

# Veritas™ Operations Manager Management Server Migration Add-on 6.0 User Guide

# Veritas™ Operations Manager Management Server migration Guide

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# Migrating Management Server

This document includes the following topics:

- [About migrating Management Server using cross-attach method](#)
- [About migrating Management Server using Management Server Migration Add-on 6.0](#)
- [Prerequisites for Management Server migration](#)
- [About data that is migrated](#)
- [About data that is not migrated](#)
- [About migrating configurations](#)
- [About migration scripts](#)
- [Migrating Management Server](#)
- [Verifying the migration on target Management Server](#)

## About migrating Management Server using cross-attach method

you can migrate to a new Management Server without using the Veritas Operations Manager Management Server migration Add-on by using the cross-attach method. This option may be preferred if you have mainly installed Veritas Operations Manager and are using it to manage the hosts in the Symantec Storage Foundation High Availability environment, but have not configured many of the other options such as VMware discovery, business entities, or Storage insight. These objects need to

be reconfigured if you use the cross-attach method for migrating Management Server.

**To migrate Management Server using cross-attach method**

- 1 Install and configure a new Veritas Operations Manager Management Server.
- 2 Use the existing Management Server to push the `gendeploy (autoconfigure)` script on all the managed hosts, or use CSV file to attach them to the new Management Server.
- 3 Remove the hosts from the old Management Server using the Management Server console or Command Line Interface (CLI).
- 4 It is recommended that you upgrade your `VRTSsfmh` agent package on the managed hosts to the most recent version.

For more information on installing and configuring Management Server, adding managed hosts, and removing hosts, refer to *Veritas Operations Manager Management Server Installation and Configuration Guide*.

See [“About migrating Management Server using Management Server Migration Add-on 6.0”](#) on page 10.

## About migrating Management Server using Management Server Migration Add-on 6.0

You can use the Veritas Operations Manager Add-on for migrating the current Management Server settings to a Management Server on another platform. You may want to migrate your Management Server settings for the following reasons:

- If your current Management Server is on SUSE 10. Veritas Operations Manager 6.0 is the last major version of the product to support SUSE 10 as a platform for Management Server. Before you upgrade your Management Server on SUSE 10 to a newer version, you need to migrate to a Management Server on SUSE 11.
- If you want to deprecate your current Management Server on Linux and switch to another Management Server on Linux.

Table [Table 1-1](#) lists the supported platforms for the migration of Management Server:

**Table 1-1**

Source Platform	To Linux	To SUSE 11
Linux	Supported	Supported

**Table 1-1** (continued)

Source Platform	To Linux	To SUSE 11
Linux Management Server High Availability	Supported only for single node	Supported only for single node

**Note:** For High Availability configurations, you can choose to configure the High Availability on target Management Server as a single-node or two-node setup after the migration is complete.

See [“Prerequisites for Management Server migration”](#) on page 11.

See [“About data that is migrated”](#) on page 11.

See [“About data that is not migrated”](#) on page 12.

See [“About migrating configurations”](#) on page 12.

## Prerequisites for Management Server migration

Following are the prerequisites for Management Server migration:

- Install the same version of Veritas Operations Manager Management Server hotfixes on the target Management Server as installed on source Management Server.
- Create a database backup on the source Management Server.

## About data that is migrated

You can migrate the historical data and the user-defined data from a source Management Server host to another.

[Table 1-2](#) lists the data that is migrated to the target Management Server after migration.

**Table 1-2** Data that is migrated

Types	Data
Historical data	<ul style="list-style-type: none"><li>■ Veritas Cluster Server history</li><li>■ Failover history</li><li>■ Fault history</li><li>■ License Deployment Report history</li><li>■ Veritas Volume Replicator Bandwidth Report history</li><li>■ Array performance history</li><li>■ VMware performance history</li></ul>
User-defined data	<ul style="list-style-type: none"><li>■ Organization Entities and Virtual Business Services</li><li>■ Extended Attributes</li><li>■ Array tiering</li><li>■ Thin provisioning reclamation</li><li>■ Scripting Add-on</li><li>■ Policy checks</li><li>■ Activity board</li><li>■ Quick links</li><li>■ Purging policy</li><li>■ Annotation</li><li>■ File system placement policy</li></ul>

See [“About data that is not migrated”](#) on page 12.

## About data that is not migrated

Some of the user-defined data does not get migrated when you migrate a Management Server to another Management Server. Following types of data is not migrated to the target Management Server after migration:

- Security groups
- Lightweight Directory Access Protocol (LDAP) configurations
- Authentication Brokers

See [“About data that is migrated”](#) on page 11.

## About migrating configurations

When you migrate a Management Server to another Management Server, the configuration settings are also migrated to target Management Server.

[Table 1-3](#) displays the way in which various configurations are migrated to target Management Server.

**Table 1-3** Configuration settings migration

Object	Description
Agent host	After migration, the agent host is associated with target Management Server using the <code>gendeploy.pl</code> script.
Agentless host	<p>If the agentless host was previously associated with source Management Server Control Host, then it gets associated with target Management Server Control Host after migration.</p> <p>If the agentless host was previously associated with a remote Control Host, it gets associated with the same remote Control Host after migration.</p>
Virtualization	<p>If a virtual machine was previously associated with source Management Server Control Host, then it gets associated with target Management Server Control Host after migration.</p> <p>If source Management Server has virtual machines configured, a similar setup is configured on target Management Server after migration and the virtual machines are discovered.</p>
Array	<p>If arrays were previously associated with source Management Server Control Host, then the arrays get associated with target Management Server Control Host after migration.</p> <p>If source Management Server has arrays configured, a similar setup is configured on target Management Server after migration and the arrays are discovered.</p>
Switch	<p>If switches were previously associated with source Management Server Control Host, then the switches get associated with target Management Server Control Host after migration.</p> <p>If source Management Server has switches configured, a similar setup is configured on target Management Server after migration and the switches are discovered.</p>

## About migration scripts

When you install Management Server Migration Add-on 6.0 on a Management Server host, the following scripts are available for migration:

**Table 1-4** Migration scripts

Script Name	Purpose	Location
vomadm with new migratereport option	Used for getting the configuration details from Management Server.	/opt/VRTSsfmh/bin/vomadm
migrate_cs.pl	Used for the following: <ul style="list-style-type: none"> <li>■ Exporting the data from source Management Server</li> <li>■ Importing the data on target Management Server</li> <li>■ Deploying the <code>gendeploy.pl</code> script on all the managed hosts</li> <li>■ Discovering agentless hosts, virtualization details, array details, and switch details on target Management Server.</li> </ul>	/opt/VRTSsfmcs/config/adm/migrate_cs.pl

## Migrating Management Server

Complete the following tasks in the mentioned sequence to migrate a Management Server to another.

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**Note:** Do not Install the Storage Insight Add-on or Control Host Add-on on the target Management Server before the migration process, it can adversely affect the migration. Install the add-ons in the sequence as mentioned in the migration process.

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**Table 1-5** Migrating Management Server

Steps	Action	Description
Step 1	Install Management Server Migration Add-on 6.0 on source and target Management Servers.	<p>Before migrating Management Server, you need to install Management Server Migration Add-on 6.0 on source and target Management Servers.</p> <p>You can download the latest Add-on to Management Server from the following URL:</p> <p>For more information on installing Veritas Operations Manager Add-ons, see the <i>Veritas Operations Manager Management Server User Guide</i>.</p>
Step 2	Set up the security configurations on target Management Server.	<p>When you use Management Server Migration Add-on, data that is related to security groups, Lightweight Directory Access Protocol (LDAP) configurations, or Authentication Brokers is not automatically migrated. You need to do the following:</p> <ol style="list-style-type: none"> <li data-bbox="817 887 1193 968">1 Retrieve the security configuration details from source Management Server.  See <a href="#">“Getting configuration settings from source Management Server”</a> on page 17.</li> <li data-bbox="817 1090 1193 1203">2 Manually configure same security configuration setting on target Management Server using the Management Server console.</li> </ol> <p>For more information on configuring Authentication Brokers, LDAP configuration, or security groups, see the <i>Veritas Operations Manager Management Server User Guide</i>.</p>

**Table 1-5** Migrating Management Server (*continued*)

Steps	Action	Description
Step 3	Migrate the historical and the user-defined data from source Management Server to target Management Server.	<p>Export the historical and the user-defined data from source Management Server for migration. After the export, you need to copy the exported data and import it to target Management Server.</p> <p>See <a href="#">“Migrating data to target Management Server”</a> on page 18.</p>
Step 4	If source Management Server had Storage Insight Add-on, install the add-on on target Management Server.	<p>If source Management Server had Storage Insight Add-on for deep discovery of arrays, you need to upload and install the add-on on target Management Server after migration.</p> <p>For more information on uploading or installing Veritas Operations Manager add-ons, see the <i>Veritas Operations Manager Management Server User Guide</i>.</p>
Step 5	Add the managed hosts in source Management Server domain to target Management Server domain.	<p>You need to add the managed hosts in source Management Server domain to target Management Server domain using the Auto Configure (<code>gendeploy.pl</code>) script available on the Management Server.</p> <p>See <a href="#">“Adding managed hosts to target Management Server domain”</a> on page 18.</p>



**Table 1-5** Migrating Management Server (*continued*)

Steps	Action	Description
Step 6	If source Management Server was associated with a Control Host, configure a Control Host on target Management Server.	<p>If a remote Control Host used to report to source Management Server, you need to configure the same remote Control Host on target Management Server after migration.</p> <p>See <a href="#">“Configuring remote Control Host on target Management Server”</a> on page 19.</p> <p>If source Management Server was configured as Control Host, you need to configure target Management Server as Control Host after migration. Upload and install Control Host Add-on 6.0 Add-on target Management Server.</p> <p>For more information on uploading or installing Veritas Operations Manager add-ons, see the <i>Veritas Operations Manager Management Server User Guide</i>.</p>
Step 7	Discover hosts, arrays, and virtual machines.	<p>After migration, you need to discover the information about the hosts, virtual machines, arrays, and switches on target Management Server.</p> <p>See <a href="#">“Discovering information on target Management Server”</a> on page 20.</p>

---

**Note:** You cannot add the source Management Server as a managed host to the target Management Server after the migration is complete.

---

## Getting configuration settings from source Management Server

Use the `migratereport` option of `vomadm` command on source Management Server to get the configuration details from source Management Server.

Run the following command on your source Management Server:

```
./vomadm migratereport --src_cms [ --addon | --virt_config |
--host_config | --array | --broker_domain | --switch | --ldap |
--security_group | --all ]
```

The command displays the configuration details corresponding to the option that is used with the command.

- To get the configuration details of Lightweight Directory Access Protocol (LDAP) security:  

```
./vomadm migratereport --src_cms --ldap
```
- To get the configuration details of Authentication Brokers:  

```
./vomadm migratereport --src_cms --broker_domain
```
- To get the configuration details of security groups:  

```
./vomadm migratereport --src_cms --security_group
```

See “[Migrating Management Server](#)” on page 14.

## Migrating data to target Management Server

Migrating the historical and the user-defined data from source Management Server to target Management Server involves the following steps:

### To migrate data to target Management Server

- 1 Run the following command on your source Management Server to export the data:

```
/opt/VRTSsfmcs/config/adm/migrate_cs.pl --migrate_dir migrate_cs  
--export_data
```

where, *migrate\_cs* is the name of the directory with absolute path.

- 2 Copy the directory with the exported data to target Management Server.
- 3 Import the data on target Management Server. Use the following command:

```
/opt/VRTSsfmcs/config/adm/migrate_cs.pl --migrate_dir migrate_cs  
--import_data
```

where, *migrate\_cs* is the name of the directory that contains the copied exported data along with absolute path.

See “[Migrating Management Server](#)” on page 14.

## Adding managed hosts to target Management Server domain

You need to add the managed hosts in source Management Server domain to target Management Server domain.

### To add managed hosts to target Management Server domain

- 1 On target Management Server, create a script using the Auto Configure (`gendeploy.pl`) script.

Run the following command on your target Management Server:

```
/opt/VRTSsfmh/bin/gendeploy.pl --out migrate_cs/gendeploy.pl
```

where, *migrate\_cs* is the name of the directory with its absolute path that you specify as location for `gendeploy.pl` script.

- 2 Copy the `gendeploy.pl` script to a directory on source Management Server. This directory must be the same that you have initially used to export the data from.
- 3 Deploy the script on all the managed hosts reporting to source Management Server using the `gendeploy` option of `migrate_cs.pl` script.

Run the following command on your source Management Server to push the script on the managed hosts:

```
/opt/VRTSsfmcs/config/adm/migrate_cs.pl --migrate_dir migrate_cs  
--gendeploy
```

where, *migrate\_cs* is the directory that contains the exported data and the `gendeploy.pl` script.

- 4 Run the following command on your source Management Server to check the status of the `gendeploy.pl` script on all the managed hosts:

```
/opt/VRTSsfmcs/config/adm/migrate_cs.pl -migrate_dir /migrate_cs  
--gendeploy_status
```

where, *migrate\_cs* is the directory that contains the `gendeploy.pl` script.

See [“Migrating Management Server”](#) on page 14.

## Configuring remote Control Host on target Management Server

If source Management Server was associated with a remote Control Host, you need to configure the same managed host as a remote Control Host on target Management Server.

### To configure remote Control Host on target Management Server

- 1 Upload Control Host Add-on 6.0 on target Management Server.
- 2 Uninstall Control Host Add-on 6.0 from the remote Control Host reporting to source Management Server. Select **Ignore checks (if any) before uninstalling** while uninstalling the add-on.
- 3 Install Control Host Add-on 6.0 on the same managed host on target Management Server.

---

**Note:** If the remote Control Host used to discover any virtualization data on source Management Server, the virtualization data will not be displayed in the source Management Server console after you uninstall Control Host Add-on from the remote Control Host.

---

For more information on uploading, uninstalling, or installing Veritas Operations Manager Add-ons, see the *Veritas Operations Manager Management Server User Guide*.

See “[Migrating Management Server](#)” on page 14.

## Discovering information on target Management Server

To view the information about agentless hosts, arrays, virtual machines, and switches on the target Management Server console, you need to use the `migrate_cs.pl` script to initiate the discovery on target Management Server.

- To discover information about agentless host:

```
/opt/VRTSsfmcs/config/adm/migrate_cs.pl --migrate_dir migrate_cs  
--agentless
```

where, *migrate\_cs* is the directory that contains the imported data.

- To discover information about arrays:

```
/opt/VRTSsfmcs/config/adm/migrate_cs.pl --migrate_dir migrate_cs  
--array
```

where, *migrate\_cs* is the name of the directory that contains the imported data with its absolute path.

- To discover information about virtual machines:

```
/opt/VRTSsfmcs/config/adm/migrate_cs.pl --migrate_dir migrate_cs  
--virt
```

where, *migrate\_cs* is the name of the directory that contains the imported data with its absolute path.

- To discover information about switches:

```
/opt/VRTSsfmcs/config/adm/migrate_cs.pl --migrate_dir migrate_cs  
--switch
```

where, *migrate\_cs* is the name of the directory that contains the imported data with its absolute path.

See “[Migrating Management Server](#)” on page 14.

## Verifying the migration on target Management Server

You can use the `migratereport` option of the `vomadm` command on target Management Server to verify the information that is discovered.

```
vomadm migratereport --target_cms [ --addon | --virt_config |  
--host_config | --array | --switch | --all ]
```

The command displays the configuration details corresponding to the option that is used with the command.

- For add-ons:

```
/opt/VRTSsfmh/bin/vomadm migratereport --target_cms --addon
```

- For host configurations:

```
/opt/VRTSsfmh/bin/vomadm migratereport --target_cms --host_config
```

- For virtualization configurations:

```
/opt/VRTSsfmh/bin/vomadm migratereport --target_cms --virt_config
```

- For array configurations:

```
/opt/VRTSsfmh/bin/vomadm migratereport --target_cms --array
```

- For switch configurations:

```
/opt/VRTSsfmh/bin/vomadm migratereport --target_cms --switch
```

See “[Migrating Management Server](#)” on page 14.

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