

Hey, Scripting Guy! Blog

Learn about Windows PowerShell

2010 Scripting Games: Beginner Event 8--Listing Process Information

[ScriptingGuy1](#)

5 May 2010 1:01 AM

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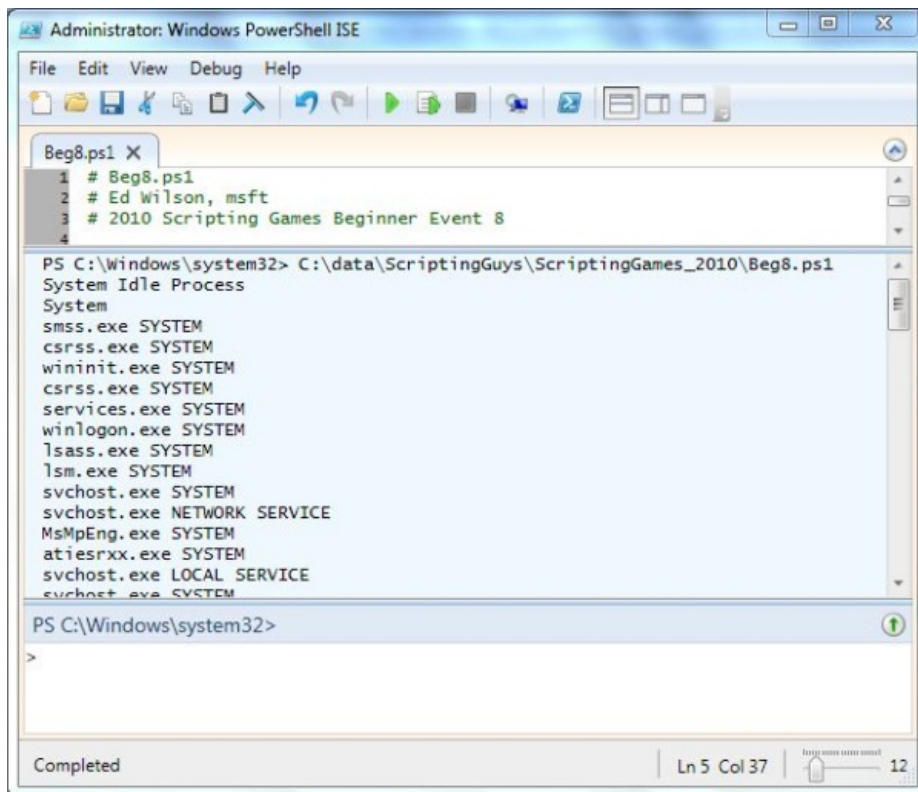
Note: We are no longer accepting entries for this event. See the [due dates page](#) for a list of all event due dates.

About This Event

Division	Beginner
Date of Event	May 5, 2010
Due Date	May 12, 2010

Event Scenario

You are concerned about the processes that are starting up automatically on your computer, and you would like to gather more information about all the processes on your system. You are particularly interested in the process name and the owner of the process. Your output should list the process name and the owner as shown in the following image.



The screenshot shows the Windows PowerShell ISE interface. The title bar reads "Administrator: Windows PowerShell ISE". The menu bar includes File, Edit, View, Debug, and Help. The toolbar contains various icons for file operations and execution. The script editor shows a file named "Beg8.ps1" with the following content:

```
1 # Beg8.ps1
2 # Ed Wilson, msft
3 # 2010 Scripting Games Beginner Event 8
4
```

The console window shows the output of the script, listing system processes and their session IDs (SYSTEM or SERVICE):

```
PS C:\Windows\system32> C:\data\ScriptingGuys\ScriptingGames_2010\Beg8.ps1
System Idle Process
System
smss.exe SYSTEM
csrss.exe SYSTEM
wininit.exe SYSTEM
csrss.exe SYSTEM
services.exe SYSTEM
winlogon.exe SYSTEM
lsass.exe SYSTEM
lsim.exe SYSTEM
svchost.exe SYSTEM
svchost.exe NETWORK SERVICE
MsMpEng.exe SYSTEM
atiesrxx.exe SYSTEM
svchost.exe LOCAL SERVICE
svchost.exe SYSTEM
```

The status bar at the bottom indicates "Completed", "Ln 5 Col 37", and a progress indicator at 12.

Design Points

Your script does not have to run against a remote computer.

Extra points for sorting the processes alphabetically.

Extra points for grouping instances of the same process.

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Ed Wilson and Craig Liebendorfer, Scripting Guys

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