**Module 7: Moving From a Command to Script to Module**

The following command is for you to add to a script. You should first identify any elements that should be parameterized, such as the computer name. Your final script should define the parameter, and you should create comment-based help within the script. Run your script to test it, and use the Help command to make sure your comment-based help works properly. Don’t forget to read the help files referenced within this chapter for more information.

Here’s the command:

Get-WmiObject –class Win32\_LogicalDisk –computer "localhost" –filter "drivetype=3" |  
Where { $\_.FreeSpace / $\_.Size –lt .1 } |  
Select –Property DeviceID,FreeSpace,Size

Here’s a hint: There are at least two pieces of information that will need to be parameterized. This command is intended to list all drives that have less than a given amount of free disk space. Obviously, you won’t always want to target localhost, and you might not want 10% (that is, .1) to be your free space threshold. You could also choose to parameterize the drive type (which is 3, here), but for this lab leave that hardcoded with the value 3.

<#

.Synopsis

Get drives based on percentage free space

.Description

This command will get all local drives that have less than the specified

percentage of free space available.

.Parameter Computername

The name of the computer to check. The default is localhost.

.Parameter MinimumPercentFree

The minimum percent free diskspace. This is the threshhold. The default

value is 10. Enter a number between 1 and 100.

.Example

PS C:\> Get-Disk -minimum 20

Find all disks on the local computer with less than 20% free space.

.Example

PS C:\> Get-Disk -comp SERVER02 -minimum 25

Find all local disks on SERVER02 with less than 25% free space.

#>

Param (

$Computername='localhost',

$MinimumPercentFree=10

)

#Convert minimum percent free

$minpercent = $MinimumPercentFree/100

Get-WmiObject –class Win32\_LogicalDisk –computername $computername -filter "drivetype=3" |

Where { $\_.FreeSpace / $\_.Size –lt $minpercent } |

Select –Property DeviceID,FreeSpace,Size

Explanation:

In my system as my drives have more than 10% free space I have the minimumpercentagefree value to 80 and ran the script. Here is the output of the above script when the minimumpercentagefree is modified as 80:

