Powershell 3 Lab Chapter 13

1. **Make a one-to-one connection with a remote computer (or with “localhost” if you only have one computer). Launch Notepad.exe. What happens?**

PS> Enter-PSSession -computerName Claudius

[Claudius]: PS> Notepad.exe

When I launch Notepad across the one-to-one connection, a process named “notepad” is launched on the remote computer. However, no Notepad window appears on either the local or remote computer. Powershell freezes on the local computer until the Notepad process is stopped on the remote computer.

1. **Using Invoke-Command, retrieve a list of services that aren’t started from one or two remote computers (it’s OK to use “localhost” twice if you only have one computer). Format the results as a wide list. (Hint: it’s OK to retrieve results and have the formatting occur on your computer—don’t include the Format-cmdlets in the commands that are invoked remotely.)**

PS> Invoke-Command -ComputerName Claudius -ScriptBlock {Get-Service} | Where-Object -Property Status -eq "Stopped" | Format-Wide

AeLookupSvc ALG

AppIDSvc Appinfo

AppMgmt AppReadiness

AppXSvc AudioEndpointBuilder

Audiosrv BITS

Browser CertPropSvc

...

1. **Use Invoke-Command to get a list of the top ten processes for virtual memory (VM) usage. Target one or two remote computers, if you can; if you only have one computer, target “localhost” twice.**

PS> Invoke-Command -ComputerName Claudius -ScriptBlock {Get-Process | Sort-Object -Property VM -Descending | Select-Object -Property Name -First 10} | Select-Object Name

Name

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svchost

lsass

svchost

dsac

ServerManager

svchost

dfsrs

powershell

Microsoft.ActiveDirectory.WebServices

wsmprovhost

1. **Create a text file that contains three computer names, with one name per line. It’s OK to use the same computer name, or “localhost,” three times if you only have access to one remote computer. Then use Invoke-Command to retrieve the 100 newest Application event log entries from the computer names listed in that file.**

PS> Get-Content .\Computers.txt

localhost

Polonius

Claudius

PS> Invoke-Command -ComputerName (Get-Content .\Computers.txt) -ScriptBlock {Get-EventLog -LogName Application | Sort-Object -Property TimeGenerated -Descending | Select-Object -First 100}

Index Time EntryType InstanceID Message PSCompute

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454 Oct 05 09:54 Information 1530 Windows detected your ... Claudius

455 Oct 05 09:54 Information 1530 Windows detected your ... Claudius

453 Oct 05 09:44 Information 1000 Performance counters f... Claudius

452 Oct 05 09:44 Information 1001 Performance counters f... Claudius

450 Oct 05 09:43 Information 326 svchost (2036) The dat... Claudius

451 Oct 05 09:43 Information 327 svchost (2036) The dat... Claudius

448 Oct 05 09:43 Information 1073758208 Successfully scheduled... Claudius

449 Oct 05 09:43 0 1073742727 The Software Protectio... Claudius

440 Oct 05 09:42 Information 327 svchost (2036) The dat... Claudius

441 Oct 05 09:42 Information 326 svchost (2036) The dat... Claudius

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895 Oct 17 08:45 Information 1073746026 The description for Ev... Polonius

894 Oct 17 08:45 Information 1073742605 The description for Ev... Polonius

981 Oct 05 09:54 Information 1001 Fault bucket 125026835... Polonius

980 Oct 05 09:54 Information 1001 Fault bucket , type 0... Polonius

979 Oct 05 09:54 Information 1001 Fault bucket 127398851... Polonius

978 Oct 05 09:54 Information 1001 Fault bucket 127398801... Polonius

977 Oct 05 09:54 Information 1001 Fault bucket , type 0... Polonius

976 Oct 05 09:54 Information 1001 Fault bucket , type 0... Polonius

975 Oct 05 09:54 Information 1001 Fault bucket , type 0... Polonius

974 Oct 05 09:54 Information 1001 Fault bucket , type 0... Polonius

...

895 Oct 17 08:45 Information 1073746026 The description for Ev... localhost

894 Oct 17 08:45 Information 1073742605 The description for Ev... localhost

981 Oct 05 09:54 Information 1001 Fault bucket 125026835... localhost

980 Oct 05 09:54 Information 1001 Fault bucket , type 0... localhost

979 Oct 05 09:54 Information 1001 Fault bucket 127398851... localhost

978 Oct 05 09:54 Information 1001 Fault bucket 127398801... localhost

977 Oct 05 09:54 Information 1001 Fault bucket , type 0... localhost

976 Oct 05 09:54 Information 1001 Fault bucket , type 0... localhost

975 Oct 05 09:54 Information 1001 Fault bucket , type 0... localhost

974 Oct 05 09:54 Information 1001 Fault bucket , type 0... localhost

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