Chapter 11 Lab

Remember that Where-Object isn’t the only way to filter, and it isn’t even the one you should turn to first. We’ve kept this chapter a bit shorter so that you can have more time to work on hands-on examples, so following the principle of filter left, try to accomplish the following:

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 non-virtual network adapters (that is, adapters whose Virtual property is False, which PowerShell represents with the special $False constant).  
     
   import-module NetAdapter  
   get-netadapter -physical
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.  
     
   Import-Module DnsClient  
   Get-DnsClientCache -type AAAA,A
3. Display a list of hotfixes that are security updates.  
     
   Get-Hotfix -Description 'Security Update’
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?  
     
   No. The object that Get-Service uses doesn’t have that information. We would need to use WMI and the Win32\_Service class.
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 okay.  
     
   get-hotfix -Description Update | where {$\_.InstalledBy -match "administrator"}
6. Display a list of all processes running as either Conhost or Svchost.  
     
   get-process -name svchost,conhost