

# Powershell Core

```
PS C:\> Get-Presenter
```

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# About\_Agenda

- Why PSv6?
- PowerShell 6.x vs. PowerShell 5.1
- Installing PSv6
- Changes worth mentioning
- Existing Modules compatibility
- Remoting over SSH
- The future

# About\_why\_PSCore

- 'cause .NET core
- Open Source
- Cross Platform (Mac also)
- Object-oriented shell for Linux admins - It Gives them options.
- Windows admins can leverage what they already Learned, on Linux with PowerShell Core 6.
- PowerShell 5.1 is "finished"

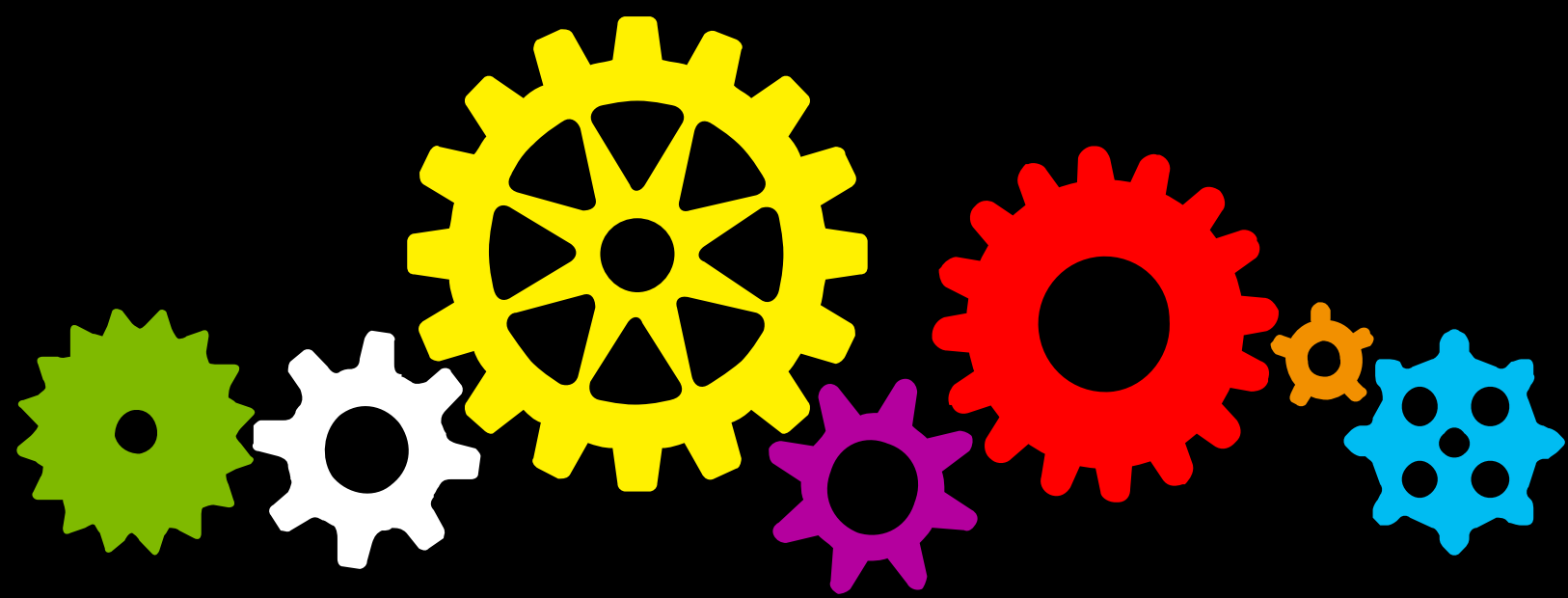
# About\_Editions\_Difference

- PowerShell.exe / pwsh.exe



- \$PSHome
- \$env:PSModulePath
- \$PSVersion.PSEdition # Desktop / Core

# About\_Demo



# About\_Installation\_Ubuntu

From: <https://github.com/PowerShell/PowerShell>

# Import the public repository GPG keys

```
curl https://packages.microsoft.com/keys/microsoft.asc | sudo apt-key add -
```

# Register the Microsoft Ubuntu repository

```
curl https://packages.microsoft.com/config/ubuntu/17.04/prod.list |  
sudo tee /etc/apt/sources.list.d/microsoft.list
```

# Update the list of products

```
sudo apt-get update
```

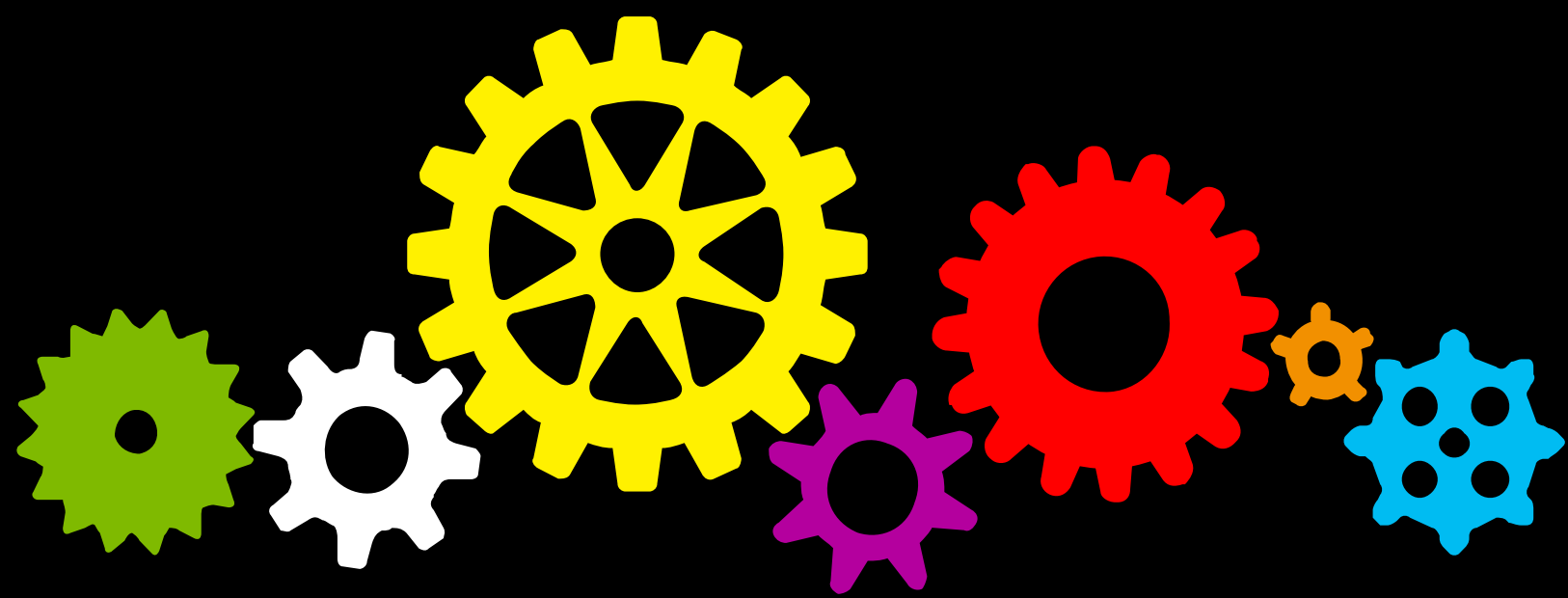
# Install PowerShell

```
sudo apt-get install -y powershell
```

# Start PowerShell

```
pwsh
```

# About\_Demo



# About\_Changes\_worth\_Mentioning

- & at the end of a pipeline to run as a PowerShell job
- Range operator for characters ('a'..'z')
- -NoTypeInfoInformation is on by default on Export-CSV
- Installation is standalone – can run multiple versions separate of each other.



# About\_Changes\_worth\_Mentioning

- No support for PowerShell snap-ins (VMware PowerCLI, Exchange)
- No support for WMI (but includes CIM cmdlets)
- No support for ActiveDirectory cmdlets (yet)
- No support for WPF and Windows Forms
- No support for workflows
- No PowerShell ISE (you should be using VSCode anyway)

# About\_Backwards\_Compatibility

- Planned: windows PowerShell Compatibility pack
  - Adding more .Net classes
  - Adding windows PSModulePath
  - Adding WMI
  - Adding Eventlog cmdlets
  - Adding \*Counter cmdlets
- Existing windows PowerShell modules might just work

# About\_Backwards\_Compatibility

- Add Windows PowerShell module path to PowerShell Core module path

```
Install-Module WindowsPSModulePath -Force
```

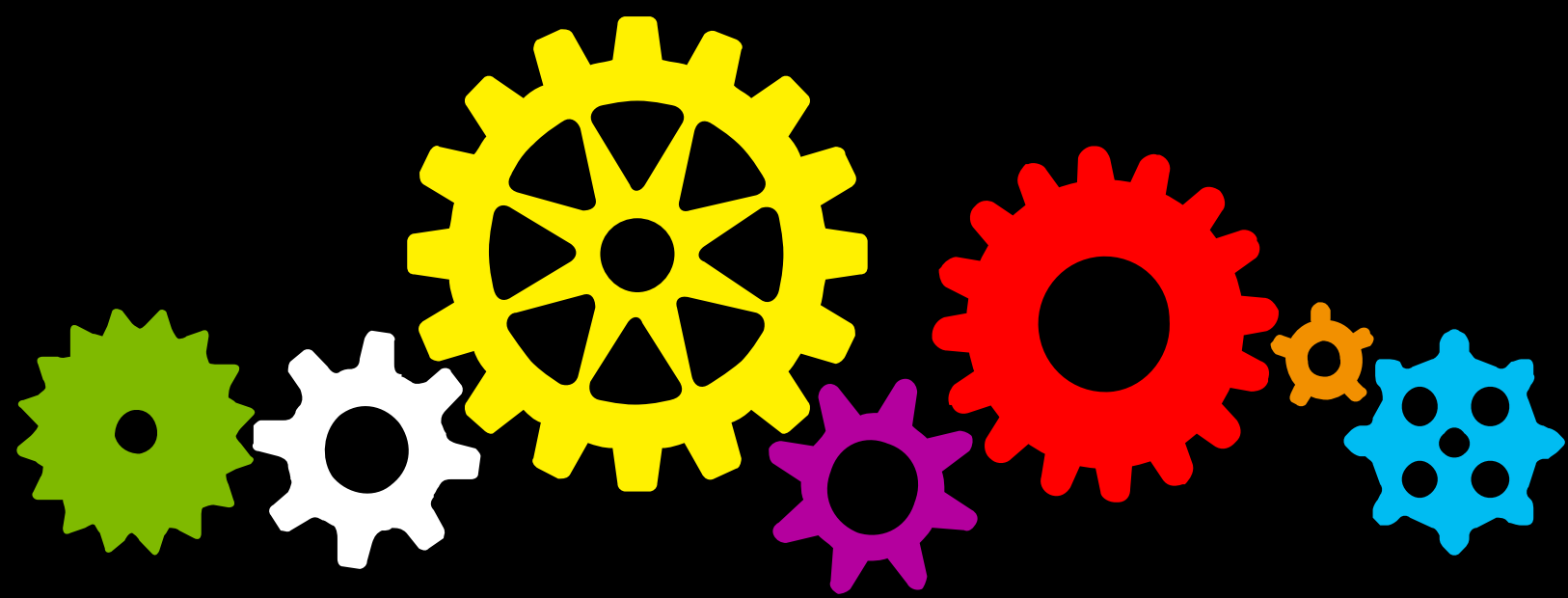
- Add this line to your profile if you always want Windows PowerShell PSModulePath

```
Add-WindowsPSModulePath
```

# About\_PSRemoting\_over\_SSH

- PowerShell remoting over SSH (built in to \*-PSSession cmdlets)
- Using the -HostName parameter
- SSH server service should be configured on the remote machine.
- ssh.exe should exist on the client machine

# About\_Demo



# About\_PSv6\_Future

- New service cycle
- Roadmap
- Open Issues
- Modules for PowerShell Core in PSGallery
  - Search Tag: [PSEdition\\_Core](#)

# About\_PSv6\_Resources

- PowerShell core Changelog

<https://github.com/PowerShell/PowerShell/blob/master/CHANGELOG.md>

- Breaking Changes for PowerShell 6.0

<https://github.com/PowerShell/PowerShell/blob/master/docs/BREAKINGCHANGES.md>

- Home repository for .NET Core

<https://github.com/dotnet/core>



