



HPE StoreVirtual MIGRATION GUIDE

How to migrate from HPE StoreVirtual to StorMagic SvSAN

Updated: 20th June 2025

EXECUTIVE SUMMARY

The purpose of this document is to provide basic guidance for resellers and partners who are migrating customers from the HPE StoreVirtual software SAN product, due to end-of-life.

TARGET AUDIENCE

Resellers – Sales and Technical

Partners – Sales and Technical

SvSAN presents storage over block iSCSI that can be shared to the same hosts for hyperconverged or to any other iSCSI initiator hosts on the network. This enables a nondisruptive migration path with the VM migration tools included in all hypervisors.

MIGRATING TO A NEW HARDWARE/ SOFTWARE PLATFORM

Deploy the new solution of your hardware, hypervisor of choice with SvSAN and migrate the VMs to the new hardware using vCenter or Hyper-V manager. This can be via compute and storage move operations or by sharing the storage to the existing hypervisor hosts.

VMware:

<https://stormagic.com/doc/svsan/6-2-update1/Content/datastore-create-vs.htm?Highlight=mount>

Hyper-V:

Add the hosts to the target ACL:

<https://stormagic.com/doc/svsan/6-2-update1/Content/targets.htm>

Add the storage to the hosts:

<https://stormagic.com/doc/svsan/6-2-update1/Content/datastore-create-hv.htm>

Once the virtual machine workloads are migrated the old systems may be powered off and retired.

IN PLACE MIGRATION

SvSAN can present non-mirrored storage that can convert to mirrored, to enable storage high availability, later on.

This enables an in-place migration in the steps in the following pages.

FURTHER HELP

If you require additional assistance in migrating from HPE StoreVirtual to StorMagic SvSAN, please contact support@stormagic.com and the team will be happy to assist.

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Clearing an existing host of VM compute (see figures 01 to 02)

vMotion/Live migrate VMs to the other/another host in the cluster

5 Virtual Machines - Migrate

1 Select a migration type

2 Select a compute resource

3 Select networks

4 Select vMotion priority

5 Ready to complete

Select a migration type

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

☒ 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.

Figure 1 - vMotion guests to one host to clear the other

5 Virtual Machines - Migrate

1 Select a migration type

2 Select a compute resource

3 Select networks

4 Select vMotion priority

5 Ready to complete

Select a compute resource

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

Hosts

Clusters

Resource Pools

vApps

Name	State	Status	Cluster	Consumed CPU %
storevirtualesx12	Connected	Warning	StoreVirtual	2%

Figure 2 - vMotion guests to one host to clear the other

Break the existing StoreVirtual storage (see figures 03 to 06)

In order to free up a node to deploy the StorMagic SvSAN VM, power off one StoreVirtual VSA from the Centralized Management Console

Centralized Management Cons... X

Are you sure you want to power off storevirtualvsa2 (10.1.200.55) in 0 minutes?

Power Off

Cancel Power Off

Figure 3 - Centralized Management Console VSA power off confirmation

Centralized Management Cons... X

WARNING: The management group's quorum may be dependent upon this storage system. Management group 'MigrateGroup' could go offline and its volumes and snapshots may become unavailable. To prevent this, you should stop the manager on this storage system and start a regular, virtual, or Failover Manager before continuing.

Do you want to power off?

Yes

No

Figure 4 - Centralized Management Console quorum warning

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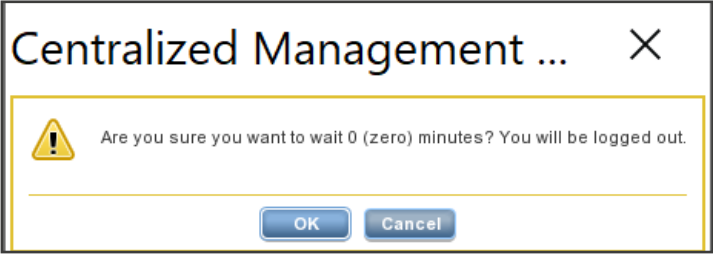


Figure 5 - Centralized Management Console time to power off

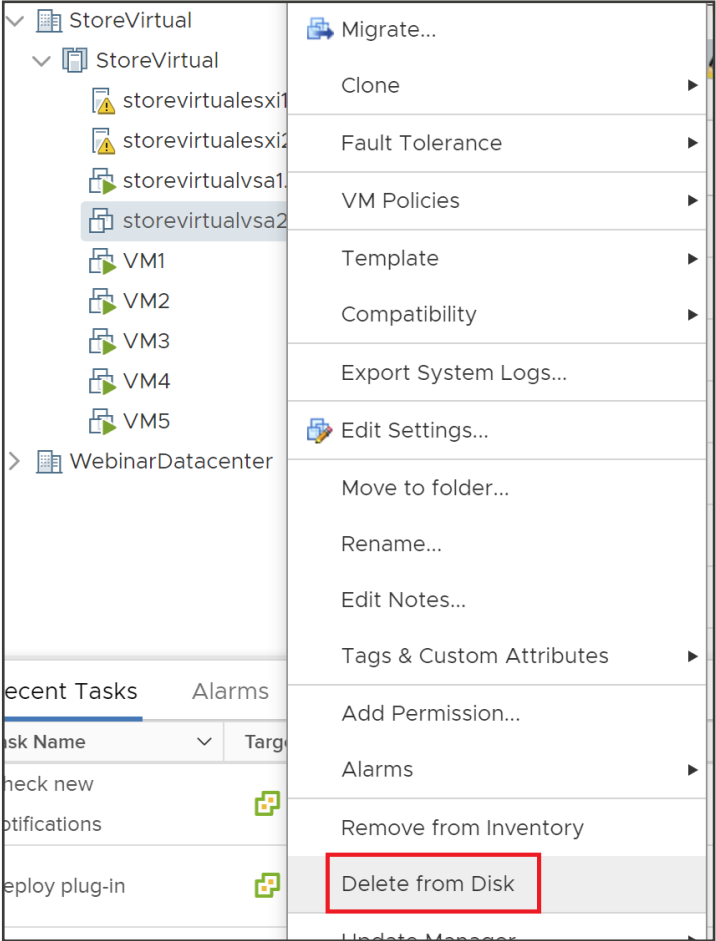


Figure 6 - VSA VM deletion

Deploy the StorMagic plugin to vCenter (see figure 07)

<https://stormagic.com/doc/svsan/6-2-update1/Content/vCSA-installation.htm>

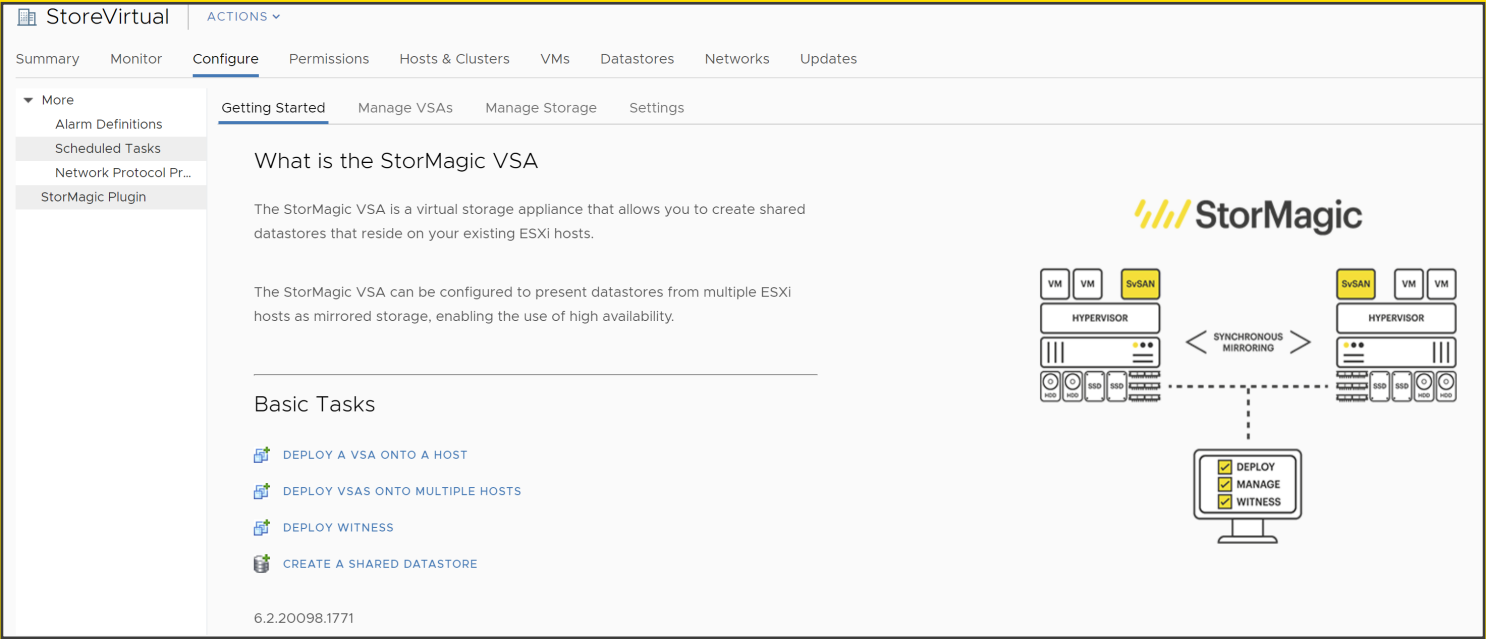


Figure 7 - SvSAN vCenter plugin



Deploy a StorMagic VSA to the newly cleared host (see figures 08 to 10)

<https://stormagic.com/doc/svsan/6-2-update1/Content/deploying-VSAs-vs.htm>

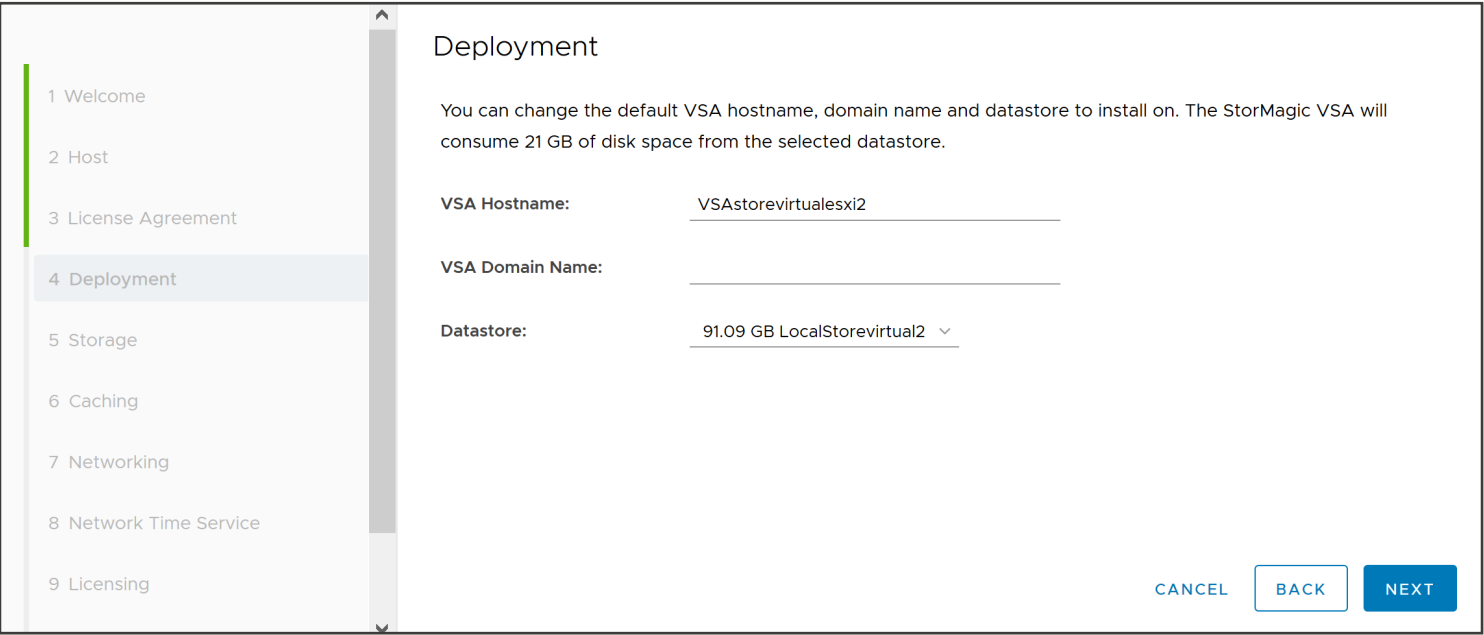



Figure 8 - SvSAN vCenter plugin VSA deployment wizard

Note that it may be required to clear off existing signatures left on the storage to be managed by SvSAN, as it may not appear as available in the StorMagic plugin. This can be completed by creating a VMFS datastore on the disk and deleting this to then RDM the storage to SvSAN.

Alternatively using partedUtil via the command line.



NOTE: This is a destructive operation.

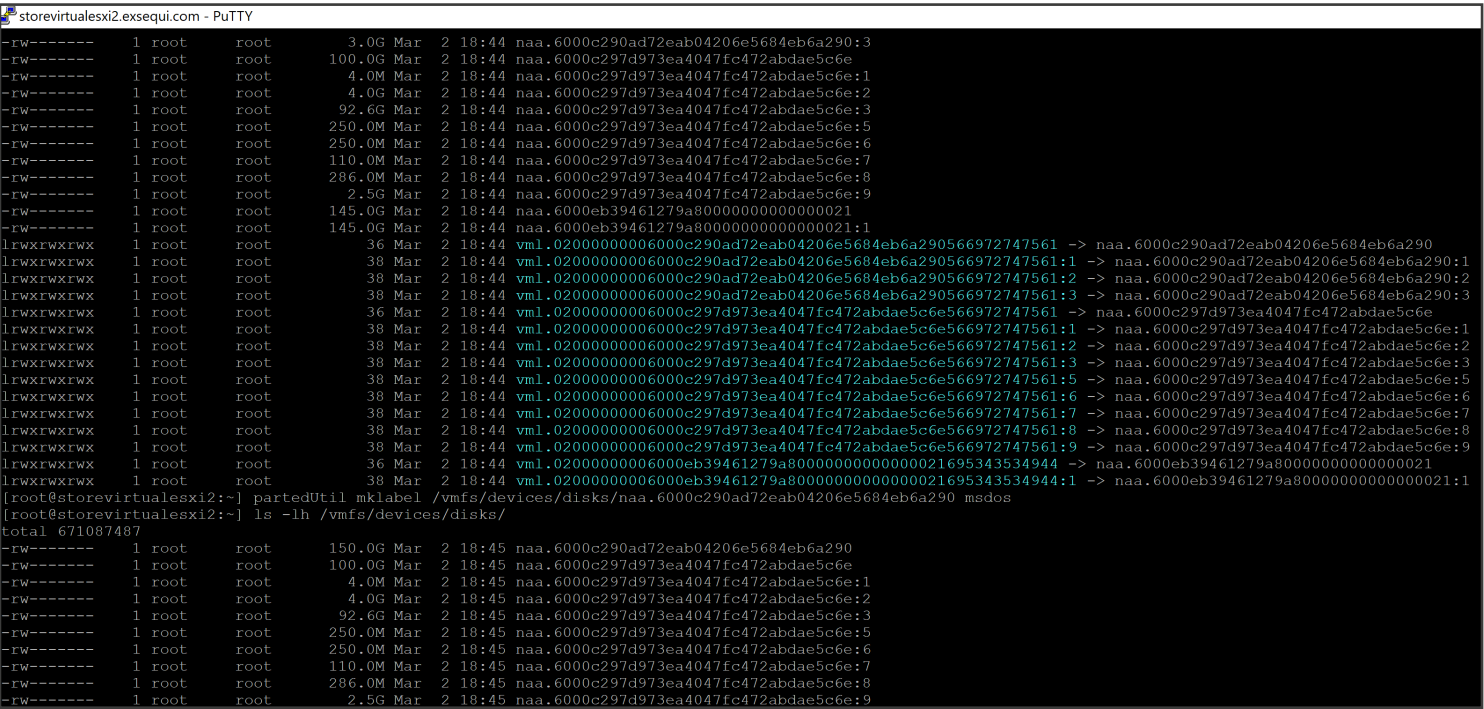


Figure 9 - SSH to remove existing partition signatures

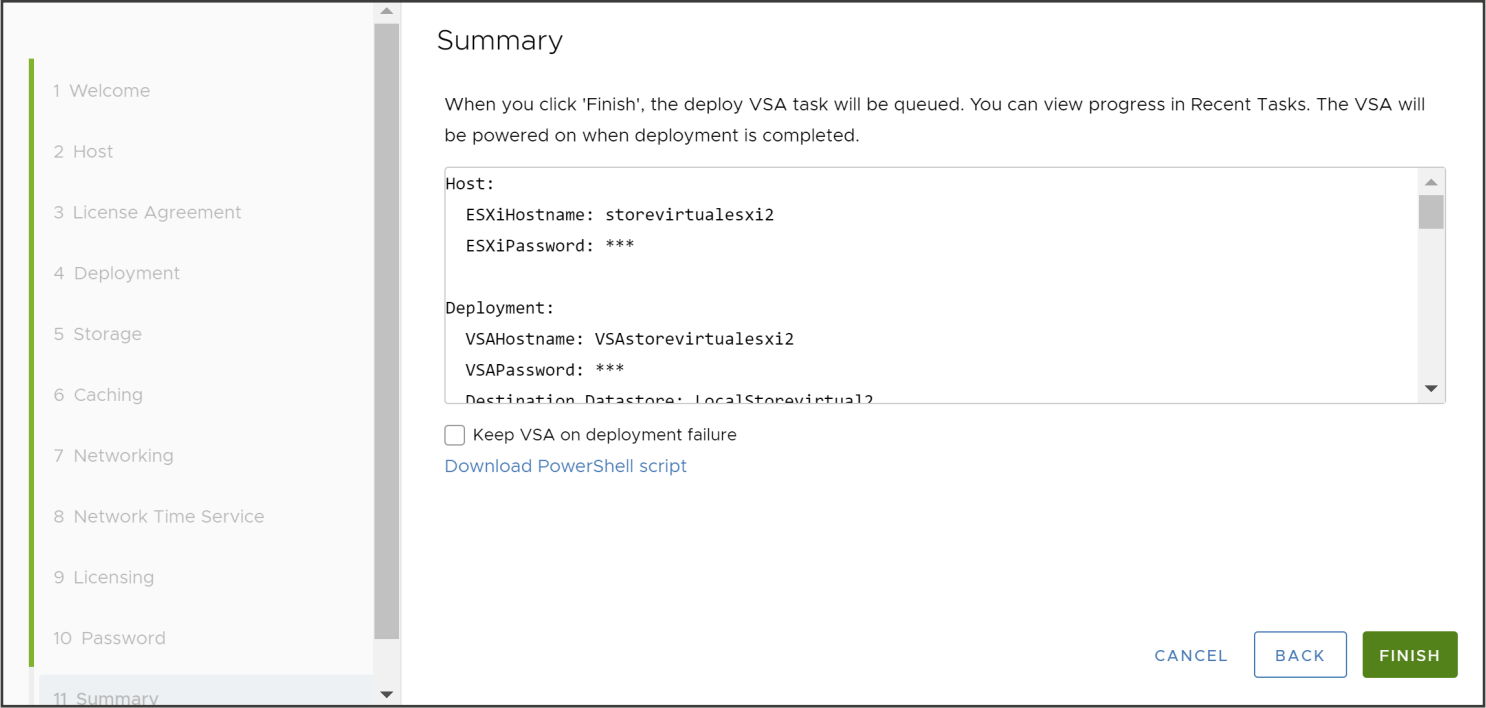


Figure 10 - VSA deployment confirmation

Create a non-mirrored datastore (see figures 11 to 13)

As per the below documentation select the one StorMagic VSA and create a datastore sharing to the ESXi hosts in the cluster

<https://stormagic.com/doc/svsan/6-2-update1/Content/datastore-create-vs.htm>

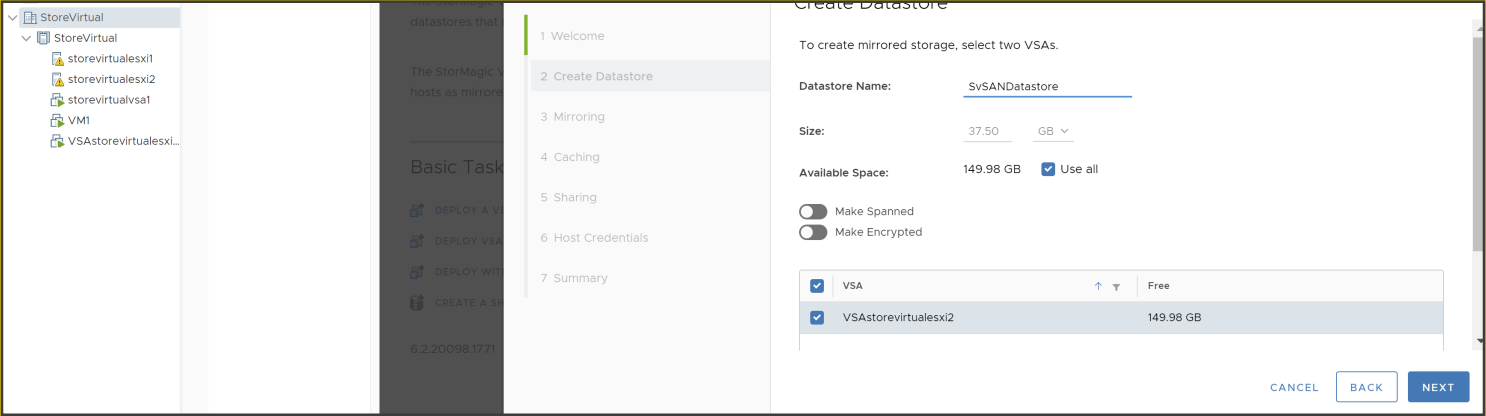


Figure 11 - Datastore creation wizard

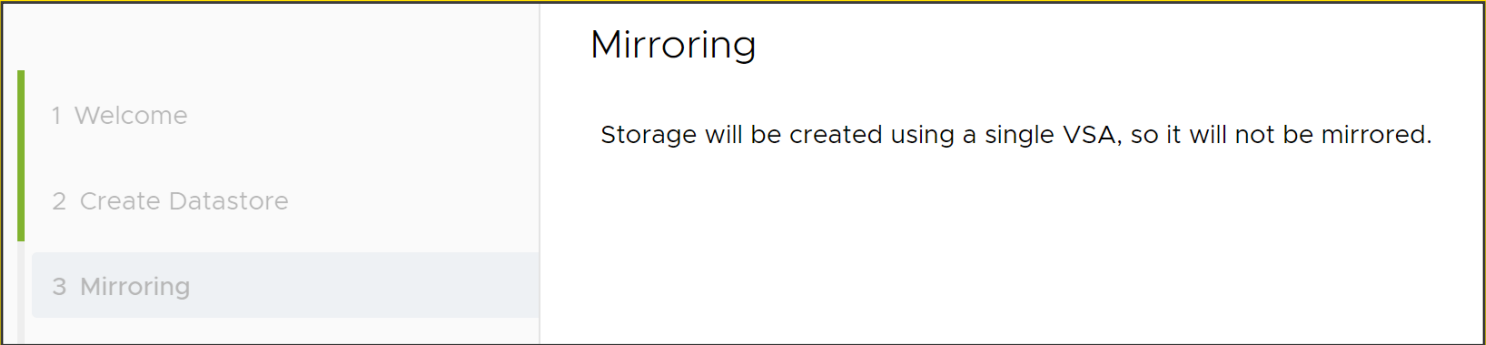


Figure 12 - Non-mirrored storage creation message

Sharing this to both hypervisor hosts.

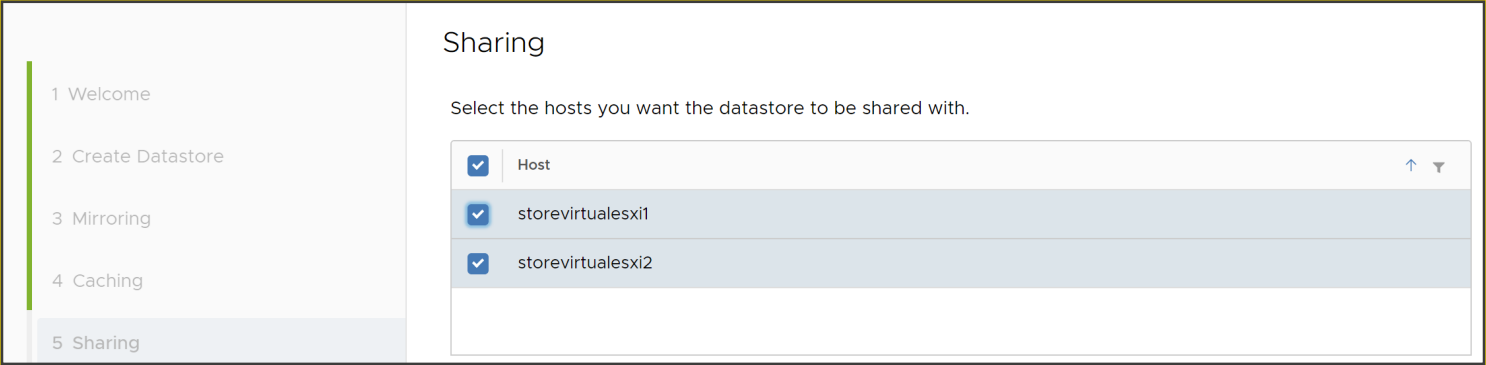


Figure 13 - Datastore creation wizard, hosts to access the storage

Migrate the VM workload virtual drives (see figures 14 to 15)

Through Storage vMotion or other tools migrate the VM disks to the newly presented SvSAN storage

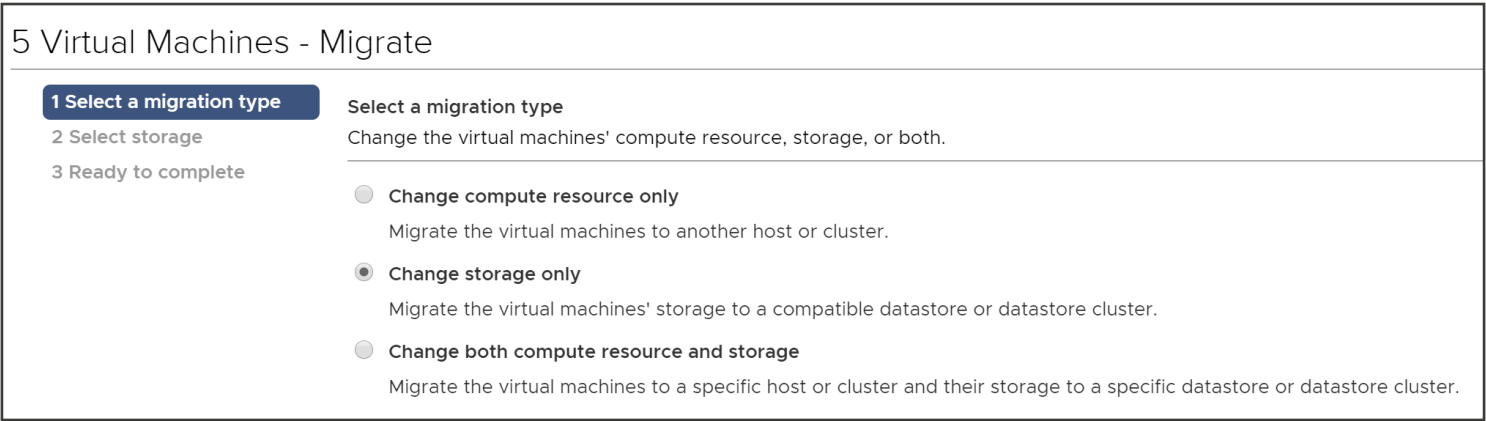


Figure 14 - VM storage migration

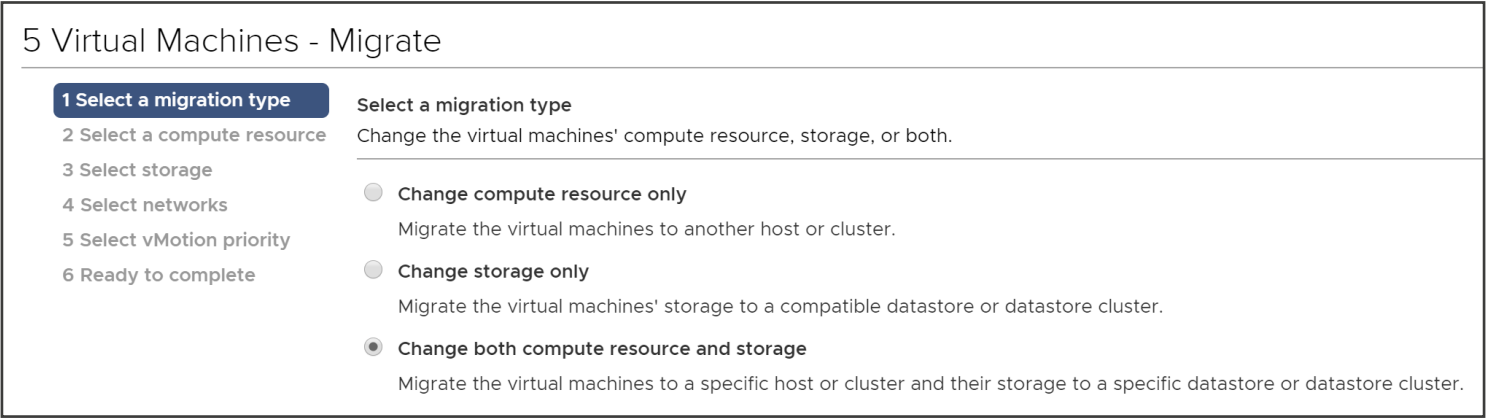


Figure 15 - VM storage migration

Deploy a StorMagic VSA to the other host in the cluster (see figure 16)

<https://stormagic.com/doc/svsan/6-2-update1/Content/deploying-VSAs-vs.htm>

1 Welcome

2 Host

3 License Agreement

Host

To deploy a VSA to a host, select the host from the list and enter the password.

Host:

storevirtualesxi1

Password:

.....|

Figure 16 - VSA deployment wizard

Convert the SvSAN non-mirrored datastore to a mirrored datastore(s) (see figure 17)

Via the VSA WebGUI from the <https://stormagic.com/doc/svsan/6-2-update1/Content/add-remote-mirror-plex-VMware.htm?Highlight=adding%20a%20plex>

System Status

Normal

Actions

Log Out

Discovery

Target

Help

Target Information

Name	m0svsandatastore
IQN	iqn.2006-06.com.stormagic:b371fd0200000014.m0svsandatastore
EUI-64	000339B371FD0001
Enabled	<input checked="" type="checkbox"/>
State	Online
Pool	P1583175479793
Size	149.98 GB
Authentication	None
Notes	
Encryption	<input type="checkbox"/>
UNMAP support	<input type="checkbox"/>

Manage Target Storage

Enable Mirroring

☒

Mirroring

Isolation Policy	Majority
Global Witness	<input type="checkbox"/> Use Global Witness (Configure)
Witness	Management[000C291C48EE] <input type="checkbox"/> Show all appliances
Remote Hostname	VSAstorevirtualesxi1[F48B6C478820]
Remote Pools	<input checked="" type="radio"/> P1583236430835 149.98 GB free of 149.98 GB
Resynchronization Priority	Equal priority
Prefer Local Path	<input checked="" type="checkbox"/>

Create

Cancel

Figure 17 - VSA web interface to enable mirroring

