Powershell 3 Lab Chapter 15

**1. Create a one-time background job to find all the PowerShell scripts on the C: drive. Any task that might take a long time to complete is a great candidate for a job.**

PS> Start-Job -ScriptBlock {Get-ChildItem C:\ -Filter \*.ps1 -Recurse}

Id Name PSJobTypeName State HasMoreData Location Command

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1 Job1 BackgroundJob Running True localhost Get-ChildItem C...

PS> Get-Job

Id Name PSJobTypeName State HasMoreData Location Command

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1 Job1 BackgroundJob Completed True localhost Get-ChildItem ...

PS C:\Windows\system32> Receive-Job 1

Directory: C:\Program Files\WindowsPowerShell\Modules\PackageManagement\1.0.0.1

Mode LastWriteTime Length Name

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-a---- 30/10/2015 6:21 PM 5037 PackageManagement.format.ps1xml

Directory: C:\Program Files\WindowsPowerShell\Modules\Pester\3.3.5

Mode LastWriteTime Length Name

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-a---l 30/10/2015 6:19 PM 11294 build.psake.ps1

-a---l 30/10/2015 6:19 PM 19206 Pester.Tests.ps1

...

**2. You realize it would be helpful to identify all PowerShell scripts on some of your servers. How would you run the same command from task 1 on a group of remote computers?**

PS> Invoke-Command –ComputerName Claudius, Polonius –ScriptBlock {Start-Job -ScriptBlock {Get-ChildItem C:\ -Filter \*.ps1 -Recurse}}

**3. Create a background job that will get the latest 25 errors from the system event log on your computer and export them to a CliXML file. You want this job to run every day, Monday through Friday at 6:00 a.m., in order for it to be ready for you to look at when you come in to work.**

PS> Register-ScheduledJob -Name DailySystemErrorList -ScriptBlock {Get-EventLog -LogName System -EntryType Error -Newest 25 | Export-CliXML -Path "C:\System Errors $($(Get-Date).ToString('yyyyMMdd')).xml"} -Trigger (New-JobTrigger -Daily -At 6AM) -ScheduledJobOption (New-ScheduledJobOption -WakeToRun -RunElevated)

Id Name JobTriggers Command Enabled

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1 DailySystemE... 1 Get-EventLog -LogName System -Ent... True

**4. What cmdlet would you use to get the results of a job, and how would you save the results in the job queue?**

The Receive-Job cmdlet will get the results of a job. The Keep parameter will save the results in the job queue.