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Nombre del Técnico: Ciberseguridad

Nombre del Módulo: Shell scripting

Laboratorio 1

Analizar: Get-Process -Name "Code"

- **Paso 1:** Ejecutar en el cmd tasklist y elejir un proceso.
- **Paso 2:** Ejecutar en PowerShell Get-Process -Name "nombre- proceso (sin el .exe)"
- **Ejemplo:** Get-Process -Name "firefox"
- **Instrucción final:** Hacer este ejercicio con todos los procesos listados en el comando tasklist.

Tasklist - 1

Administrator: Símbolo del sistema					
Microsoft Windows [Versión 10.0.19045.6466]					
(c) Microsoft Corporation. Todos los derechos reservados.					
C:\Windows\system32>tasklist					
Nombre de imagen	PID	Nombre de sesión	Númer.	Uso de memoria	
System Idle Process	0	Services	0	8 KB	
System	4	Services	0	21,460 KB	
Registry	108	Services	0	65,136 KB	
sms.exe	424	Services	0	520 KB	
csrss.exe	552	Services	0	3,392 KB	
wininit.exe	600	Services	0	3,366 KB	
services.exe	796	Services	0	7,076 KB	
lsass.exe	824	Services	0	25,448 KB	
svchost.exe	956	Services	0	29,936 KB	
fontdrvhost.exe	976	Services	0	1,592 KB	
svchost.exe	492	Services	0	14,866 KB	
svchost.exe	540	Services	0	6,228 KB	
svchost.exe	844	Services	0	10,488 KB	
svchost.exe	1064	Services	0	5,984 KB	
svchost.exe	1156	Services	0	2,936 KB	
svchost.exe	1308	Services	0	11,168 KB	
svchost.exe	1384	Services	0	10,604 KB	
svchost.exe	1460	Services	0	8,816 KB	
svchost.exe	1484	Services	0	114,136 KB	
svchost.exe	1500	Services	0	2,364 KB	
Memory Compression	1572	Services	0	216,100 KB	
svchost.exe	1624	Services	0	2,724 KB	
svchost.exe	1632	Services	0	12,772 KB	
svchost.exe	1648	Services	0	5,500 KB	
svchost.exe	1656	Services	0	4,744 KB	
svchost.exe	1680	Services	0	3,448 KB	
svchost.exe	1928	Services	0	6,212 KB	
svchost.exe	1948	Services	0	3,468 KB	
svchost.exe	1980	Services	0	5,288 KB	
igfxUIService.exe	2008	Services	0	4,600 KB	
svchost.exe	2044	Services	0	4,956 KB	
svchost.exe	1748	Services	0	3,348 KB	
svchost.exe	1120	Services	0	4,088 KB	
svchost.exe	2064	Services	0	7,852 KB	
svchost.exe	2088	Services	0	6,356 KB	
svchost.exe	2176	Services	0	3,356 KB	
svchost.exe	2256	Services	0	8,492 KB	
svchost.exe	2328	Services	0	4,296 KB	
svchost.exe	2380	Services	0	7,128 KB	
svchost.exe	2484	Services	0	5,180 KB	
svchost.exe	2540	Services	0	11,016 KB	
svchost.exe	2620	Services	0	6,768 KB	
svchost.exe	2628	Services	0	3,028 KB	
svchost.exe	2656	Services	0	5,036 KB	
svchost.exe	2664	Services	0	21,176 KB	
svchost.exe	2760	Services	0	9,024 KB	
svchost.exe	2832	Services	0	4,256 KB	
spoolsv.exe	2952	Services	0	11,512 KB	
svchost.exe	2976	Services	0	12,172 KB	
svchost.exe	2264	Services	0	2,194 KB	
svchost.exe	2424	Services	0	26,556 KB	
svchost.exe	2156	Services	0	16,744 KB	
svchost.exe	2568	Services	0	11,740 KB	

Administrator: Símbolo del sistema					
Seleccionar Administrador: Símbolo del sistema					
svchost.exe	2424	Services	0	26,556 KB	
svchost.exe	2156	Services	0	16,744 KB	
svchost.exe	2568	Services	0	11,740 KB	
svchost.exe	2780	Services	0	37,148 KB	
svchost.exe	3032	Services	0	3,220 KB	
OfficeClickToRun.exe	2444	Services	0	36,232 KB	
svchost.exe	1256	Services	0	5,916 KB	
mysqld.exe	3076	Services	0	3,632 KB	
svchost.exe	3116	Services	0	2,148 KB	
sqlwriter.exe	3132	Services	0	2,448 KB	
svchost.exe	3156	Services	0	3,624 KB	
svchost.exe	3216	Services	0	2,036 KB	
svchost.exe	3240	Services	0	15,056 KB	
svchost.exe	3328	Services	0	6,444 KB	
dashHost.exe	3392	Services	0	11,128 KB	
svchost.exe	3440	Services	0	1,896 KB	
svchost.exe	3532	Services	0	10,284 KB	
mysqld.exe	3744	Services	0	15,968 KB	
conhost.exe	3780	Services	0	2,636 KB	
svchost.exe	3820	Services	0	3,888 KB	
svchost.exe	4164	Services	0	4,564 KB	
l1kHost.exe	4600	Services	0	7,696 KB	
svchost.exe	4700	Services	0	2,022 KB	
svchost.exe	4772	Services	0	5,776 KB	
SearchIndexer.exe	4928	Services	0	38,872 KB	
svchost.exe	908	Services	0	4,396 KB	
AggregatorHost.exe	5136	Services	0	7,424 KB	
svchost.exe	5488	Services	0	17,592 KB	
svchost.exe	5624	Services	0	3,872 KB	
svchost.exe	5688	Services	0	14,580 KB	
printfilterpipelinesvc.exe	8056	Services	0	2,464 KB	
svchost.exe	7468	Services	0	6,492 KB	
svchost.exe	4264	Services	0	14,624 KB	
svchost.exe	2968	Services	0	7,532 KB	
sqlservr.exe	3984	Services	0	71,620 KB	
salceip.exe	576	Services	0	21,936 KB	
svchost.exe	5964	Services	0	13,524 KB	
svchost.exe	4032	Services	0	2,988 KB	
svchost.exe	1212	Services	0	5,772 KB	
SecurityHealthService.exe	7072	Services	0	7,244 KB	
svchost.exe	1252	Services	0	11,888 KB	
svchost.exe	8640	Services	0	3,268 KB	
svchost.exe	4516	Services	0	4,112 KB	
svchost.exe	9964	Services	0	5,400 KB	
svchost.exe	4888	Services	0	18,164 KB	
svchost.exe	9928	Services	0	4,304 KB	
svchost.exe	10340	Services	0	8,332 KB	
MsUsbCoreWorker.exe	12248	Services	0	23,988 KB	
csrss.exe	11008	Console	0	6,080 KB	
winlogon.exe	964	Console	0	11,140 KB	
Fondrvhost.exe	8926	Console	0	11,098 KB	
dum.exe	3816	Console	0	71,716 KB	
svchost.exe	6036	Services	0	14,788 KB	
svchost.exe	6252	Services	0	6,136 KB	
svchost.exe	2040	Services	0	8,812 KB	
sihost.exe	9788	Console	0	32,236 KB	
svchost.exe	12836	Console	0	26,252 KB	
svchost.exe	10284	Console	0	48,776 KB	
taskhostw.exe	7204	Console	0	19,864 KB	
igfxEM.exe	12900	Console	6	13,512 KB	

Tasklist - 2

Seleccionar Administrador: Simbolo del sistema		
svchost.exe	10200	Console
taskhostw.exe	7204	Console
igfxM.exe	12900	Console
igfxHK.exe	7372	Console
igfxXray.exe	11112	Console
ctfmon.exe	14160	Console
explorer.exe	1376	Console
svchost.exe	12972	Console
StartMenuExperienceHost.e	10264	Console
RuntimeBroker.exe	8408	Console
SearchApp.exe	7328	Console
RuntimeBroker.exe	12036	Console
RuntimeBroker.exe	12236	Console
svchost.exe	5848	Console
ShellExperienceHost.exe	9620	Console
RuntimeBroker.exe	2016	Console
SystemSettingsBroker.exe	3656	Console
svchost.exe	10028	Console
firefox.exe	6768	Console
crashhelper.exe	10224	Console
firefox.exe	5096	Console
firefox.exe	3536	Console
CompDgKey.exe	4992	Console
Firefox.exe	2552	Console
Firefox.exe	4488	Console
Firefox.exe	1132	Console
Firefox.exe	13468	Console
TextInputHost.exe	9656	Console
Firefox.exe	4960	Console
Firefox.exe	11368	Console
PhoneExperienceHost.exe	12796	Console
UserOBBroker.exe	8248	Console
OneDrive.Sync.Service.exe	10652	Console
taskhostw.exe	13752	Console
MpDefenderCoreService.exe	13764	Services
MsMpEng.exe	9432	Services
NisSrv.exe	8480	Services
svchost.exe	12148	Services
ApplicationFrameHost.exe	6620	Console
SystemSettings.exe	9648	Console
firefox.exe	3472	Console
Firefox.exe	9556	Console
firefox.exe	14812	Console
audiogd.exe	12428	Services
dllhost.exe	12356	Console
powershell.exe	11488	Console
comhost.exe	6096	Console
svchost.exe	3488	Services
firefox.exe	6552	Console
dllhost.exe	9980	Console
notepad.exe	7702	Console
firefox.exe	11648	Console
svchost.exe	14656	Services
firefox.exe	11564	Console
Firefox.exe	7504	Console
POWERPNT.EXE	7148	Console
ai.exe	8008	Console
firefox.exe	840	Console
backgroundTaskHost.exe	8844	Console
RuntimeBroker.exe	2116	Console

Seleccionar Administrador: Simbolo del sistema		
Firefox.exe	11648	Console
svchost.exe	14656	Services
Firefox.exe	11564	Console
POWERPNT.EXE	7504	Console
ai.exe	7148	Console
firefox.exe	8008	Console
backgroundTaskHost.exe	8844	Console
RuntimeBroker.exe	2116	Console

CSRSS

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "csrss"
Handles  NPM(K)      PM(K)      WS(K)      CPU(s)      Id  SI ProcessName
-----  -----      -----      -----      -----  --  --  -----
        763      24      2340      3380      5.44      552  0  csrss
        526      20      2492      6692     18.84    11088  6  csrss

PS C:\Windows\system32>
```

svchost

Handles	NPM(K)	PW(K)	WS(K)	CPU(s)	Id	SI	ProcessName
1457	19	12464	15368	89.58	492	0	svchost
415	12	3344	6216	4.98	540	0	svchost
560	21	5488	18492	4.23	844	0	svchost
214	11	2460	4624	0.14	904	0	svchost
1942	25	20884	30112	95.19	956	0	svchost
232	13	2588	6600	0.53	1064	0	svchost
243	11	2580	4488	1.64	1120	0	svchost
142	9	1672	2836	0.05	1156	0	svchost
234	13	3184	5820	0.45	1212	0	svchost
355	17	4680	12288	1.45	1252	0	svchost
208	12	2372	5924	0.89	1256	0	svchost
420	18	7316	11320	11.86	1308	0	svchost
267	14	3576	19544	40.59	1384	0	svchost
423	11	3340	8892	8.75	1460	0	svchost
251	16	98708	99928	825.19	1484	0	svchost
203	8	1364	2364	0.31	1580	0	svchost
179	7	1936	2764	0.77	1624	0	svchost
433	14	16748	12792	5.41	1632	0	svchost
608	10	2840	5576	3.19	1644	0	svchost
197	10	2300	4868	0.33	1656	0	svchost
180	9	1764	3440	0.14	1684	0	svchost
195	9	1884	3348	0.23	1748	0	svchost
199	13	2328	7892	0.23	1928	0	svchost
134	8	1636	3696	0.09	1940	0	svchost
156	26	5072	5652	1.84	1980	0	svchost
214	11	2228	9528	0.85	2048	0	svchost
220	11	2032	4956	0.02	2044	0	svchost
191	11	3848	8848	9.44	2064	0	svchost
240	12	2648	6600	0.11	2088	0	svchost
377	16	8024	16424	14.50	2156	0	svchost
186	11	2876	3456	0.17	2160	0	svchost
458	17	5912	6648	4.69	2256	0	svchost
114	8	1244	2104	0.02	2264	0	svchost
220	15	2392	4560	0.03	2328	0	svchost
599	16	5800	8004	6.73	2380	0	svchost
613	29	29568	26572	37.82	2424	0	svchost
163	10	2084	5276	1.29	2484	0	svchost
495	14	3660	11352	2.36	2544	0	svchost
281	26	4112	11648	2.69	2568	0	svchost
322	16	5372	7188	23.28	2620	0	svchost
147	11	1948	3172	0.14	2628	0	svchost
387	15	3128	5776	1.00	2636	0	svchost
182	11	14728	20152	68.67	2664	0	svchost
296	21	2844	9868	0.39	2760	0	svchost
357	20	35980	28524	33.38	2780	0	svchost
205	11	2584	4316	103.39	2832	0	svchost
222	12	3116	7552	26.14	2964	0	svchost
443	33	14764	18212	13.69	2976	0	svchost
162	8	1736	3328	0.33	3032	0	svchost
144	9	1576	2140	0.03	3116	0	svchost
194	10	2140	3988	0.36	3156	0	svchost
136	7	1344	2036	0.02	3216	0	svchost
417	20	5208	16288	7.77	3240	0	svchost
260	18	2684	4324	2.34	3284	0	svchost
388	21	3308	7384	0.92	3324	0	svchost
163	10	3680	11988	0.17	3408	0	svchost

fontdrvhost

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "fontdrvhost"
Handles  NPM(K)      PM(K)      WS(K)      CPU(s)      Id  SI ProcessName
-----  -----      -----      -----      -----  --  --  -----
          50          6        1688       1588      0.09    976  0 fontdrvhost
          50         12        6736      11520      0.89   8036  6 fontdrvhost

PS C:\Windows\system32>
```

mysqld

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "mysqld"
Handles  NPM(K)    PM(K)      WS(K)      CPU(s)      Id  SI ProcessName
-----  -----    -----      -----      -----  --  --  -----
        129       12     33784      3628      0.03   3076  0 mysqld
      503      391    650188     15960      4.47   3744  0 mysqld

PS C:\Windows\system32>
```

conhost

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "conhost"
Handles  NPM(K)      PM(K)      WS(K)      CPU(s)      Id  SI ProcessName
-----  -----      -----      -----      -----  --  --  -----
        133          9       6532       2632      0.30    3780  0  conhost
        238         14       5836      18188      7.53   6632  6  conhost
        236         14       7808      20628      3.48   7112  6  conhost

PS C:\Windows\system32>
```

dllhost

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "dllhost"

Handles  NPM(K)      PM(K)      WS(K)      CPU(s)      Id  SI ProcessName
-----  -----      -----      -----      -----      --  --  -----
        214          18       4160       8216      0.13     4600    0  dllhost
        230          13       2744      13924      0.17     9080    6  dllhost
        265          23       5736      14400      0.25    12356    6  dllhost

PS C:\Windows\system32>
```

taskhostw

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "taskhostw"
Handles  NPM(K)   PM(K)      WS(K)      CPU(s)      Id  SI ProcessName
----  -----  -----  -----  -----  --  --  -----
        145      10     1888      9780      0.09  2020  6 taskhostw
        306      42    10668     21232      1.39  7204  6 taskhostw
        376      22     7912     21412      0.53  13752 6 taskhostw

PS C:\Windows\system32>
```

Memory Compression

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "Memory Compression"
Handles  NPM(K)      PM(K)      WS(K)      CPU(s)      Id  SI ProcessName
-----  -----      -----      -----      -----  --  --  -----
          0          0      1336    424656    195.92  1572  0 Memory Compression

PS C:\Windows\system32>
```

RuntimeBroker

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "RuntimeBroker"

Handles  NPM(K)    PM(K)      WS(K)      CPU(s)      Id  SI ProcessName
-----  -----    -----      -----      -----  --  --  -----
        383     18      4768      24532      0.64    2016   6 RuntimeBroker
        367     19      6884      27852      0.66    7900   6 RuntimeBroker
        321     19      6748      29568      4.36    8408   6 RuntimeBroker
        753     35     14340      46588      4.75   12036   6 RuntimeBroker
        442     22      7128      29352      5.72   12236   6 RuntimeBroker
        246     13      3072      19564      0.08   13704   6 RuntimeBroker
        152     10      2268      13776      0.03   13780   6 RuntimeBroker

PS C:\Windows\system32>
```

firefox

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "firefox"
Handles  NPM(K)   PM(K)    WS(K)   CPU(s)   Id  SI ProcessName
-----  -----   -----   -----   -----   --  --  -----
      306     29    58132    96352   26.02  1132  6 firefox
      304     28    34168   22292   83.08  2552  6 firefox
      702     480   1438028  1223568  1,098.72 3096  6 firefox
      381     88    451540   301148  1,268.30 3472  6 firefox
      237     18     8252    18300   685.69  3636  6 firefox
      256     14     7660    15644   0.44   4060  6 firefox
      280     18     14196   31208   0.05   4084  6 firefox
      290     23     39488   45980   2.45   4488  6 firefox
      310     160   842484   831860  1,203.94 6552  6 firefox
      2090    168   440460   430020   917.67  6708  6 firefox
      291     19     15688   39228   0.70   7484  6 firefox
      280     18     14132   31148   0.14   9304  6 firefox
      324     20     23668   41444   25.81  9556  6 firefox
      351     16     7604    20008   0.31  11360  6 firefox
      292     19     18208   32268   3.00  11564  6 firefox
      280     18     14096   31176   0.11  12228  6 firefox
      193     12     24280   15796   3.03  13468  6 firefox
      330     55    174820  154004  112.31 14012  6 firefox
      293     22     35132   54480   1.19  14284  6 firefox

PS C:\Windows\system32>
```

Laboratorio 2

- **Analizar:** Get-Process -Name "Code" | Where-Object { \$_.WorkingSet -gt 200MB }
- **Paso 1:** Ejecutar en el cmd tasklist y elejir un proceso.
- **Paso 2:** Ejecutar en PowerShell Get-Process -Name "nombre-proceso (sin el .exe)" | Where-Object { \$_.WorkingSet -gt valor-numerico-unidad-almacenamiento }
- **Ejemplo:** Get-Process -Name "firefox" | Where-Object { \$_.WorkingSet -gt 50MB }
- **Instrucción final:** Hacer este ejercicio con todos los procesos listados en el comando tasklist.

svchost

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "svchost" | Where-Object { $_.WorkingSet -gt 50MB }
Handles  NPM(K)      PM(K)      WS(K)      CPU(s)      Id  SI ProcessName
-----  -----      -----      -----      -----  --  --  -----
        254       16      107992     108624    877.00   1484   0  svchost

PS C:\Windows\system32>
```

firefox

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "firefox" | Where-Object { $_.WorkingSet -gt 50MB }
Handles  NPM(K)    PM(K)      WS(K)      CPU(s)      Id  SI ProcessName
-----  -----    -----      -----      -----  --  --  -----
      310      29    60884     94160     26.13    1132   6 firefox
      702     480   1438068    798368    1,101.14   3096   6 firefox
      381      89    459252    304532    1,294.92   3472   6 firefox
      306     159    824268    812420    1,235.23   6552   6 firefox
     2128     169   439620    393824    926.05   6708   6 firefox
      326      55   174804   154008    112.39  14012   6 firefox
      293      22    35132     54052      1.19  14284   6 firefox

PS C:\Windows\system32>
```

Memory Compression

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "Memory Compression" | Where-Object { $_.WorkingSet -gt 50MB }
Handles  NPM(K)      PM(K)      WS(K)      CPU(s)      Id  SI ProcessName
-----  -----      -----      -----      -----  --  --  -----
          0          0      1348    547012    192.42  1572  0 Memory Compression

PS C:\Windows\system32>
```

Laboratorio 3

- **Analizar:** Get-Process -Name "Code" | Where-Object { \$_.WorkingSet -gt 200MB } | Select-Object Id, ProcessName
- **Paso 1:** Ejecutar en el cmd tasklist y elejir un proceso.
- **Paso 2:** Ejecutar en PowerShell Get-Process -Name "nombre-proceso (sin el .exe)" | Where-Object { \$_.WorkingSet -gt valor-numerico-unidad-almacenamiento } | Select-Object variables
- **Ejemplo:** Get-Process -Name "firefox" | Where-Object { \$_.WorkingSet -gt 50MB } | Select-Object Id, ProcessName
- **Instrucción final:** Hacer este ejercicio con todos los procesos listados en el comando tasklist.

svchost

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "svchost" | Where-Object { $_.WorkingSet -gt 50MB } | Select-Object Id, ProcessName
   Id ProcessName
   -- -----
1484 svchost

PS C:\Windows\system32>
```

firefox

```
Administrator: Windows PowerShell
PS C:\Windows\system32> Get-Process -Name "firefox" | Where-Object { $_.WorkingSet -gt 50MB } | Select-Object Id, ProcessName
   Id ProcessName
   -- -----
1132 firefox
3096 firefox
3472 firefox
6708 firefox

PS C:\Windows\system32>
```

Memory Compression

Seleccionar Administrador: Windows PowerShell

```
PS C:\Windows\system32> Get-Process -Name "Memory Compression" | Where-Object { $_.WorkingSet -gt 50MB } | Select-Object Id, ProcessName
Id ProcessName
-- -----
1572 Memory Compression

PS C:\Windows\system32>
```