Chapter 22 Lab

This lab is going to require you to recall some of what you learned in Chapter 21, because you’ll be taking the below command, parameterizing it, and turning it into a script – just like you did for the lab in Chapter 21. However, this time we also want you to make the –computerName parameter mandatory and give it a “hostname” alias. Have your script display verbose output before and after it runs this command, too. Remember, you have to parameterize the computer name – but that’s the only thing you have to parameterize in this case. Be sure to run the command as-is before you start modifying it, to make sure it works on your system.

get-wmiobject win32\_networkadapter –computername localhost |

where { $\_.PhysicalAdapter } |

select MACAddress,AdapterType,DeviceID,Name,Speed

So to reiterate, here’s your complete task list:

* Make sure the command runs as-is before modifying it.
* Parameterize the computer name.
* Make the computer name parameter mandatory.
* Give the computer name parameter an alias, “hostname.”
* Add comment-based help with at least one example of how to use the script.
* Add verbose output before and after the modified command.
* Save the script as Get-PhysicalAdapters.ps1.

#Get-PhysicalAdapters.ps1

<#

.Synopsis

Get physical network adapters

.Description

Display all physical adapters from the Win32\_NetworkAdapter class.

.Parameter Computername

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

.Example

PS C:\> c:\scripts\Get-PhysicalAdapters -computer SERVER01

#>

[cmdletbinding()]

Param (

[Parameter(Mandatory=$True,HelpMessage="Enter a computername to query")]

[alias('hostname')]

[string]$Computername

)

Write-Verbose "Getting physical network adapters from $computername"

Get-Wmiobject -class win32\_networkadapter –computername $computername |

where { $\_.PhysicalAdapter } |

select MACAddress,AdapterType,DeviceID,Name,Speed

Write-Verbose "Script finished."