Powershell 3 Lab Chapter 8

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**1. Identify a cmdlet that will produce a random number.**

PS > Get-Random

1452202383

**2. Identify a cmdlet that will display the current date and time.**

PS> Get-Date

Thursday, 19 May 2016 2:56:03 PM

**3. What type of object does the cmdlet from task #2 produce? (What is the type name of the object produced by the cmdlet?)**

PS C:\Users\Administrator> Get-Date | Get-Member

TypeName: System.DateTime

...

**4. Using the cmdlet from task #2 and Select-Object, display only the current day of the week in a table.**

PS> Get-Date | Select-Object DayOfWeek

DayOfWeek

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Thursday

**5. Identify a cmdlet that will display information about installed hotfixes.**

Get-HotFix

**6. Using the cmdlet from task #5, display a list of installed hotfixes. Sort the list by the installation date, and display only the installation date, the user who installed the hotfix, and the hotfix ID.**

PS> Get-HotFix | Select-Object InstallDate, InstalledBy, HotFixId | Sort-Object InstallDate

InstallDate InstalledBy HotFixId

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BIRNAM\Administrator KB2938772

BIRNAM\Administrator KB2939471

BIRNAM\Administrator KB2949621

BIRNAM\Administrator KB2919355

BIRNAM\Administrator KB2919442

BIRNAM\Administrator KB2937220

**7. Repeat task #6, but this time sort the results by the hotfix description, and include the description, the hotfix ID, and the installation date. Put the results into an HTML file.**

PS> Get-HotFix | Select-Object Description, HotFixId, InstallDate | Sort-Object Description | ConvertTo-HTML

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<title>HTML TABLE</title>

</head><body>

<table>

<colgroup><col/><col/><col/></colgroup>

<tr><th>Description</th><th>HotFixId</th><th>InstallDate</th></tr>

<tr><td>Hotfix</td><td>KB2949621</td><td></td></tr>

<tr><td>Update</td><td>KB2939471</td><td></td></tr>

<tr><td>Update</td><td>KB2919355</td><td></td></tr>

<tr><td>Update</td><td>KB2938772</td><td></td></tr>

<tr><td>Update</td><td>KB2919442</td><td></td></tr>

<tr><td>Update</td><td>KB2937220</td><td></td></tr>

</table>

</body></html>

**8. Display a list of the 50 newest entries from the Security event log (you can use a different log, such as System or Application, if your Security log is empty). Sort the list so that the oldest entries appear first, and so that entries made at the same time are sorted by their index. Display the index, time, and source for each entry. Put this information into a text file (not an HTML file, just a plain text file).**

PS> Get-EventLog -LogName Security -Newest 50 | Select-Object Index, TimeGenerated, Source | Sort-Object -Property @{Expression="TimeGenerated";Descending=$true}, @{Expression="Index";Descending=$false} | Out-File RecentSecurityEvents.txt

PS> Get-Content RecentSecurityEvents.txt

Index TimeGenerated Source

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8827 23/05/2016 2:49:07 PM Microsoft-Windows-Security-Auditing

8828 23/05/2016 2:49:07 PM Microsoft-Windows-Security-Auditing

8829 23/05/2016 2:49:07 PM Microsoft-Windows-Security-Auditing

8821 23/05/2016 2:48:54 PM Microsoft-Windows-Security-Auditing

8822 23/05/2016 2:48:54 PM Microsoft-Windows-Security-Auditing

8823 23/05/2016 2:48:54 PM Microsoft-Windows-Security-Auditing

8824 23/05/2016 2:48:54 PM Microsoft-Windows-Security-Auditing

8825 23/05/2016 2:48:54 PM Microsoft-Windows-Security-Auditing

8826 23/05/2016 2:48:54 PM Microsoft-Windows-Security-Auditing

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