

Windows PowerShell Scripting Tutorial for Beginners



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Automate it. Now, where's that script...

Warning: PowerShell is addictive.

Meet PowerShell Tutorial

Windows PowerShell is an object-oriented automation engine and scripting language with an interactive command-line shell designed to help IT professionals configure systems and automate administrative tasks. You can find it in every modern Windows OS starting with Windows 2008R2. Learning Windows PowerShell is like learning to use a universal multi-tool. In this post, I cover PowerShell scripting basics so you can more easily perform virtually any administration task related to your Windows IT environment.

So let's start learning PowerShell.

PowerShell offers both a command-line option and an integrated scripting environment (ISE):

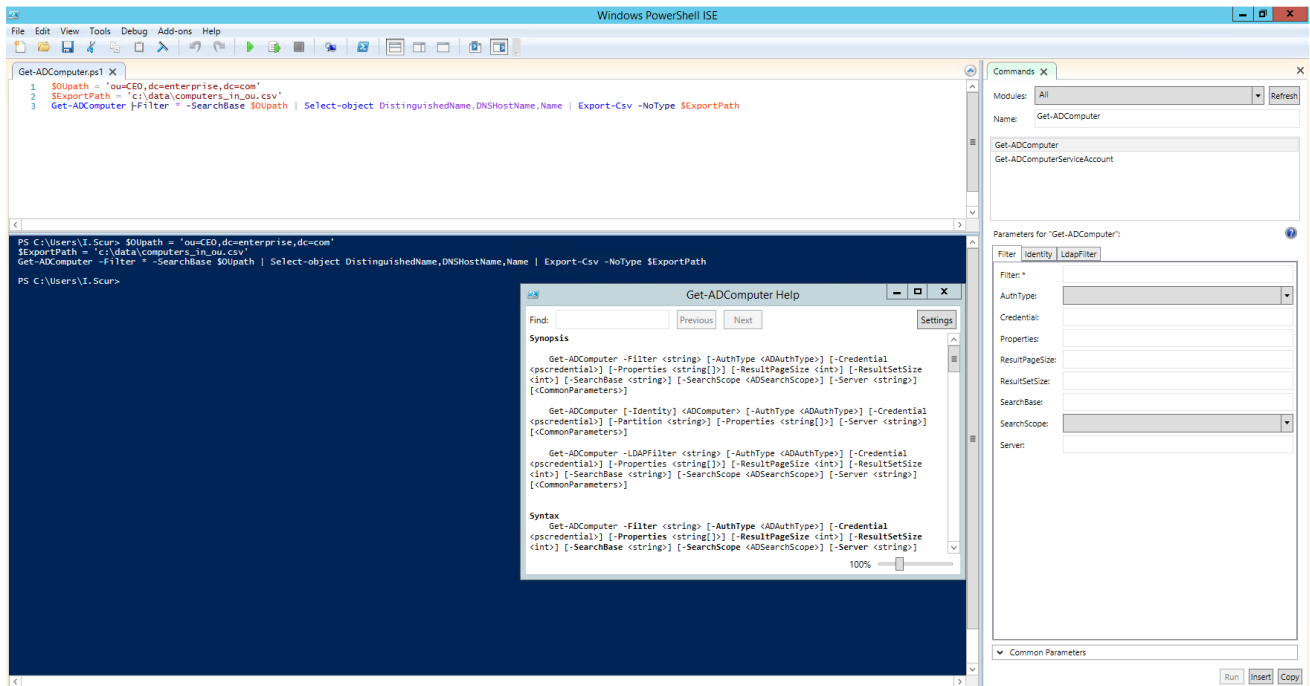
- To launch the PowerShell command line, type *powershell.exe* in the Windows Start menu. You'll see a screen like the following:

A screenshot of a Windows PowerShell command prompt window. The title bar is light blue and says "Windows PowerShell". The window has standard Windows window controls (minimize, maximize, close) on the right. The background is dark blue. The text inside is white. It shows "Windows PowerShell" and "Copyright (C) 2014 Microsoft Corporation. All rights reserved." followed by a prompt "PS C:\Users\I.Skur>".

```
Windows PowerShell
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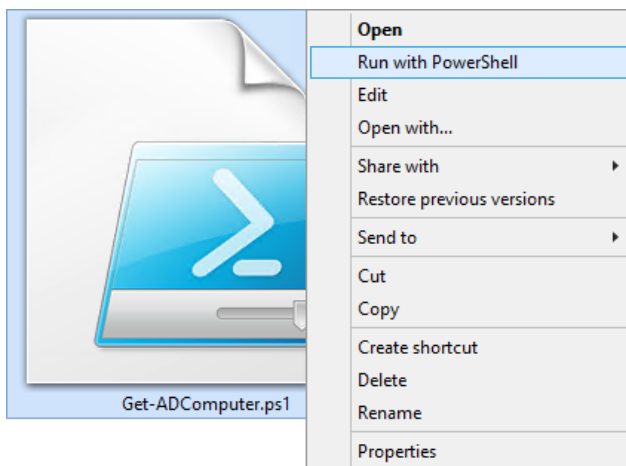
PS C:\Users\I.Skur>
```

- To launch the PowerShell ISE, type *powershell_ise.exe* in the Start menu. Using the PowerShell ISE is the preferred way to work with the scripting language, because it provides syntax highlighting, auto-filling of commands and other automation features that simplify script development and testing.

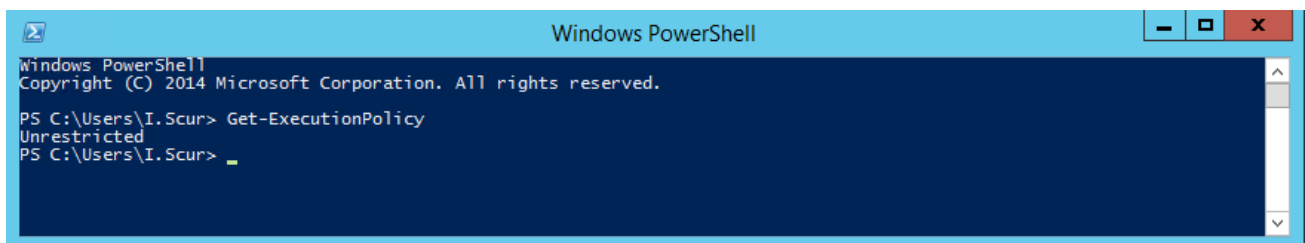


Preparing to Run PowerShell Scripts

PowerShell scripts are stored in .ps1 files. By design, you cannot run a script by simply double-clicking a file; this helps avoid accidental harm to your systems. Instead, to execute a script, right-click it and click "Run with PowerShell":



In addition, there is policy that restricts script execution. You can check this policy by running the `Get-ExecutionPolicy` command in PowerShell:



You will get one of the following values:

- **Restricted**— No scripts are allowed. This is the default setting, so you will see it the first time you run the command.
- **AllSigned**— You can run scripts signed by a trusted developer. With this setting in place, before executing, a script will ask you to confirm that you want to run it.
- **RemoteSigned**— You can run your own scripts or scripts signed by a trusted developer.

- **Unrestricted**— You can run any script you want.

To start working with PowerShell, you'll need to change the policy setting from Restricted to RemoteSigned using the Set-ExecutionPolicy RemoteSigned command:

```
PS C:\Users\I.Scur> Set-ExecutionPolicy RemoteSigned

Execution Policy Change
The execution policy helps protect you from scripts that you do not trust. Changing the execution policy might expose
you to the security risks described in the about_Execution_Policies help topic at
http://go.microsoft.com/fwlink/?LinkID=135170. Do you want to change the execution policy?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y
```

PowerShell Cmdlets

About Cmdlets

A cmdlet is a PowerShell command with a predefined function, similar to an operator in a programming language. Here are some key things to know about cmdlets:

- There are system, user and custom cmdlets.
- Cmdlets output results as an object or as an array of objects.
- Cmdlets can get data for analysis or transfer data to another cmdlet using pipes (I'll discuss pipes more in a moment).
- Cmdlets are case-insensitive. For example, it doesn't matter whether you type "Get-ADUser", "get-aduser" or "gEt-AdUsEr".
- If you want to use several cmdlets in one string, you must separate them with a semicolon (;).

Cmdlet Format

A cmdlet always consists of a verb (or a word that functions as a verb) and a noun, separated with a hyphen (the "verb-noun" rule). For example, some of the verbs include:

- **Get** — To get something
- **Set** — To define something
- **Start** — To run something
- **Stop** — To stop something that is running
- **Out** — To output something
- **New** — To create something ("new" is not a verb, of course, but it functions as one)

For practice, try executing the following cmdlets:

- Get-Process — Shows the processes currently running on your computer:

```
PS C:\Users\I.Scur> Get-Process
```

Handles	NPM(K)	PM(K)	WS(K)	VM(M)	CPU(s)	Id	ProcessName
865	59	79260	75612	662		2620	ALService
206	33	38272	71784	219	1,602.80	8768	AuditIntelligence
367	55	59460	109840	347	329.28	8808	AuditIntelligence
48	5	712	3076	30		2004	conhost
49	5	704	3108	30		2388	conhost
516	15	2396	4488	52		348	csrss
94	8	1184	3480	43		424	csrss
234	12	1800	40952	82		3164	csrss
198	13	3376	10812	49		4900	dllhost
181	14	14908	25212	91		724	dwm
201	21	12996	69268	158		8728	dwm
1457	89	84340	144068	577	42.38	8428	explorer

- Get-Service — Shows the list of services with their status
- Get-Content — Shows the content of the file you specify (for example, Get-Content C:\Windows\System32\drivers\etc\hosts)

Available Cmdlets

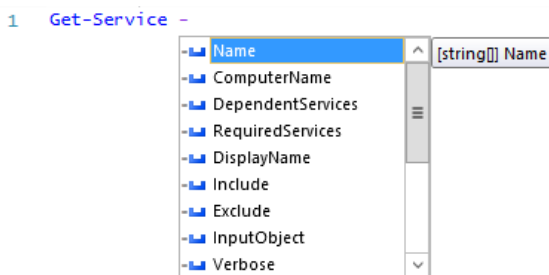
Good news — you don't need to memorize all cmdlets. You can list all cmdlets by executing the Get-Help -Category cmdlet, which will return the following:

Get-Command	Cmdlet	Microsoft.PowerShell.Core ...
Export-ModuleMember	Cmdlet	Microsoft.PowerShell.Core ...
Get-Module	Cmdlet	Microsoft.PowerShell.Core ...
Import-Module	Cmdlet	Microsoft.PowerShell.Core ...
New-Module	Cmdlet	Microsoft.PowerShell.Core ...
New-ModuleManifest	Cmdlet	Microsoft.PowerShell.Core ...
Remove-Module	Cmdlet	Microsoft.PowerShell.Core ...
Test-ModuleManifest	Cmdlet	Microsoft.PowerShell.Core ...
Get-Help	Cmdlet	Microsoft.PowerShell.Core ...
Update-Help	Cmdlet	Microsoft.PowerShell.Core ...
Save-Help	Cmdlet	Microsoft.PowerShell.Core ...
Get-History	Cmdlet	Microsoft.PowerShell.Core ...
Invoke-History	Cmdlet	Microsoft.PowerShell.Core ...
Add-History	Cmdlet	Microsoft.PowerShell.Core ...
Clear-History	Cmdlet	Microsoft.PowerShell.Core ...
Register-PSSessionConfiguration	Cmdlet	Microsoft.PowerShell.Core ...
Unregister-PSSessionConfiguration	Cmdlet	Microsoft.PowerShell.Core ...
Get-PSSessionConfiguration	Cmdlet	Microsoft.PowerShell.Core ...
Set-PSSessionConfiguration	Cmdlet	Microsoft.PowerShell.Core ...
Enable-PSSessionConfiguration	Cmdlet	Microsoft.PowerShell.Core ...
Disable-PSSessionConfiguration	Cmdlet	Microsoft.PowerShell.Core ...
Enable-PSRemoting	Cmdlet	Microsoft.PowerShell.Core ...
Disable-PSRemoting	Cmdlet	Microsoft.PowerShell.Core ...
Invoke-Command	Cmdlet	Microsoft.PowerShell.Core ...
New-PSSession	Cmdlet	Microsoft.PowerShell.Core ...
Disconnect-PSSession	Cmdlet	Microsoft.PowerShell.Core ...
Connect-PSSession	Cmdlet	Microsoft.PowerShell.Core ...
Receive-PSSession	Cmdlet	Microsoft.PowerShell.Core ...
Get-PSSession	Cmdlet	Microsoft.PowerShell.Core ...
Remove-PSSession	Cmdlet	Microsoft.PowerShell.Core ...
Start-Job	Cmdlet	Microsoft.PowerShell.Core ...
Get-Job	Cmdlet	Microsoft.PowerShell.Core ...
Receive-Job	Cmdlet	Microsoft.PowerShell.Core ...
Stop-Job	Cmdlet	Microsoft.PowerShell.Core ...
Wait-Job	Cmdlet	Microsoft.PowerShell.Core ...
Remove-Job	Cmdlet	Microsoft.PowerShell.Core ...
Suspend-Job	Cmdlet	Microsoft.PowerShell.Core ...
Resume-Job	Cmdlet	Microsoft.PowerShell.Core ...
Enter-PSSession	Cmdlet	Microsoft.PowerShell.Core ...
Exit-PSSession	Cmdlet	Microsoft.PowerShell.Core ...

You can also create your own custom cmdlets.

Parameters

Each cmdlet has several parameters that customize what it does. The PowerShell ISE will automatically suggest all valid parameters and their types after you type a cmdlet and a hyphen (-):



For example, the following cmdlet shows all services whose names start with "W":

```
Get-Service -Name W*
```

If you forget a cmdlet's parameters, just use a script like the following, which will display the parameters for the `Get-Process` cmdlet:

```
Get-Process | Get-Member
```

```

1 Get-Process | Get-Member
2 # | sign is a pipe, allowing you to pass data from one cmdlet to another

```

```

PS C:\Users\I.Scur> Get-Process | Get-Member

TypeName: System.Diagnostics.Process

Name      MemberType Definition
-----
Handles   AliasProperty Handles = Handlecount
Name       AliasProperty Name = ProcessName
NPM        AliasProperty NPM = NonpagedSystemMemorySize
PM         AliasProperty PM = PagedMemorySize
VM         AliasProperty VM = VirtualMemorySize
WS         AliasProperty WS = WorkingSet
Disposed   Event System.EventHandler Disposed(System.Object, System.EventArgs)
ErrorDataReceived Event System.Diagnostics.DataReceivedEventHandler ErrorDataReceived(System.Object, System.EventArgs)
Exited     Event System.EventHandler Exited(System.Object, System.EventArgs)
OutputDataReceived Event System.Diagnostics.DataReceivedEventHandler OutputDataReceived(System.Object, System.EventArgs)
BeginErrorReadLine Method void BeginErrorReadLine()
BeginOutputReadLine Method void BeginOutputReadLine()
CancelErrorRead Method void CancelErrorRead()
CancelOutputRead Method void CancelOutputRead()
Close      Method void Close()
CloseMainWindow Method bool CloseMainWindow()
CreateObjRef Method System.Runtime.Remoting.ObjRef CreateObjRef(type requestedType)
Dispose    Method void Dispose(), void IDisposable.Dispose()
Equals     Method bool Equals(System.Object obj)
GetHashCode Method int GetHashCode()
GetLifetimeService Method System.Object GetLifetimeService()
GetType    Method type GetType()
InitializeLifetimeService Method System.Object InitializeLifetimeService()
Kill       Method void Kill()
Refresh    Method void Refresh()
Start      Method bool Start()
ToString   Method string ToString()
WaitForExit Method bool WaitForExit(int milliseconds), void WaitForExit()
WaitForInputIdle Method bool WaitForInputIdle(int milliseconds), bool WaitForInputIdle()
__NounName NoteProperty System.String __NounName=Process
BasePriority Property int BasePriority {get;}
Container  Property System.ComponentModel.IContainer Container {get;}
EnableRaisingEvents Property bool EnableRaisingEvents {get;set;}
ExitCode   Property int ExitCode {get;}
ExitTime   Property datetime ExitTime {get;}
Handle     Property System.IntPtr Handle {get;}
HandleCount Property int HandleCount {get;}
HasExited  Property bool HasExited {get;}

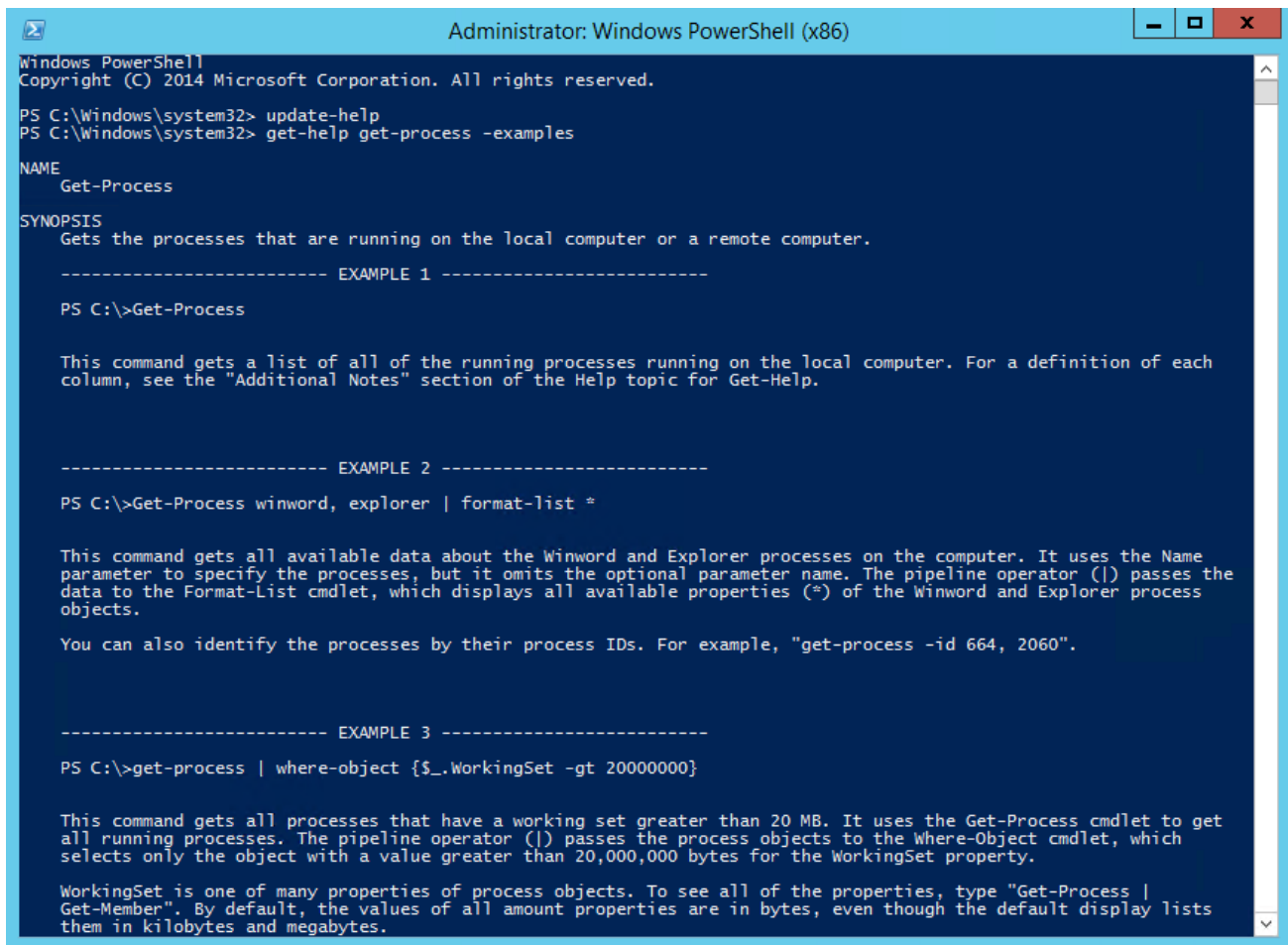
```

If you still don't find the cmdlet you need, you can make sure the help is current and then get examples for a cmdlet (such as Get-Process) using a script like this:

```

Update-Help #to update the help data
Get-Help Get-Process -Examples

```



```

Administrator: Windows PowerShell (x86)
Windows PowerShell
Copyright (C) 2014 Microsoft Corporation. All rights reserved.

PS C:\windows\system32> update-help
PS C:\windows\system32> get-help get-process -examples

NAME
    Get-Process

SYNOPSIS
    Gets the processes that are running on the local computer or a remote computer.

    ----- EXAMPLE 1 -----

    PS C:\>Get-Process

    This command gets a list of all of the running processes running on the local computer. For a definition of each
    column, see the "Additional Notes" section of the Help topic for Get-Help.

    ----- EXAMPLE 2 -----

    PS C:\>Get-Process winword, explorer | format-list *

    This command gets all available data about the Winword and Explorer processes on the computer. It uses the Name
    parameter to specify the processes, but it omits the optional parameter name. The pipeline operator (|) passes the
    data to the Format-List cmdlet, which displays all available properties (*) of the Winword and Explorer process
    objects.

    You can also identify the processes by their process IDs. For example, "get-process -id 664, 2060".

    ----- EXAMPLE 3 -----

    PS C:\>get-process | where-object {$_.WorkingSet -gt 20000000}

    This command gets all processes that have a working set greater than 20 MB. It uses the Get-Process cmdlet to get
    all running processes. The pipeline operator (|) passes the process objects to the Where-Object cmdlet, which
    selects only the object with a value greater than 20,000,000 bytes for the WorkingSet property.

    WorkingSet is one of many properties of process objects. To see all of the properties, type "Get-Process |
    Get-Member". By default, the values of all amount properties are in bytes, even though the default display lists
    them in kilobytes and megabytes.
  
```

Aliases

You can also use aliases, which are shortened cmdlet names. For instance, instead of "Get-Help" you can use just "Help". Try running the following two commands and see whether you get the same result:

- Start-Process notepad
- start notepad

Similarly, to stop this process, you can use either of the following commands:

- Stop-Process -Name notepad
- spps -Name notepad

To see all aliases, execute the Get-Alias cmdlet.

Comments

Leaving comments in a script will help you — and your colleagues — better understand what the script does. A string comment is a single line that starts with a number sign (#), and block comments start and end with number signs and angle brackets and spread across multiple lines.

The screenshot shows the Windows PowerShell ISE interface. The top pane displays a script in a file named 'Untitled1.ps1'. The script contains the following code:

```

1 # that is a string comment
2
3 #Get OS version
4 Get-WmiObject -Class Win32_OperatingSystem | SELECT Caption
5
6 <#
7 and that is
8     a block
9     comment
10 #>

```

The bottom pane shows the output of the script execution. It displays the comments and the result of the command:

```

PS C:\Users\I.Scur> # that is a string comment

#Get OS version
Get-WmiObject -Class Win32_OperatingSystem | SELECT Caption

<#
and that is
    a block
    comment

#>

Caption
-----
Microsoft Windows Server 2012 R2 Standard

```

Pipes

A pipe passes data from one cmdlet to another. I used a pipe earlier to get all properties of an object.

For example, if you execute the following script, you'll get all services sorted by their status:

```
Get-Service | Sort-Object -property Status
```

You can also use a pipe to output text to a file using a script like the following:

```
"Hello, World!" | Out-File C:\ps\test.txt
```

You can use multiple pipes. For instance, the following script lists all services, with the first pipe excluding stopped services and the second pipe limiting the list to display names only:

```
Get-Service | WHERE {$_.status -eq "Running"} | SELECT displayname
# "$_" defines current element in the pipe
```

Summary

Let's quickly summarize the key points of this Windows PowerShell tutorial. Now you know how to run PowerShell, how to change execution policy, what a cmdlet is, how to pass data using pipe and how to get object properties. Keep in mind that if you forget something, you can always use the Get-Help cmdlet.

I hope you found this PowerShell for beginners useful!

In the next parts of this free PowerShell tutorial, I'll cover variables, arrays and cycles, which are used in PowerShell scripting to simplify the administration of Windows Servers.

In the meantime, you might want to check out the following PowerShell scripts used by IT professionals to address specific cases:

1. How to Export Members of a Particular AD Group
(https://www.netwrix.com/how_to_export_members_from_active_directory.html)
2. How to Get Local Group Membership Reports (https://www.netwrix.com/how_to_get_local_group_membership_report.html)
3. How to Export Folder Permissions to Excel or CSV File (https://www.netwrix.com/how_to_export_folder_permissions.html)
4. How to Export Group Policy Settings in Minutes (https://www.netwrix.com/how_to_report_on_gpo_security_settings.html)
5. How to Detect Every Active Directory User's Last Logon Date (https://www.netwrix.com/how_to_determine_last_logon_date.html)
6. How to Get Server Inventory across Your Network (https://www.netwrix.com/how_to_collect_server_inventory.html)
7. How to Get AD User Group Membership Reports (https://www.netwrix.com/how_to_get_ad_user_group_membership.html)
8. How to Export Active Directory Objects to CSV (https://www.netwrix.com/how_to_export_active_directory_objects_to_csv.html)
9. How to Detect Who Installed What Software on Your Windows Server
(https://www.netwrix.com/how_to_detect_software_installations.html)
10. How to List All User Accounts on a Windows System
(https://www.netwrix.com/how_to_list_all_user_accounts_on_a_windows_system.html)
11. How to Find Inactive Computers in Active Directory
(https://www.netwrix.com/how_to_find_inactive_computers_active_directory_powershell.html?itm_source=blog&itm_medium=context&itm_campaign=powershell&itm_content=none&cID=70170000000kgEZ)
12. How Find Disabled or Inactive Users in AD (https://www.netwrix.com/how_to_get_disabled_users.html?itm_source=blog&itm_medium=context&itm_campaign=powershell&itm_content=none&cID=70170000000kgEZ)
13. Advanced Event Log Filtering Using PowerShell (<https://blog.netwrix.com/2015/04/29/advanced-event-log-filtering-using-powershell/>)
14. How to Get a List of Expired User Accounts in AD (https://www.netwrix.com/how_to_find_expired_accounts.html?itm_source=blog&itm_medium=context&itm_campaign=powershell&itm_content=none&cID=70170000000kgEZ)
15. How to Get a List of AD Users Whose Passwords Never Expire (<https://blog.netwrix.com/2017/07/20/how-to-get-a-list-of-ad-users-whose-passwords-never-expire-using-powershell/>)
16. How to Collect AD Site Information Using PowerShell (<https://blog.netwrix.com/2017/07/20/how-to-collect-ad-site-information-using-powershell/>)
17. How to Find Locked Out User Accounts in Active Directory
(https://www.netwrix.com/how_to_find_locked_accounts_powershell.html?itm_source=blog&itm_medium=context&itm_campaign=powershell&itm_content=none&cID=70170000000kgEZ)
18. How to Create AD Users in Bulk and Email Their Credentials (<https://blog.netwrix.com/2017/03/30/create-ad-users-in-bulk-and-email-their-credentials-using-powershell/>)
19. How to Disable Inactive User Accounts (<https://blog.netwrix.com/2015/03/17/how-to-disable-inactive-user-accounts-using-powershell/>)
20. Ransomware Protection Using FSRM and PowerShell (<https://blog.netwrix.com/2016/04/11/ransomware-protection-using-fsrm-and-powershell/>)

And if you are just getting started with PowerShell, I recommend the following resources:

- PowerShell documentation (<https://docs.microsoft.com/en-us/powershell/>)
- "Hey, Scripting Guy!" blog (<https://blogs.technet.microsoft.com/heyscriptingguy/>)

If you want to get all the chapters at once, we've got you covered – the PowerShell series has been combined into one PDF document available for free download:

eBook

Windows PowerShell Scripting Tutorial for Beginners

Free Download

([https://www.netwrix.com/powershell_tutorial_pdf.html?](https://www.netwrix.com/powershell_tutorial_pdf.html?itm_source=blog&itm_medium=banner&itm_campaign=powershell&itm_content=lower-banner&clD=70170000000kgEZ)

[itm_source=blog&itm_medium=banner&itm_campaign=powershell&itm_content=lower-banner&clD=70170000000kgEZ](https://www.netwrix.com/powershell_tutorial_pdf.html?itm_source=blog&itm_medium=banner&itm_campaign=powershell&itm_content=lower-banner&clD=70170000000kgEZ))

Cmdlet (<https://blog.netwrix.com/tag/cmdlet/>)

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Kan Moharana • 2 months ago

Hi Netwrix team

Thanks lot for the infos. Very useful for my job.

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Russell Abrogena • 3 months ago

This is very useful & I really like it...Thanks

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You're welcome, Russell!

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Pavitra Golchha • 5 months ago

this is so easier to understand! Thanks!

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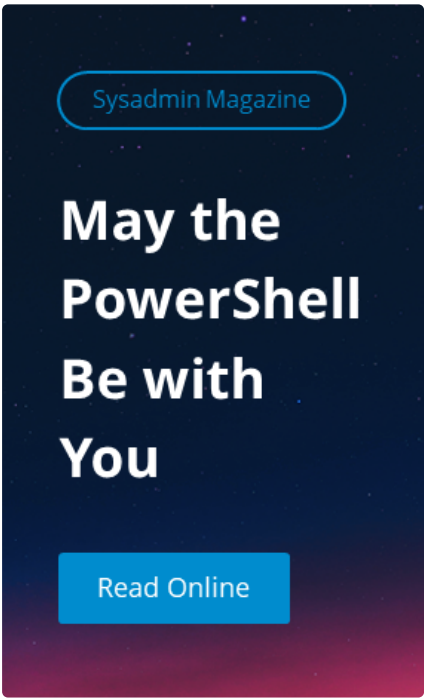
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- Account Lockout Examiner (https://www.netwrix.com/account_lockout_examiner.html?itm_source=blog&itm_medium=footer&itm_campaign=none&itm_content=none&clID=70170000000kgEZ)
- Top 7 Free Tools (https://www.netwrix.com/top_7_freeware_tools.html?itm_source=blog&itm_medium=footer&itm_campaign=none&itm_content=none&clID=70170000000kgEZ)

Audited Systems

Compliance

- Active Directory (https://www.netwrix.com/ActiveDirectory.html?itm_source=blog&itm_medium=footer&itm_campaign=none&itm_content=none&clID=70170000000kgEZ)
- Azure AD (https://www.netwrix.com/azure_AD.html?itm_source=blog&itm_medium=footer&itm_campaign=none&itm_content=none&clID=70170000000kgEZ)
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- SOX Compliance (https://www.netwrix.com/SOX_Compliance.html?itm_source=blog&itm_medium=footer&itm_campaign=none&itm_content=none&clID=70170000000kgEZ)

Windows File Servers (https://www.netwrix.com/FISMA_Compliance.html?itm_source=blog&itm_medium=footer&itm_campaign=blog&itm_client=footer&itm_cld=70170000000kgEZ)

EMC (https://www.netwrix.com/emc_storage_compliance.html?itm_source=blog&itm_medium=footer&itm_campaign=blog&itm_client=footer&itm_cld=70170000000kgEZ)

NetApp (https://www.netwrix.com/netapp_compliance.html?itm_source=blog&itm_medium=footer&itm_campaign=blog&itm_client=footer&itm_cld=70170000000kgEZ)

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SQL Server (https://www.netwrix.com/GDPR_Compliance.html?itm_source=blog&itm_medium=footer&itm_campaign=blog&itm_client=footer&itm_cld=70170000000kgEZ)

Oracle Database (https://www.netwrix.com/CIS_Compliance.html?itm_source=blog&itm_medium=footer&itm_campaign=blog&itm_client=footer&itm_cld=70170000000kgEZ)

VMware (https://www.netwrix.com/vmware_auditing_reporting.html?itm_source=blog&itm_medium=footer&itm_campaign=blog&itm_client=footer&itm_cld=70170000000kgEZ)

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Customer Portal (https://www.netwrix.com/newsroom.html?itm_source=blog&itm_medium=footer&itm_campaign=blog&itm_client=footer&itm_cld=70170000000kgEZ)

Renew Maintenance (https://www.netwrix.com/support.html?itm_source=blog&itm_medium=footer&itm_campaign=blog&itm_client=footer&itm_cld=70170000000kgEZ#renewform)

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