Chapter 16 Lab

See if you can answer the following questions and complete the specified tasks. This is an especially important lab, because it draws on skills that you’ve learned in many previous chapters, and that you should be continuing to use and reinforce as you progress through the remainder of this book.

1. What method of a ServiceController object (produced by Get-Service) will pause the service without stopping it completely?  
     
   Find the methods like this: get-service | Get-Member -MemberType Method  
   and you should see a Pause() method.
2. What method of a Process object (produced by Get-Process) would terminate a given process?  
     
   Find the methods like this: get-process | Get-Member -MemberType Method  
   and you should see a Kill() method. You could verify by checking the MSDN documentation for this process object type. Of course you shouldn’t need to invoke the method because there is a cmdlet, Stop-Process, that will do the work for you.
3. What method of a WMI Win32\_Process object would terminate a given process?  
     
   You could search the MSDN documentation for the Win32\_Process class. Or you might use the CIM cmdlets since they also work with WMI to list all of the possible methods.  
   Get-CimClass win32\_process | select -ExpandProperty methods  
     
   In either event, you should see the Terminate() method.
4. Write four different commands that could be used to terminate all processes named “Notepad”, assuming that multiple processes might be running under that same name.  
     
   get-process Notepad | stop-process  
   stop-process -name Notepad   
   get-process notepad | foreach {$\_.Kill()}  
   Get-WmiObject win32\_process -filter {name='notepad.exe'} | Invoke-WmiMethod -Name Terminate