5NINE SOFTWARE

#1 Management and Security for Windows Server and Hyper-V

Getting Started Guide

5nine V2V Easy Converter PowerShell API Description

2017

Microsoft Partner Network

Windows Server 2012 Certified

Windows Server 2012 R2 Certified

Invocation

1) Open PowerShell Window.

2) Execute

```
PS C:\Users\Administrator> Add-PSSnapin 59v2v
```

this will load snap-in.

3) Use Convert-VM cmdlet to perform conversion.

4) Once conversion succeeded Convert-VM will pass Virtual Machine Id and Hyper-V ComputerName to the pipeline, so you could use it later to configure VM.

Supported options

MANDATORY PARAMETERS

-s <string> Source ESX/ESXi server

-sp <string> Source host admin password

-su <string> Source host admin login

-sv <string> Source VM name to convert

-t <string> Destination Hyper-V host (defaults to local host)

-tp <string> Hyper-V host admin pass

-tu <string> Hyper-V host admin login

-tv <string> Destination VM name (defaults to source name

OPTIONAL PARAMETERS

-cpu <int> Override number of CPUs to value (1-4)

-mem <int> Override memory size to value MB (1-32768)

-net <string> Connect VM to specified virtual network

-vhd Use vhd disk format (vhdx is default)

-start <int> Override automatic startup action (0 - None, 1 - Restart, 2 - Always)

-delay <int> Override automatic startup delay to value seconds

-stop <int> Override automatic shutdown action (0 - Turn Off, 1 - Save, 2 - Shutdown)

-vhdpath <string> Store VM disk files at specified path

-vmpath <string> Store VM files at specified path

-temp <string> Use specified path as temporary location

-shutdown Automatically shutdown source VM prior to conversion

-startup Automatically start destination VM after conversion

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Security & Management Solutions for Hyper-V and Windows Server

Example: converting VM

To perform conversion using PowerShell specify source (VMware ESX/ESXi) host name, credentials and VM name to convert and destination (Hyper-V) host info. Use additional options to specify additional info to converter, such as amount of RAM to assign, name of virtual network to connect to, and so on. It's strongly suggested to manually shutdown source VM before proceeding with conversion to avoid data loss and VMware license limitations.

```
PS C:\Users\Administrator> Convert-VM -verbose -s esxi_host -su root -sp
password -sv dummy -net vSwitch -start 2 -stop 0 -delay 60 -cpu 2 -mem 256
```

Example: processing result using pipeline

Running VM conversion from esxi_host and passing resulting object down to pipeline. Verbose flag turned on.

```
PS C:\Users\Administrator> Convert-VM -verbose -s esxi_host -su root -sp
password -sv dummy -net vSwitch | Get-VM
5nine EasyConverter 3.0.0, part of 5nine Migration Kit.
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VERBOSE: (  1%) Connecting to 192.168.0.100 VMware host
VERBOSE: ( 10%) Connecting to WIN-JKO8UJJTDI3 Hyper-V host
VERBOSE: ( 20%) Getting 'dummy' VM information
VERBOSE: ( 30%) Starting conversion
VERBOSE: ( 40%) Examining Source and Target
VERBOSE: ( 50%) Preparing Temporary Path
VERBOSE: ( 60%) Starting disks conversion
VERBOSE: ( 70%) Conversion...
VERBOSE: ( 80%) Conversion completed
VERBOSE: ( 85%) Cleaning up Temporary Path
VERBOSE: ( 90%) Creating Generation 2 VM
VERBOSE: (100%) Done
Virtual machine 'dummy' (137EF963-522D-44B0-8101-E420896FA84C) has been
converted.

Name  State CPUUsage(%) MemoryAssigned(M) Uptime   Status
----  ----- ----------- ----------------- ------   ------
dummy Off   0           0                 00:00:00 Operating normally
```

Getting offline help

To list supported options use

```
PS C:\Users\Administrator> Get-Help Convert-VM -full
```

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