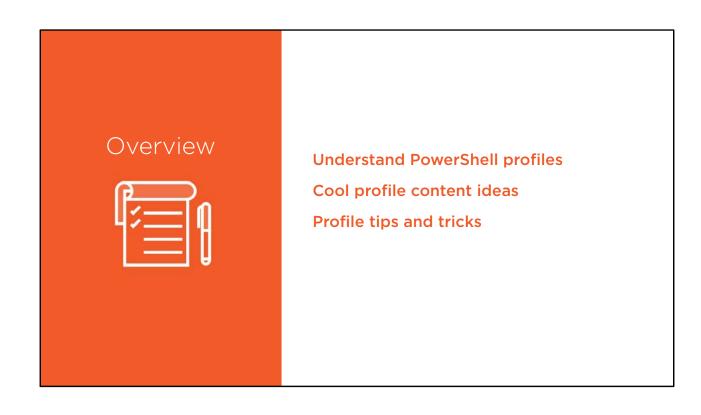
Taking Control of PowerShell Profile Scripts

POWERSHELL SATURDAY CHATTANOOGA 2018







Session Materials



timw.info/pro

Understand PowerShell Profiles

PowerShell Profile

A script that runs when PowerShell starts. You can use the profile as a logon script to customize the session environment.

The PowerShell Desktop Profiles 2. Select Administrator: Windows PowerShell PS C:\> \$profile | Get-Member -Type NoteProperty | Select-Object -Property Name, Definition | Format-List Name : AllUsersAllHosts Definition : string AllUsersAllHosts=C:\Windows\System32\WindowsPowerShell\v1.0\profile.ps1 Name : AllUsersCurrentHost Definition : string AllUsersCurrentHost=C:\Windows\System32\WindowsPowerShell\v1.0\microsoft.PowerShell_profile.ps1 Name : CurrentUserAllHosts Definition : string CurrentUserAllHosts=C:\Users\Tim\Documents\WindowsPowerShell\profile.ps1 Name : CurrentUserCurrentHost Definition : string CurrentUserCurrentHost-C:\Users\Tim\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1

Create a Profile

```
if (!(Test-Path -Path $profile.CurrentUserAllHosts))
    {New-Item -ItemType File -Path $profile -Force}
```

Check your script execution policy!

Start a PowerShell Session

powershell.exe "Start-Process powershell -ArgumentList '-ExecutionPolicy Bypass -NoProfile' -Verb RunAs"
Current User, All Hosts

This recipe is PowerShell launching PowerShell ©

Check your script execution policy!



Cool Profile Content Ideas

Customize the Console

```
$a = (Get-Host).UI.RawUI
$a.BackgroundColor = 'DarkBlue'
$a.ForegroundColor = 'Yellow'
Clear-Host
$a.WindowTitle = "PowerShell Desktop " + (Get-Host).Version
```

Customize the Console

```
$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\}$$}}\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\tex
```

Default PowerShell Prompt

```
(Get-Command -Name Prompt).ScriptBlock
"PS
$($executionContext.SessionState.Path.CurrentLocation)$('>'
* ($nestedPromptLevel + 1)) ";
```

Customize the Prompt

```
function prompt {
    $identity = [Security.Principal.WindowsIdentity]::GetCurrent()
    $principal = [Security.Principal.WindowsPrincipal] $identity
    $(if (test-path variable:/PSDebugContext) { '[DBG]: ' }
($principal.IsInRole([Security.Principal.WindowsBuiltInRole]"Administrator")) {
"[ADMIN]: " }
        else { '' }
    ) + 'PS ' + $(Get-Location) +
    $(if ($nestedpromptlevel -ge 1) { '>>' }) + '> '
```

Get System Uptime function Get-Uptime { \$os = Get-WmiObject win32_operatingsystem \$uptime = (Get-Date) (\$os.ConvertToDateTime(\$os.lastbootuptime)) \$Display = "Uptime: " + \$Uptime.Days + " days, " + \$Uptime.Hours + " hours, " + \$Uptime.Minutes + " minutes" Write-Output \$Display } Clear-Host Get-Uptime

Auto Login to Azure

Connect-AzureRmAccount -Subscription 'Microsoft Azure
Sponsorship' -Credential (BetterCredentials\Get-Credential username 'tim@timw.info')

PowerShell Profile Tips and Tricks

- By default, your profile won't load in remote sessions
- Loads the "Current user, current host" profile from the local computer in the remote session
- ◆ Loads the "Current user, current host" profile from the remote computer in the session

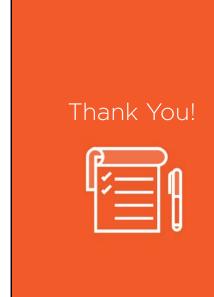
Pulling a Centralized Profile

\$ScriptFromGitHub = Invoke-WebRequest -Uri
https://raw.githubusercontent.com/tomarbuthnot/Run-PowerShellDirectly-From-GitHub/master/Run-FromGitHub-SamplePowerShell.ps1

Add-Content -Path \$profile -Value \$(\$ScriptFromGitHub.Content)

For authenticated Gists

Install-Module -Name PSGist -Repository PSGallery -Verbose
Get-Command -Module PSGist



Tim Warner

Materials: timw.info/pro

Twitter: @TechTrainerTim

Web: pluralsight.com

Email: timothy-warner@pluralsight.com