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Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\andre> hostname
ANDREW
PS C:\Users\andre> env
env : The term 'env' is not recognized as the name of a cmdlet, function, script file, or operable program. Check the
spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ env
+ ~~~~
+ CategoryInfo          : ObjectNotFound: (env:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\andre> ps

Handles      NPM(K)      PM(K)      WS(K)      CPU(s)      Id      SI ProcessName
-----
150          10       2224      10056           10144      0 AggregatorHost
148           9       2328       7912           3320      0 amdfeendr
413          24      12648      35628         0.09  16992      1 ApplicationFrameHost
327          16       3920      15268           2784      1 atieclxx
202           9       1604       6996           3328      0 atiesrxx
190          10       1976       9160           8416      0 AUEPDU
754          18       2884       4404        43.94     4476      1 AUEPMaster
193          10       7048      10440         0.13    18632      1 bash
360          23      95188     130832         0.69      144      1 chrome
399          36     191992     210300         4.83     4044      1 chrome
```

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Windows PowerShell
180      170      2004      7680      18152      0 svchost
5948      0      68      6532      4      0 System
271      18      3076      18944      0.03      18236      1 SystemPropertiesAdvanced
1525      77      179500      226096      1.73      3756      1 SystemSettings
370      18      40784      19928      1.97      12836      1 TaskbarX
329      46      10028      22080      0.09      4340      1 taskhostw
1003      40      27924      71380      0.80      14372      1 TextInputHost
155      11      2300      10008      0.00      10624      1 UserOOBEBroker
200      12      2148      11236      0.03      14708      1 vgtray
553      37      20748      1868      0.03      18064      1 Video.UI
223      17      2892      14488      0.48      868      1 wallpaper32
824      35      11220      53732      1.56      6684      1 Widgets
325      18      4480      22128      0.34      11344      1 WidgetService
666      37      29156      68964      0.06      19212      1 WindowsTerminal
142      11      1472      7392      1056      0 wininit
273      12      2468      12788      1236      1 winlogon
166      9      1580      8512      7212      0 wlanext
185      12      4012      11308      17340      0 WmiPrvSE
296      11      1980      8972      3256      0 WUDFHost
282      13      2216      9620      3468      0 WUDFHost

PS C:\Users\andre> pwd

Path
----
C:\Users\andre

PS C:\Users\andre> |
```

```
PS C:\Users\andre> cd downloads
PS C:\Users\andre\downloads> git clone https://github.com/kevinwlu/iot.git
Cloning into 'iot'...
remote: Enumerating objects: 23294, done.
remote: Counting objects: 100% (4343/4343), done.
remote: Compressing objects: 100% (1347/1347), done.
remote: Total 23294 (delta 2468), reused 4167 (delta 2362), pack-reused 18951
Receiving objects: 100% (23294/23294), 28.89 MiB | 19.49 MiB/s, done.
Resolving deltas: 100% (15167/15167), done.
PS C:\Users\andre\downloads> |
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Resolving deltas: 100% (15167/15167), done.  
PS C:\Users\andre\downloads> cd iot  
PS C:\Users\andre\downloads\iot> ls
```

Directory: C:\Users\andre\downloads\iot

Mode	LastWriteTime	Length	Name
d-----	5/6/2024 12:21 AM		apps
d-----	5/6/2024 12:21 AM		cases
d-----	5/6/2024 12:21 AM		economics
d-----	5/6/2024 12:21 AM		health
d-----	5/6/2024 12:21 AM		hype
d-----	5/6/2024 12:21 AM		lesson1
d-----	5/6/2024 12:21 AM		lesson10
d-----	5/6/2024 12:21 AM		lesson2
d-----	5/6/2024 12:21 AM		lesson3
d-----	5/6/2024 12:21 AM		lesson4
d-----	5/6/2024 12:21 AM		lesson5
d-----	5/6/2024 12:21 AM		lesson6
d-----	5/6/2024 12:21 AM		lesson7
d-----	5/6/2024 12:21 AM		lesson8
d-----	5/6/2024 12:21 AM		lesson9
d-----	5/6/2024 12:21 AM		make
d-----	5/6/2024 12:21 AM		projects
d-----	5/6/2024 12:21 AM		special_problems
d-----	5/6/2024 12:21 AM		standards

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Windows PowerShell
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\andre\downloads\iot> mkdir demo

Directory: C:\Users\andre\downloads\iot

Mode                LastWriteTime         Length Name
----                -
d-----         5/6/2024 12:22 AM              demo

PS C:\Users\andre\downloads\iot> cd demo
PS C:\Users\andre\downloads\iot\demo> nano file
nano : The term 'nano' is not recognized as the name of a cmdlet, function, script file, or operable program. Check
the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ nano file
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (nano:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\andre\downloads\iot\demo> cat file
cat : Cannot find path 'C:\Users\andre\downloads\iot\demo\file' because it does not exist.
At line:1 char:1
+ cat file
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (C:\Users\andre\downloads\iot\demo\file:String) [Get-Content], ItemNotFo
undException
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```
Windows PowerShell
PS C:\Users\andre\downloads\iot\demo> man uname
Get-Help : Get-Help could not find uname in a help file in this session. To download updated help topics type:
"Update-Help". To get help online, search for the help topic in the TechNet library at
s:/go.microsoft.com/fwlink/?LinkID=107116.
55 char:5
lp @PSBoundParameters | more
+ ~~~~~
+ CategoryInfo          : ResourceUnavailable: (:) [Get-Help], HelpNotFoundException
+ FullyQualifiedErrorId : HelpNotFound,Microsoft.PowerShell.Commands.GetHelpCommand

PS C:\Users\andre\downloads\iot\demo> uname -a
uname : The term 'uname' is not recognized as the name of a cmdlet, function, script file, or operable program. Check
the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ uname -a
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (uname:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\andre\downloads\iot\demo> ifconfig
ifconfig : The term 'ifconfig' is not recognized as the name of a cmdlet, function, script file, or operable program.
Check the spelling of the name, or if a path was included, verify that the path is correct and try again.
At line:1 char:1
+ ifconfig
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (ifconfig:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

PS C:\Users\andre\downloads\iot\demo> ping localhost

Pinging ANDREW [::1] with 32 bytes of data:
Reply from ::1: time<1ms
Reply from ::1: time<1ms
Reply from ::1: time<1ms
Reply from ::1: time<1ms

Ping statistics for ::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\Users\andre\downloads\iot\demo> |
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Ping statistics for ::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\Users\andre\downloads\iot\demo> netstat
```

Active Connections

Proto	Local Address	Foreign Address	State
TCP	127.0.0.1:49753	ANDREW:49767	ESTABLISHED
TCP	127.0.0.1:49754	ANDREW:49766	ESTABLISHED
TCP	127.0.0.1:49766	ANDREW:49754	ESTABLISHED
TCP	127.0.0.1:49767	ANDREW:49753	ESTABLISHED
TCP	127.0.0.1:50304	ANDREW:50305	ESTABLISHED
TCP	127.0.0.1:50305	ANDREW:50304	ESTABLISHED
TCP	127.0.0.1:50306	ANDREW:50307	ESTABLISHED
TCP	127.0.0.1:50307	ANDREW:50306	ESTABLISHED
TCP	127.0.0.1:50337	ANDREW:50338	ESTABLISHED
TCP	127.0.0.1:50338	ANDREW:50337	ESTABLISHED
TCP	127.0.0.1:50339	ANDREW:50340	ESTABLISHED
TCP	127.0.0.1:50340	ANDREW:50339	ESTABLISHED
TCP	127.0.0.1:50341	ANDREW:50342	ESTABLISHED
TCP	127.0.0.1:50342	ANDREW:50341	ESTABLISHED
TCP	127.0.0.1:50343	ANDREW:50344	ESTABLISHED
TCP	127.0.0.1:50344	ANDREW:50343	ESTABLISHED
TCP	127.0.0.1:50345	ANDREW:50346	ESTABLISHED
TCP	127.0.0.1:50346	ANDREW:50345	ESTABLISHED
TCP	127.0.0.1:50347	ANDREW:50348	ESTABLISHED
TCP	127.0.0.1:50348	ANDREW:50347	ESTABLISHED
TCP	127.0.0.1:50349	ANDREW:50350	ESTABLISHED
TCP	127.0.0.1:50350	ANDREW:50349	ESTABLISHED
TCP	127.0.0.1:50351	ANDREW:50352	ESTABLISHED
TCP	127.0.0.1:50352	ANDREW:50351	ESTABLISHED

For this lab we had to run a series of command line prompts to become familiar with their outputs, the images above display their outputs.