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How to back up ESXi host configuration (2042141)

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∨Purpose

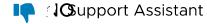
This article provides steps to back up and restore the ESXi host configuration.

Resolution

There are two conditions that need to be satisfied:

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i) The destination build number of the host matches the build from which the backup was (https://customerconnect.vmware.com/home) **Products and Accounts** Knowledge

ii) The UUID of the host remains the same.

You can backup and restore the host configuration using one of these methods:

- ESXi Command line
- vSphere CLI
- vSphere PowerCLI.

ESXi Command Line

Backing up ESXi host configuration data

1. To synchronize the configuration changed with persistent storage, run this command:

vim-cmd hostsvc/firmware/sync_config

2. To back-up the configuration data for an ESXi host, run this command:

vim-cmd hostsvc/firmware/backup_config

Note: The command will output a URL

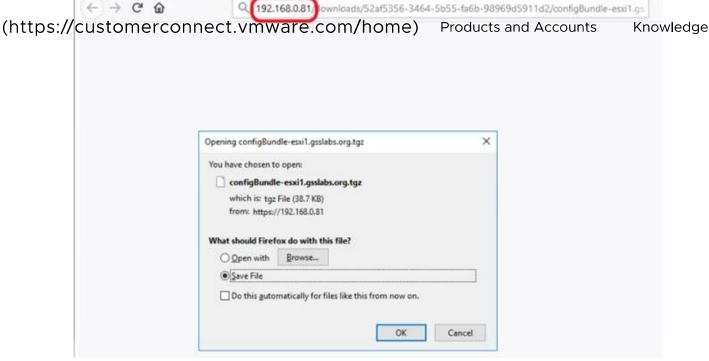
(http://*/downloads/123456/configBundle-xx.xx.xx.xx.tgz) in which a web browser may be used to download the file.

- * denotes the host IP/FQDN.
- 3. From a web browser navigate

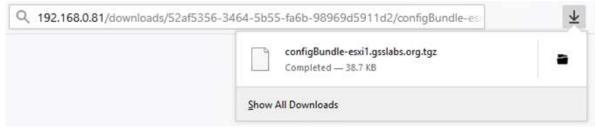
```
to http://Host FQDN/downloads/123456/configBundle-xx.xx.xx.xx.tgz
```

In this example the IP address of the host is 192.168.0.81





The backup file will be in the /downloads directory (default to browser or choose to download to a specific directory) as configBundle-HostFQDN.tgz



Note: To restore the configuration the destination ESXi host must be the same build as the ESXi host configuration data. The host build can be obtained using the command vmware -vl .

Restoring ESXi host configuration data

- 1. The configBundle-HostFQDN.tgz should be renamed as configBundle.tgz before initiating the restore command.
- 2. Put the host into maintenance mode by running this command:

```
vim-cmd hostsvc/maintenance mode enter
```

- 3. Copy the backup configuration file to the ESXi host or an available datastore.
- 4. Run this command to restore the ESXi hosts configuration:

vim-cmd hostsvc/firmware/restore config /backup location/configBundle.tgz

Notes: Was this article helpful? A YES





(https://customerconnect.vmware.com/nome) Products and Accounts Knowledge For example:

vim-cmd hostsvc/firmware/restore config 1 /tmp/configBundle.tgz

- \Executing this command will initiate an automatic reboot of the host after command completion.
- However, starting from vSphere 7.0 U2, the configuration could be encrypted using TPMs and in which case, the -force option will not work if the host got changed. We need the same TPM that was used on the host during backup, to restore. In other words,

from vSphere 7.0U2, the override will not work if the host has TPM enabled.

vSphere CLI

Backing up ESXi host configuration data

1. Run this command to backup the ESXi configuration:

```
\label{local_control_control} {\tt vicfg-cfgbackup --server=\it ESXi\_host\_IP\_address --username=root -soutput\_file\_name} \\
```

For example:

```
vicfg-cfgbackup --server=10.0.0.1 --username=root -s
ESXi test1 backup.tgz
```

In vSphere CLI for Windows:

- 1. Navigate to C:\Program Files\VMware\VMware vSphere CLI\bin
- 2. Run this command to backup the ESXi configuration:

```
vicfg-cfgbackup.pl --server=ESXi_host_IP_address --username=root -s
output file name
```

For example:

```
vicfg-cfgbackup.pl --server=10.0.0.1 --username=root -s
ESXi test1 backup.tgz
```

Notes:

- Use the --password=root password option to skip the password prompt.
- A backup 操力的使用多致性的性性性性性性性性性性性性性性性性的 working ectory per 100 uppotteAssistant vicfg-cfgbackup script.

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Restoring the host configuration restores the state of the ESXi along with any vSphere standard switch networking configuration.

Note: When restoring configuration data, the build number of the host must match the build number of the host on backup file and UUID (can be obtained using the command "esxcfg-info-u") of the host should match the UUID of the host on backup file. Use the -f option (force) to override the UUID mismatch. However, starting from vSphere 7.0 U2, the configuration could be encrypted using TPMs and in which case, the -force option will not work if the host got changed. We need the same TPM that was used on the host during backup, to restore. In other words,

from vSphere 7.0U2, the override will not work if the host has TPM enabled.

In vSphere CLI

To restore the configuration data for an ESXi host using the vSphere CLI:

- 1. Put the host that you want to restore maintenance mode.
- 2. Log in to a server where the vCLI is installed.
- 3. Run the vicfg-cfgbackup script with the -1 flag to load the host configuration from the specified backup file:

vSphere CLI

```
vicfg-cfgbackup --server=ESXi_host_IP_address --username=root -l
backup file
```

For example:

```
vicfg-cfgbackup --server=10.0.0.1 --username=root -1 ESXi test1 backup.txt
```

vSphere CLI for Windows:

```
vicfg-cfgbackup.pl --server=ESXi_host_IP_address --username=root -l
backup file
```

For example:

```
vicfg-cfgbackup.pl --server=10.0.0.1 --username=root -l
ESXi test1 backup.txt
```

Note: Bypass the confirmation to proceed with the -q option.

Was this article helpful? YES YES upport Assistant To restore an ESXi host to the stock configuration settings, run the command:

vicfg-cfgbackup --server=ESXi_host_IP_address --username=root -r

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For example:

vicfq-cfgbackup --server=10.0.0.1 --username=root -r

Note: ESXi host should be rebooted for the configuration changes to take effect.

In vSphere PowerCLI

Backing up ESXi host configuration data

 $\label{lem:configuration} \begin{tabular}{l} {\tt Get-VMHostFirmware -VMHost} & {\tt ESXi_host_IP_address -BackupConfiguration - DestinationPath output directory} \end{tabular}$

For ESXi 6.7, see Reset the System Configuration (https://docs.vmware.com/en/VMware-vSphere/6.7/com.vmware.esxi.install.doc/GUID-AD450DA3-881B-4916-9231-9B6998AAC3AA.html)

For example:

Get-VMHostFirmware -VMHost 10.0.0.1 -BackupConfiguration -DestinationPath C:\Downloads

Note: A backup file is saved in the directory specified with the -DestinationPath option.

Restoring ESXi host configuration data

Note: When restoring configuration data, the build number of the host must match the build number of the host on backup file and UUID (can be obtained using the command <code>esxcfg-info-u</code>) of the host should match the UUID of the host on backup file. Use the -force option to override the UUID mismatch. However, starting from vSphere 7.0 U2, the configuration could be encrypted using TPMs and in which case, the -force option will not work if the host got changed. We need the same TPM that was used on the host during backup, to restore. In other words,

from vSphere 7.0U2, the override will not work if the host has TPM enabled.

1. Put the host into maintenance mode by running the command:

```
Set-VMHost -VMHost ESXi host IP address -State 'Maintenance'
```

2. Restore the configuration from the backup bundle by running the command:

Set-VMHostFirmware -VMHost ESXi_host_IP_address -Restore -SourcePath

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Set-VMHostFirmware -VMHost 10.0.0.1 -Restore -SourcePath c:\bundleToRestore.tgz -HostUser root -HostPassword exampleRootPassword

Related Information

Note: The information about virtual machines is not stored in the config backup and the virtual machines must be re-inventoried from the datastore browser after a config backup restore. Also, bootbank information is not stored in a config backup. If needed, this must be backed up and downloaded separately in a compressed tar file.

For more information, see:

- Backing Up Configuration Information with vicfg-cfgbackup section in the vSphere 5.1 Command Line Documentation (http://pubs.vmware.com/vsphere-51/topic/com.vmware.vcli.examples.doc/cli_manage_hosts.4.4.html)
- Get-VMHostFirmware section in the vSphere PowerCLI Reference (http://pubs.vmware.com/vsphere-51/topic/com.vmware.powercli.cmdletref.doc/Get-VMHostFirmware.html)
- Set-VMHostFirmware section in the vSphere PowerCLI Reference (http://pubs.vmware.com/vsphere-51/topic/com.vmware.powercli.cmdletref.doc/Set-VMHostFirmware.html)

Note: if you have installed a version of vSphere later than 5.1, see the Command Line Document and PowerCLI Reference for that version in the VMware Documentation Library.

PowerCLI Notes:

- Remember that the 64 bit version of PowerCLI is installed in C:\Program Files, and the 32 bit version is in C:\Program Files (x86).
- You must always run PowerCLI as Administrator.

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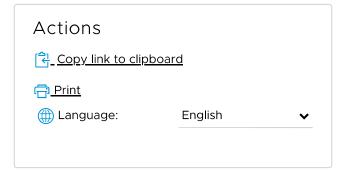
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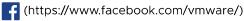
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