chmod function for PowerShell

Asked 7 years, 5 months ago   Active 7 years, 5 months ago   Viewed 22k times

---

▲

10

▼

I was looking around to understand how to chmod (change permissions of a file) a file on Windows 7
Power Shell. So I have found different (wired for me, because I am used to simple chmod command)
code snippets and wondering would't it be simple to wrap that wired commands in a chmod function
and write it on in a $profile file of Power Shell. I guess this is what many ex-linux shell, but now
power shell users would like to have for changing permissions of a file.

★   I am new to Power Shell. Please help me with the code.

⟲

| shell | powershell | windows-7 | chmod |

edited Sep 13 '12 at 6:27   asked Sep 13 '12 at 6:11

                                              Narek
                                              32.3k   63   184   333

Have you tried `Get-Help Set-ACL -full` ? chrisfederico.wordpress.com/2008/02/01/... – CB. Sep 13 '12 at
9:50 ✎

2 Answers

▲

6

▼

✓

⟲

Here is an example with the native way, using ACL and ACE. You have to build your own functions
arround that.

```
# Get the Access Control List from the file
# Be careful $acl is more a security descriptor with more information than ACL
$acl = Get-Acl "c:\temp\test.txt"


# Show here how to refer to useful enumerate values (see MSDN)
$Right = [System.Security.AccessControl.FileSystemRights]::FullControl
$Control = [System.Security.AccessControl.AccessControlType]::Allow

# Build the Access Control Entry ACE
# Be careful you need to replace "everybody" by the user or group you want to add rights
```

```
# Add ACE to ACL
$acl.AddAccessRule($ace)

# Put ACL to the file
Set-Acl "c:\temp\test.txt" $acl
(Get-Acl "c:\temp\test.txt").access
Read-Host "--------- Test Here --------------"

# Remove ACE from ACL
$acl.RemoveAccessRule($ace)
Set-Acl "c:\temp\test.txt" $acl
(Get-Acl "c:\temp\test.txt").access
```

answered Sep 14 '12 at 5:04

JPBlanc
57.1k   12   109   141

> If you want to remove inheritance ($true) and not copy existing ACLs ($false) you can do so by running `$Acl.SetAccessRuleProtection($true,$false)` before `$acl.AddAccessRule($ace)` — Florian Feldhaus Jun 11 '18 at 21:04

2

Look at the following:

- `Set-Acl` - Run `Get-Help Set-Acl -Full`
- `attrib.exe` - Standard Windows tool for setting file attributes. Not Powershell-specific, but of course still works in Powershell.
- `icacls.exe` - Standard Windows tool for setting ACLs. Not Powershell-specific, but of course still works in Powershell.

Source: http://www.cs.wright.edu/~pmateti/Courses/233/Labs/Scripting/bashVsPowerShellTable.html
Just do a web search for `chmod powershell` .

answered Sep 13 '12 at 14:11

latkin
14.9k   1   35   56