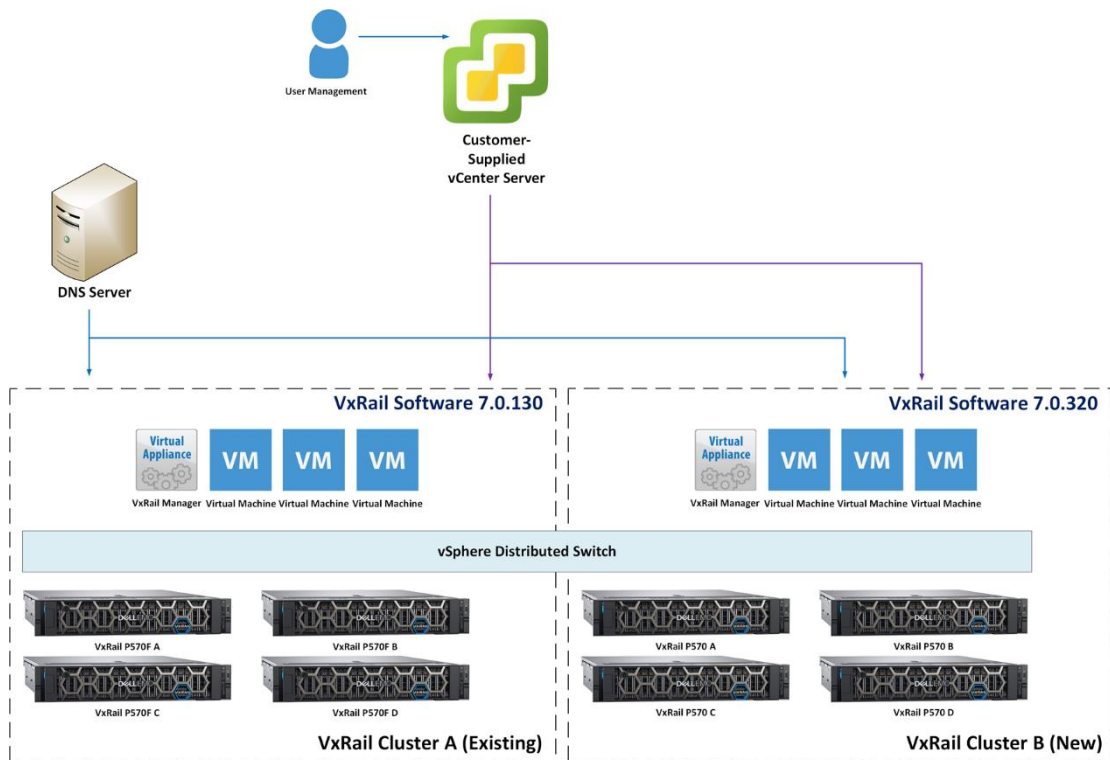




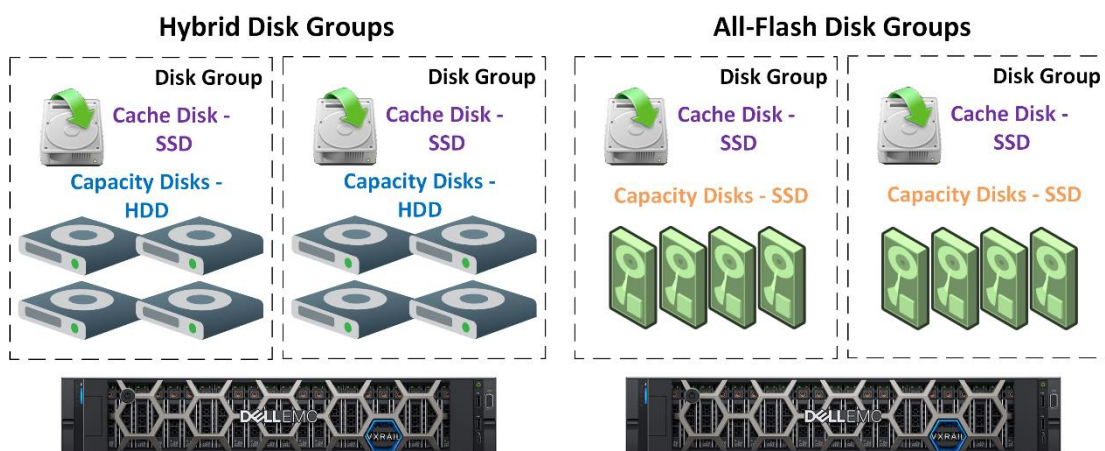
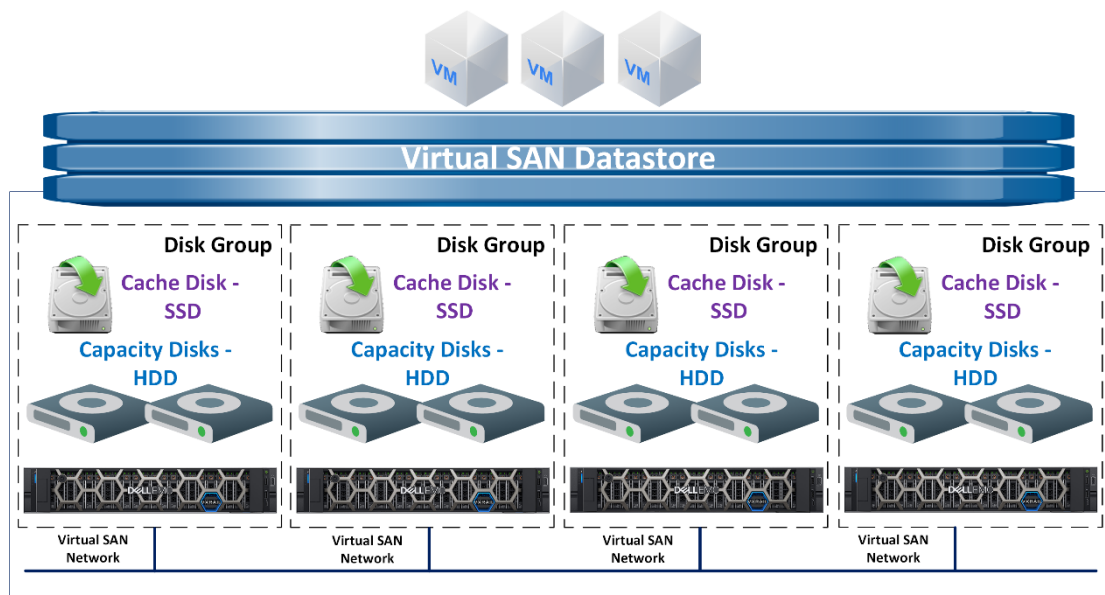


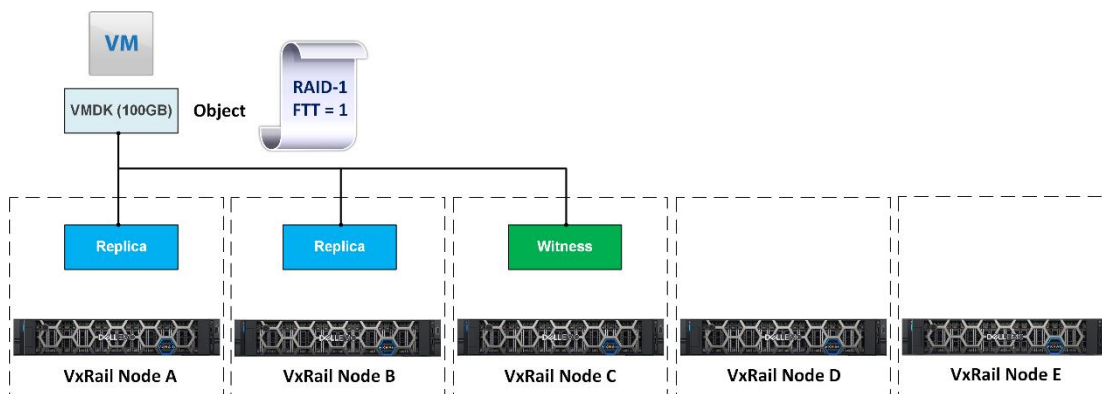
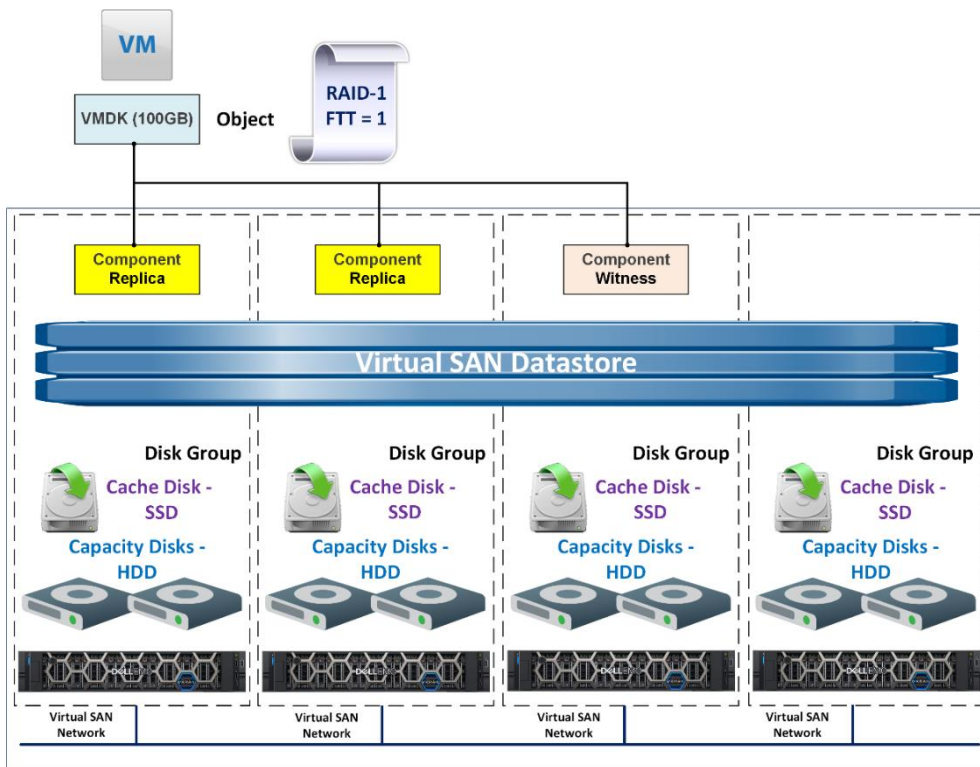






Chapter 4: Design of vSAN Storage Policies



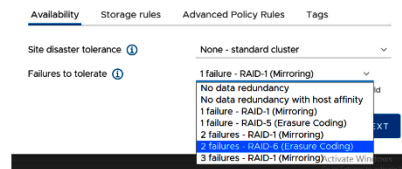
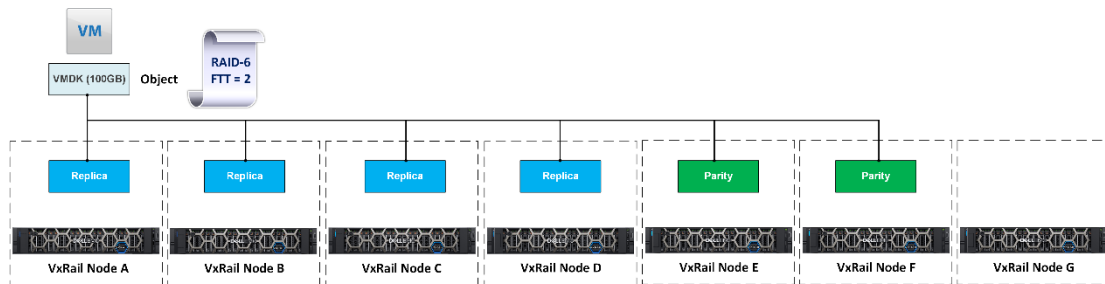
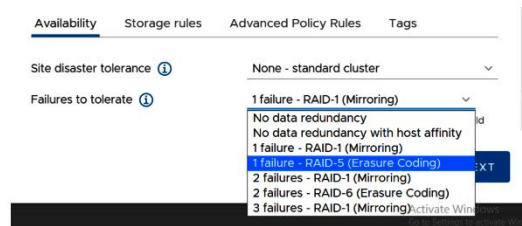
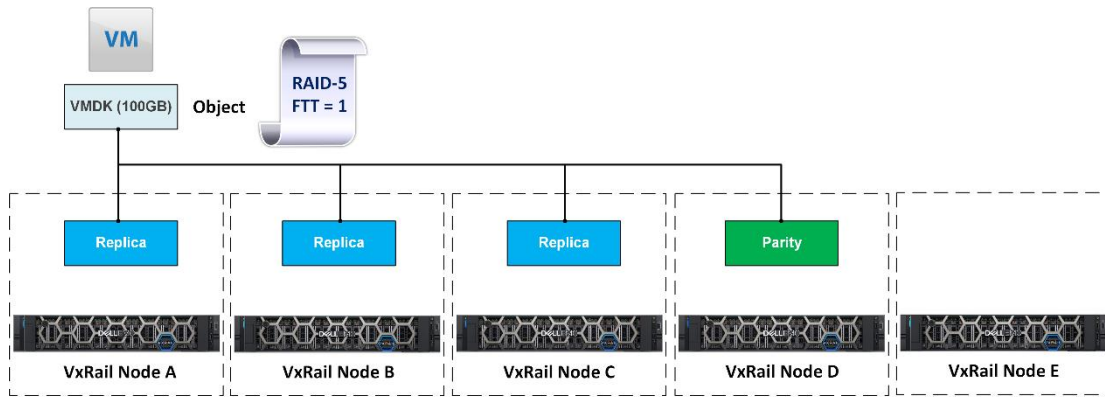


Availability | Storage rules | Advanced Policy Rules | Tags

Site disaster tolerance ⓘ None - standard cluster

Failures to tolerate ⓘ

- 1 failure - RAID-1 (Mirroring)
- No data redundancy
- No data redundancy with host affinity
- 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)



Create VM Storage Policy

1 Name and description

2 Policy structure

3 vSAN

4 Storage compatibility

5 Review and finish

vSAN

Availability

Storage rules

Advanced Policy Rules

Tags

Encryption services ⓘ

☒ Data-At-Rest encryption

☐ No encryption

☐ No preference

Space efficiency ⓘ

☐ Deduplication and compression

☒ Compression only

☐ No space efficiency

☐ No preference

Storage tier ⓘ

☒ All flash

☐ Hybrid

☐ No preference

Create VM Storage Policy

1 Name and description

2 Policy structure

3 vSAN

4 Storage compatibility

5 Review and finish

vSAN

Availability

Storage rules

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

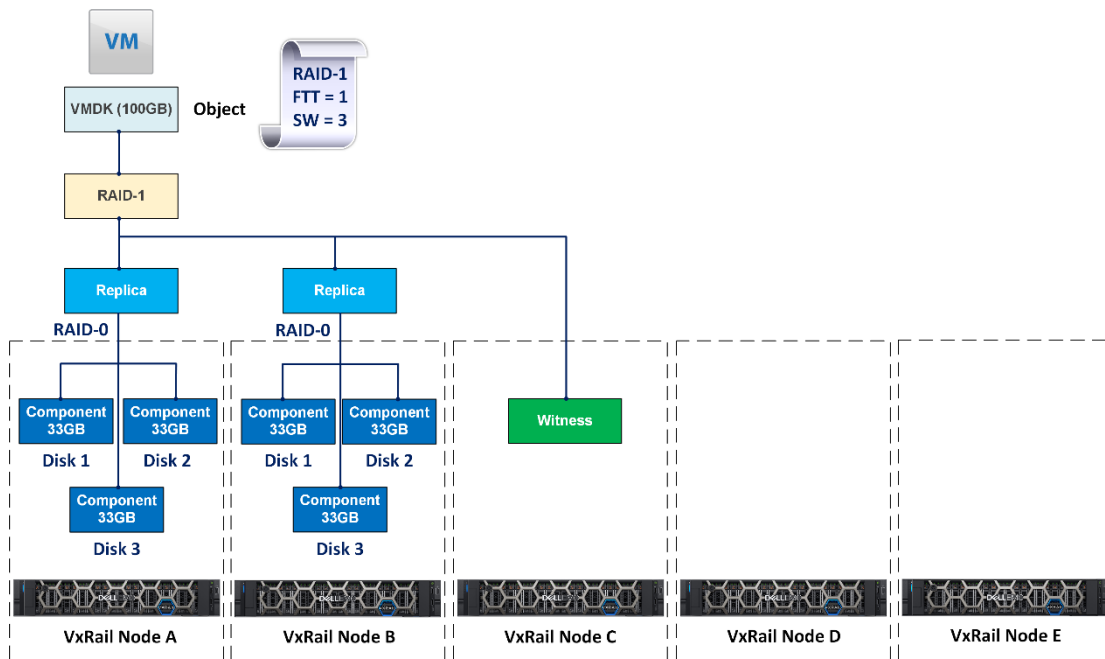
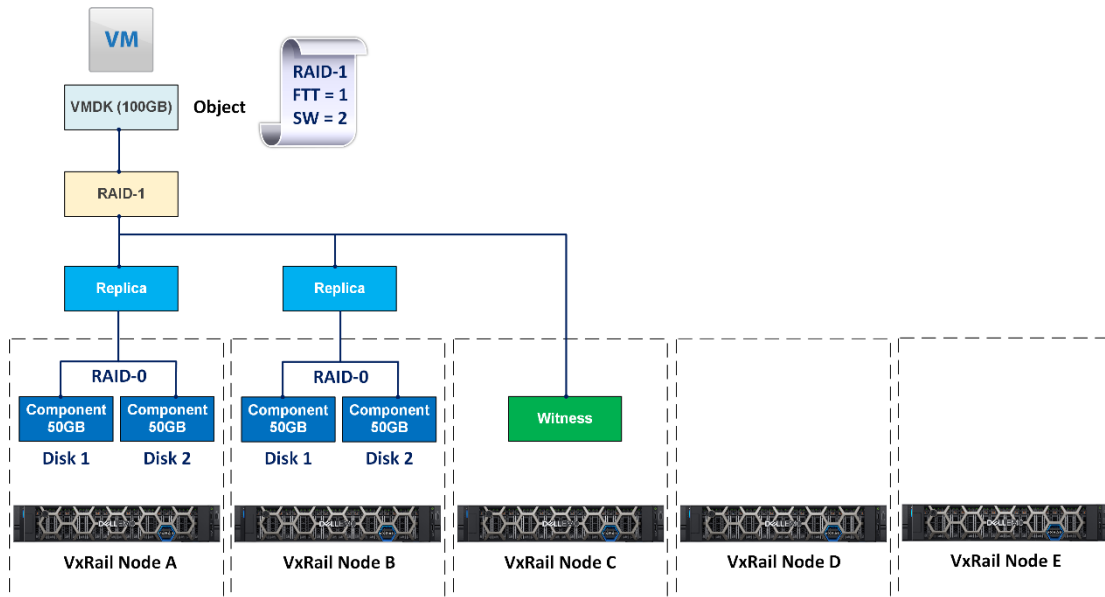
Flash read cache reservation (%) ⓘ 0

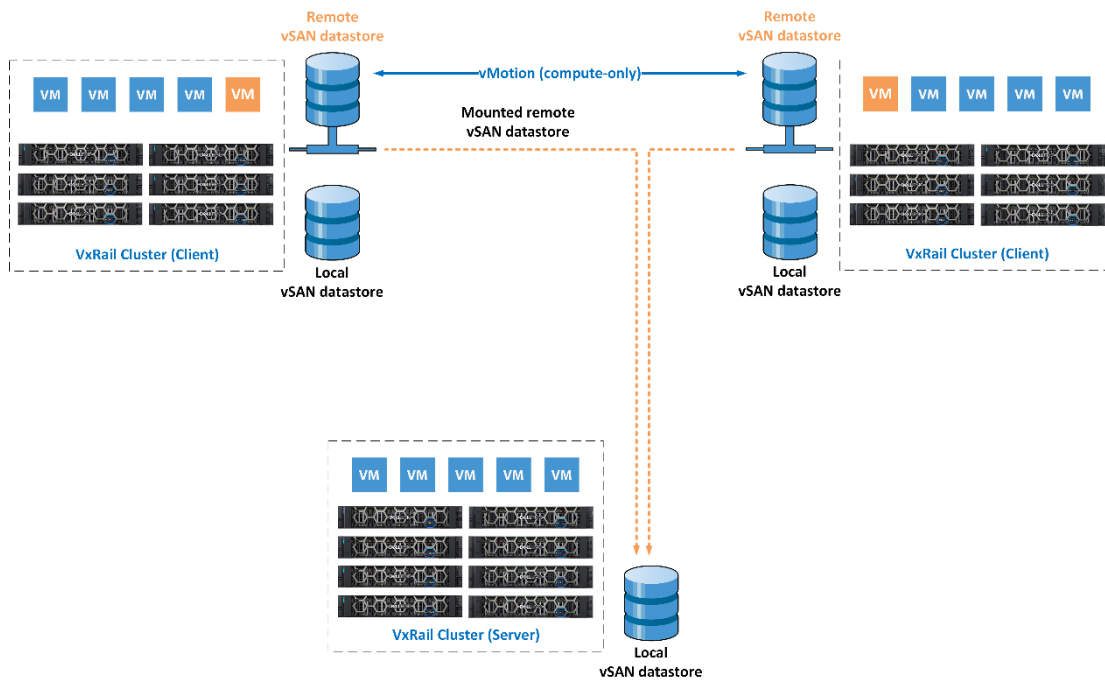
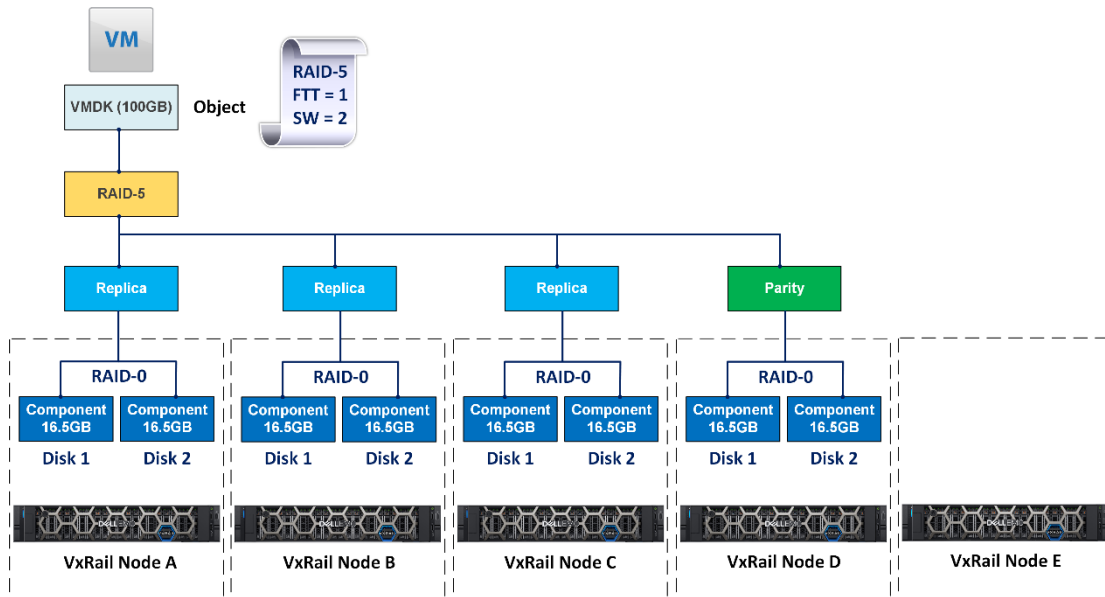
Reserved cache space for 100GB VM disk would be 0 B

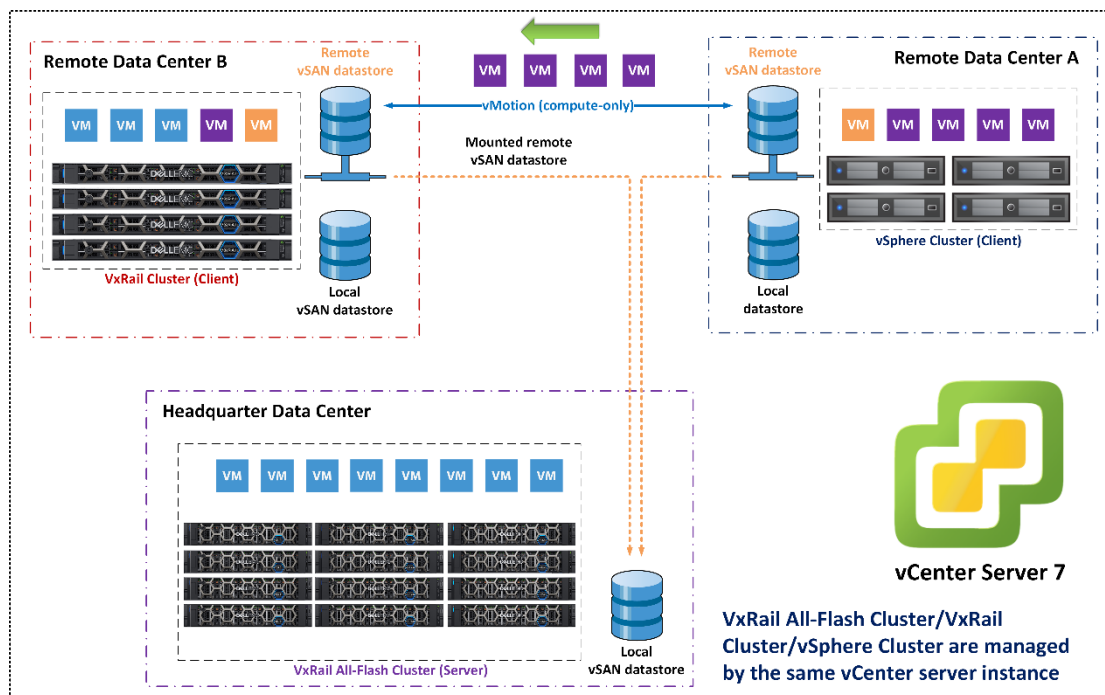
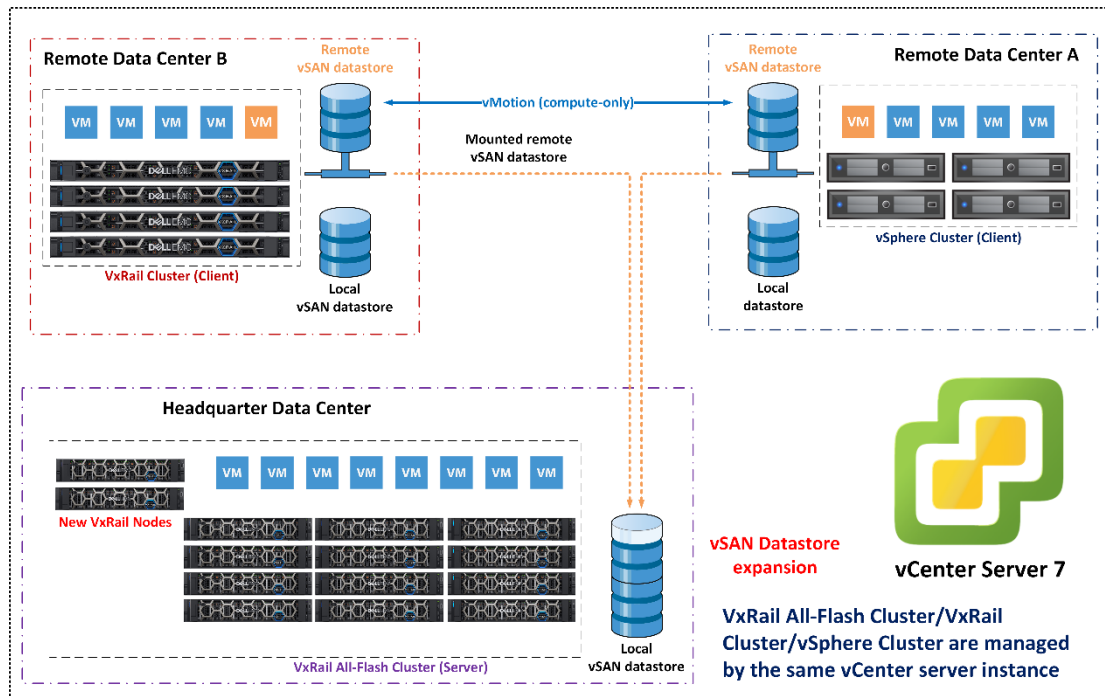
Disable object checksum ⓘ ☒

Force provisioning ⓘ ☒

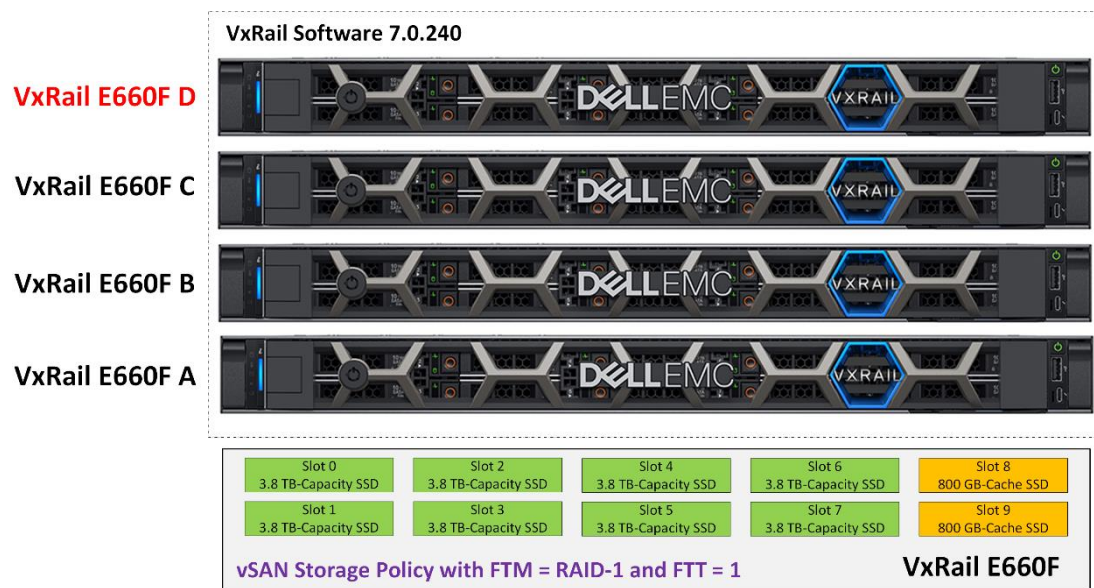
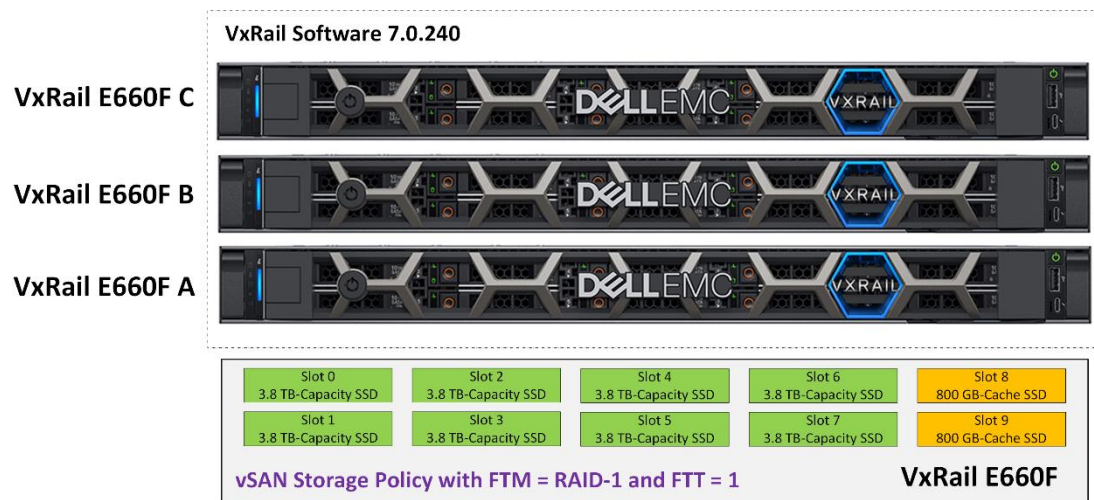
CANCEL







Chapter 5: Design of Cluster Expansion



VxRail Software 7.0.240

VxRail E660F C



VxRail E660F B



VxRail E660F A



Slot 0 3.8 TB-Capacity SSD	Slot 2 3.8 TB-Capacity SSD	Slot 4	Slot 6	Slot 8 800 GB-Cache SSD
Slot 1 3.8 TB-Capacity SSD	Slot 3 3.8 TB-Capacity SSD	Slot 5	Slot 7	Slot 9

vSAN Storage Policy with FTM = RAID-1 and FTT = 1

VxRail E660F

VxRail Software 7.0.240

VxRail E660F E



VxRail E660F D



VxRail E660F C



VxRail E660F B



VxRail E660F A



Slot 0 3.8 TB-Capacity SSD	Slot 2 3.8 TB-Capacity SSD	Slot 4	Slot 6	Slot 8 800 GB-Cache SSD
Slot 1 3.8 TB-Capacity SSD	Slot 3 3.8 TB-Capacity SSD	Slot 5	Slot 7	Slot 9

vSAN Storage Policy with FTM = RAID-5 and FTT = 1

VxRail E660F



VxRail E660F C
VxRail E660F B
VxRail E660F A

VxRail Software 7.0.240

Slot 0 3.8 TB-Capacity SSD	Slot 2 3.8 TB-Capacity SSD	Slot 4 3.8 TB-Capacity SSD	Slot 6	Slot 8 800 GB-Cache SSD
Slot 1 3.8 TB-Capacity SSD	Slot 3 3.8 TB-Capacity SSD	Slot 5 3.8 TB-Capacity SSD	Slot 7	Slot 9

vSAN Storage Policy with FTM = RAID-1 and FTT = 1
VxRail E660F

VxRail E660F C
VxRail E660F B
VxRail E660F A

VxRail Software 7.0.240

Slot 0 3.8 TB-Capacity SSD	Slot 2 3.8 TB-Capacity SSD	Slot 4 3.8 TB-Capacity SSD	Slot 6 3.8 TB-Capacity SSD	Slot 8 800 GB-Cache SSD
Slot 1 3.8 TB-Capacity SSD	Slot 3 3.8 TB-Capacity SSD	Slot 5 3.8 TB-Capacity SSD	Slot 7 3.8 TB-Capacity SSD	Slot 9 800 GB-Cache SSD

vSAN Storage Policy with FTM = RAID-1 and FTT = 1
VxRail E660F



VxRail P670F C



VxRail P670F B



VxRail P670F A

Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15	Slot 16	Slot 17	Slot 18	Slot 19	Slot 20	Slot 21	Slot 22	Slot 23
Front View																			VxRail P670F				

Slot 24	Slot 26
Slot 25	Slot 27
Rear View	
VxRail P670F	



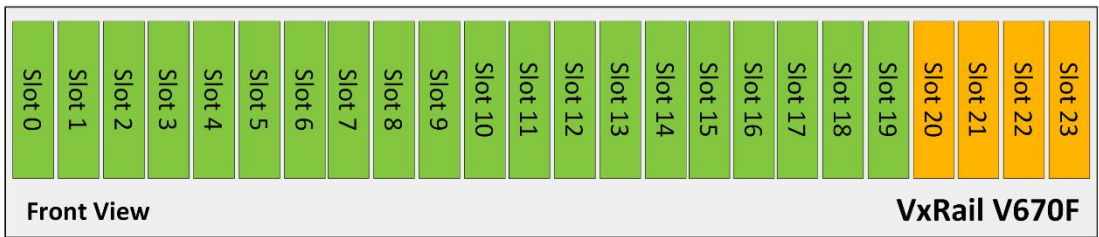
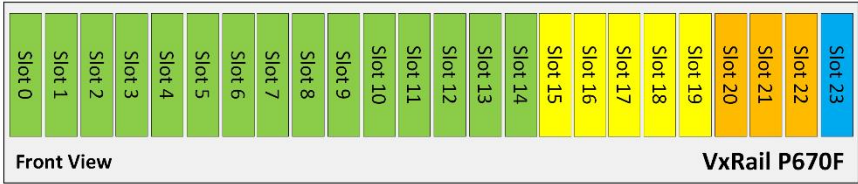
VxRail P670F C

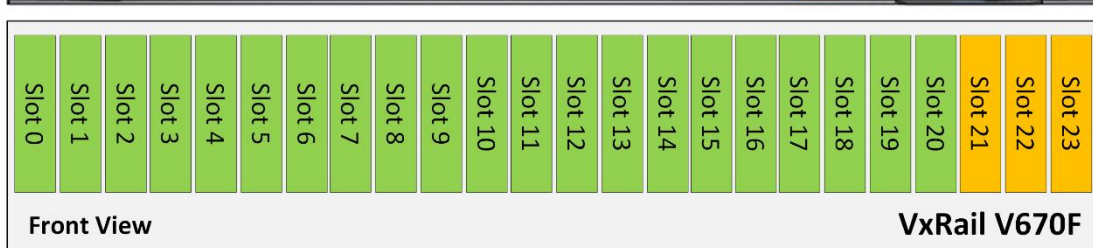


VxRail P670F B



VxRail P670F A







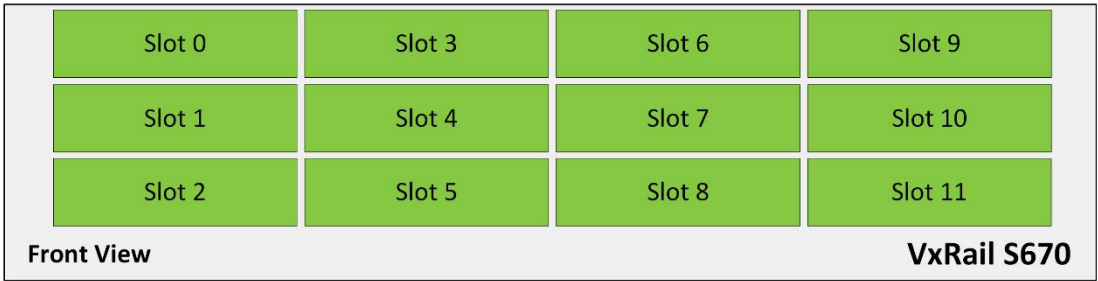
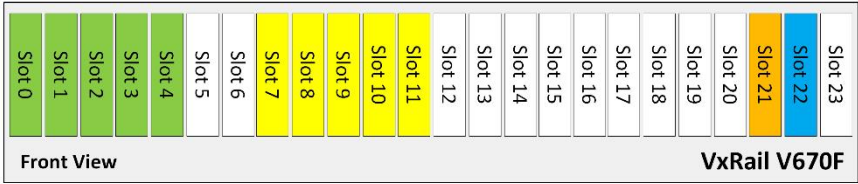
VxRail V670F C



VxRail V670F B



VxRail V670F A





Slot 0	Slot 3	Slot 6	Slot 9
Slot 1	Slot 4	Slot 7	Slot 10
Slot 2	Slot 5	Slot 8	Slot 11

Front View

VxRail S670

Slot 0	Slot 2
Slot 1	Slot 3

Rear View

VxRail S670



VxRail S670 C



VxRail S670 B



VxRail S670F A

Slot 0	Slot 3	Slot 6	Slot 9
Slot 1	Slot 4	Slot 7	Slot 10
Slot 2	Slot 5	Slot 8	Slot 11

Front ViewVxRail S670

Slot 0	Slot 2
Slot 1	Slot 3

Rear ViewVxRail S670



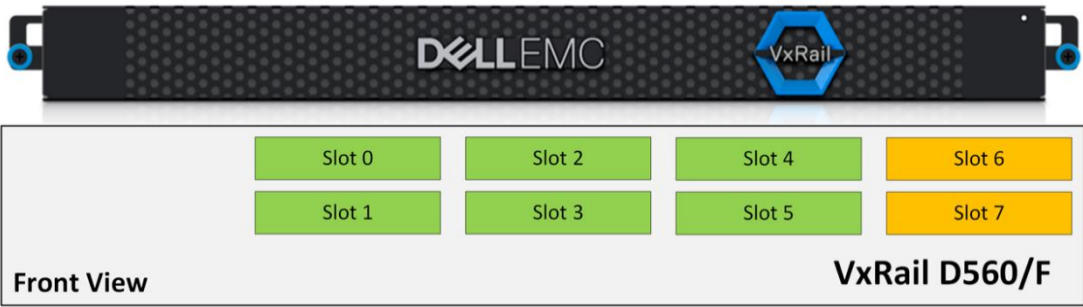
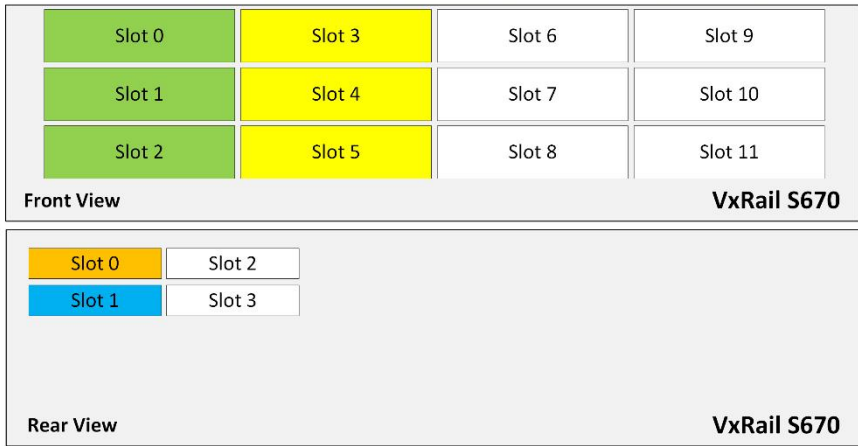
VxRail S670 C

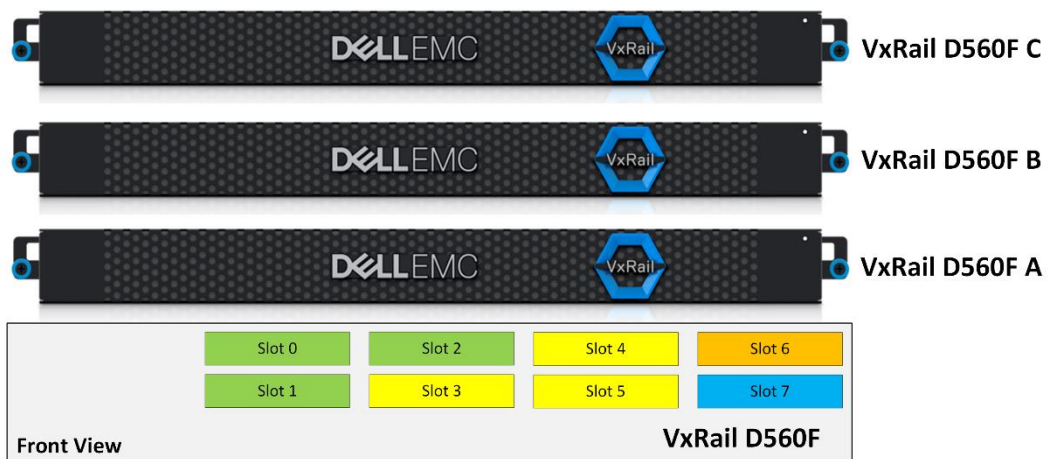
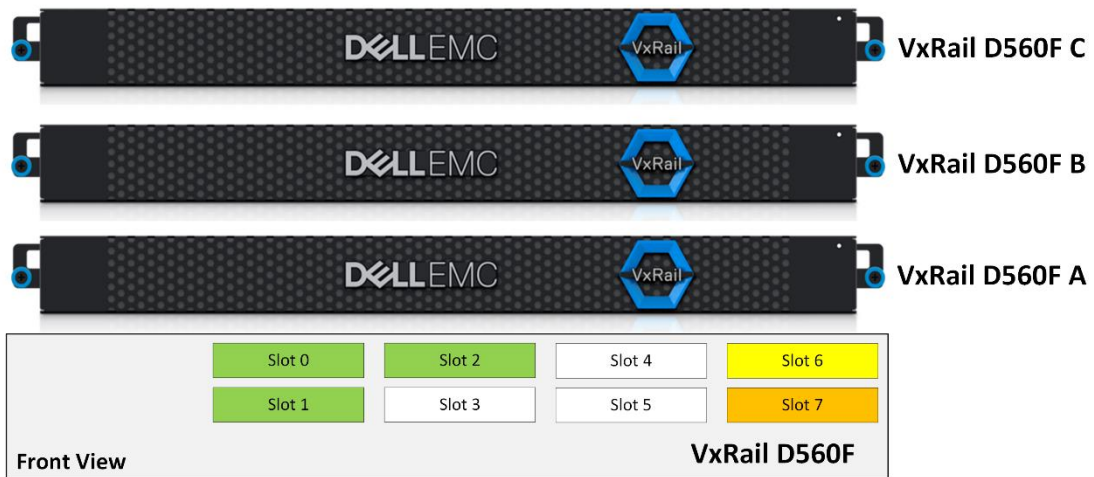


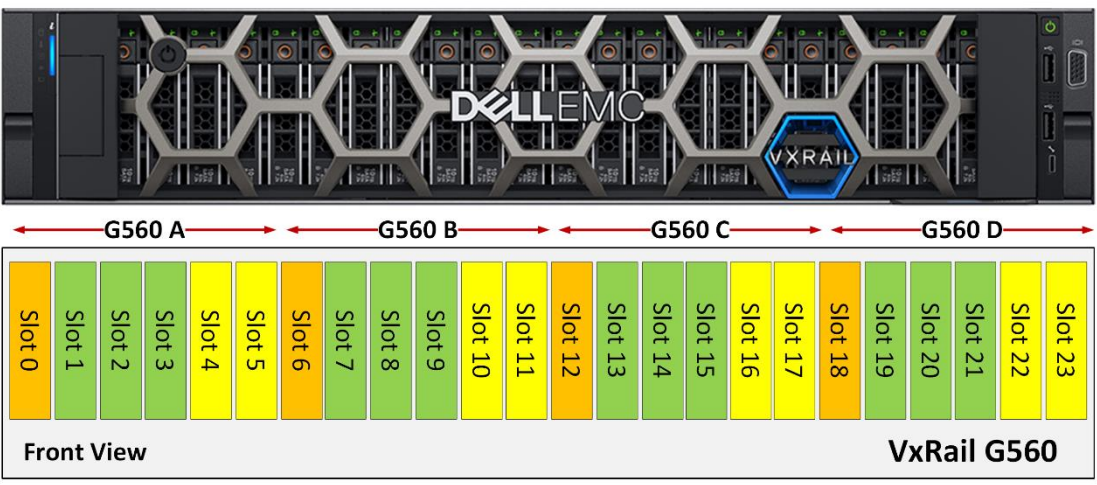
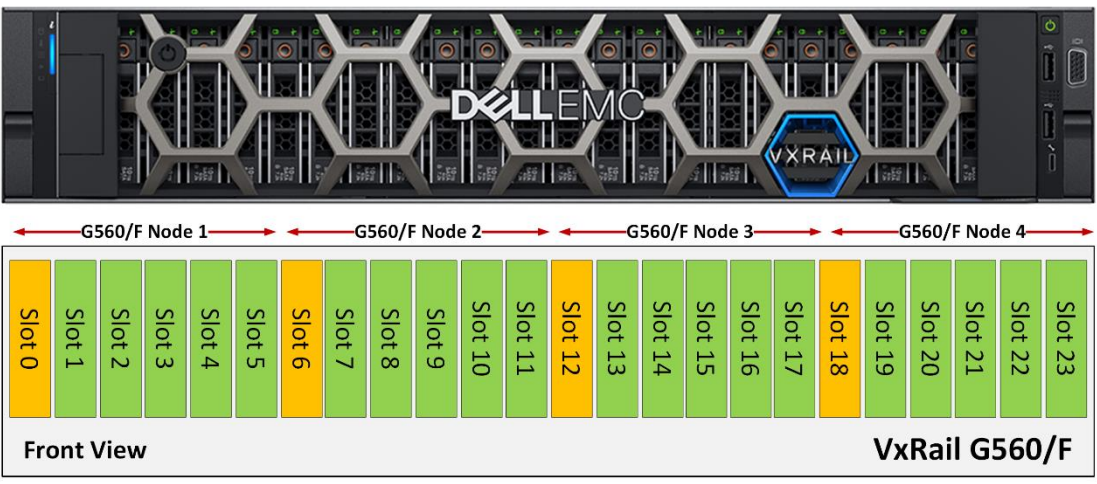
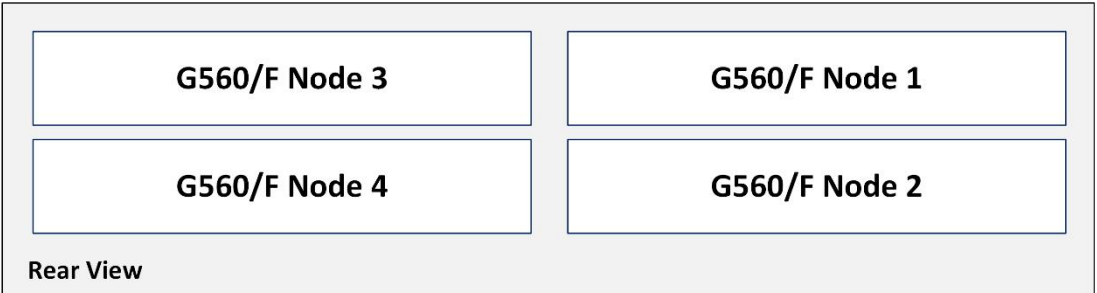
VxRail S670 B



VxRail S670F A









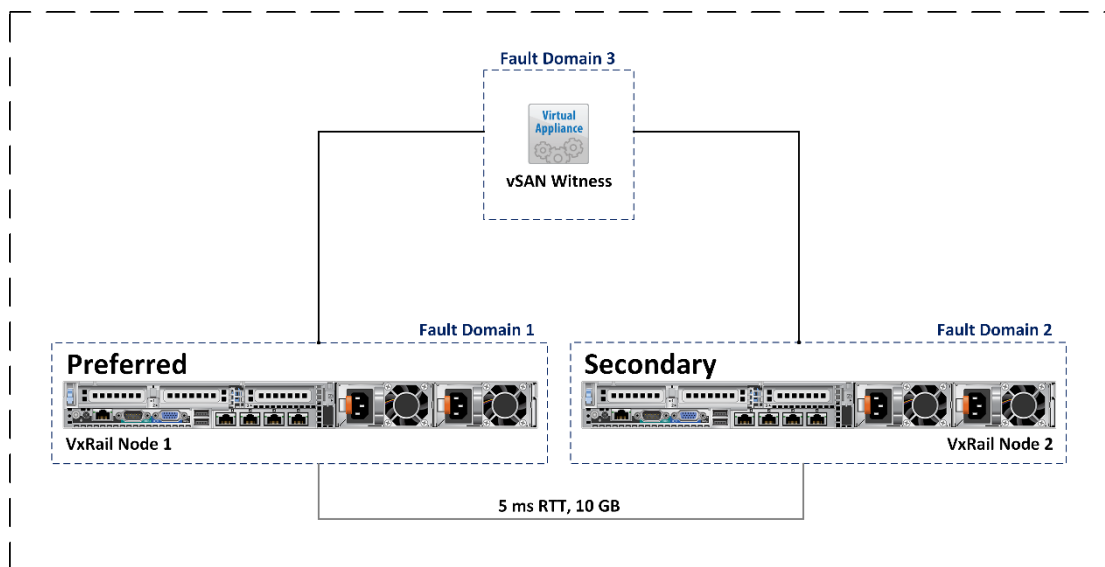
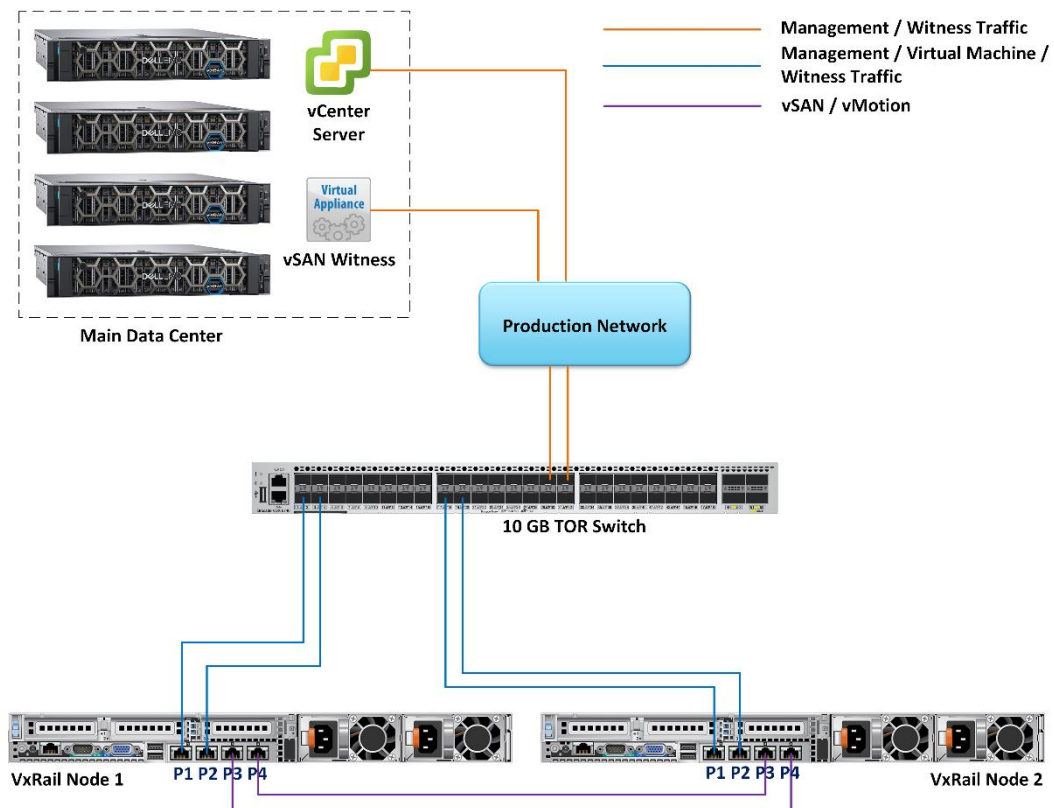
G560 A					G560 B					G560 C					G560 D								
Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15	Slot 16	Slot 17	Slot 18	Slot 19	Slot 20	Slot 21	Slot 22	Slot 23
Front View												VxRail G560											

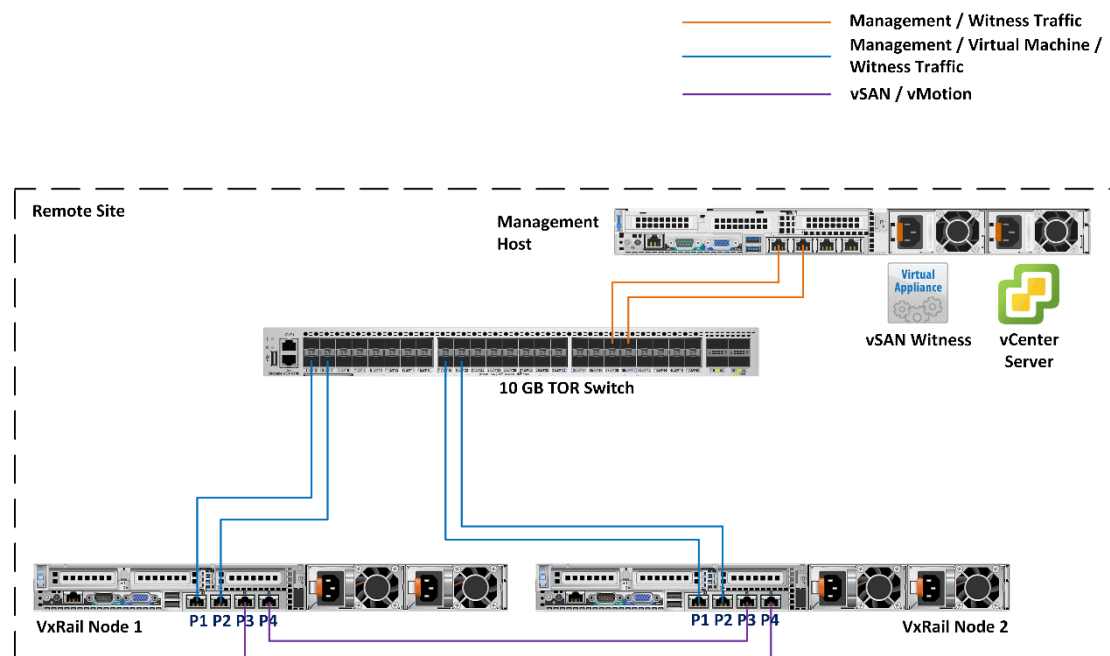
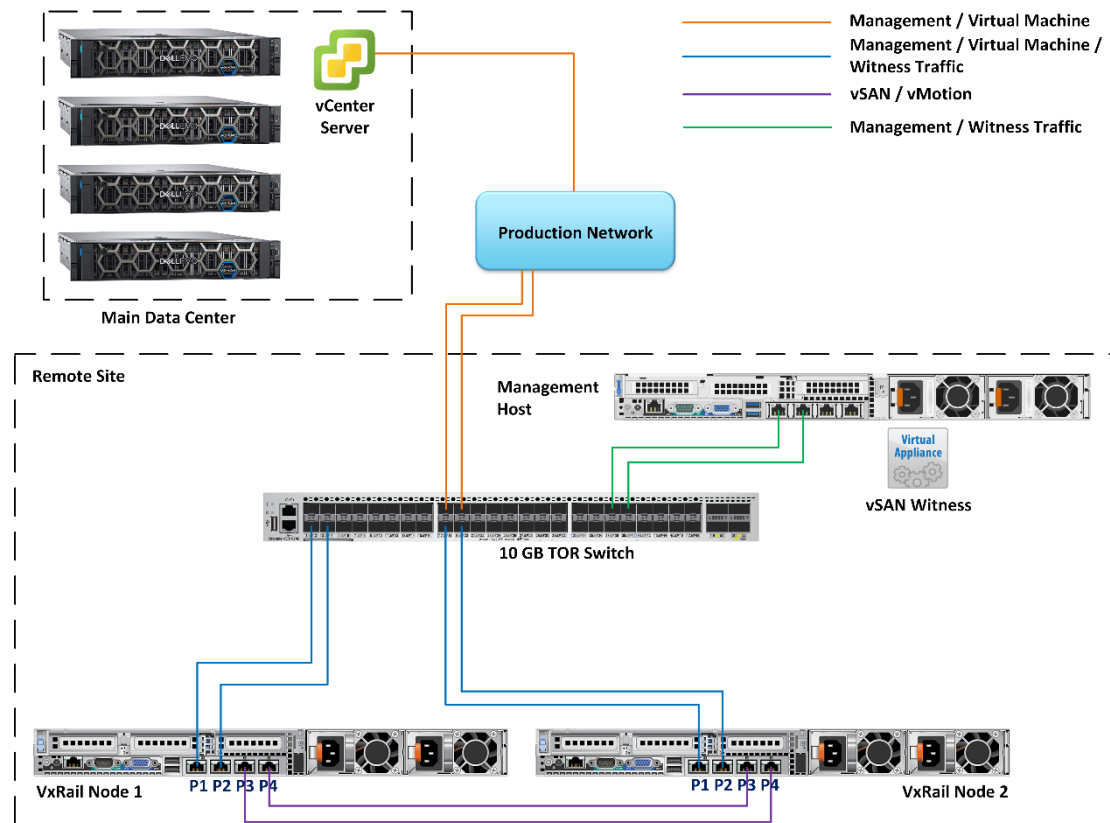


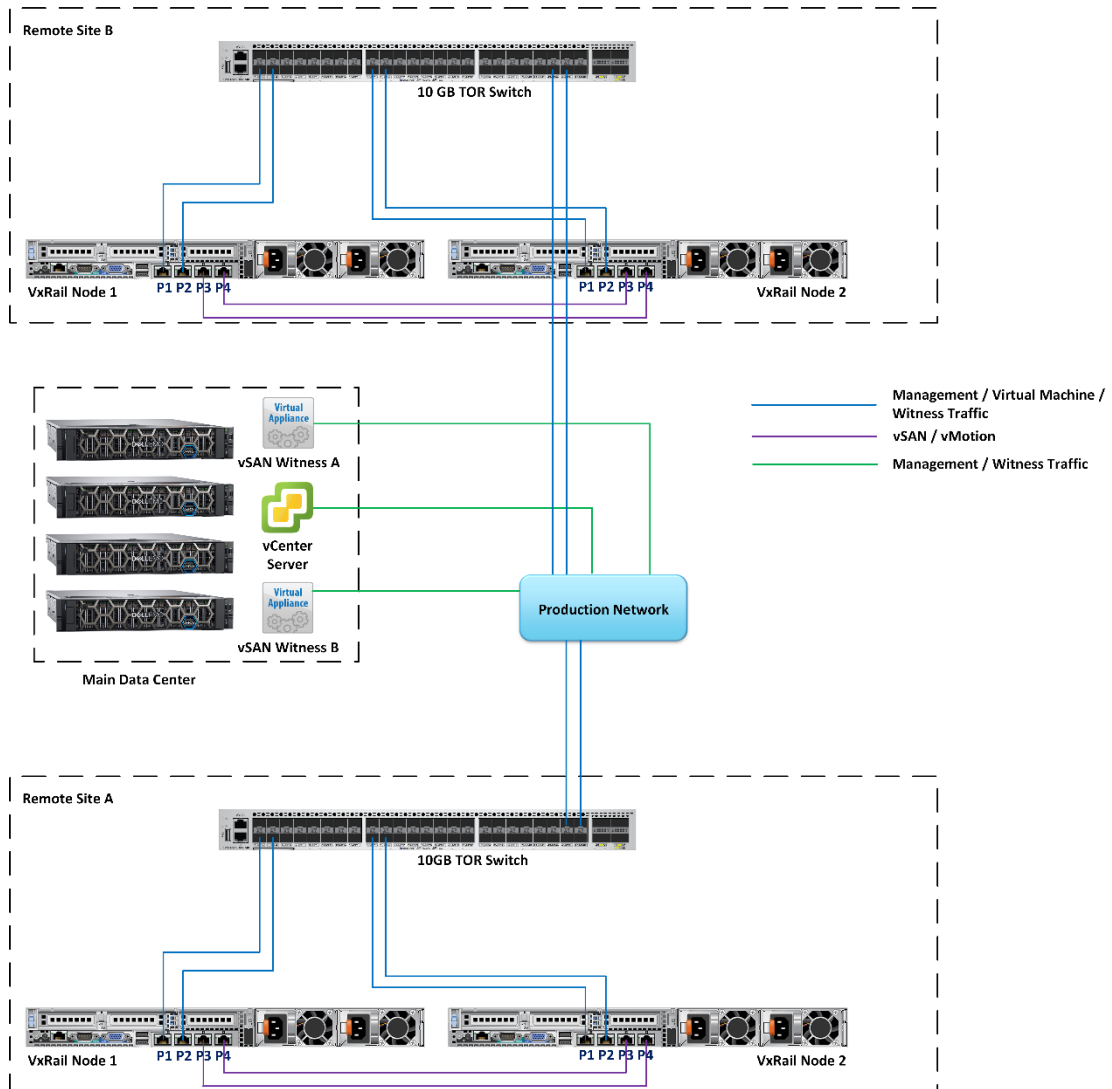
Slot 0	Slot 1	Slot 2	Slot 3	Slot 4	Slot 5	Slot 6	Slot 7	Slot 8	Slot 9	Slot 10	Slot 11	Slot 12	Slot 13	Slot 14	Slot 15	Slot 16	Slot 17	Slot 18	Slot 19	Slot 20	Slot 21	Slot 22	Slot 23
Front View																							

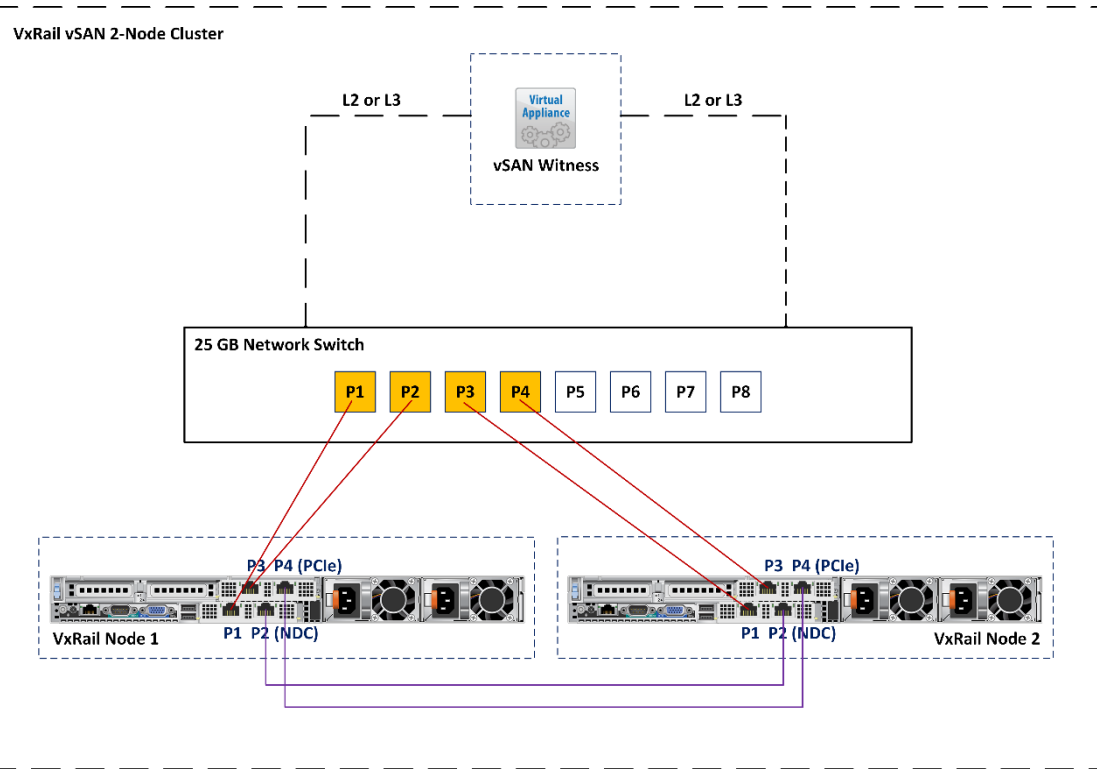
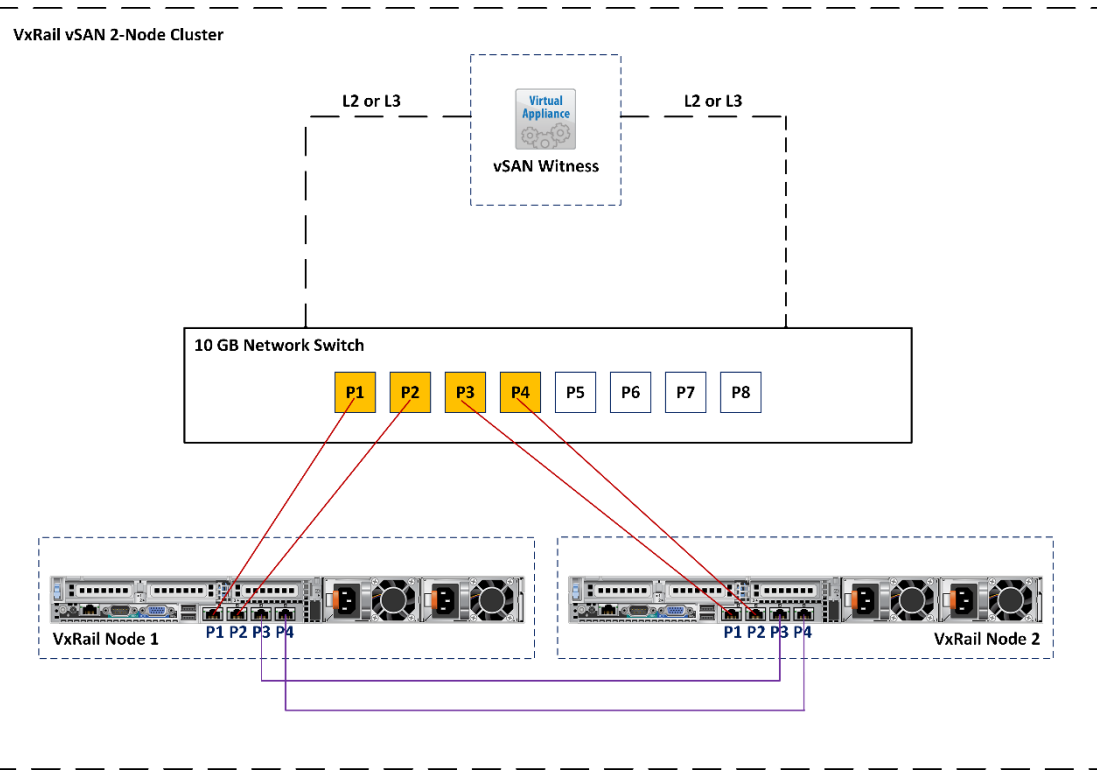
Slot 24	Slot 26
Slot 25	Slot 27
Rear View	

Chapter 6: Design of vSAN 2-Node Cluster on VxRail

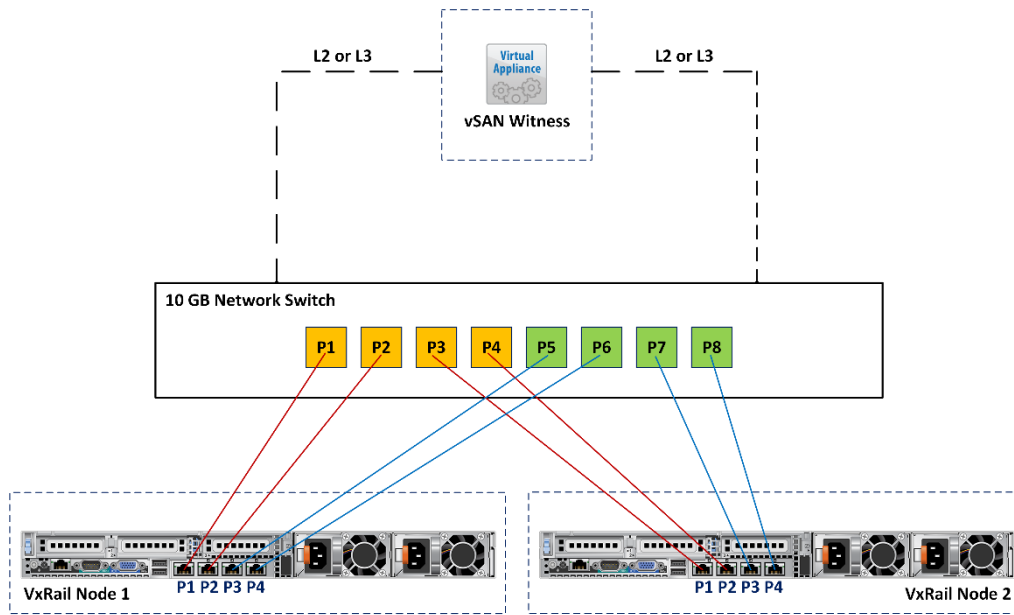




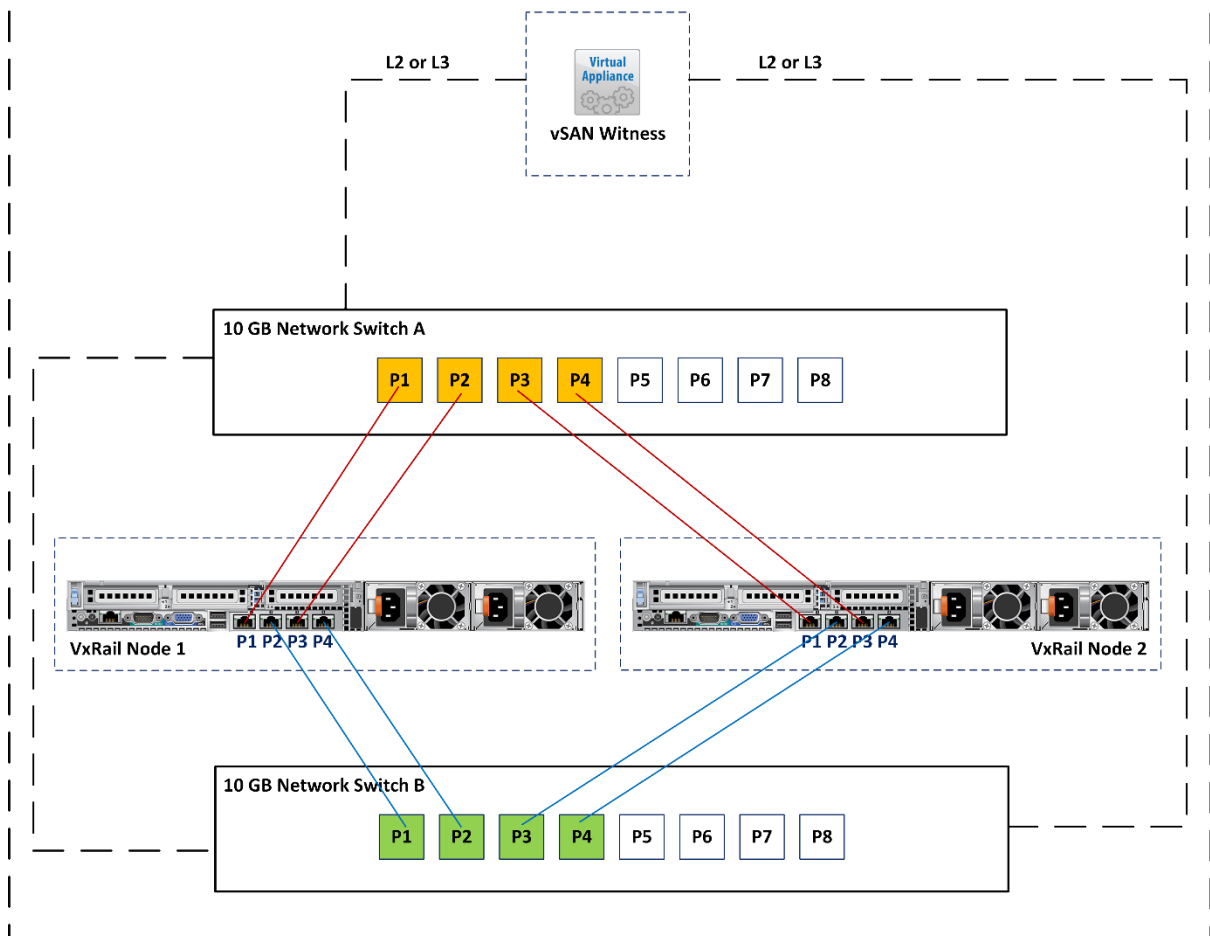


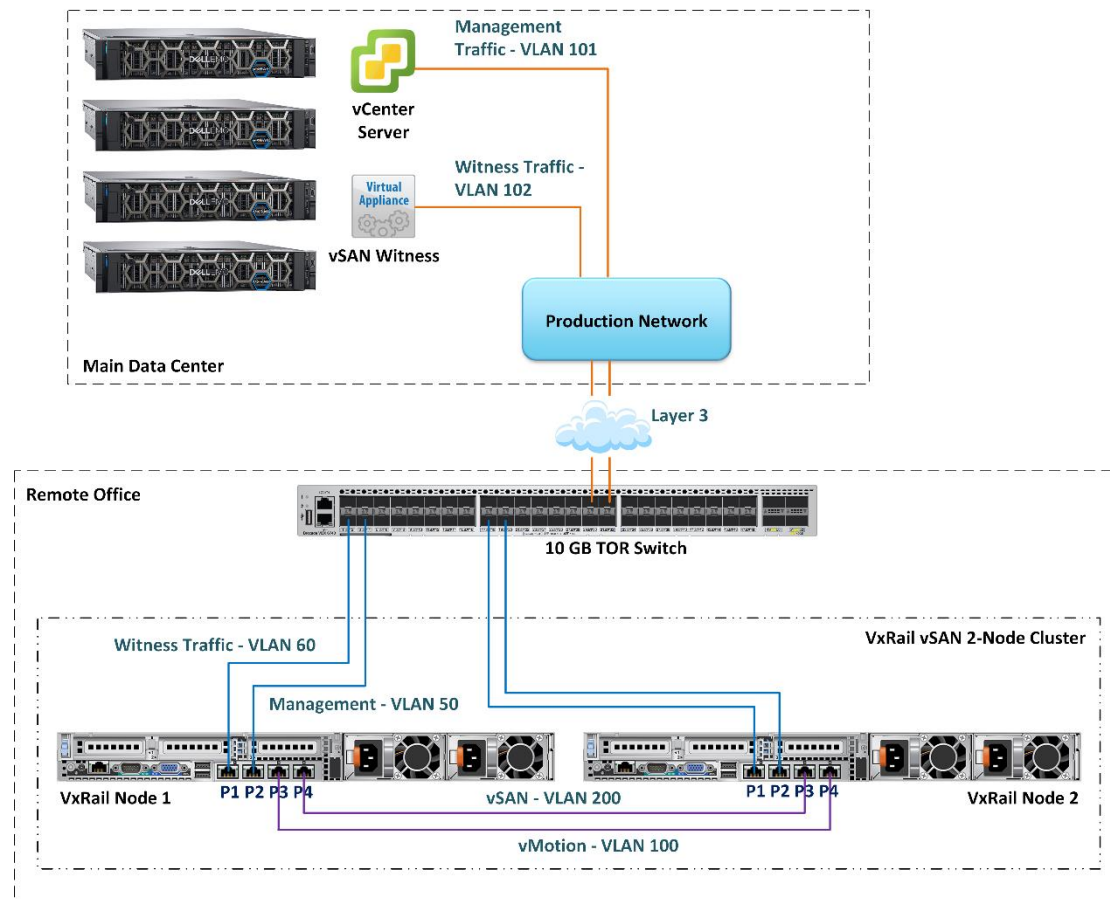


VxRail vSAN 2-Node Cluster



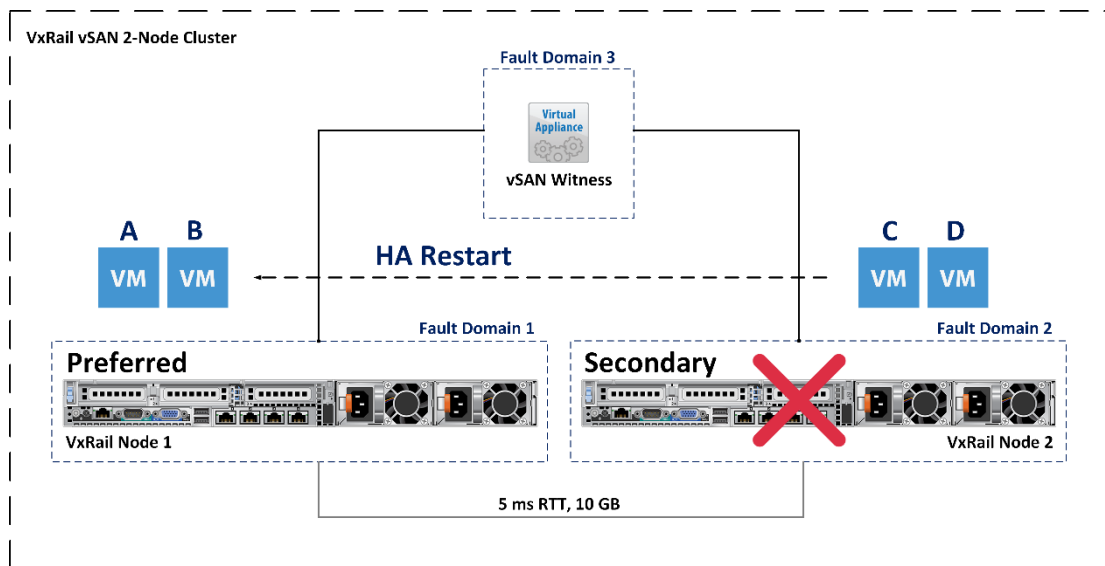
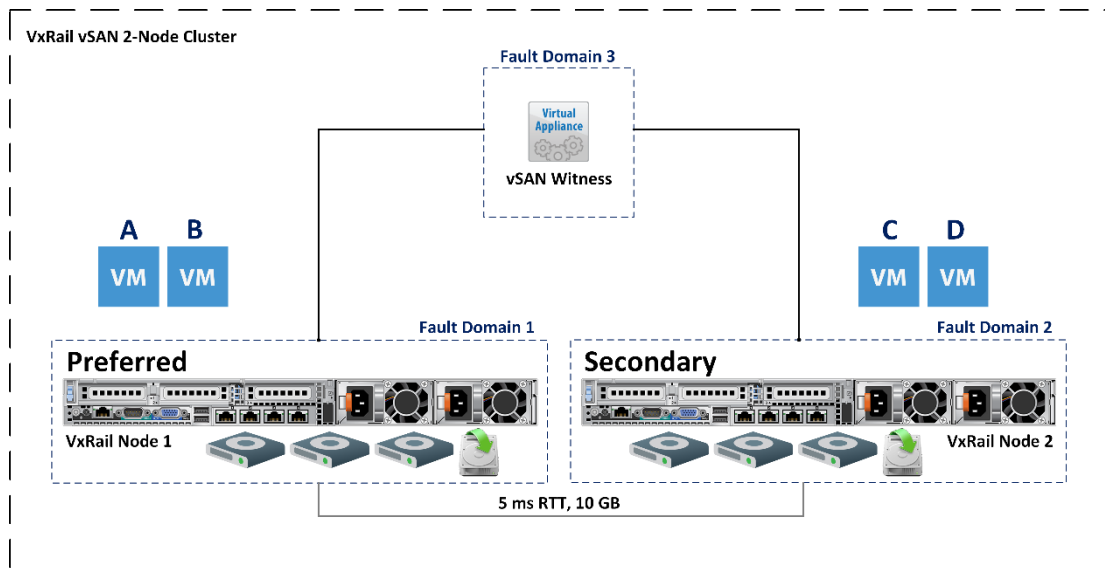
VxRail vSAN 2-Node Cluster

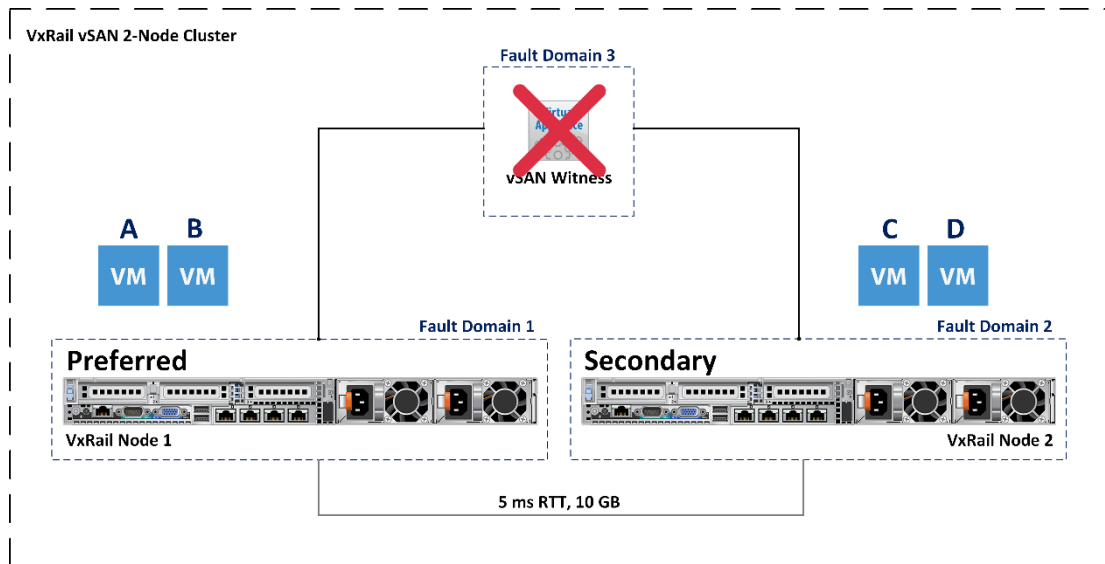
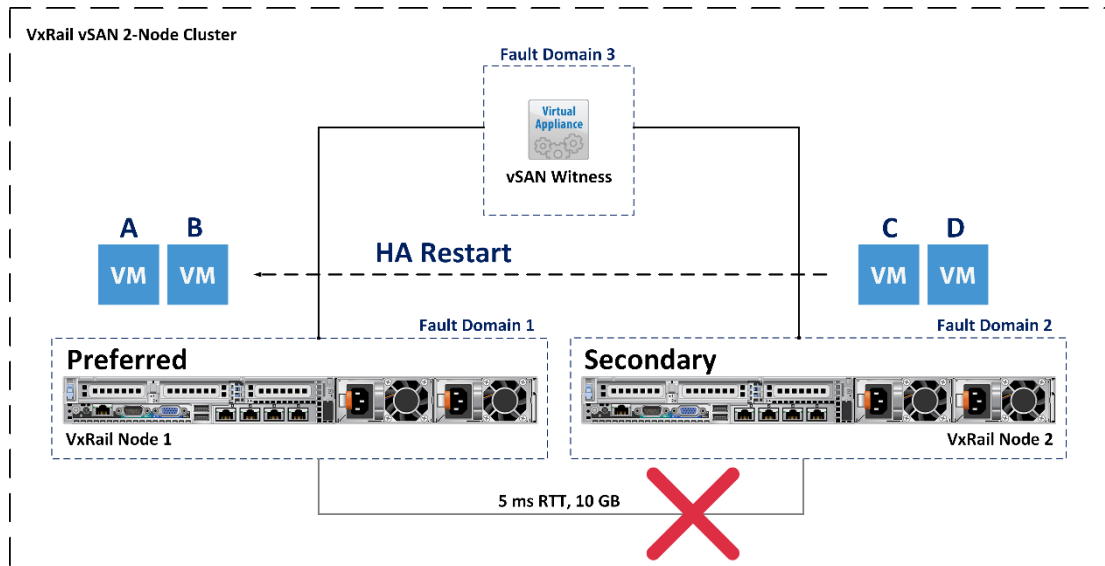




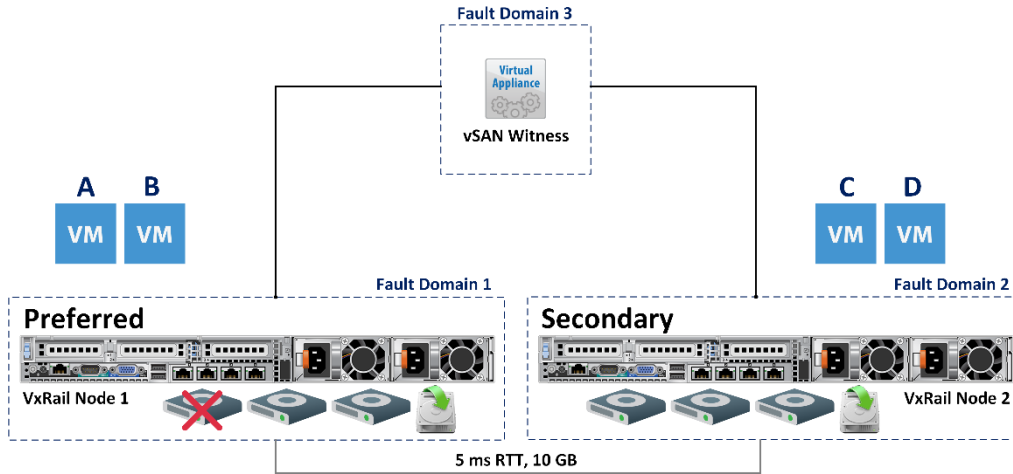
Matrix of supported external vCenter versions with VxRail

VxRail Release	ESXi (Version - Build #)	External vCenter versions	
		Minimum	Recommended
7.0.371	7.0 U3d - 19482537	7.0 U3 (7.0.3)	7.0 U3d (7.0.3.00500) or later
7.0.370	7.0 U3d - 19482537	7.0 U3 (7.0.3)	7.0 U3d (7.0.3.00500) or later
7.0.360 ³⁰	7.0 U3c - 19193900	7.0 U3 (7.0.3)	7.0 U3c (7.0.3.00300) or later
7.0.350	7.0 U3c - 19193900	7.0 U3 (7.0.3)	7.0 U3c (7.0.3.00300) or later
7.0.320 ²⁹	7.0 U3c - 19193900	7.0 U3 (7.0.3)	7.0 U3c (7.0.3.00300) or later
7.0.300	7.0 U3 - 18644231	7.0 U3 (7.0.3)	7.0 U3a (7.0.3.00100) or later
7.0.241 ²⁸	7.0 U2c - 18426014	7.0 U2 (7.0.2)	7.0 U2d (7.0.2.00500) or later
7.0.240	7.0 U2c - 18426014	7.0 U2 (7.0.2)	7.0 U2c (7.0.2.00400) or later
7.0.210 ²⁴	7.0 U2a - 17867351	7.0 U2 (7.0.2)	7.0 U2b (7.0.2.00200) or later
7.0.203 ²⁶	7.0 U2a - 17867351	7.0 U2 (7.0.2)	7.0 U2b (7.0.2.00200) or later
7.0.202	7.0 U2a - 17867351	7.0 U2 (7.0.2)	7.0 U2b (7.0.2.00200) or later
7.0.201 ²³	7.0 U2a - 17867351	7.0 U2 (7.0.2)	7.0 U2b (7.0.2.00200) or later
7.0.200	7.0 U2a - 17867351	7.0 U2 (7.0.2)	7.0 U2 (7.0.2) or later
7.0.132	7.0 U1d - 17551050	7.0 U1 (7.0.1)	7.0 U1c (7.0.1.00200) or later
7.0.131	7.0 U1d - 17551050	7.0 U1 (7.0.1)	7.0 U1c (7.0.1.00200) or later
7.0.130	7.0 U1c - 17325551	7.0 U1 (7.0.1)	7.0 U1c (7.0.1.00200) or later
7.0.101 ²⁰	7.0 U1b - 17168206	7.0 U1 (7.0.1)	7.0 U1 (7.0.1) or later
7.0.100 ²⁰	7.0 U1 - 16850804	7.0 U1 (7.0.1)	7.0 U1 (7.0.1) or later
7.0.010 ²⁰	7.0 b - 16324942	7.0 GA	7.0.0b or later
7.0.000 ²⁰	7.0 GA - 15843807	7.0 GA	7.0 GA or later



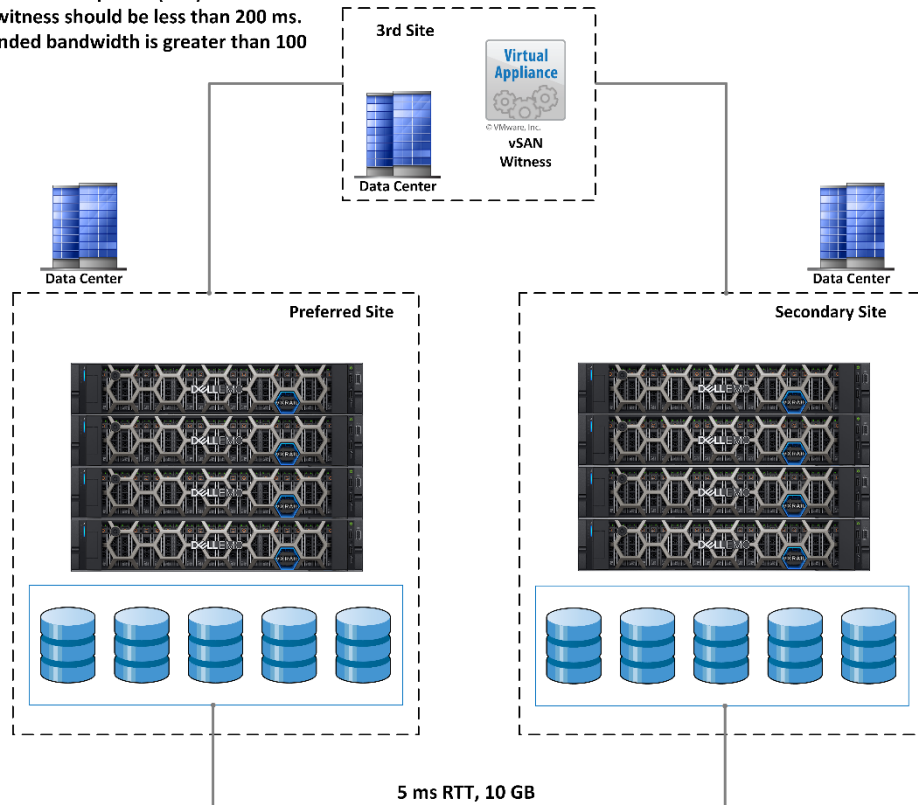


VxRail vSAN 2-Node Cluster



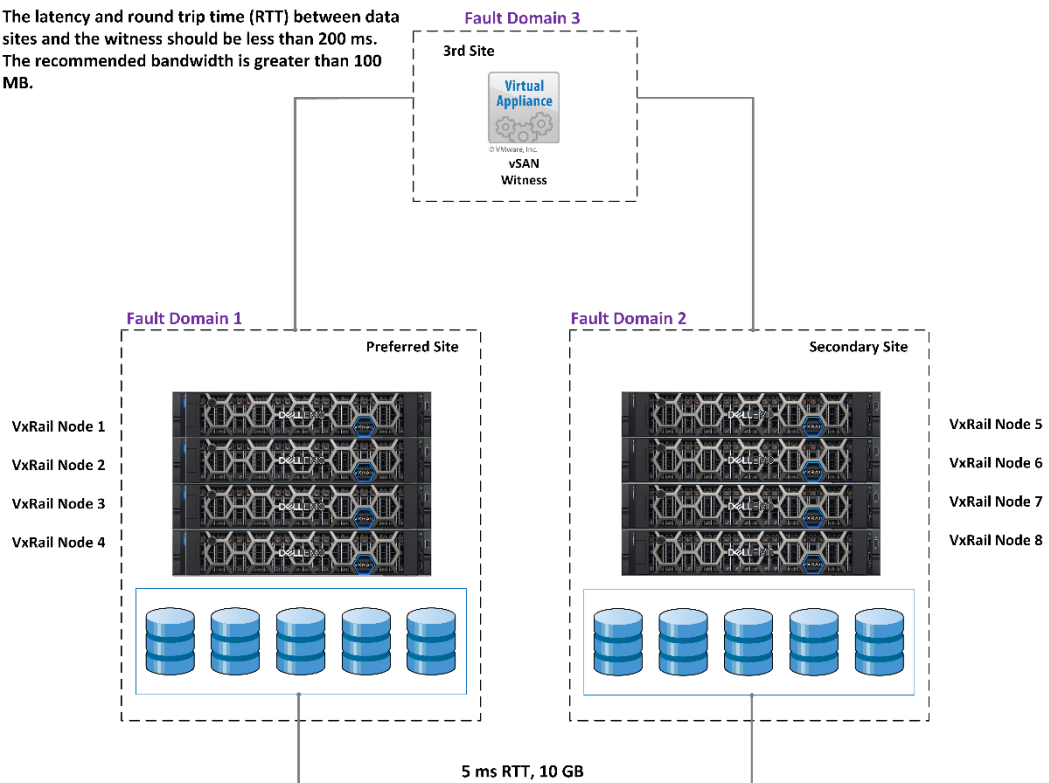
Chapter 7: Design of Stretched Cluster on VxRail

The latency and round trip time (RTT) between data sites and the witness should be less than 200 ms. The recommended bandwidth is greater than 100 MB.



The latency/RTT between two data sites should be less than 5 ms with a recommended minimum bandwidth of 10 Gbps.

The latency and round trip time (RTT) between data sites and the witness should be less than 200 ms. The recommended bandwidth is greater than 100 MB.



The latency/RTT between two data sites should be less than 5 ms with a recommended minimum bandwidth of 10 Gbps.

Create VM Storage Policy

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

vSAN

Availability
Storage rules
Advanced Policy Rules
Tags

Site disaster tolerance ⓘ
Failures to tolerate ⓘ

None - standard cluster
None - standard cluster
Host mirroring - 2 node cluster
Site mirroring - stretched cluster
None - keep data on Preferred (stretched cluster)
None - keep data on Secondary (stretched cluster)
None - stretched cluster

CANCEL
BACK
NEXT

Site disaster tolerance ⓘ

None - standard cluster

Failures to tolerate ⓘ

- 1 failure - RAID-1 (Mirroring)
- No data redundancy
- No data redundancy with host affinity
- 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

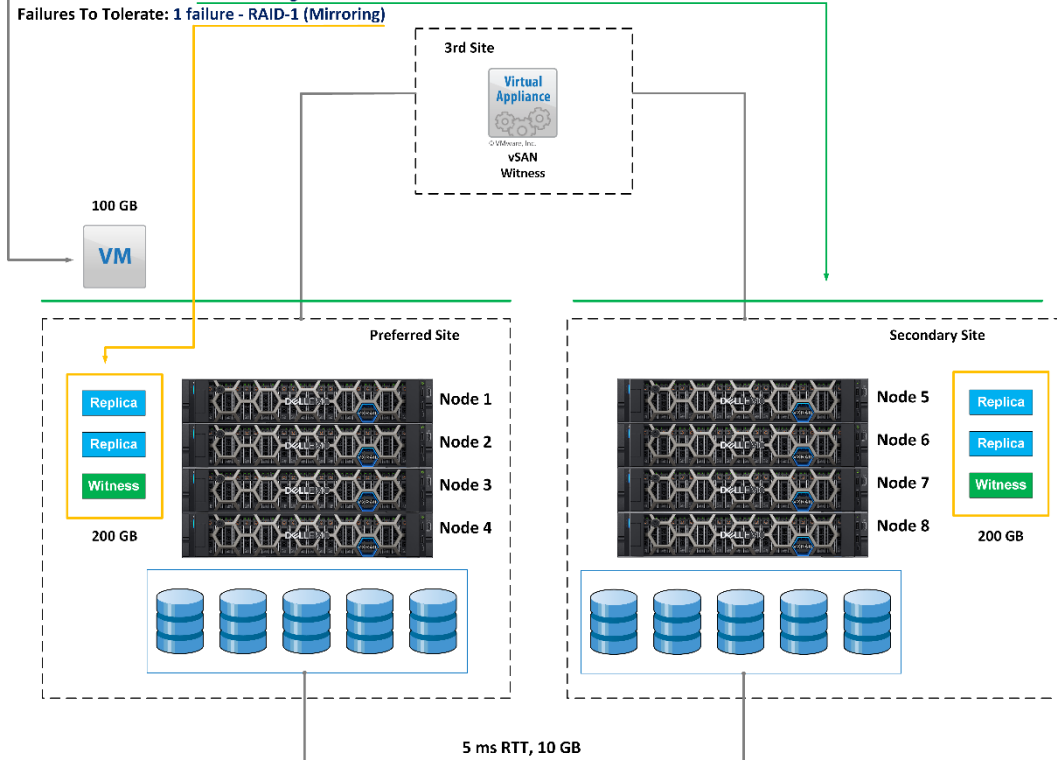
BACK

NEXT

VM Storage Policy

Site Disaster Tolerance: Site mirroring - stretched cluster

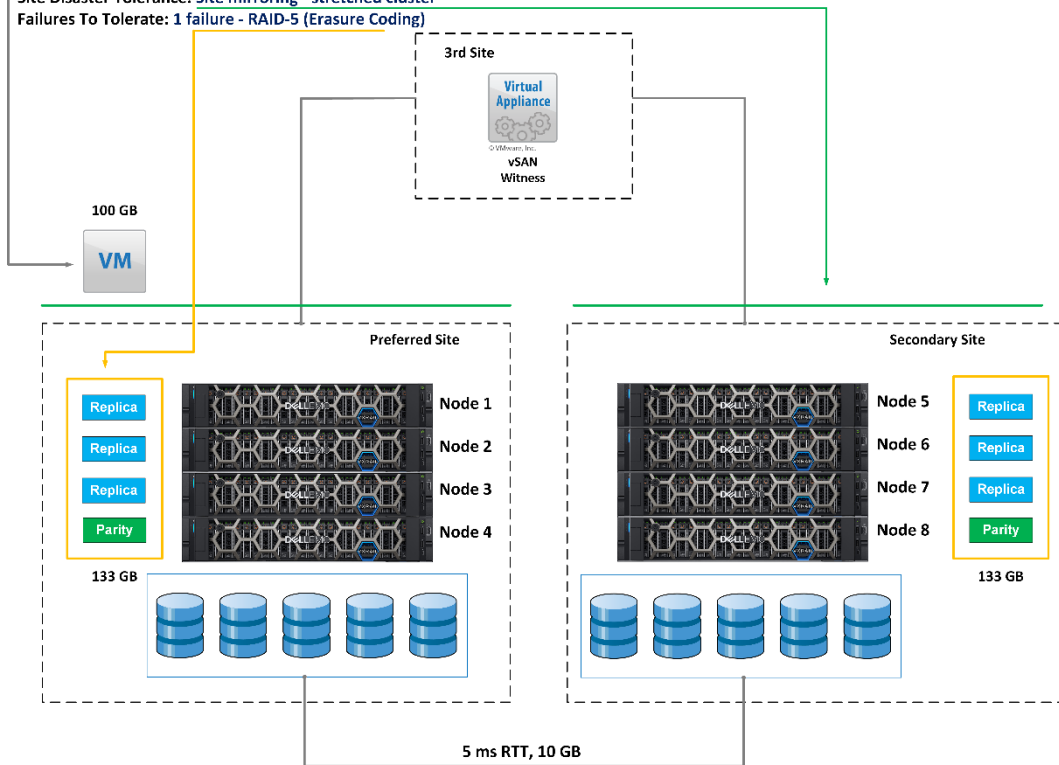
Failures To Tolerate: 1 failure - RAID-1 (Mirroring)



VM Storage Policy

Site Disaster Tolerance: **Site mirroring - stretched cluster**

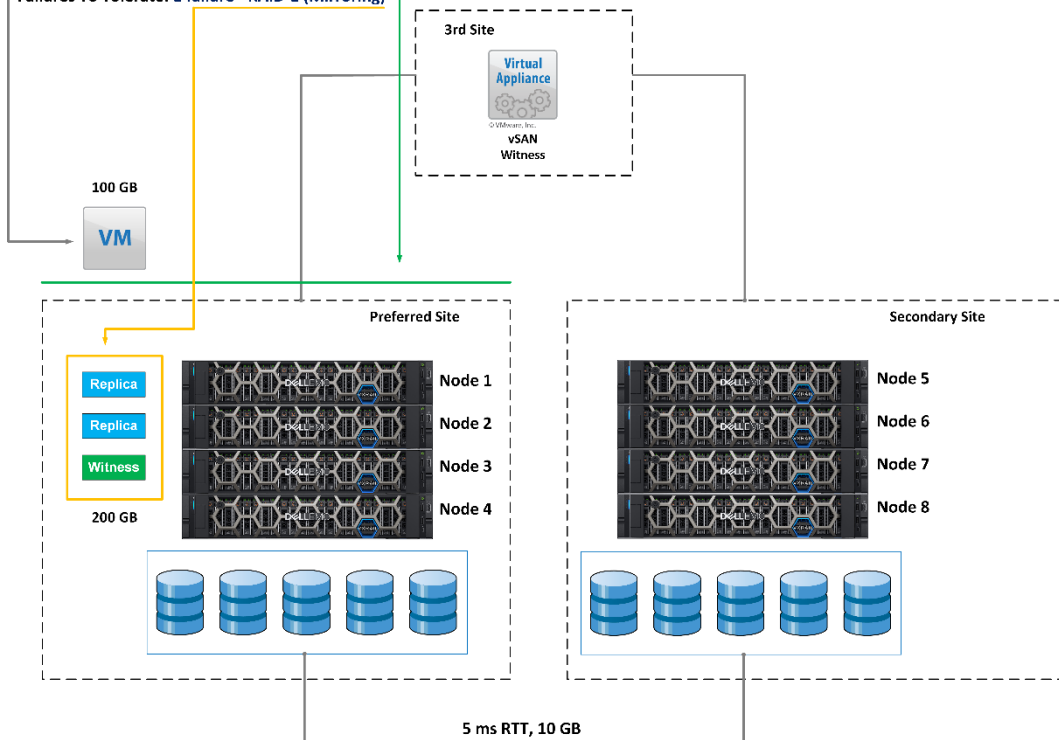
Failures To Tolerate: **1 failure - RAID-5 (Erasure Coding)**

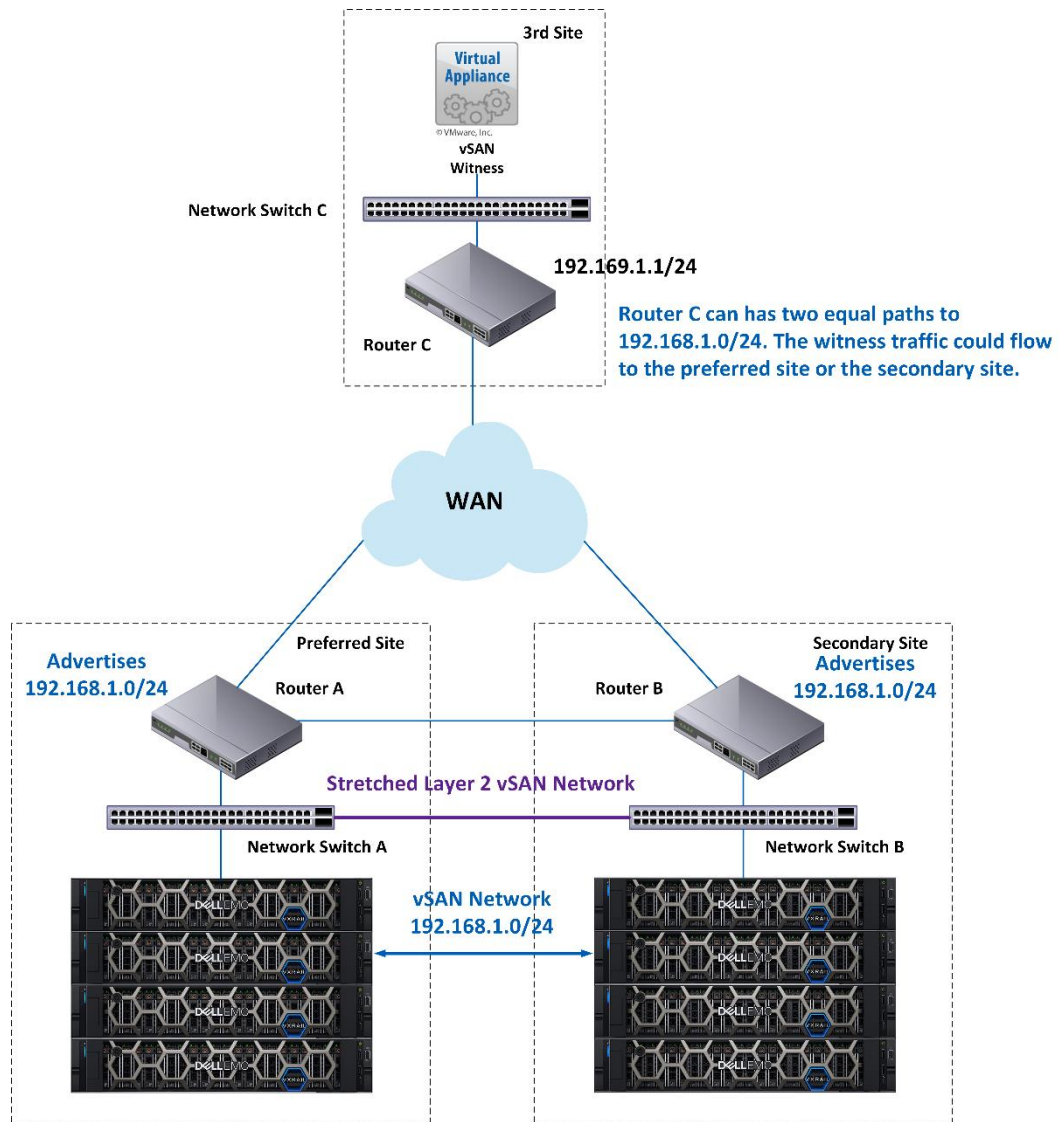


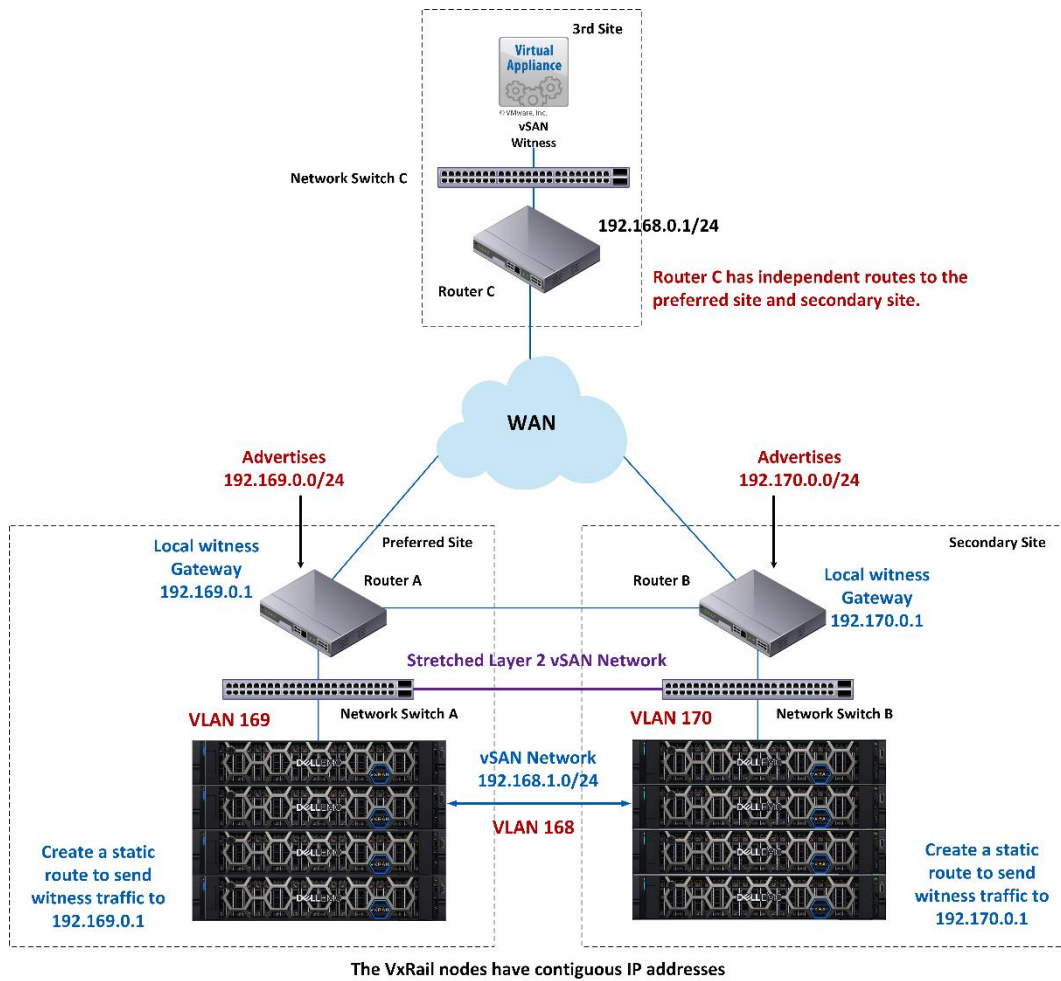
VM Storage Policy

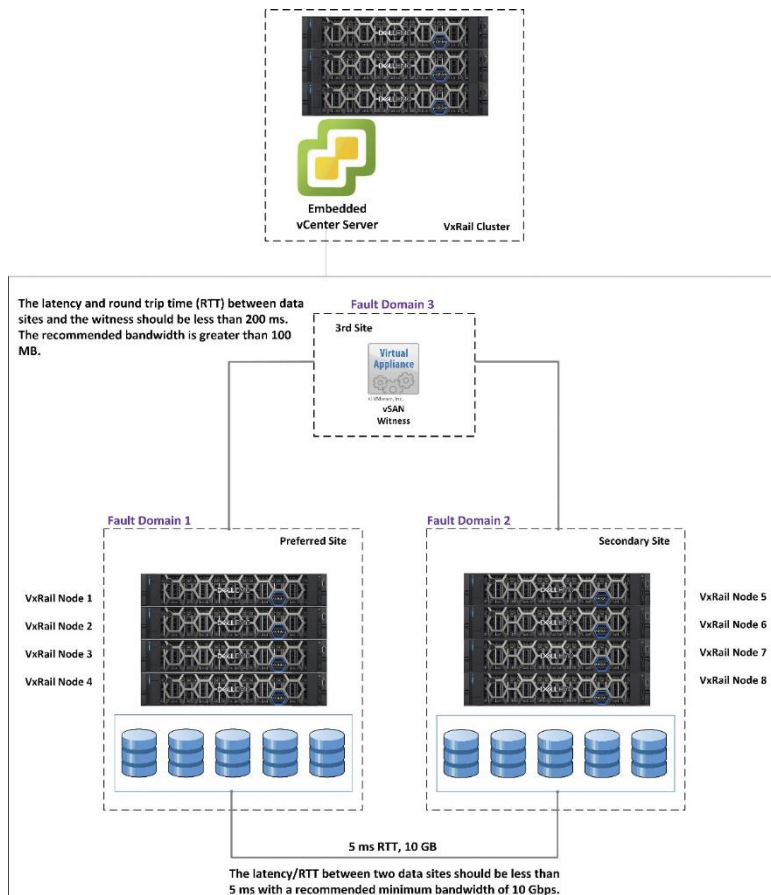
Site Disaster Tolerance: **None - keep data on Preferred (stretched cluster)**

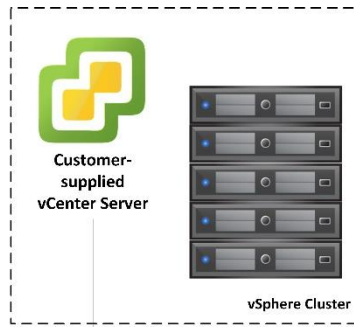
Failures To Tolerate: **1 failure - RAID-1 (Mirroring)**











The latency and round trip time (RTT) between data sites and the witness should be less than 200 ms. The recommended bandwidth is greater than 100 MB.

Fault Domain 3

3rd Site



Fault Domain 1

Preferred Site

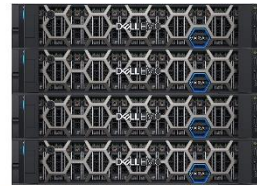
VxRail Node 1
VxRail Node 2
VxRail Node 3
VxRail Node 4



Fault Domain 2

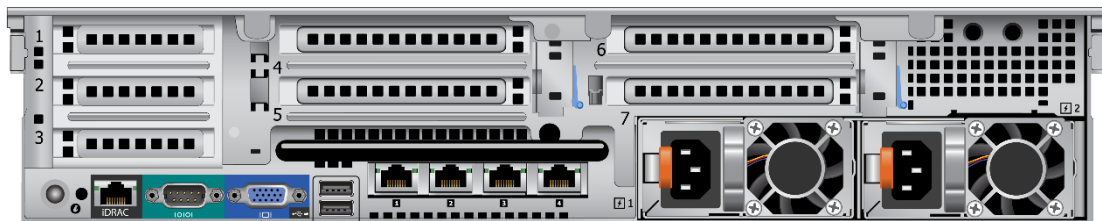
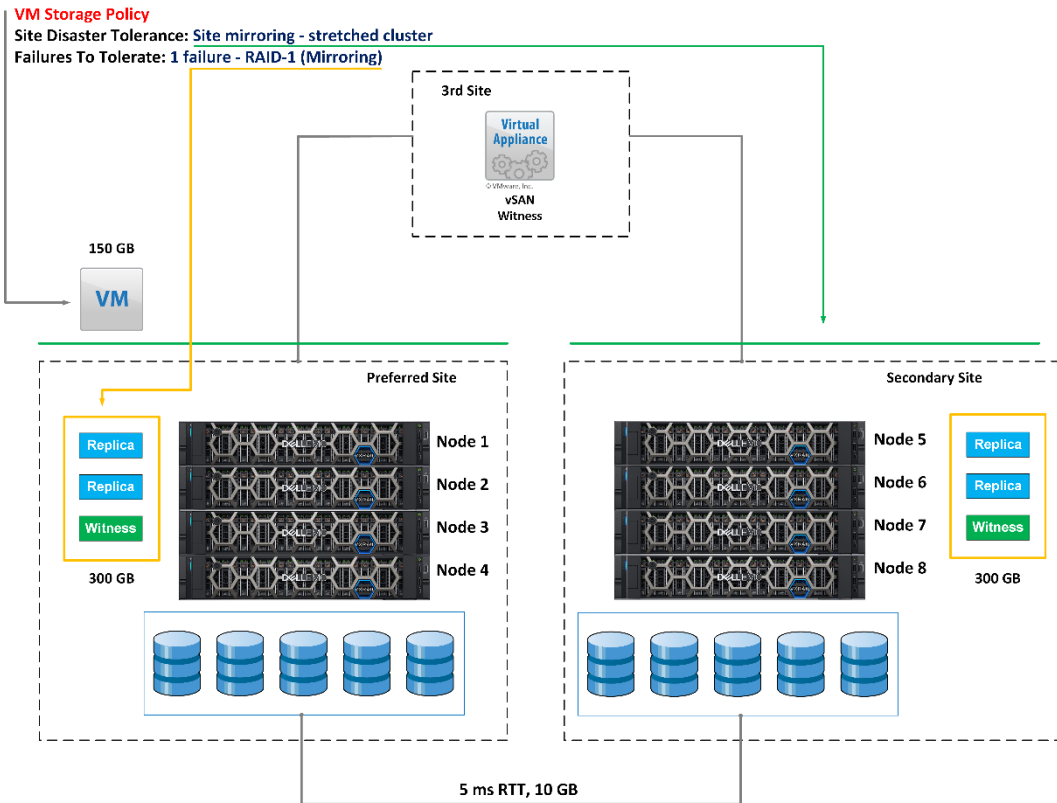
Secondary Site

VxRail Node 5
VxRail Node 6
VxRail Node 7
VxRail Node 8



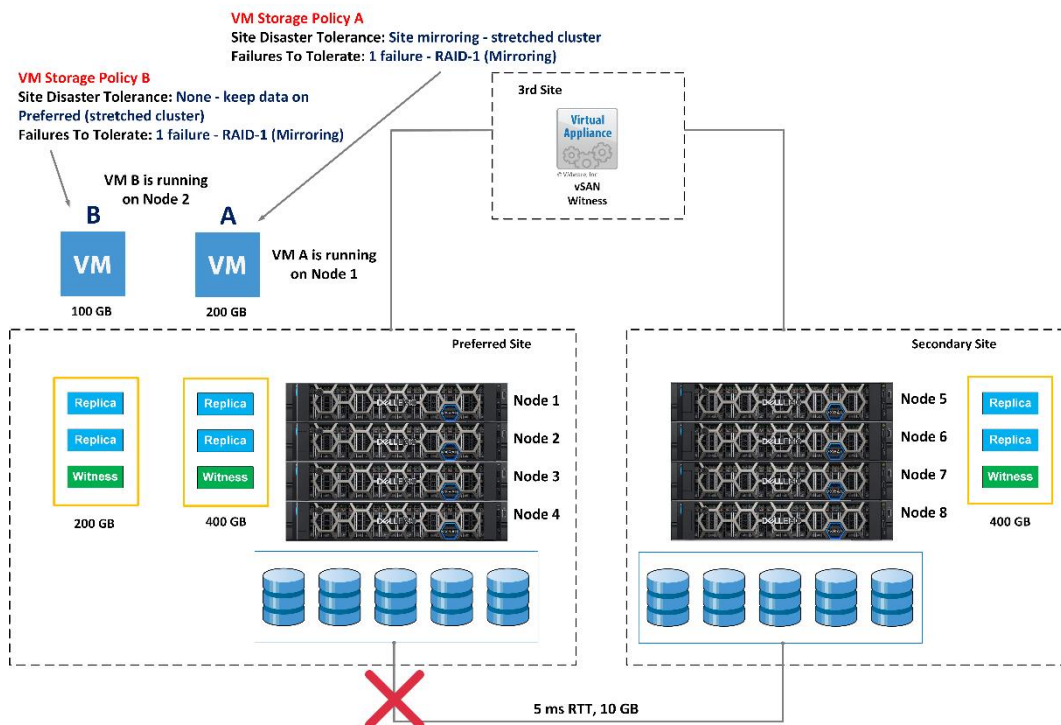
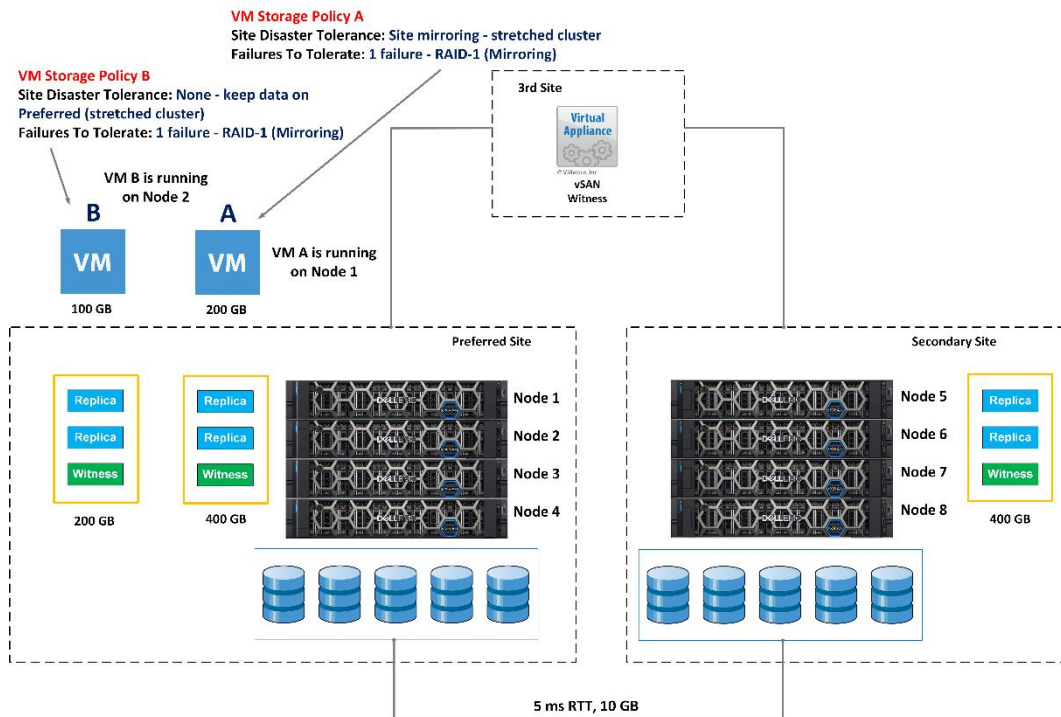
5 ms RTT, 10 GB

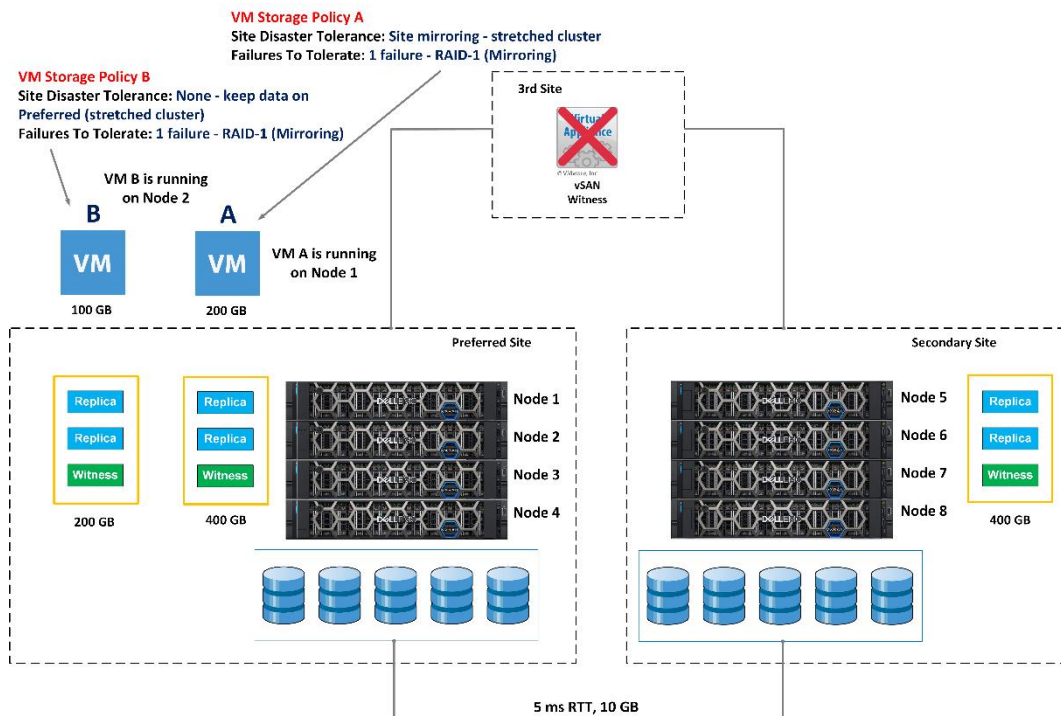
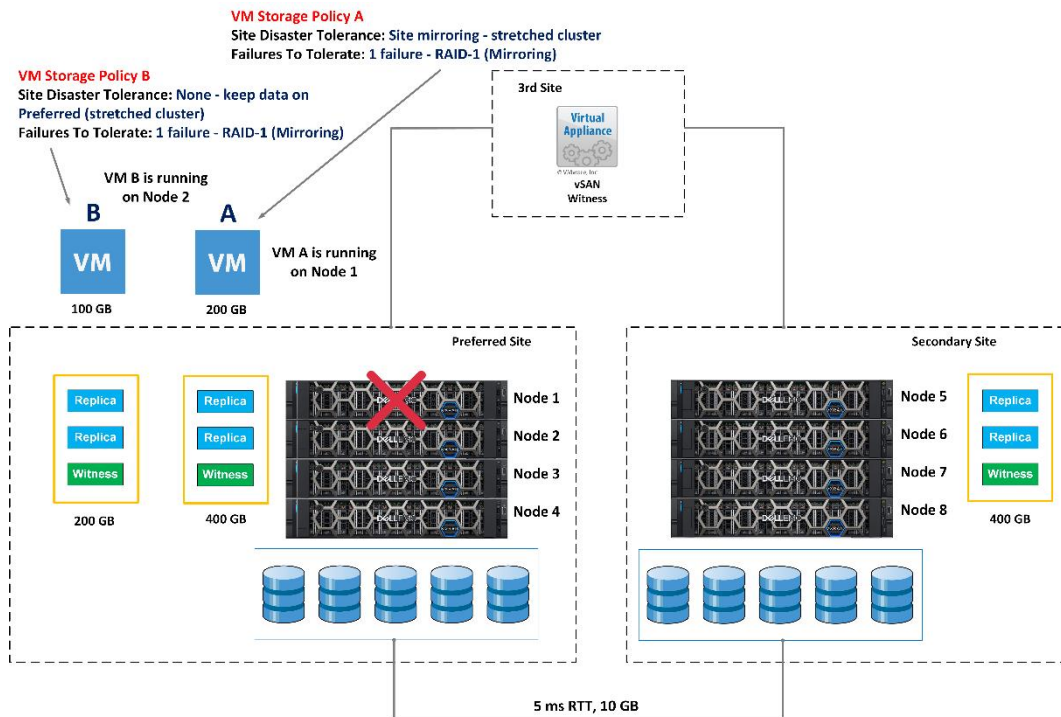
The latency/RTT between two data sites should be less than 5 ms with a recommended minimum bandwidth of 10 Gbps.

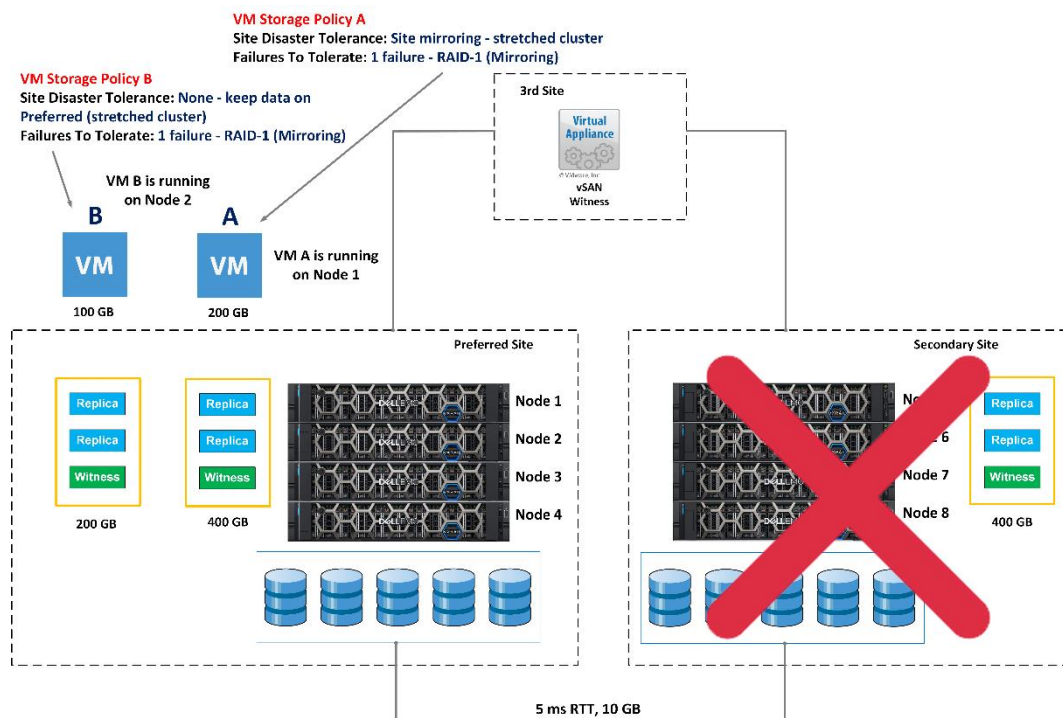
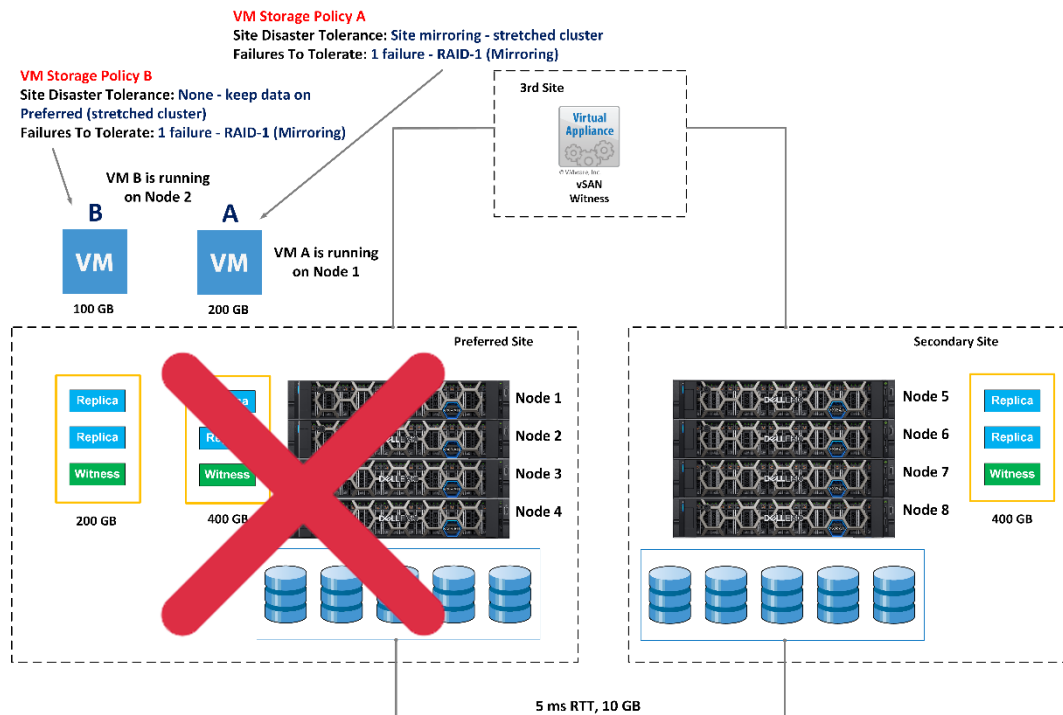


P1 P2 P3 P4

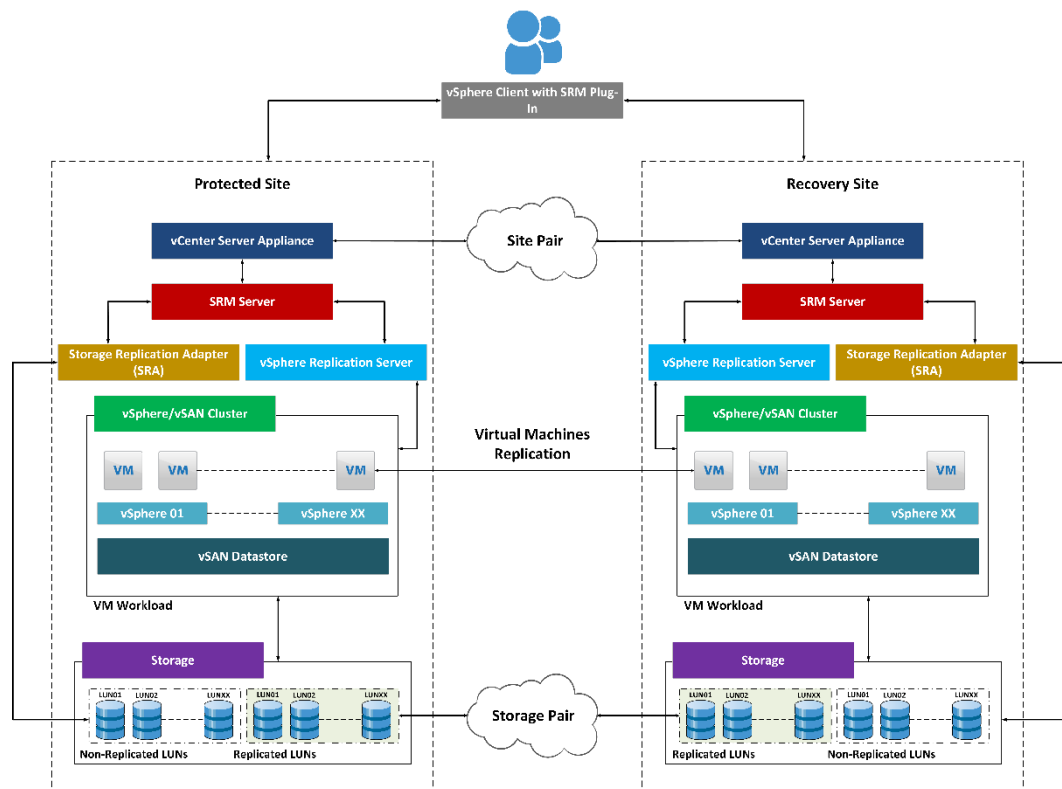
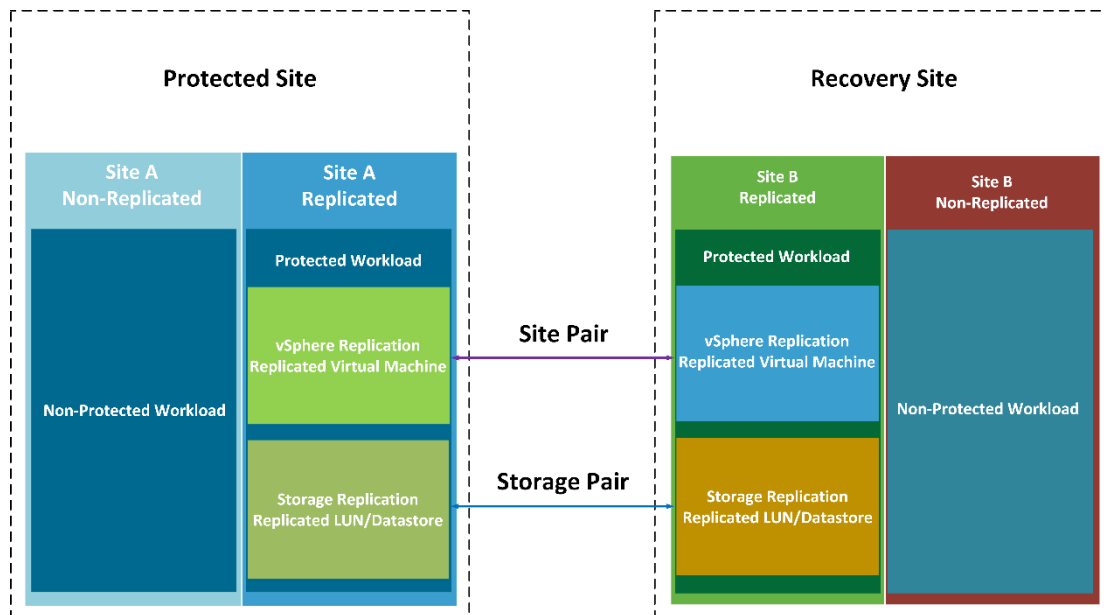
Intel Ethernet X710 Quad Port 10GbE

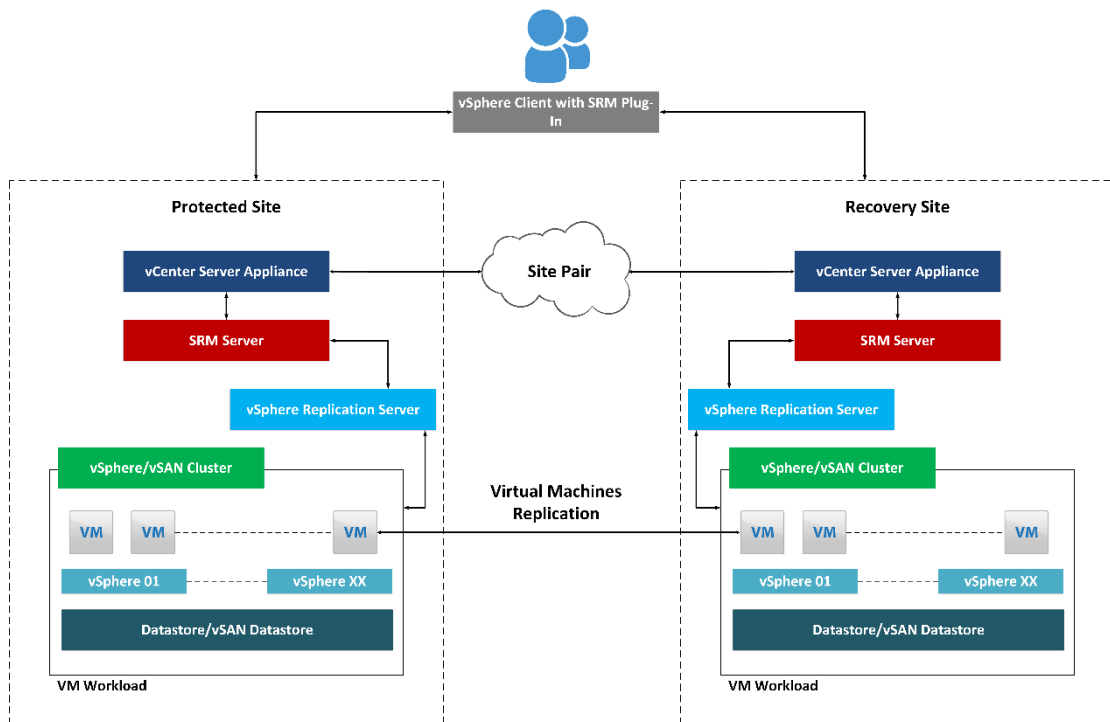
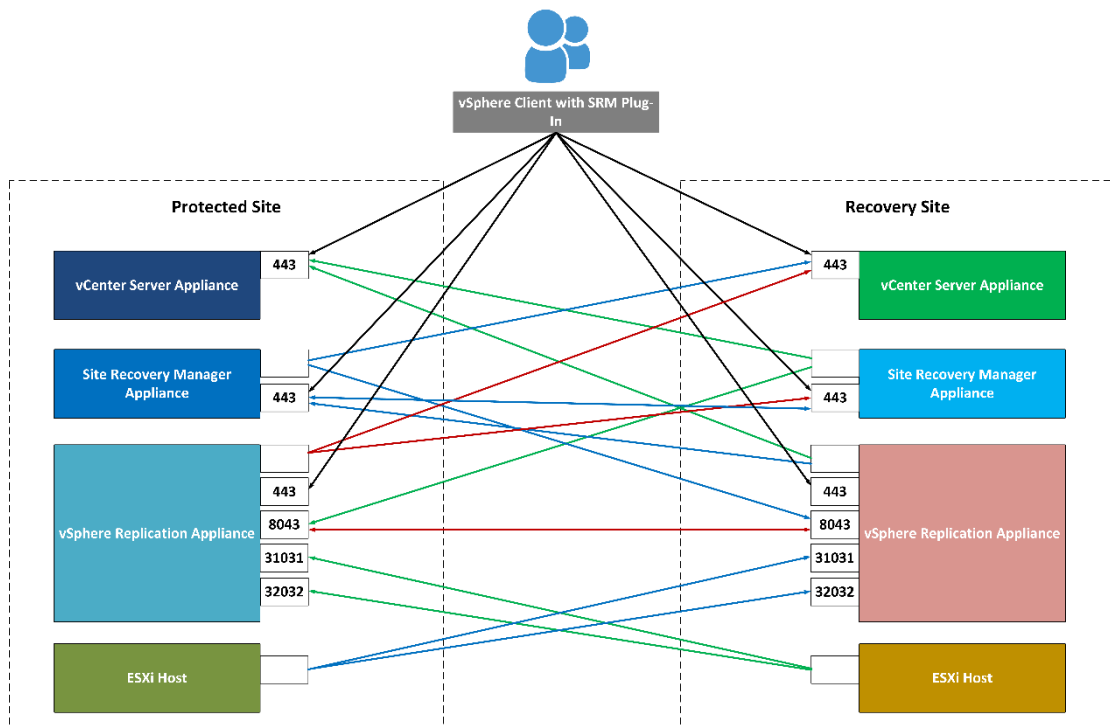






Chapter 8: Design of VxRail with SRM





VMware Compatibility Guide

Search Compatibility Guide: All Listings

What are you looking for: Compatibility Guides Current Results: **1**

Product Release Version:
All
SRM 8.5
SRM 8.4
SRM 8.3
SRM 8.2
SRM 8.1
SRM 6.5
SRM 6.1
SRM 6.0
SRM 5.8
SRM 5.5
SRM 5.5 Update1

Partner Name:
All
3PAR
Cisco
DataCore Software Corporation
Detrium Inc.,
Dell EMC
Dell Inc.
Dot Hill
FalconStor Software
Fujitsu
GreenBytes
Hewlett Packard Enterprise

Protocols:
All
FC
iSCSI
NAS
SAS
SVD

SRA Name:
DellEMC RecoverPoint SRA
Dot Hill AssuredSAN SRA
EMC Isilon Storage Replication Adapter
EMC SRDF Adapter
EMC SRDF Adapter for VMware Site Rec
EMC SRDF SRA
EMC Unity Block SRA
EMC Unity File SRA
EMC VPR SRA
EMC VNX SRA with MirrorView Enabler f
EMC VNX SRA with VNX Replicator Enab
EMC VNXe Block SRA
EMC VNXe SRA
EMC VPLEX Storage Replication Adapter
Exos X SRA

Keyword:
Posted Date Range: All

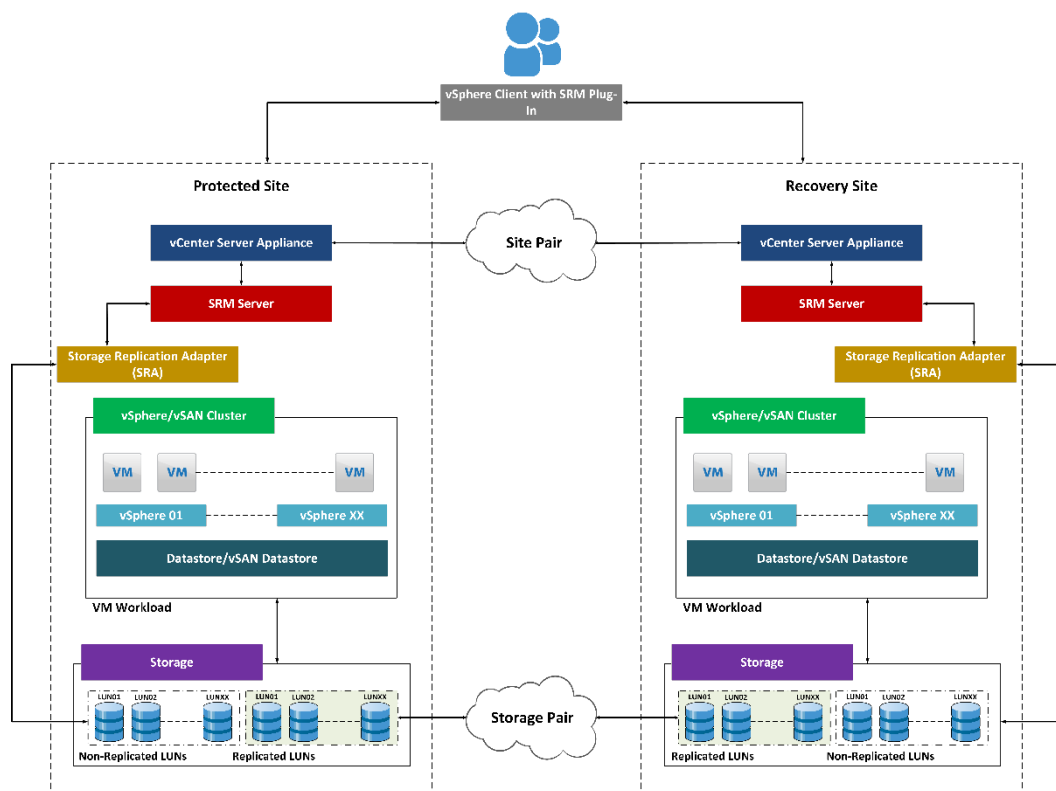
[Click here to Read Important Support Information](#)

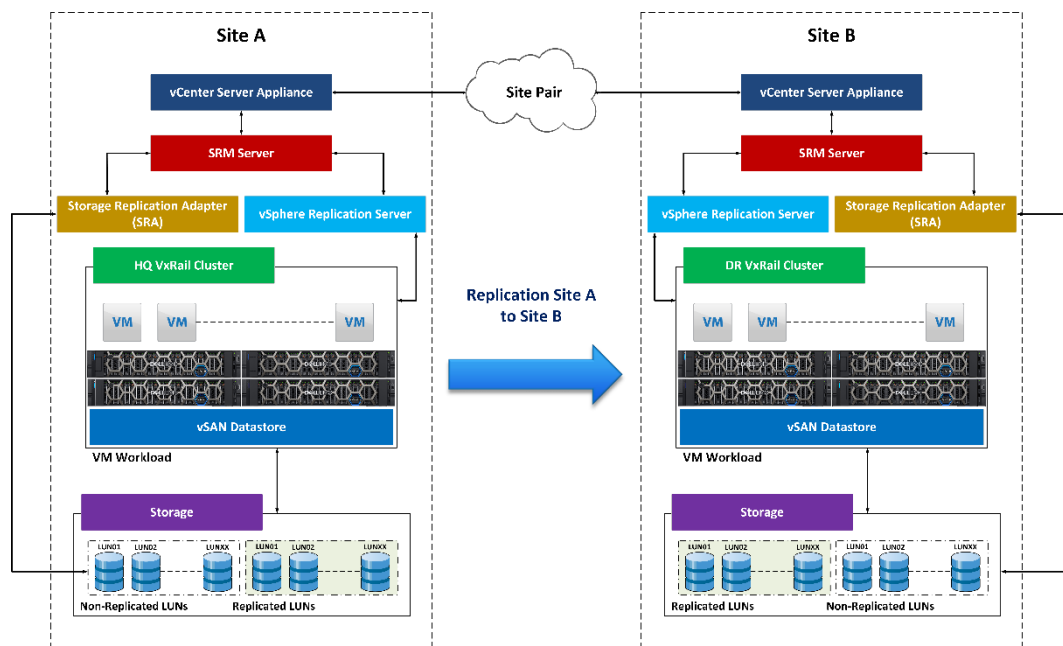
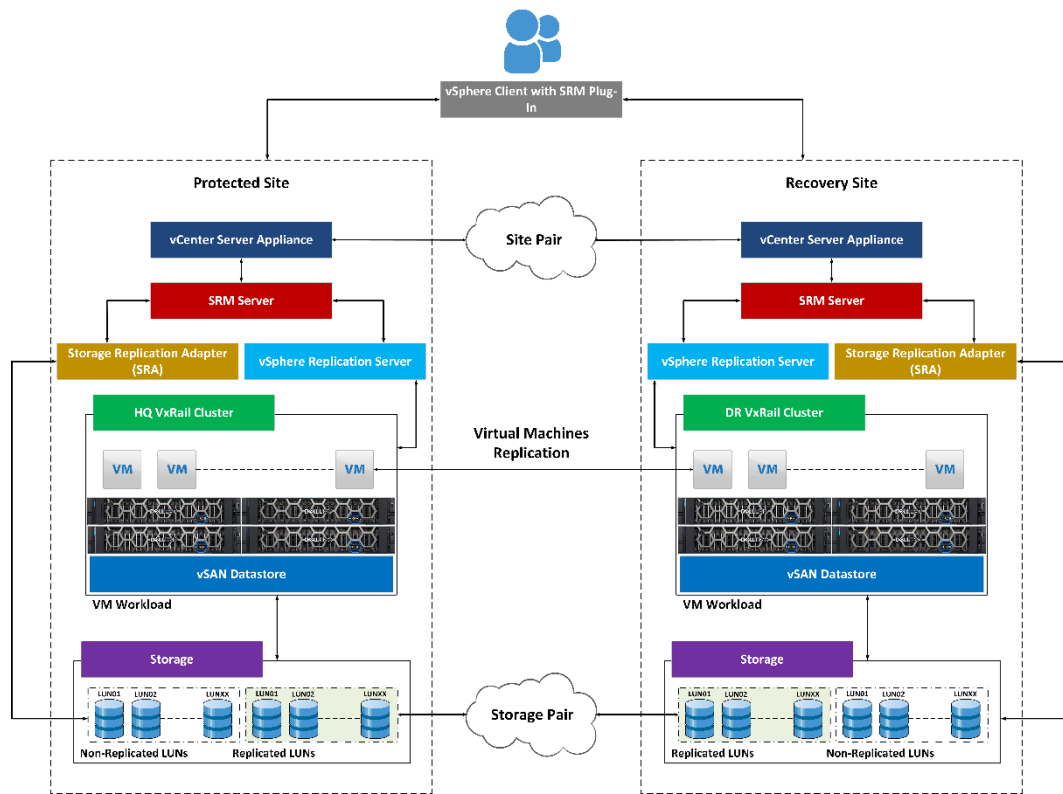
Click on the 'Model' to view more details and to subscribe to RSS feeds.

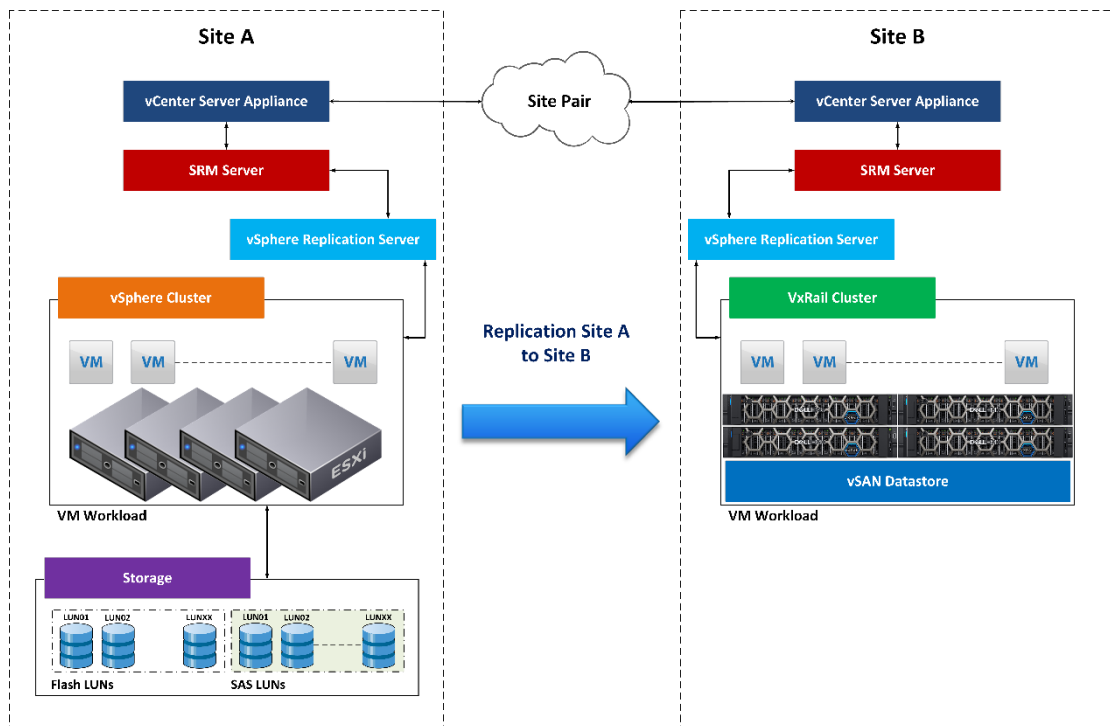
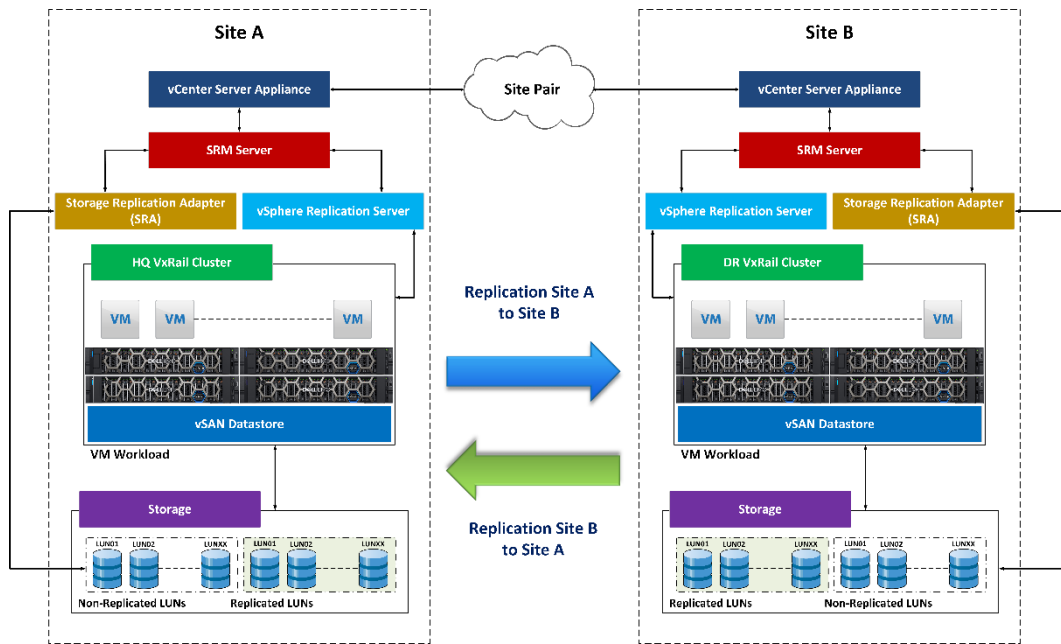
[Bookmark](#) | [Print](#) | [Export to CSV](#)

Search Results: Your search for " Site Recovery Manager (SRM) for SRA " returned one result [Back to Top](#) [Turn Off Auto Scroll](#) Display: **10**

Partner Name	SRA Name	OS Type	SRM Version(s)
Dell EMC	EMC Unity Block SRA 5.0.4.146	Windows	SRM 8.3 SRM 8.2 SRM 8.1 SRM 6.5
		Photon	SRM 8.5 SRM 8.4 SRM 8.3 SRM 8.2







Recovery - LAST SUCCESSFUL

1 Confirmation options

2 Ready to complete

Confirmation options

Recovery confirmation

!

Running this plan in recovery mode will attempt to shut down the VMs at the protected site and recover the VMs at the recovery site.

Protected site:

Recovery site:

Server connection:

Number of VMs:

Connected

1

☒ I understand that this process will permanently alter the virtual machines and infrastructure of both the protected and recovery datacenters.

Recovery type

☒ Planned migration

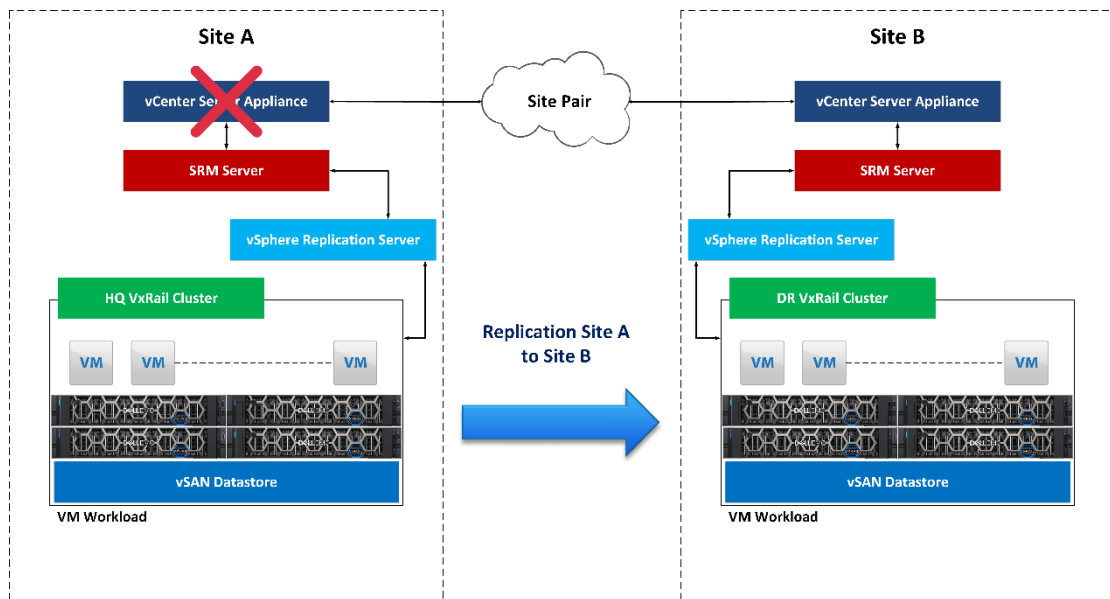
Replicate recent changes to the recovery site and cancel recovery if errors are encountered. (Sites must be connected and storage replication must be available.)

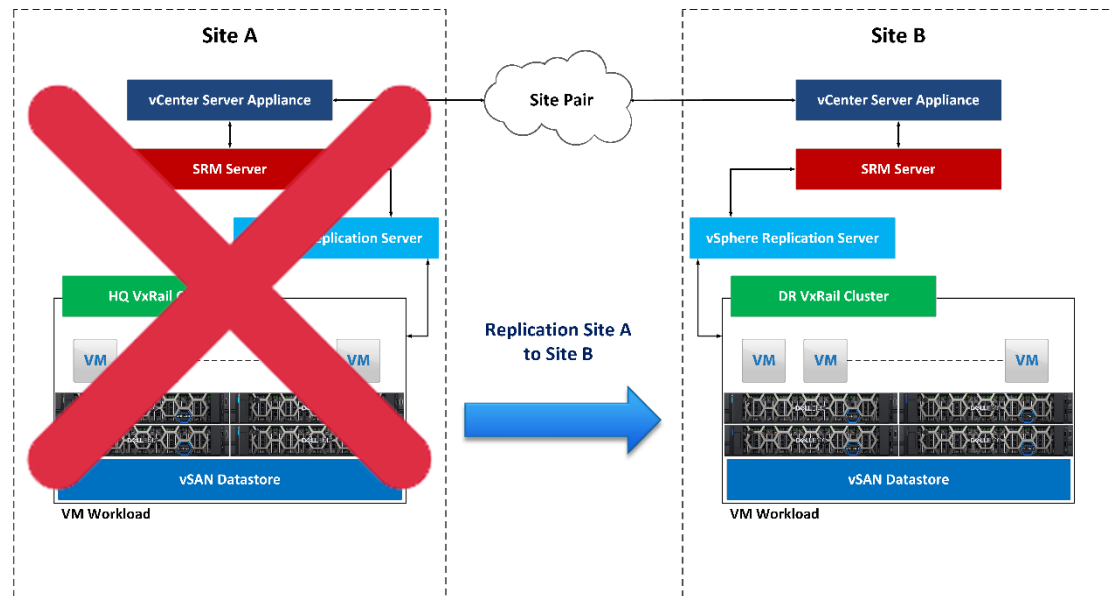
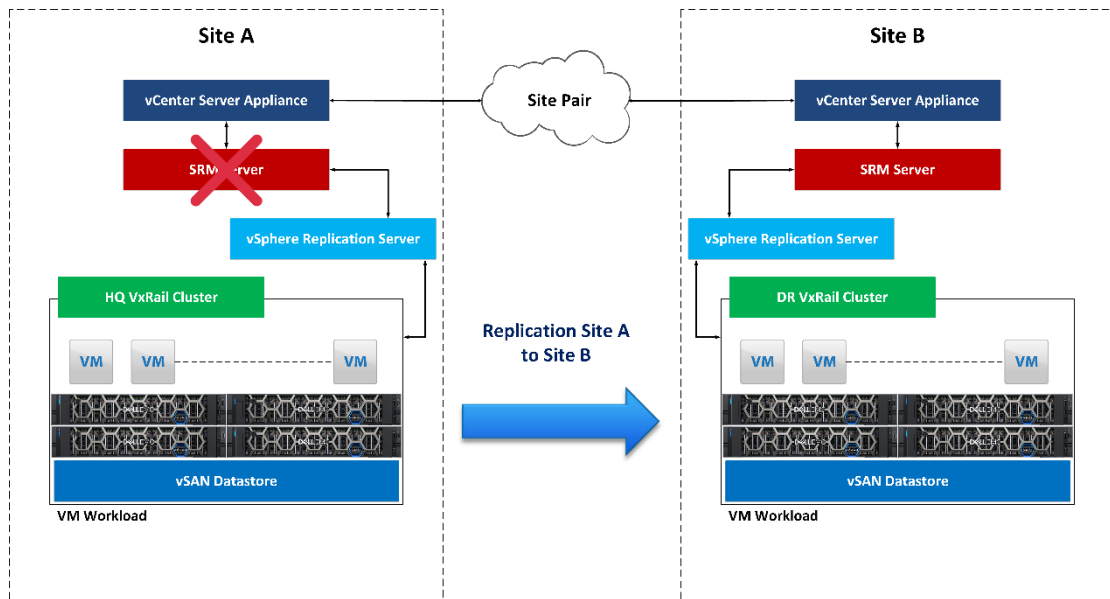
☐ Disaster recovery

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

CANCEL

NEXT





Recovery - LAST SUCCESSFUL

1 Confirmation options

2 Ready to complete

Confirmation options

Recovery confirmation

Running this plan in recovery mode will attempt to shut down the VMs at the protected site and recover the VMs at the recovery site.

Protected site:

Recovery site:

Server connection: Connected

Number of VMs: 1

☒

I understand that this process will permanently alter the virtual machines and infrastructure of both the protected and recovery datacenters.

Recovery type

☒ Planned migration

Replicate recent changes to the recovery site and cancel recovery if errors are encountered. (Sites must be connected and storage replication must be available.)

☐ Disaster recovery

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

CANCEL

NEXT

The diagram illustrates a disaster recovery setup between two sites, Site A and Site B, connected via a Site Pair cloud.

Site A (HQ):

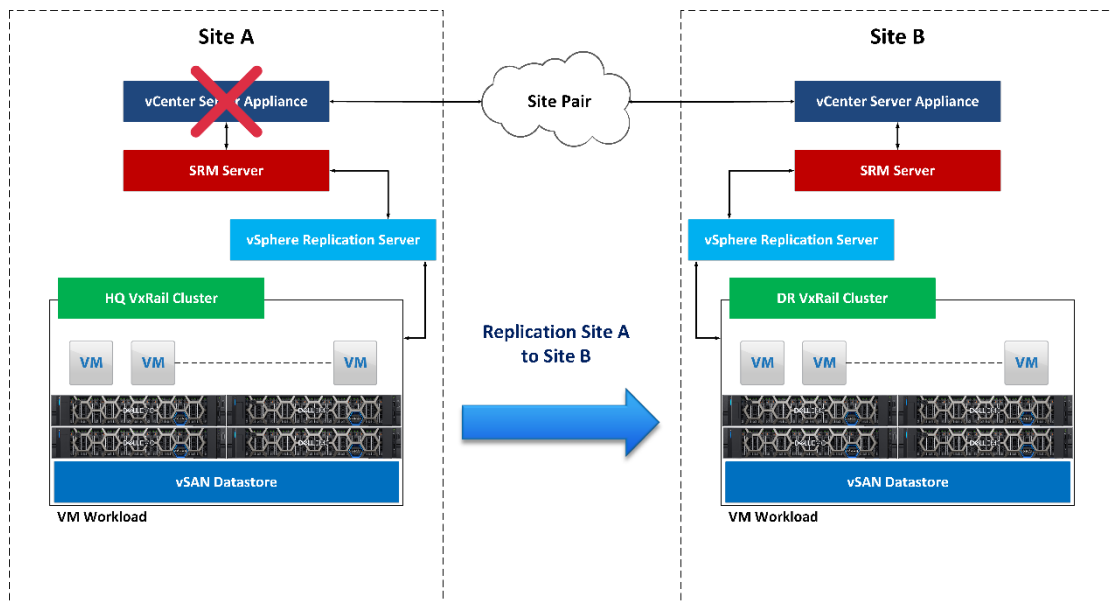
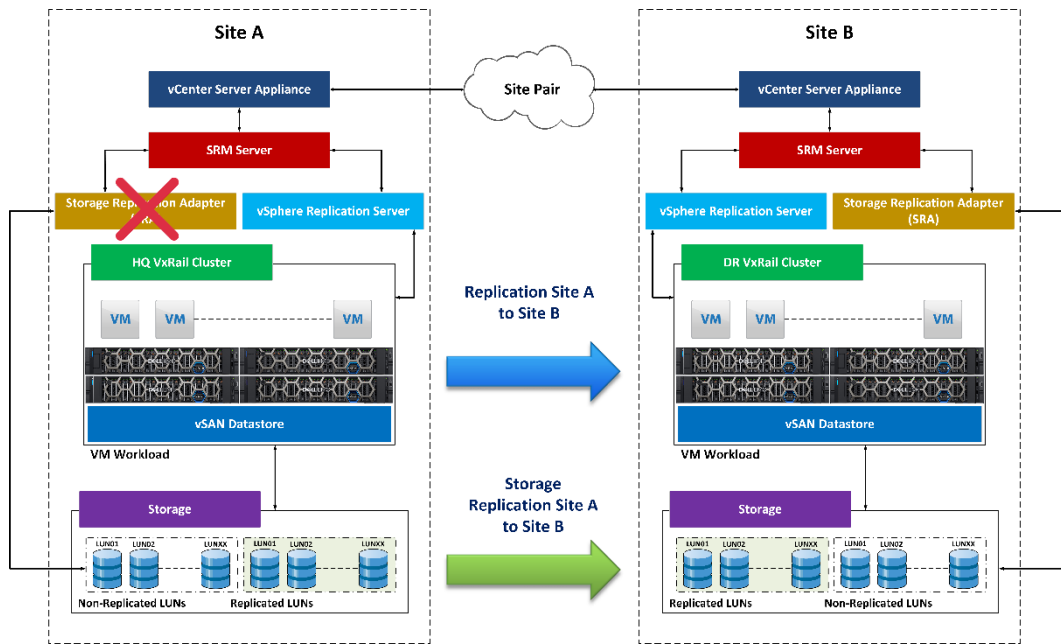
- vCenter Server Appliance** connects to the **SRM Server**.
- The **SRM Server** connects to the **Storage Replication Adapter (SRA)** and the **vSphere Replication Server**.
- The **vSphere Replication Server** connects to the **HQ VxRail Cluster**.
- The **HQ VxRail Cluster** contains **VM** (Virtual Machines) and a **vSAN Datastore**.
- The **vSAN Datastore** is part of the **VM Workload**.
- The **VM Workload** connects to **Storage**, which includes **Non-Replicated LUNs** and **Replicated LUNs**.

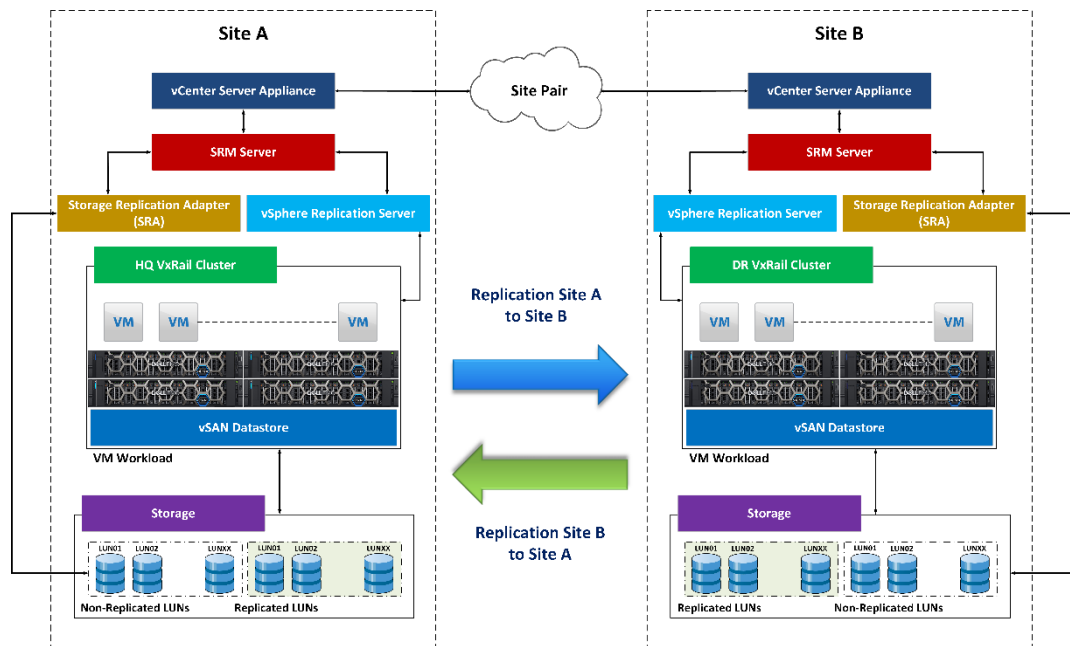
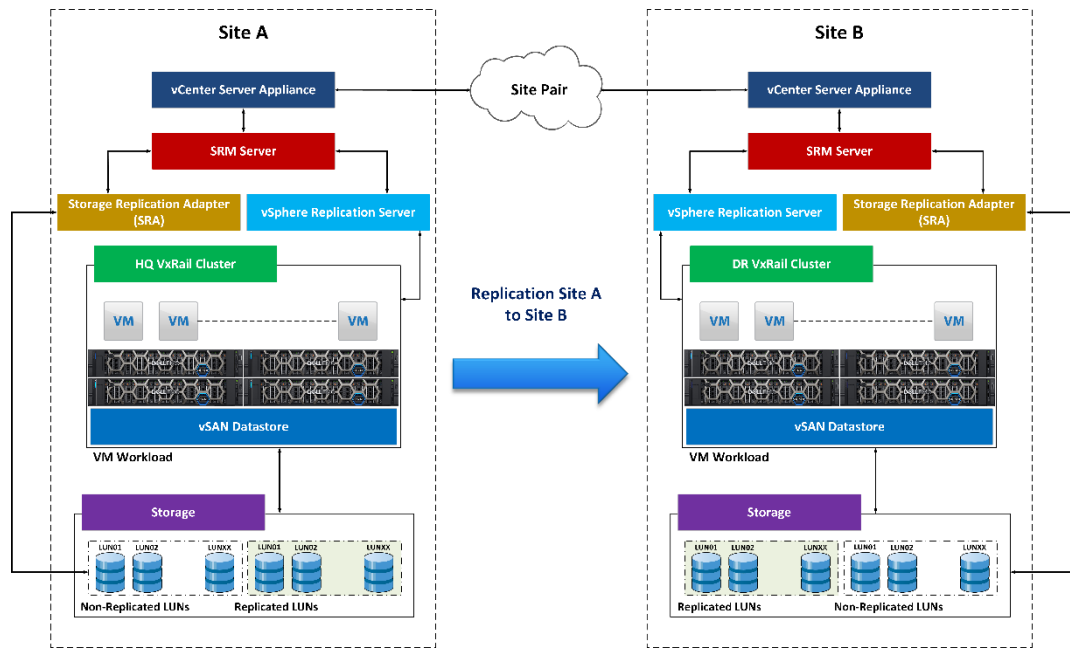
Site B (DR):

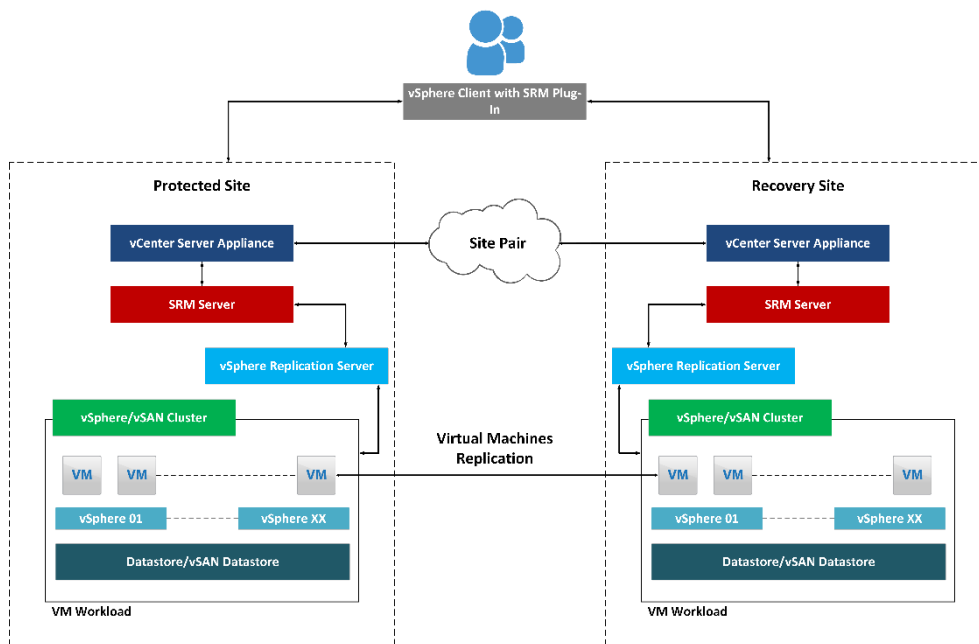
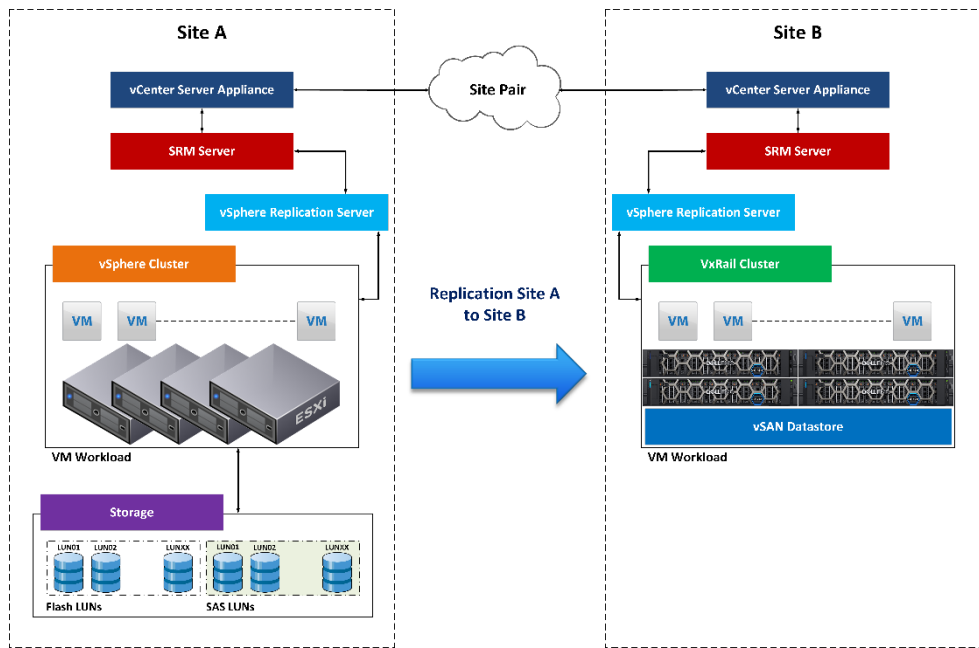
- vCenter Server Appliance** connects to the **SRM Server**.
- The **SRM Server** connects to the **vSphere Replication Server** and the **Storage Replication Adapter (SRA)**.
- The **vSphere Replication Server** connects to the **DR VxRail Cluster**.
- The **DR VxRail Cluster** contains **VM** (Virtual Machines) and a **vSAN Datastore**.
- The **vSAN Datastore** is part of the **VM Workload**.
- The **VM Workload** connects to **Storage**, which includes **Replicated LUNs** and **Non-Replicated LUNs**.

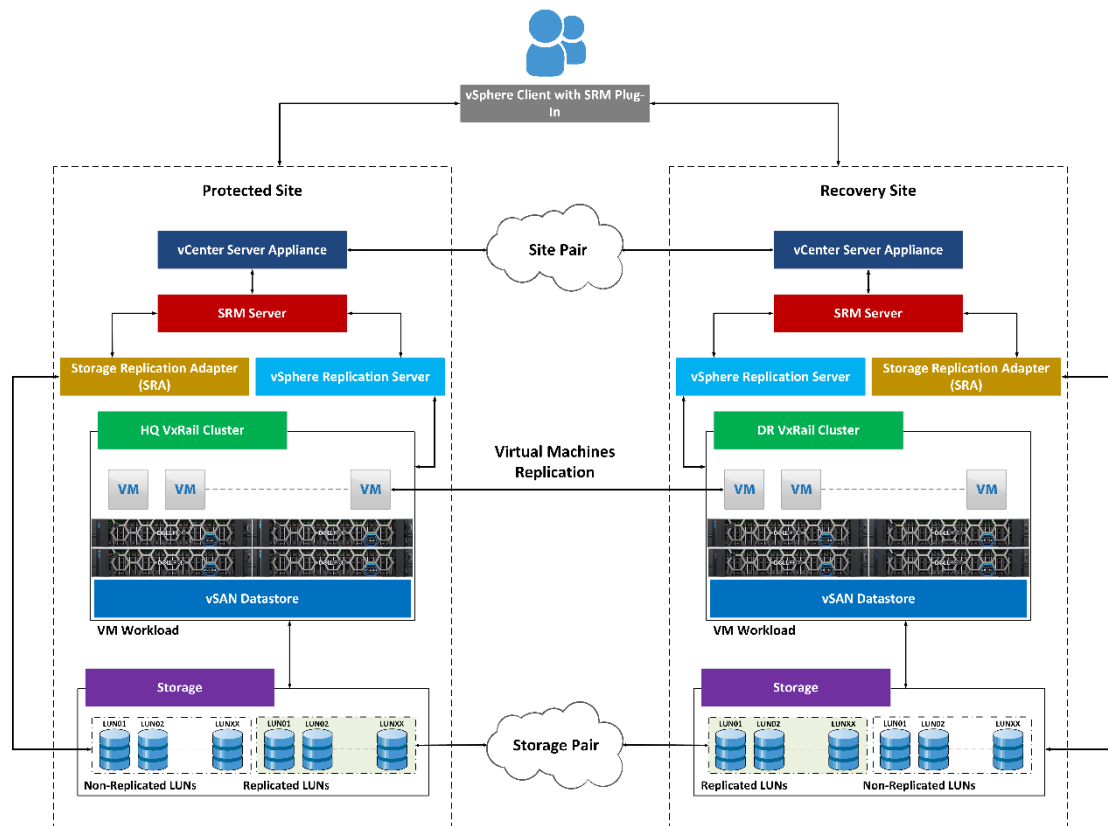
Replication and Recovery Paths:

- A blue arrow labeled **Replication Site A to Site B** indicates the flow of replicated data from Site A to Site B.
- A green arrow labeled **Storage Replication Site A to Site B** is crossed out with a red X, indicating that storage replication is not the primary method for recovery in this scenario.

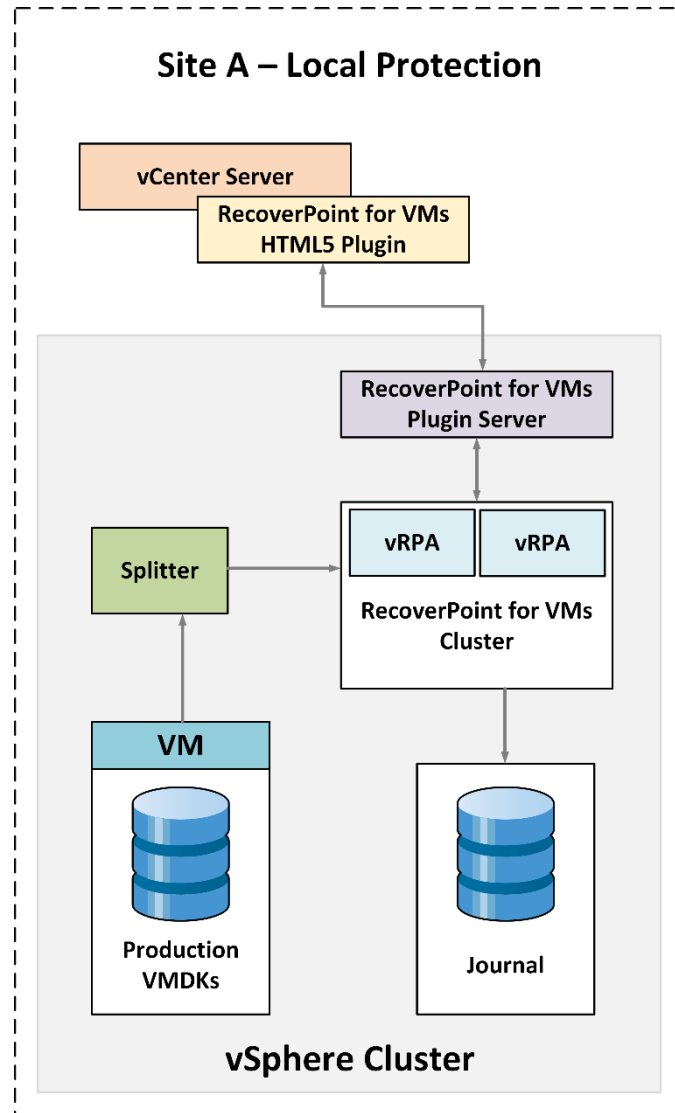


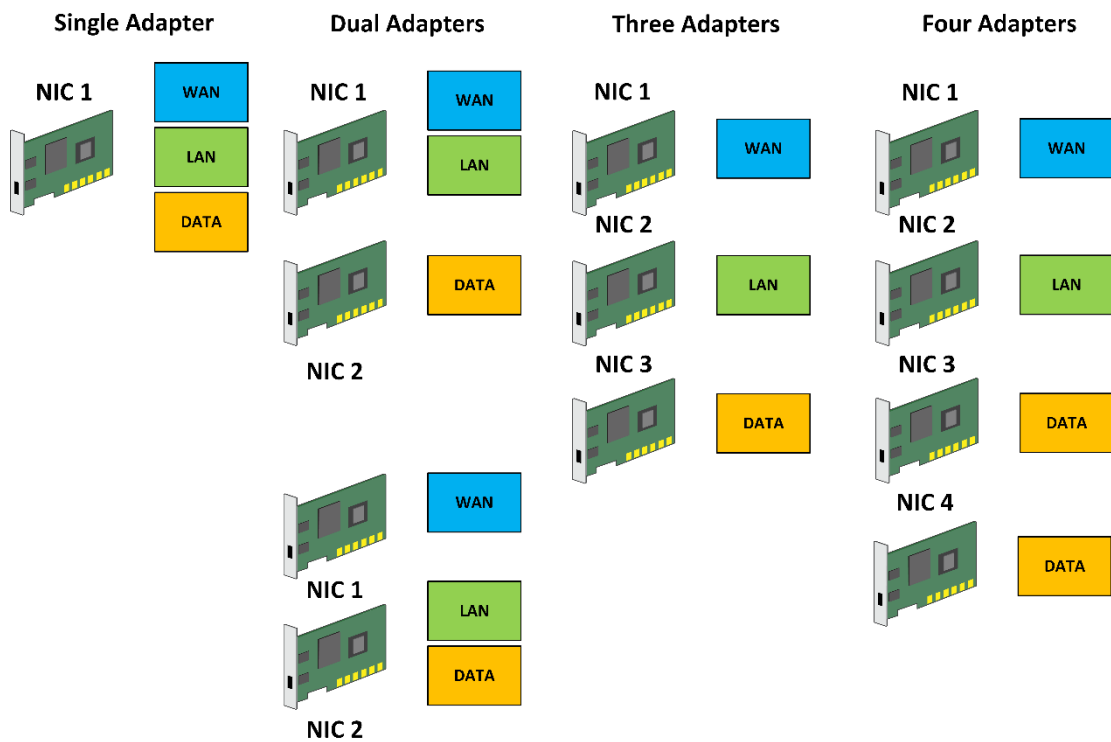
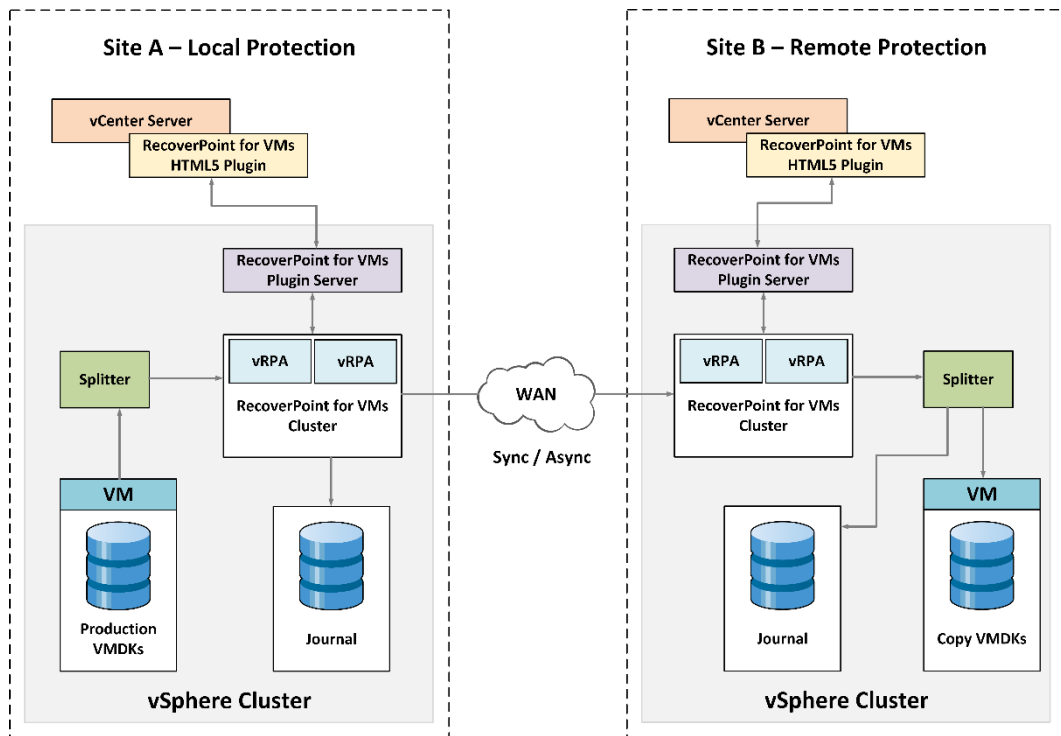






Chapter 9: Design of RecoverPoint for Virtual Machines on VxRail





Protect VM

✕

Edit Settings

Protected by

Consistency Group

Production

vRPA Cluster

Journal Datastore

GB fi

Copies

+ ADD A COPY

vRPA Cluster

(Remote Copy)

Sync

RPO

25

Async

seconds

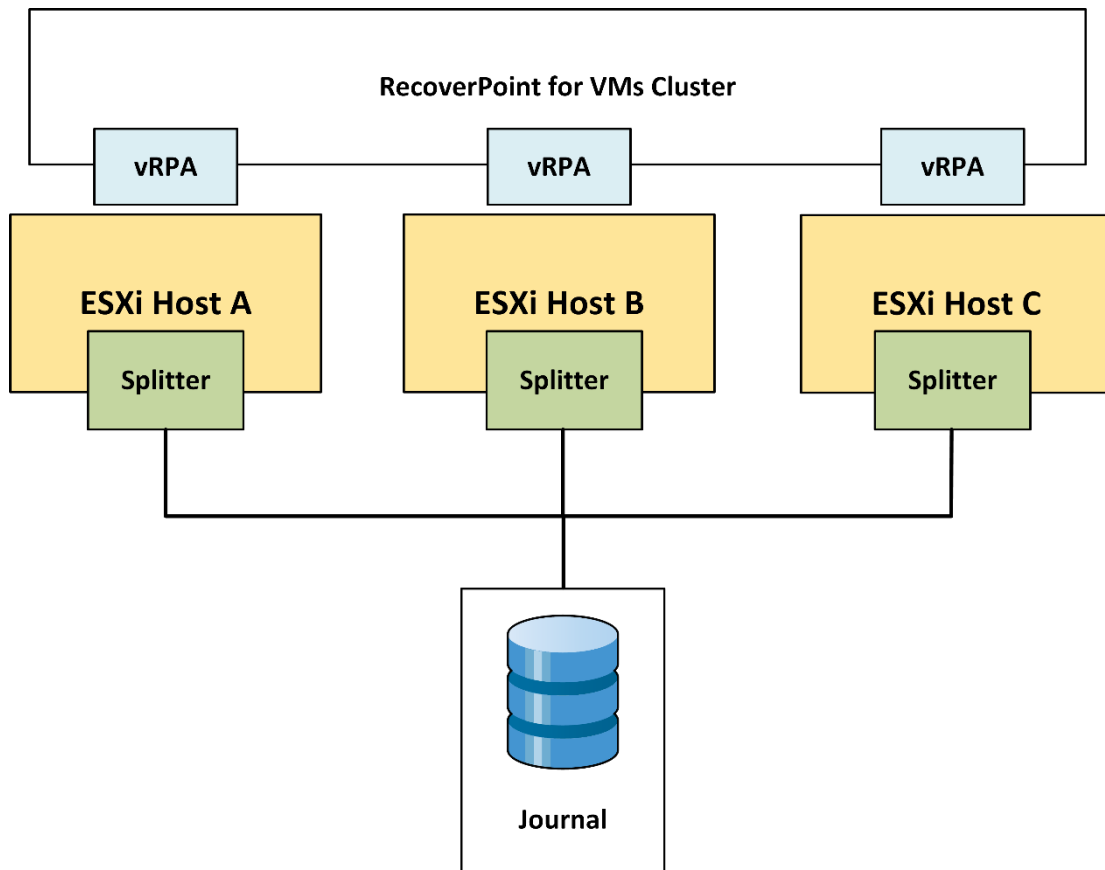
vCenter Server

Target ESXi Cluster

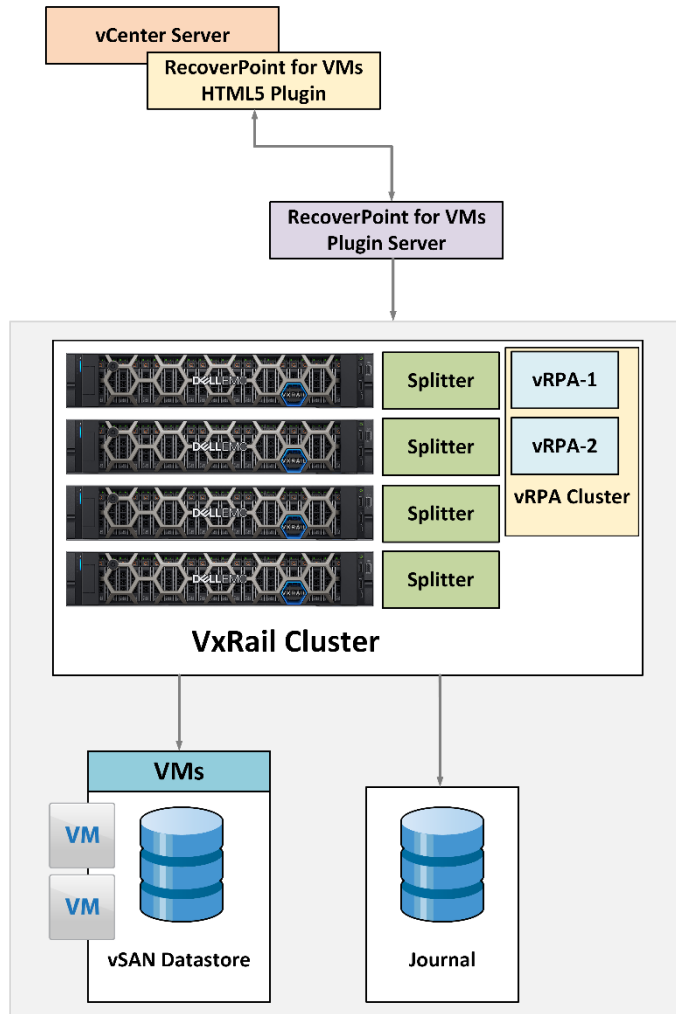
Copy Datastore

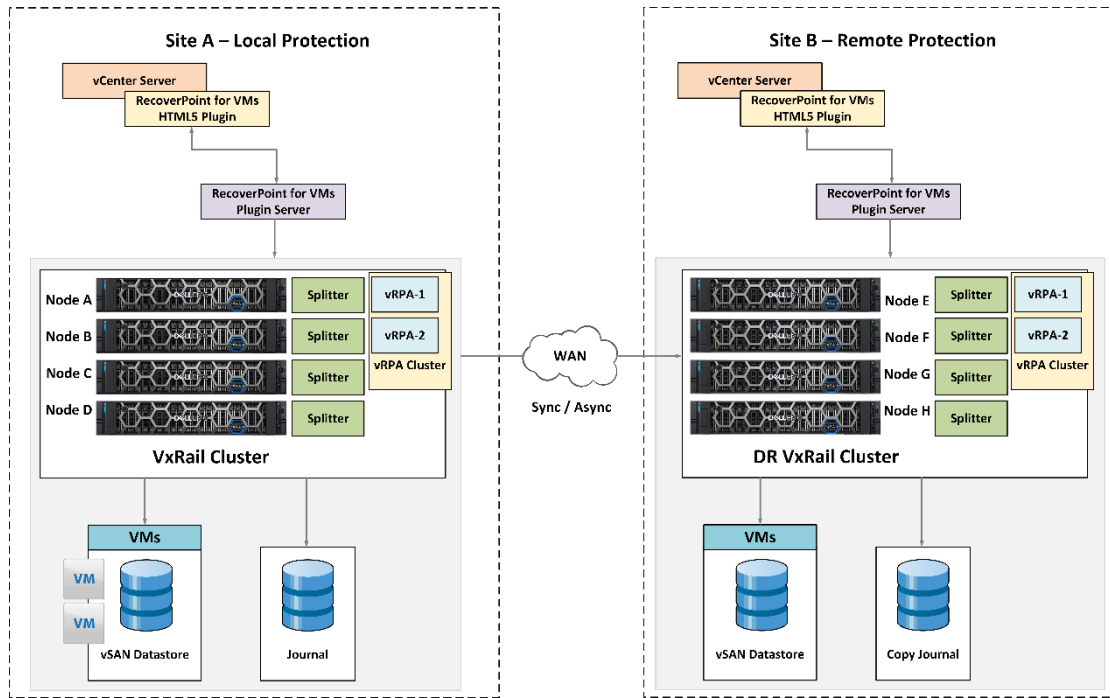
CANCEL

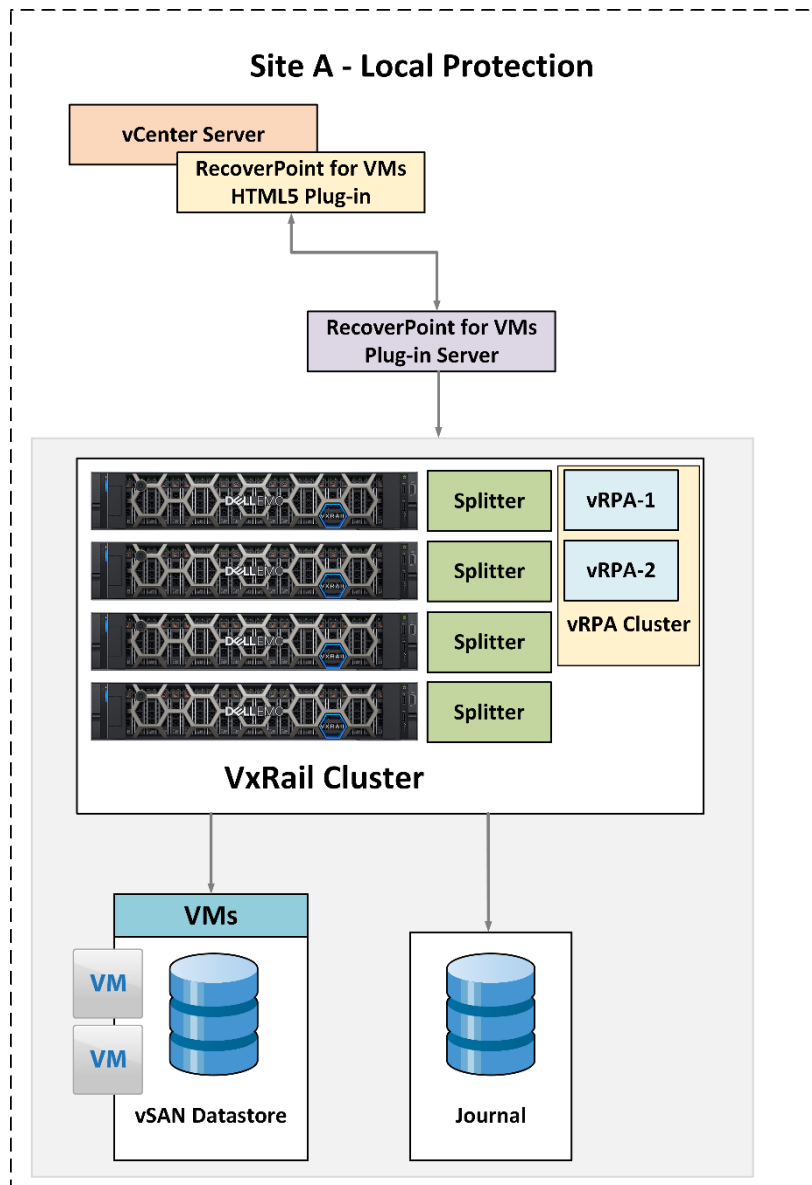
PROTECT



Site A – Local Protection

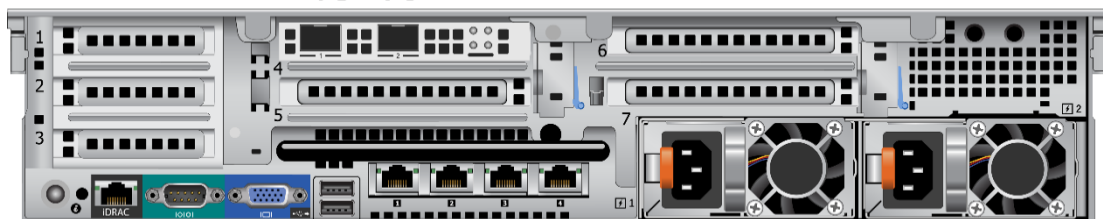






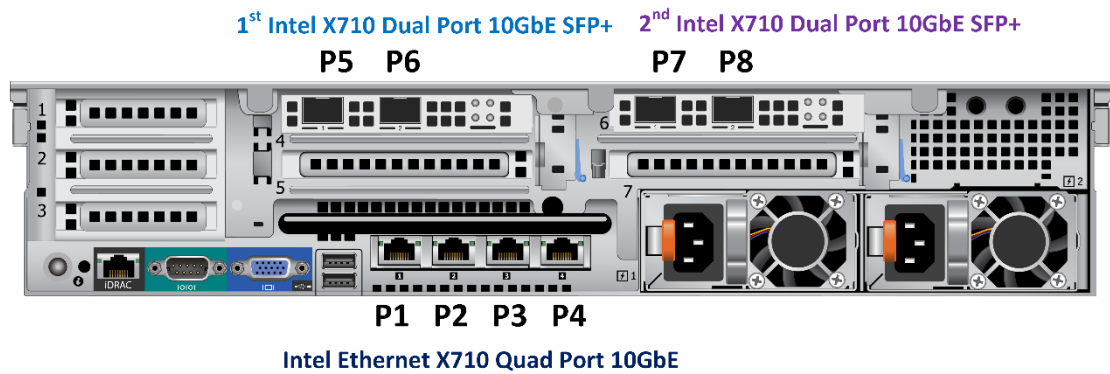
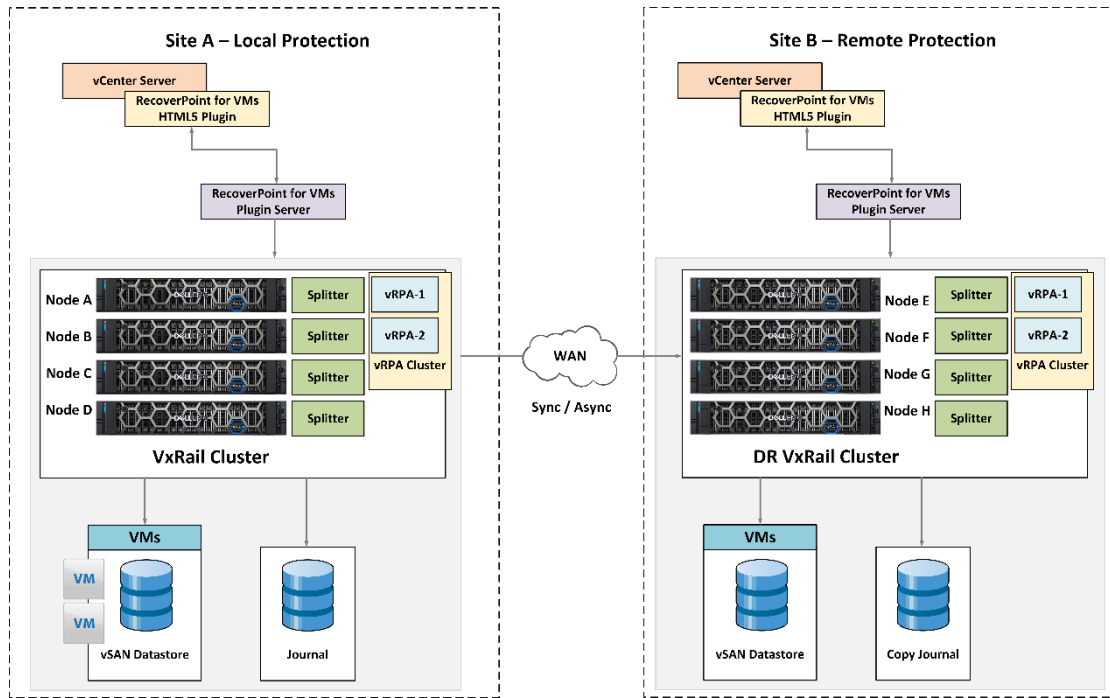
Intel X710 Dual Port 10GbE SFP+

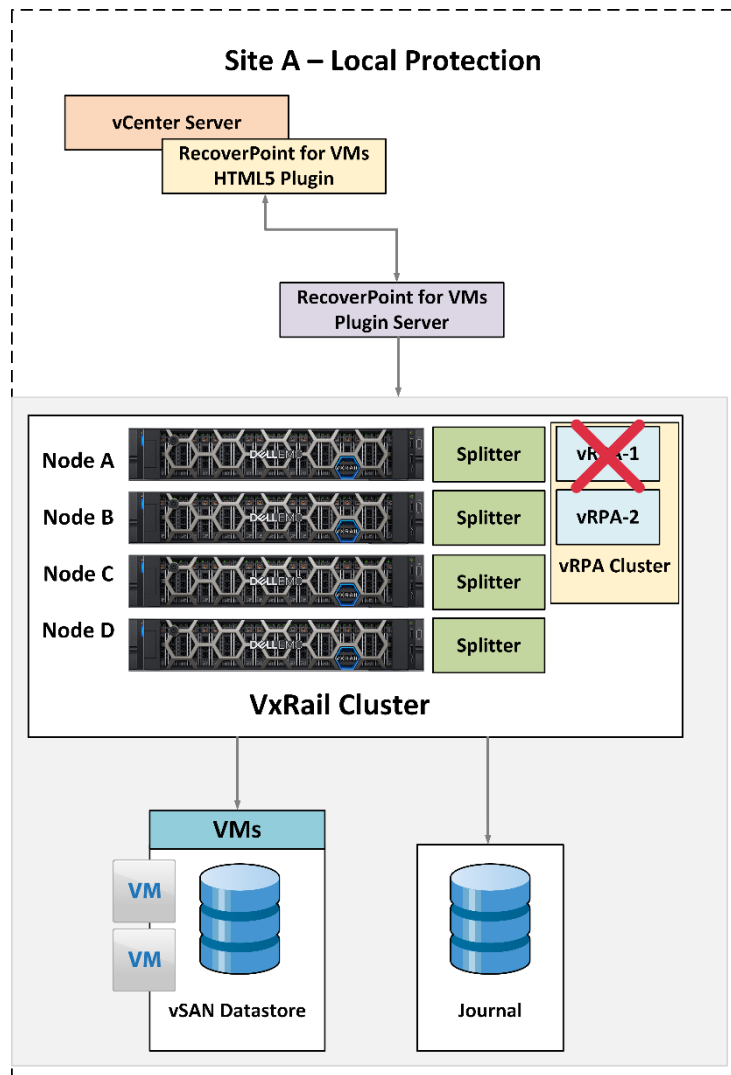
P5 P6



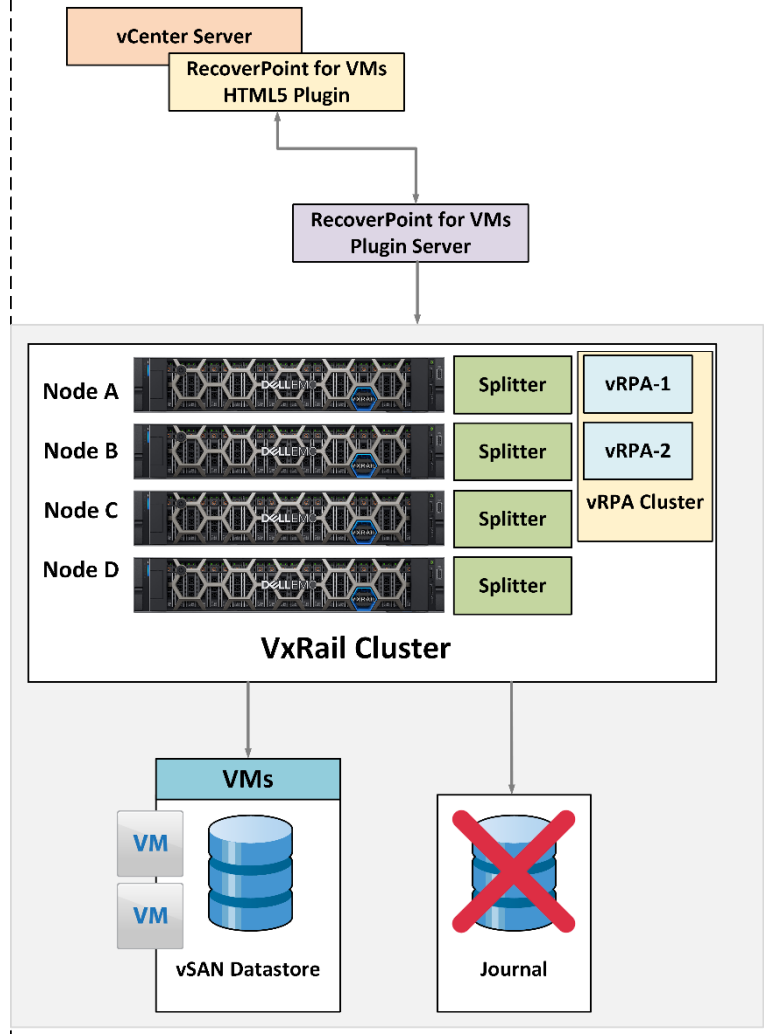
P1 P2 P3 P4

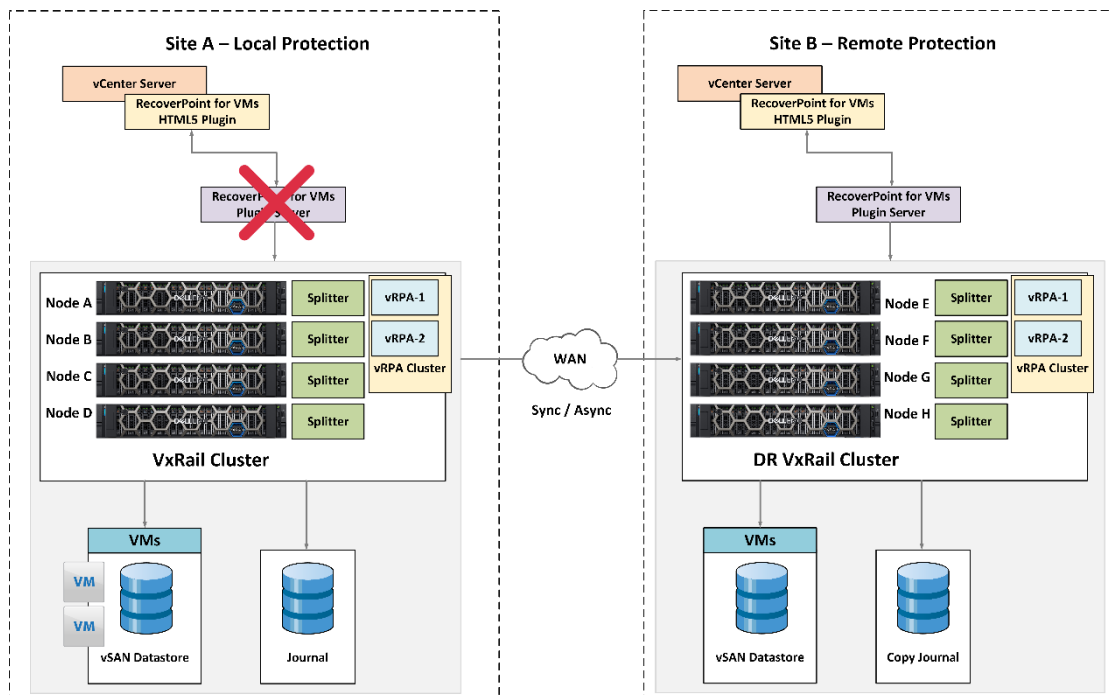
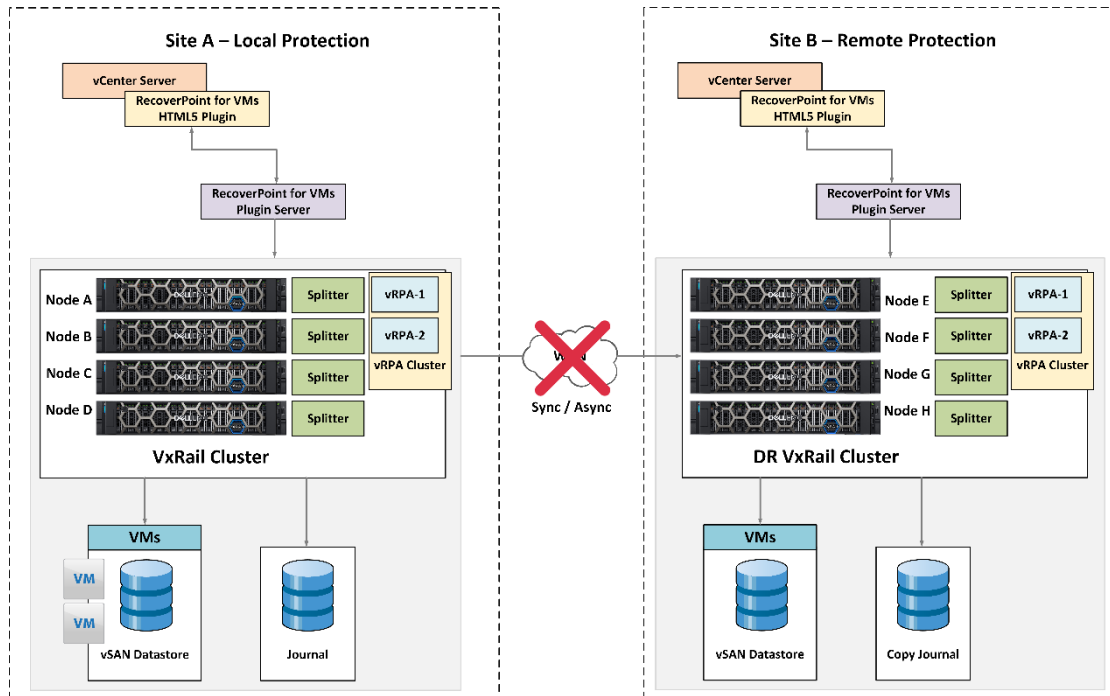
Intel Ethernet X710 Quad Port 10GbE

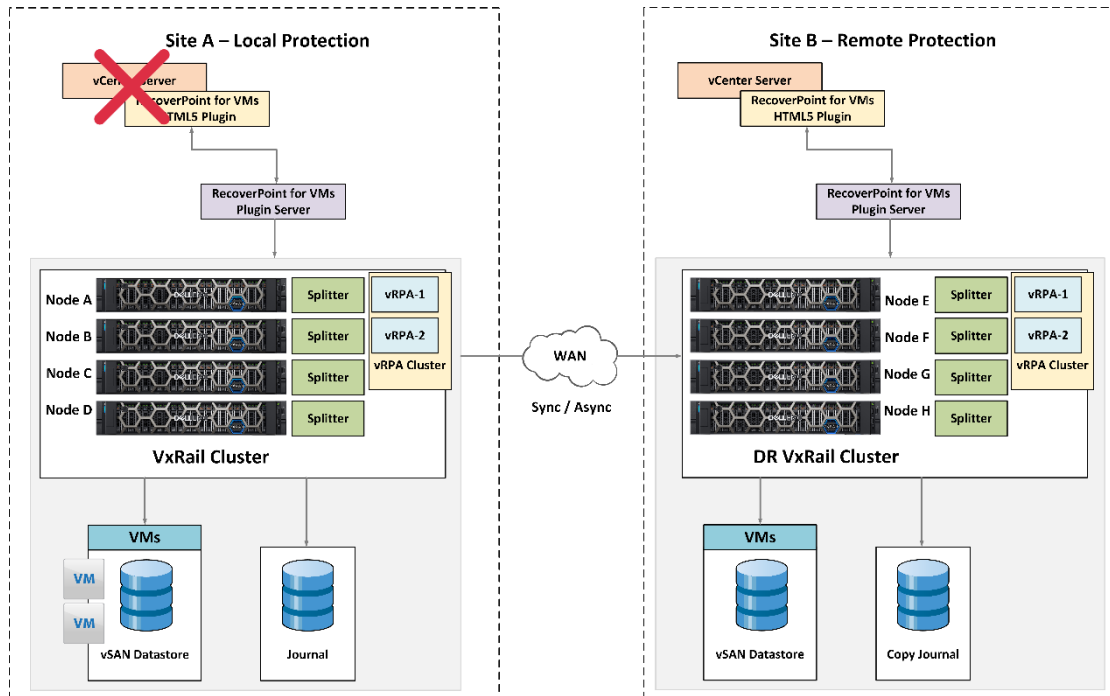


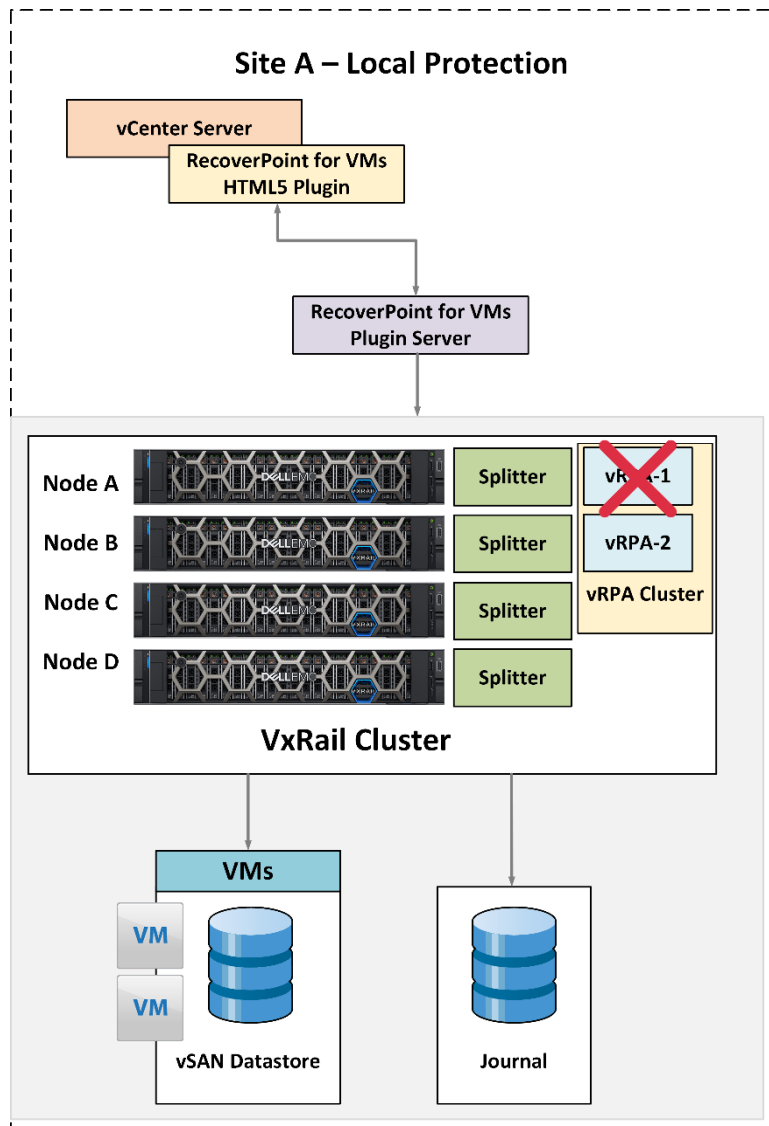


Site A – Local Protection

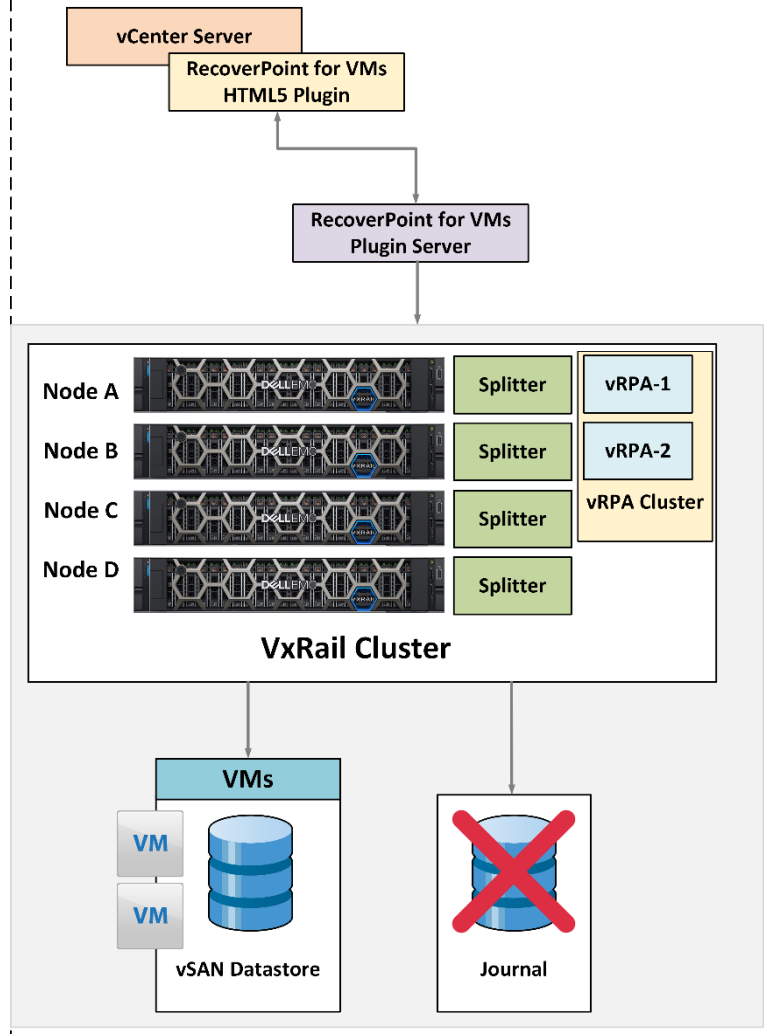


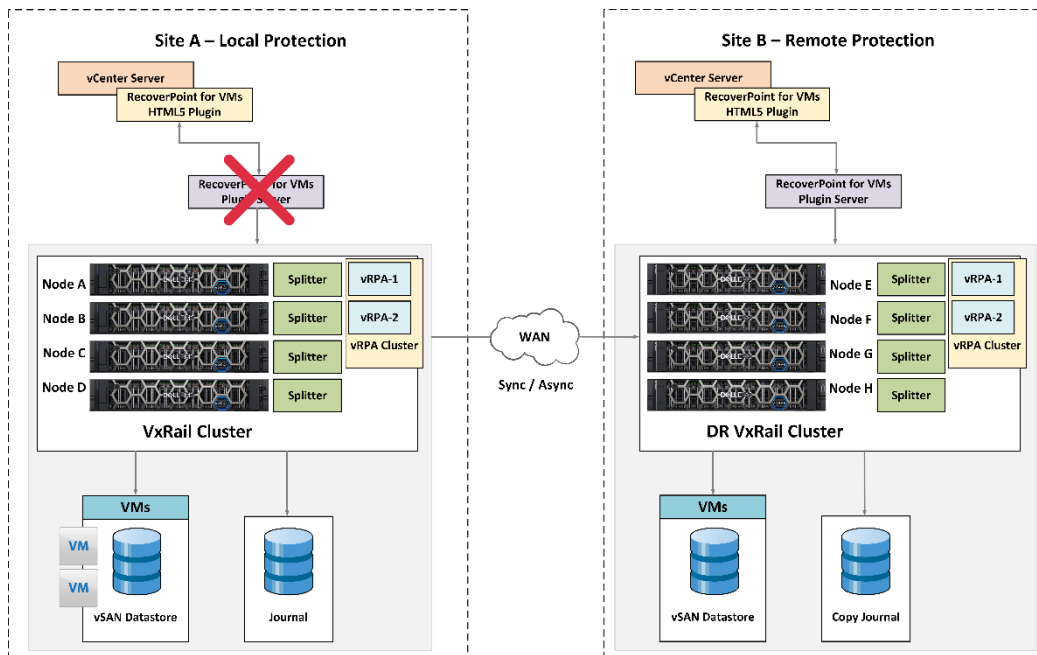
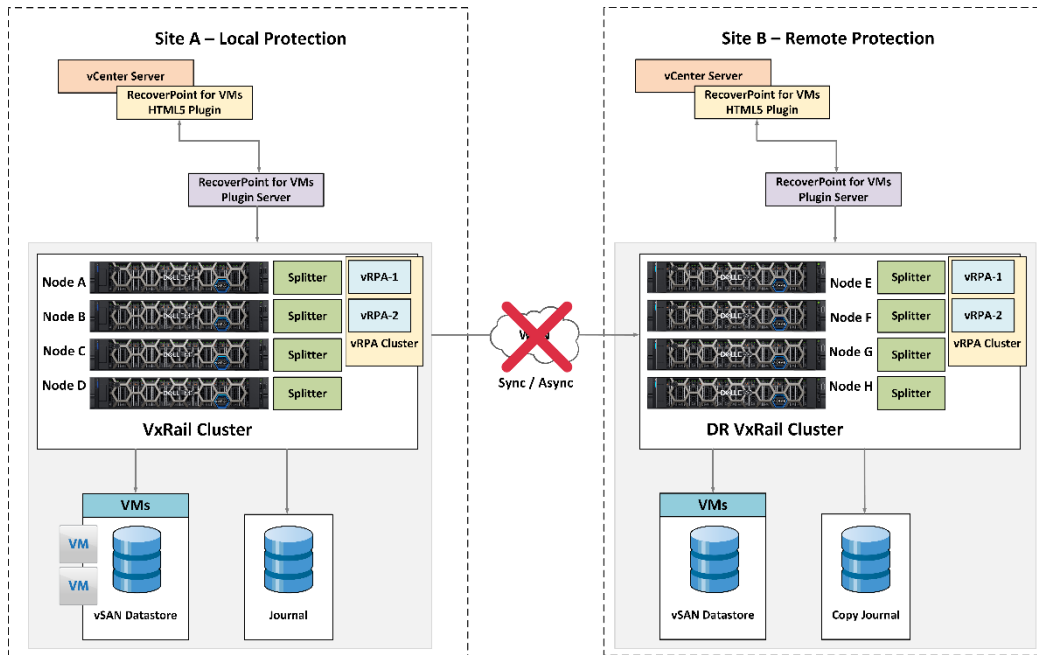


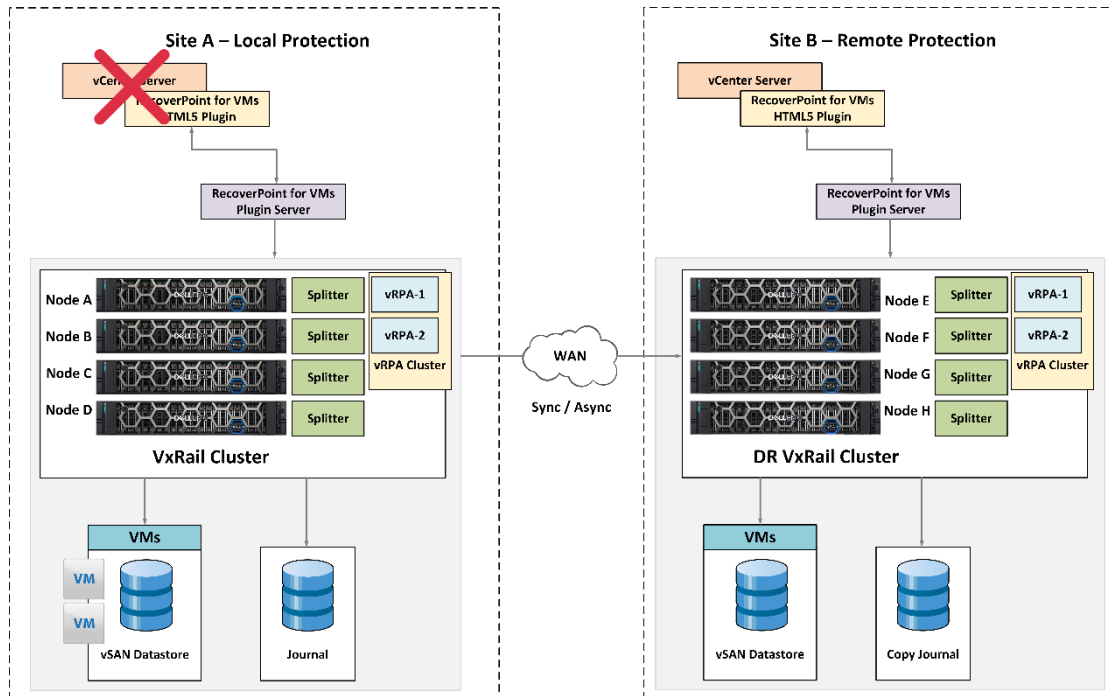




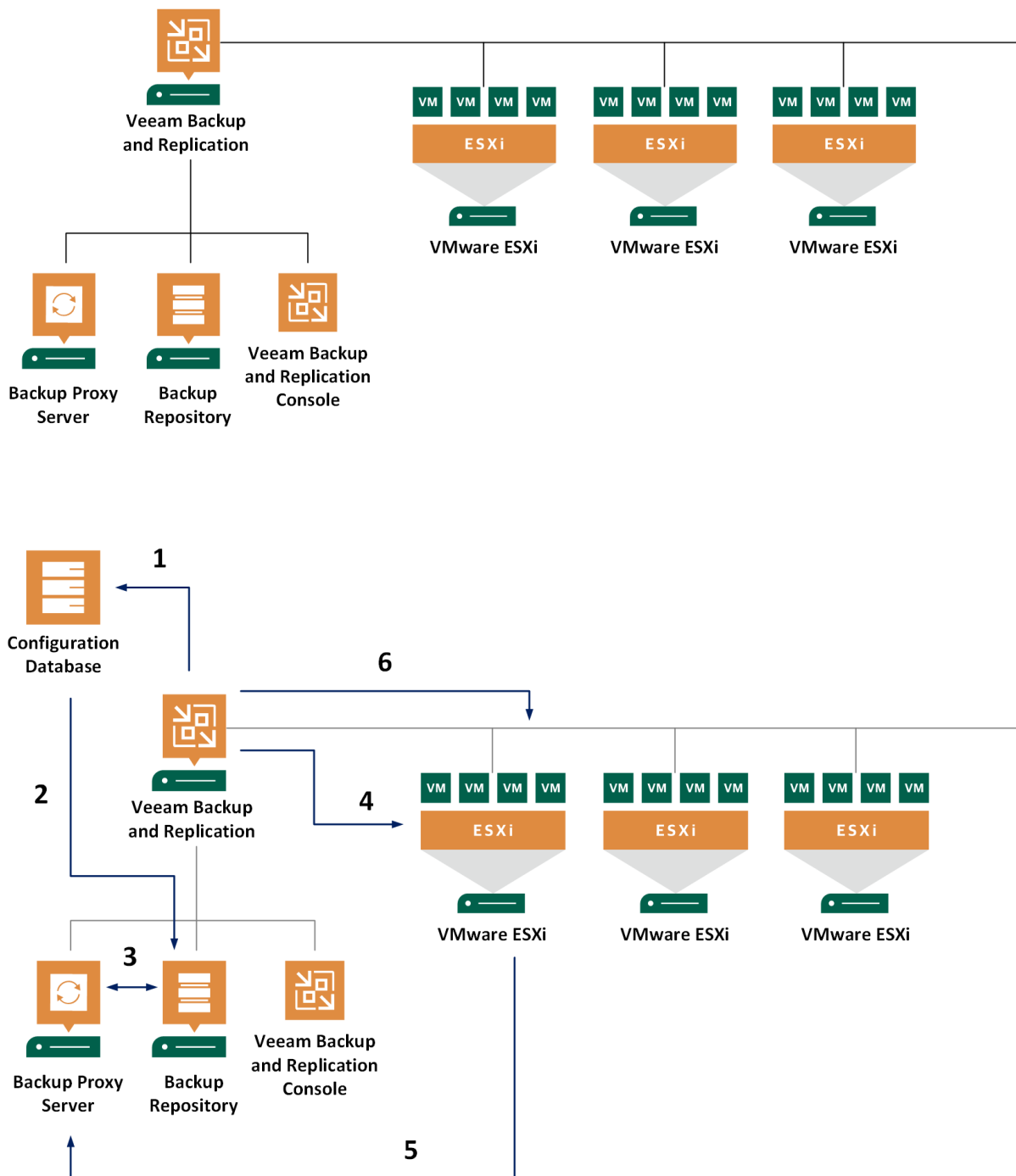
Site A – Local Protection

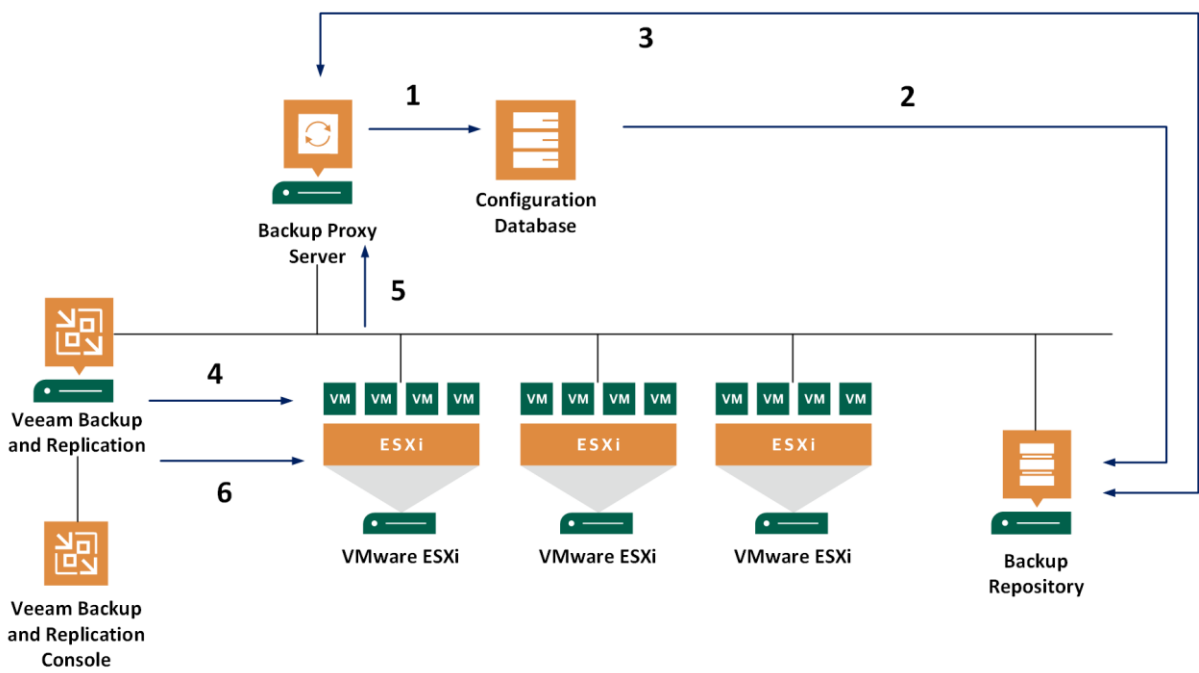
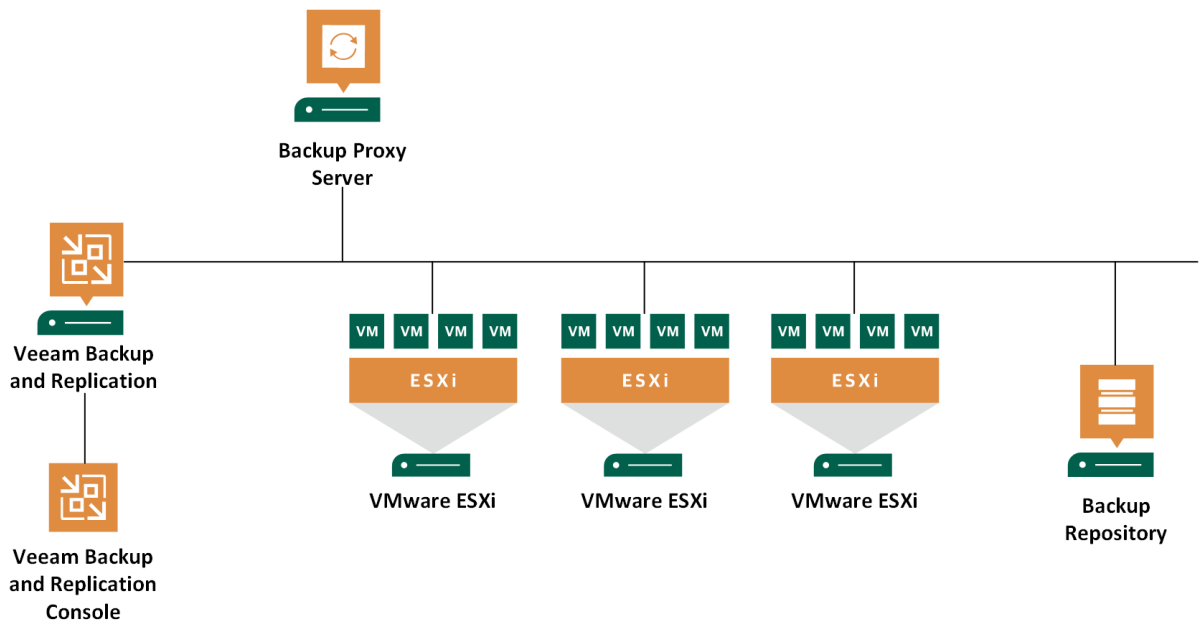




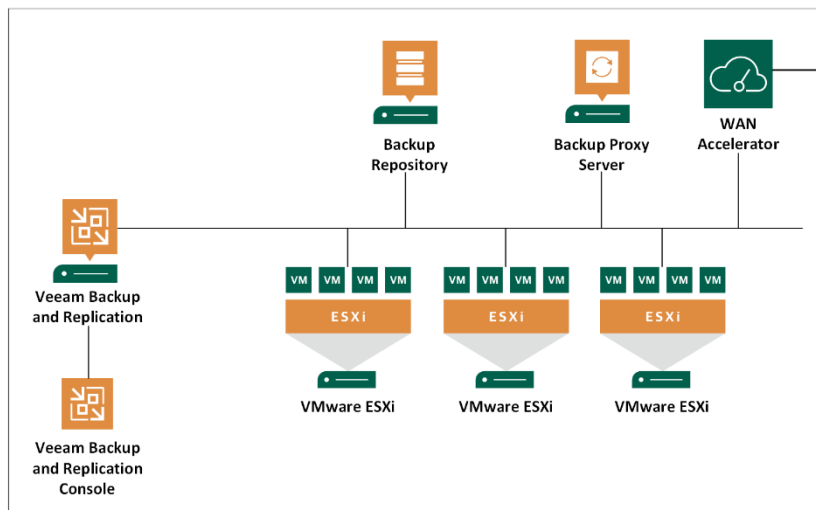


Chapter 10: Design of VxRail with Veeam Backup

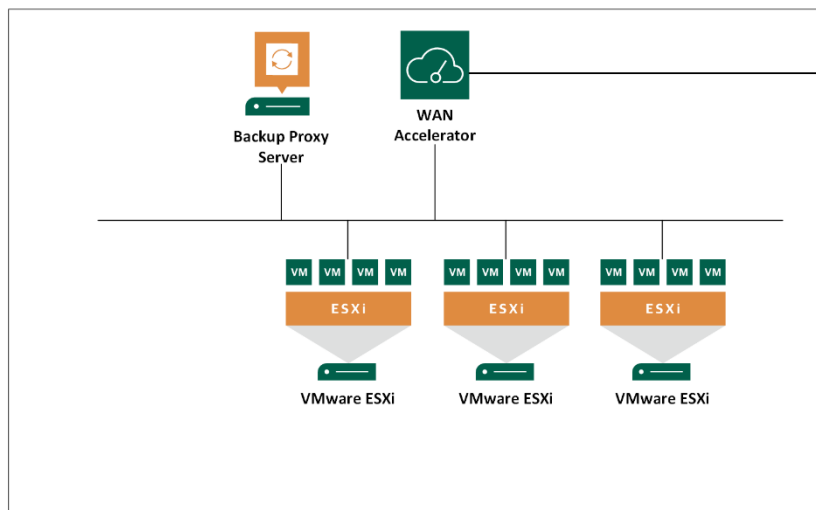




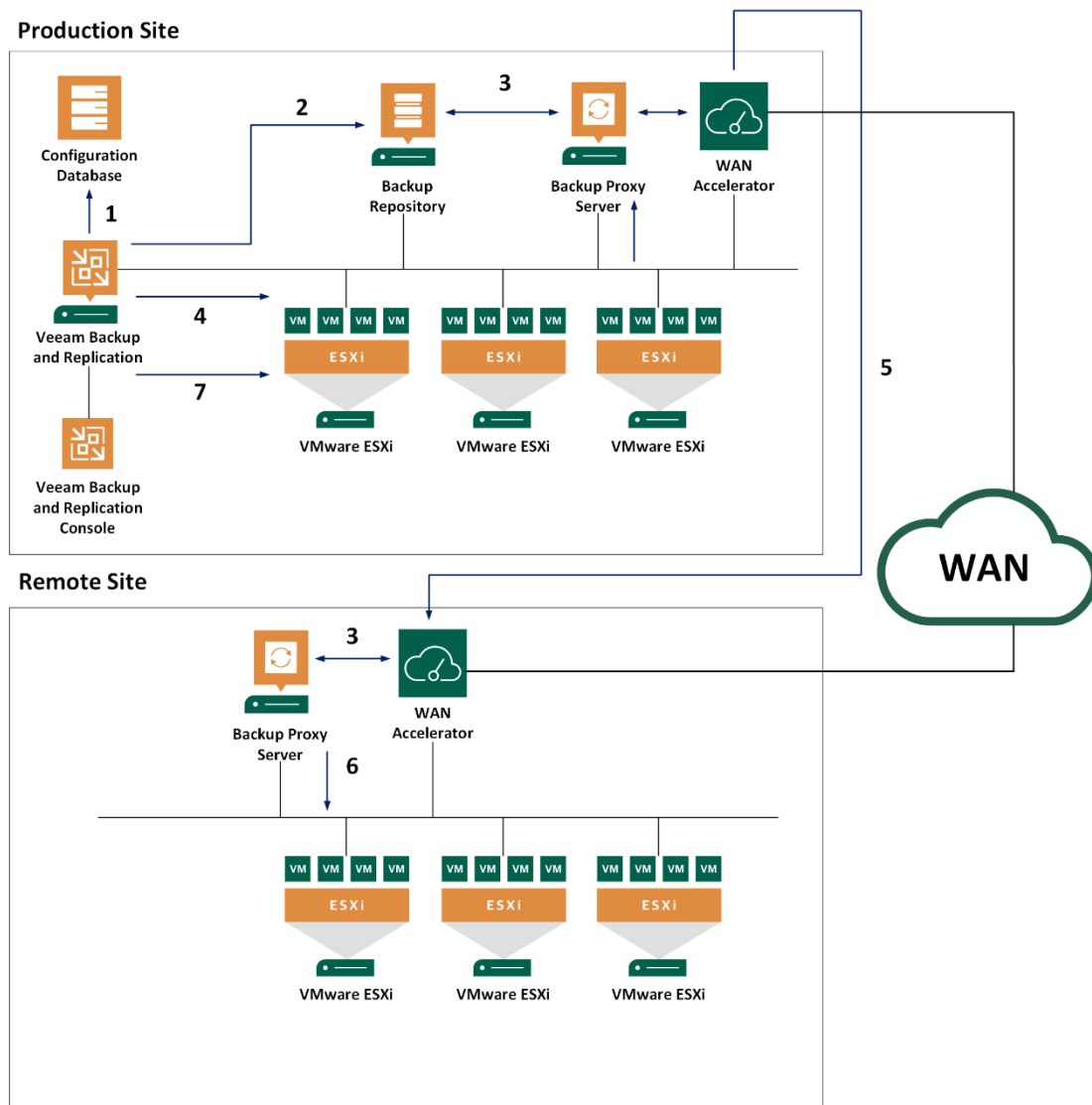
Production Site



Remote Site



WAN



Master the 3-2-1 Rule

Or, the 3-2-1-1-0 Rule...



