Powershell 3 Lab Chapter 11

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**1. Import the NetAdapter module (available in the latest version of Windows, both client and server). Using the Get-NetAdapter cmdlet, display a list of nonvirtual network adapters (that is, adapters whose Virtual property is False, which PowerShell represents with the special $False constant).**

PS> Get-NetAdapter -Physical

Name InterfaceDescription ifIndex Status

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Ethernet0 Intel(R) 82574L Gigabit Network Conn... 13 Up

**2. Import the DnsClient module (available in the latest version of Windows, both client and server). Using the Get-DnsClientCache cmdlet, display a list of A and AAAA records from the cache. Hint: if your cache comes up empty, try visiting a few web pages first to force some items into the cache.**

PS> Get-DNSClientCache -Type A, AAAA

**3. Display a list of hotfixes that are security updates.**

PS> Get-Hotfix | Where-Object {$\_.Description -like "Security Update\*"}

Source Description HotFixID InstalledBy

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DESKTOP-CT... Security Update KB3154132 NT AUTHORITY\SYSTEM

DESKTOP-CT... Security Update KB3147458 NT AUTHORITY\SYSTEM

**4. Using Get-Service, is it possible to display a list of services that have a start type of Automatic, but that aren’t currently started? Answer “Yes” or “No” to this question. You don’t need to write a command to accomplish this.**

Yes.

PS> Get-Service | Where-Object {($\_.StartType -eq "Automatic") -and ($\_.Status -eq "Stopped")}

**5. Display a list of hotfixes that were installed by the Administrator, and which are updates. Note that some hotfixes won’t have an “installed by” value—that’s OK.**

PS> Get-Hotfix | Where-Object {($\_.Description -like "\*update\*") -and ($\_.InstalledBy -eq "Administrator")}

**6. Display a list of all processes running with either the name “Conhost” or the name “Svchost”.**

PS> Get-Process | Where-Object {($\_.ProcessName -eq "conhost") -or ($\_.ProcessName -eq "svchost")}

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

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181 12 5108 15448 ...66 0.86 4392 1 conhost

335 25 6520 22928 ...96 0.44 520 1 svchost

921 34 7976 17524 ...69 1.19 556 0 svchost

509 39 13816 16416 ...71 2.27 592 0 svchost

654 25 14740 19164 ...38 1.80 612 0 svchost

658 20 6604 18892 ...33 2.03 844 0 svchost

555 16 4184 8996 ...96 2.84 876 0 svchost

304 21 2996 11460 ...37 0.25 928 0 svchost

490 24 29936 40984 ...84 20.78 1028 0 svchost

1480 49 16044 33608 ...30 8.59 1056 0 svchost

534 35 6336 14920 ...52 0.69 1268 0 svchost

199 16 4216 16156 ...38 0.95 1400 0 svchost

304 19 5044 18708 ...98 0.58 2040 0 svchost