Powershell 3 Lab Chapter 20

**1. Close all open sessions in your shell.**

PS> Get-PSSession | Remove-PSSession

**2. Establish a session to a remote computer. Save the session in a variable named $session.**

PS> $session = New-PSSession -ComputerName Claudius

**3. Use the $session variable to establish a one-to-one remote shell session with the remote computer. Display a list of processes, and then exit.**

PS> Enter-PSSession -Session $session

[Claudius]: PS> Get-Process

Handles NPM(K) PM(K) WS(K) VM(M) CPU(s) Id ProcessName

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171 11 1556 3564 46 0.33 284 csrss

135 11 1308 8884 49 0.50 348 csrss

321 31 13704 18144 622 1.61 1236 dfsrs

119 12 1708 5108 31 0.09 1472 dfssvc

...

[Claudius]: PS> Exit-PSSession

PS>

**4. Use the $session variable with Invoke-Command to get a list of services from the remote computer.**

PS> Invoke-Command -Session $session -ScriptBlock {Get-Service}

Status Name DisplayName PSComputerName

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Running ADWS Active Directory Web Services Claudius

Stopped AeLookupSvc Application Experience Claudius

Stopped ALG Application Layer Gateway Service Claudius

Stopped AppIDSvc Application Identity Claudius

...

**5. Use Get-PSSession and Invoke-Command to get a list of the 20 most recent Security event log entries from the remote computer.**

PS> Invoke-Command -Session (Get-PSSession) -ScriptBlock {Get-EventLog -LogName Security -Newest 20}

Index Time EntryType Source InstanceID Message PSComputerName

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21401 Dec 12 15:29 SuccessA... Micro... 4634 An acco... Claudius

21400 Dec 12 15:29 SuccessA... Micro... 4624 An acco... Claudius

21399 Dec 12 15:29 SuccessA... Micro... 4672 Special... Claudius

21398 Dec 12 15:29 SuccessA... Micro... 4634 An acco... Claudius

21397 Dec 12 15:29 SuccessA... Micro... 4624 An acco... Claudius

...

**6. Use Invoke-Command and your $session variable to load the ServerManager module on the remote computer.**

PS> Invoke-Command -Session $session -ScriptBlock {Import-Module ServerManager}

**7. Import the ServerManager module’s commands from the remote computer to your computer. Add the prefix “rem” to the imported commands’ nouns.**

PS> Import-PSSession -Session $session -Module ServerManager -Prefix rem

ModuleType Version Name ExportedCommands

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Script 1.0 tmp\_s0jajspd.wx3 {Disable-remServerManagerStandardU...

**8. Run the imported Get-WindowsFeature command.**

PS C:\Windows\system32> Get-remWindowsFeature

RunspaceId : 73b388a7-8e03-48a9-acc8-20399fc7200d

Name : AD-Certificate

DisplayName : Active Directory Certificate Services

Description : Active Directory Certificate Services (AD CS) is used to create certification authorities

and related role services that allow you to issue and manage certificates used in a

variety of applications.

Installed : False

InstallState : Available

FeatureType : Role

Path : Active Directory Certificate Services

Depth : 1

DependsOn : {}

Parent :

ServerComponentDescriptor : ServerComponent\_AD\_Certificate

SubFeatures : {ADCS-Cert-Authority, ADCS-Enroll-Web-Pol, ADCS-Enroll-Web-Svc, ADCS-Web-Enrollment...}

SystemService : {}

Notification : {}

BestPracticesModelId : Microsoft/Windows/CertificateServices

EventQuery : ActiveDirectoryCertificateServices.Events.xml

PostConfigurationNeeded : False

AdditionalInfo : {MajorVersion, InstallName, MinorVersion, NumericId}

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**9. Close the session that’s in your $session variable.**

PS> Remove-PSSession -Session $session