1. Display a list of running processes.

Ans. Get-Process

PS C:\> Get-Process								
Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName	
434	25	12632	30408	1.36	12616	2	ApplicationFrameHost	
146	9	1894	920	0.09	4812	9	armsvc	
656	55	71976	58996	39.06	2284	2	atmgr	
247	14	13544	20364	0.63	6028	0	audiodg	

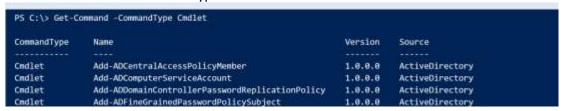
2. Display the 100 most recent entries from the Application event log. (Don't use Get-WinEvent for this. We've shown you another command that will do this task.) This is for Windows operating systems only.

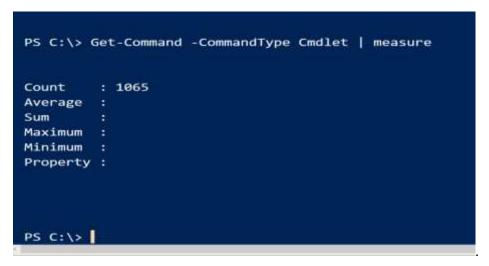
Ans. Get-EventLog -LogName Application -Newest 100



3. Display a list of all commands that are of the cmdlet type. (This is tricky—we've shown you Get-Command, but you're going to have to read the help to find out how to narrow down the list as we've asked.)

Ans. Get-Command -CommandType Cmdlet





4. Display a list of all aliases.

Ans. Get-Command -CommandType Alias

CommandType	Name	Version	Source
Alias	% -> ForEach-Object		
Alias	? -> Where-Object		
Allas	ac -> Add-Content		
Alias	Add-AppPackage	2.0.1.0	Appx
Alias	Add-AppPackageVolume	2.0.1.0	Аррх
Alias	Add-AppProvisionedPackage	3.0	Dism
Alias	Add-ProvisionedAppPackage	3.0	Dism
Alias	Add-ProvisionedAppxPackage	3.0	Dism
Alias	Add-ProvisioningPackage	3.0	Provisioning
Alias	Add-TrustedProvisioningCertificate	3.0	Provisioning
Alias	Add-VMToCluster	2.0.0.0	FailoverClusters
Alias	Add-WindowsFeature	2.0.0.0	ServerManager

5. Make a new alias, so you can run np to launch Notepad from a PowerShell prompt. This is for Windows only unless you've installed wine on Linux.

Ans. New-Alias -Name np notepad.exe

```
PS C:\> New-Alias -Name np notepad.exe

PS C:\> np

PS C:\>

Limited - Notepad
File Edit Format View Help
```

6. Display a list of services that begin with the letter M. Again, read the help for the necessary command—and don't forget that the asterisk (*) is a near-universal wildcard in PowerShell. Note that this will work only on Windows operating systems.

Ans. Get-Command -Noun *service

PS C:\> Get-C	ommand -Noun *service		
CommandType	Name	Version	Source
Function	Get-SMServerService	1.0.0.0	ServerManagerTasks
Cmdlet	Get-Service	3.1.0.0	Microsoft.PowerShell
Cmdlet	New-Service	3.1.0.0	Microsoft.PowerShell
Cmdlet	Restart-Service	3.1.0.0	Microsoft.PowerShell
Cmdlet	Resume-Service	3.1.0.0	Microsoft.PowerShell.
Cmdlet	Set-Service	3.1.0.0	Microsoft.PowerShell.

7. Display a list of all Windows Firewall rules. You'll need to use Help or Get -Command to discover the necessary cmdlet. Again, this will work only on Windows operating systems.

Ans. Get-NetFirewallRule

PS C:\> Get-NetFirewallRule

8. Display a list only of inbound Windows Firewall rules. You can use the same cmdlet as in the previous task, but you'll need to read its help to discover the necessary parameter and its allowable values. Once more, Windows operating systems only for this one.

Ans. Get-NetFirewallRule -Direction Inbound

PS C:\> Get-NetFirewallRule -Direction Inbound

Name : SNMPTRAP-In-UDP

DisplayName : SNMP Trap Service (UDP In)

Description : Inbound rule for the SNMP Trap Service to allow SN

DisplayGroup : SNMP Trap