



InfoScale Support for VMotion in VMware Environments with RDM-P Disks

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Problem

InfoScale should support VMotion in VMware environments (HWC mode 11 or later) with RDM-P where the virtual SCSI controller is set to have SCSI Bus sharing enabled.

Solution

This KB article describes the InfoScale Enterprise support for VMotion in VMware virtual environments with HWC-Mode 11 or later.

The InfoScale documentation states that VMotion is not supported when a virtual SCSI controller is set to have bus sharing enabled. Virtual SCSI controller sharing is a virtual machine (VM) attribute and is required to be set for the virtual machines (VMs) that share storage among each other. The VMs from the same InfoScale cluster with SCSI-3 Persistent Group Reservation (PGR)-enabled I/O fencing must be hosted across different ESXi servers. However, the VMs of different InfoScale clusters with SCSI-3 PGR fencing enabled can run on same ESXi servers.

The following VMware blog post indicates that VMotion of shared RDMs is possible in vSphere 6.0 and later as long as the VMs are in the "Hardware 11 or later" compatibility mode.

<https://blogs.vmware.com/apps/2017/08/rdm-oracle-rac-not-question.html>

Refer to the section titled "Important caveats to keep in mind about shared RDM 's and VMotion" in this VMware blog post.

Based on the results of the tests performed, VMotion is now supported in VMware virtual environments with HWC mode 11 or later.

The following screenshots depict the tests that were performed on an InfoScale configuration with disk-based fencing enabled and where VMotion operation were successful.

```
cftpoc15.engba.veritas.com:/root>vxfenadm -d
```

```
I/O Fencing Cluster Information:
```

```
=====
Fencing Protocol Version: 201
Fencing Mode: SCSI3
Fencing SCSI3 Disk Policy: dmp
Cluster Members:
```

```
  * 0 (cftpoc15)
    1 (cftpoc16)
```

```
RFSM State Information:
```

```
node  0 in state  8 (running)
node  1 in state  8 (running)
```

cftpoc15



ACTIONS ▾

Summary

Monitor

Configure



Permissions

Datastores

Networks

Updates

VM Hardware

> CPU	8 CPU(s)	
> Memory	 16 GB, 0.16 GB memory active	
> Hard disk 1	100 GB	
Total hard disks	6 hard disks	
> Network adapter 1	VM Network (connected)	
> Network adapter 2	LLTNet1 (connected)	
> Network adapter 3	LLTNet2 (connected)	
CD/DVD drive 1	Disconnected	
Floppy drive 1	Disconnected	
> Video card	8 MB	
VMCI device	Device on the virtual machine PCI bus that provides support for the virtual machine communication interface	
> Other	Additional Hardware	
Compatibility	ESXi 6.0 and later (VM version 11)	

cftpoc15 - 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

VM origin ⓘ

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

Hosts Clusters Resource Pools vApps

Filter

Name ↑	State	Status	Cluster	Consumed CPU %
scInfosaesx1.engba.veritas.com	Connected	✓ Normal	VMware-NFVI	1%
scInfosaesx2.engba.veritas.com	Connected	✓ Normal	VMware-NFVI	1%
scInfosaesx3.engba.veritas.com	Connected	✓ Normal	VMware-NFVI	2%

3 items

Compatibility

✓ Compatibility checks succeeded.

References

<https://blogs.vmware.com/apps/2017/08/rdm-oracle-rac-not-question.html>

https://www.veritas.com/content/support/en_US/doc/81080974-81080981-0/v85331094-81080981

https://www.veritas.com/content/support/en_US/doc-viewer.133109769-133109772-0.index

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