Azure PowerShell Overview

In this tutorial I'm going to show how to:

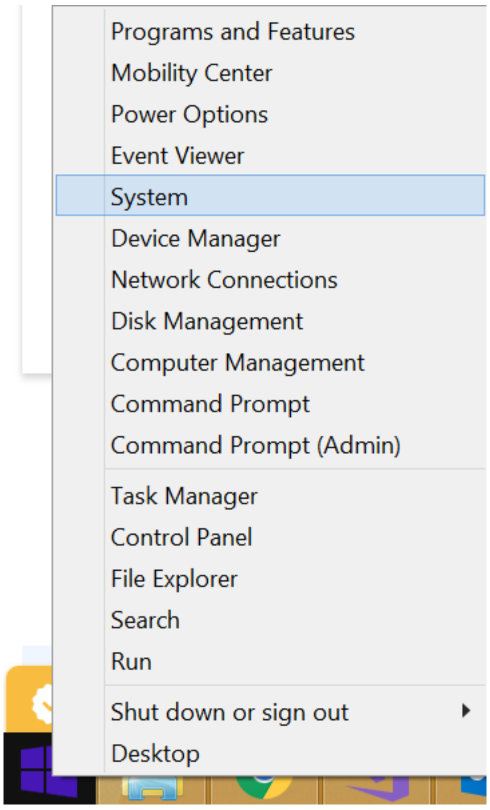
- Find out which PowerShell version is available on Local Machine
- Install/Upgrade PowerShell on Local Machine
- PowerShell Scripts
- PowerShell ISE
- Cloud Shell

Patrick Sameera Jayalath

Step 01: Find out which PowerShell version is available on Local Machine

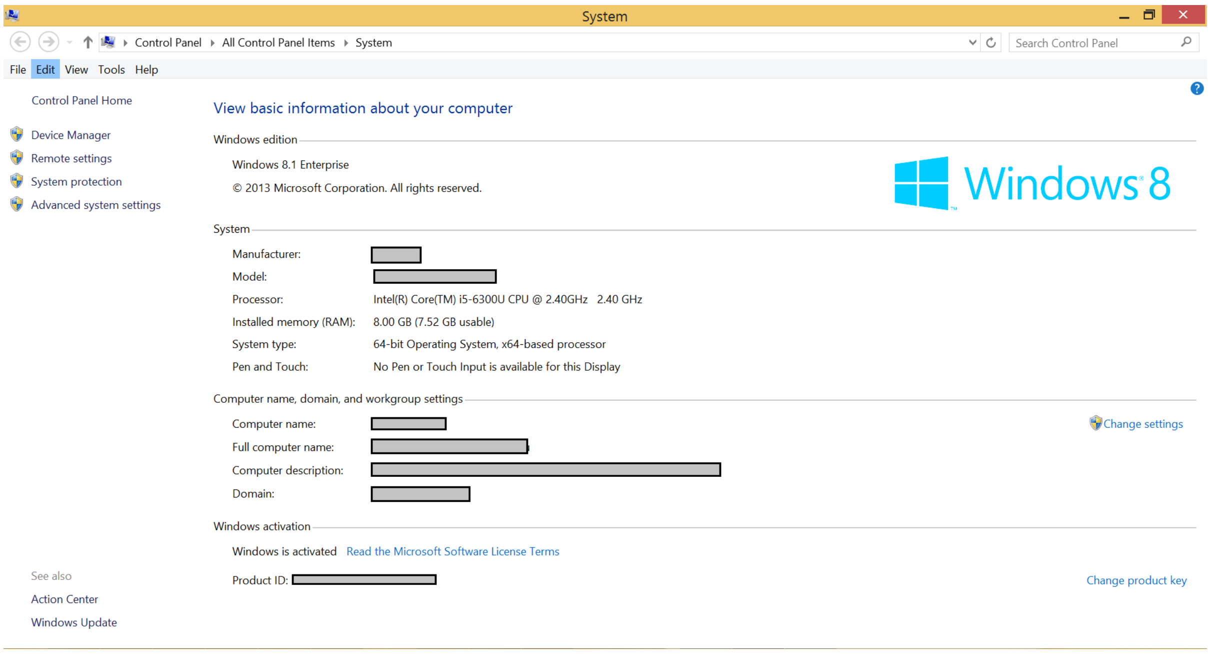
First, we need to find out what version of PowerShell is required to download.

I have a Windows system. To find out System details, right Click on Windows Start button and Click System.



System Configuration:

- Windows 8
- 64 Bit


System

Control Panel › All Control Panel Items › System

File Edit View Tools Help

Control Panel Home

Device Manager
Remote settings
System protection
Advanced system settings

View basic information about your computer

Windows edition

Windows 8.1 Enterprise
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Windows 8

System

Manufacturer:	[redacted]
Model:	[redacted]
Processor:	Intel(R) Core(TM) i5-6300U CPU @ 2.40GHz 2.40 GHz
Installed memory (RAM):	8.00 GB (7.52 GB usable)
System type:	64-bit Operating System, x64-based processor
Pen and Touch:	No Pen or Touch Input is available for this Display

Computer name, domain, and workgroup settings

Computer name:	[redacted]
Full computer name:	[redacted]
Computer description:	[redacted]
Domain:	[redacted]

Change settings

Windows activation

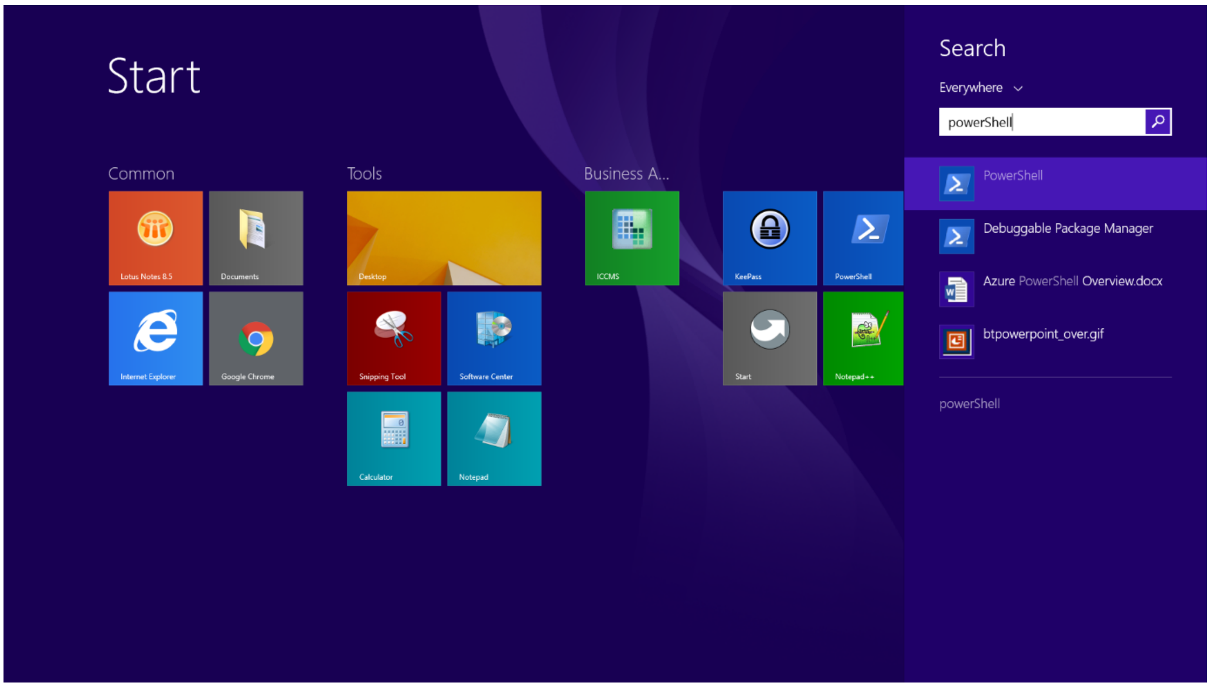
Windows is activated Read the Microsoft Software License Terms

Product ID: [redacted]

Change product key

See also
Action Center
Windows Update

Normally Windows 8 comes with PowerShell installed.



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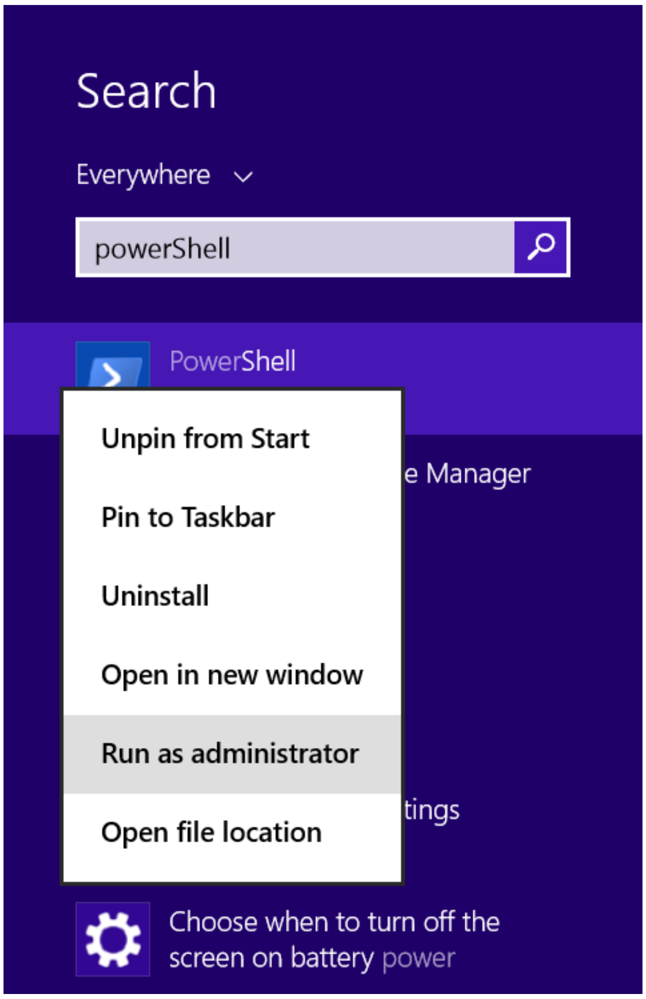
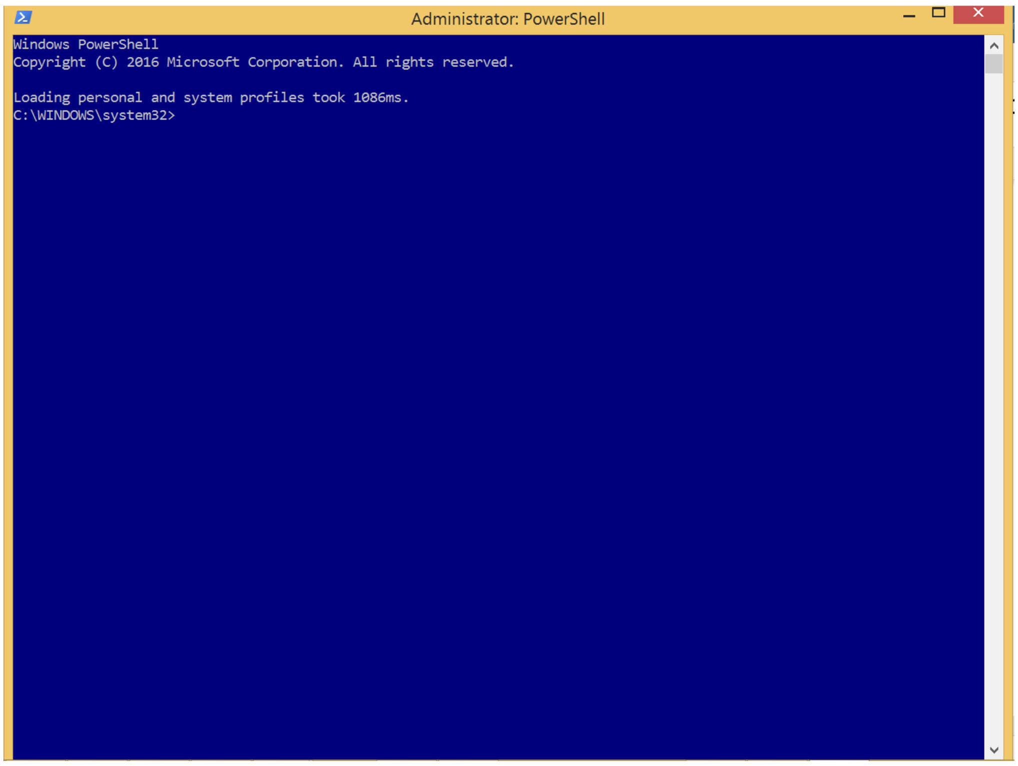
Right click and “Run As Administrator”.





```
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

Loading personal and system profiles took 1086ms.
C:\WINDOWS\system32>
```

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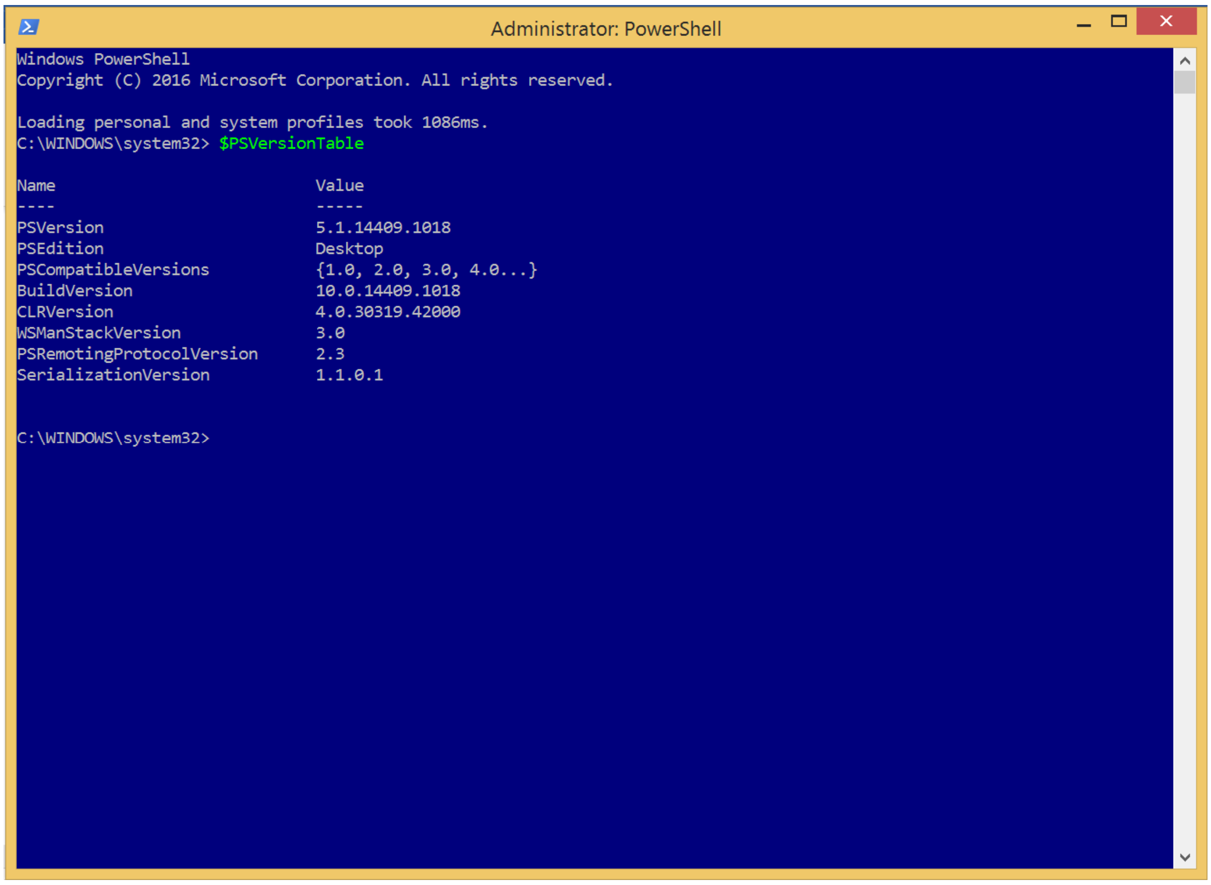
Run bellow command to find out the PowerShell version.

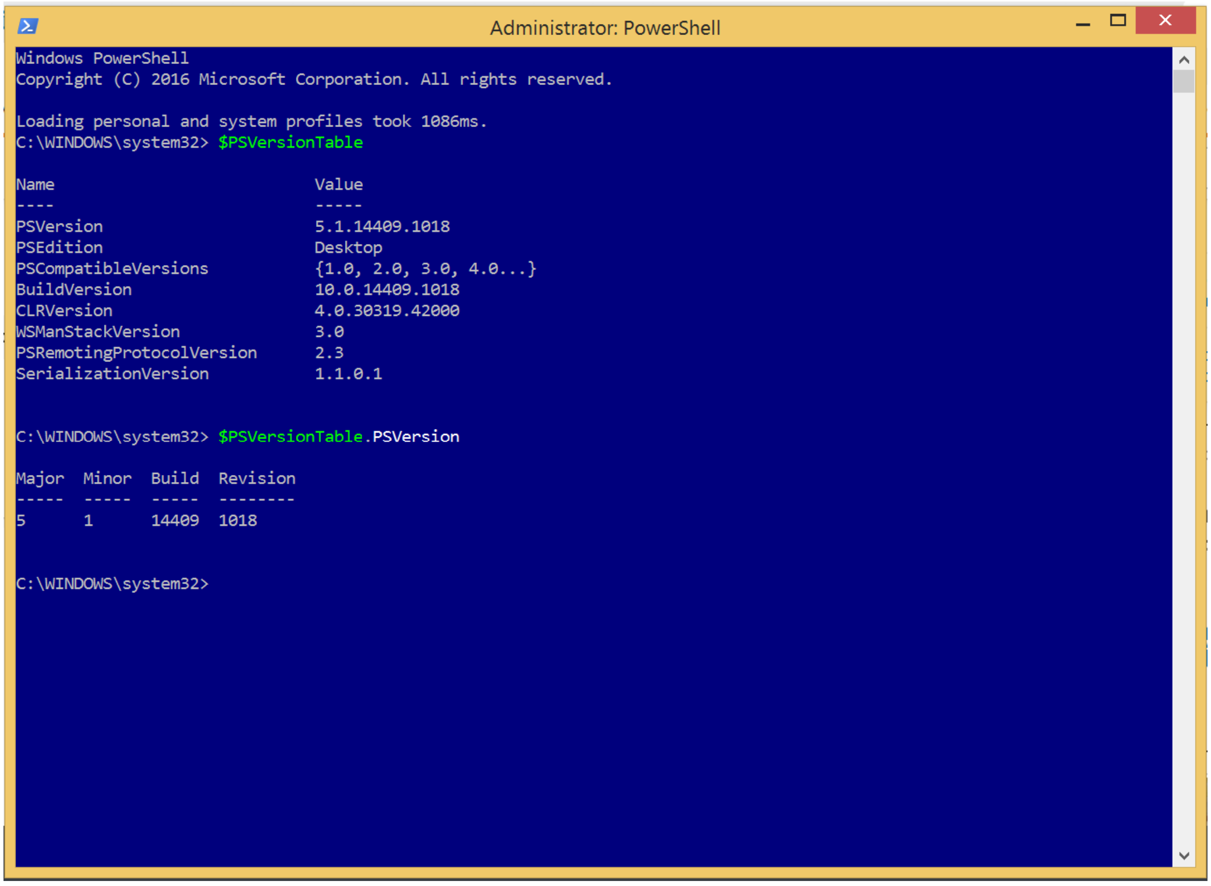
$PSVersionTable



```
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

Loading personal and system profiles took 1086ms.
C:\WINDOWS\system32> $PSVersionTable

Name                           Value
----                           -----
PSVersion                      5.1.14409.1018
PSEdition                      Desktop
PSCompatibleVersions           {1.0, 2.0, 3.0, 4.0...}
BuildVersion                   10.0.14409.1018
CLRVersion                     4.0.30319.42000
WSManStackVersion              3.0
PSRemotingProtocolVersion      2.3
SerializationVersion           1.1.0.1


C:\WINDOWS\system32>
```

If you want to access specific value under “PSVersionTable” we can use dot notation.

$PSVersionTable.PSVersion

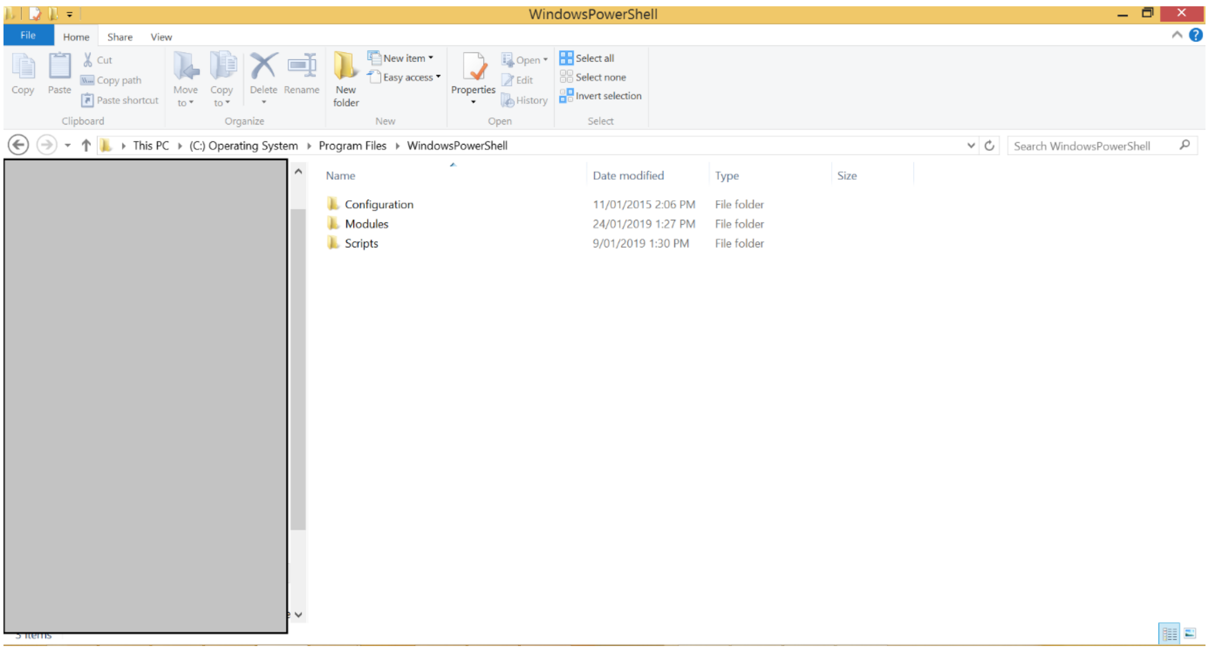


```
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

Loading personal and system profiles took 1086ms.
C:\WINDOWS\system32> $PSVersionTable

Name                           Value
----                           -----
PSVersion                      5.1.14409.1018
PSEdition                      Desktop
PSCompatibleVersions           {1.0, 2.0, 3.0, 4.0...}
BuildVersion                   10.0.14409.1018
CLRVersion                     4.0.30319.42000
WSManStackVersion              3.0
PSRemotingProtocolVersion      2.3
SerializationVersion           1.1.0.1


C:\WINDOWS\system32> $PSVersionTable.PSVersion

Major  Minor  Build  Revision
-----  -----  -----  --------
5      1      14409  1018


C:\WINDOWS\system32>
```

So, we have PowerShell 5.1 installed in our machine.

In my case Windows PowerShell is installed under:

C:\Program Files\WindowsPowerShell



Name	Date modified	Type	Size
Configuration	11/01/2015 2:06 PM	File folder	
Modules	24/01/2019 1:27 PM	File folder	
Scripts	9/01/2019 1:30 PM	File folder	

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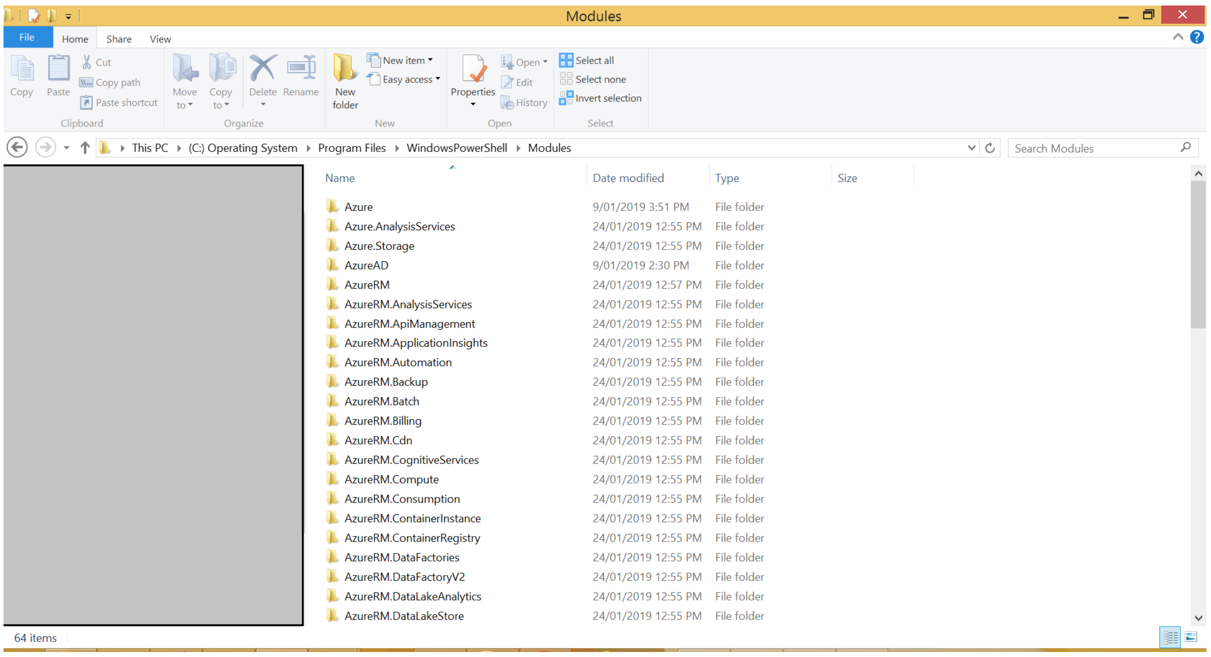
If you go inside Modules folder it will list all the Modules that are available.

C:\Program Files\WindowsPowerShell\Modules



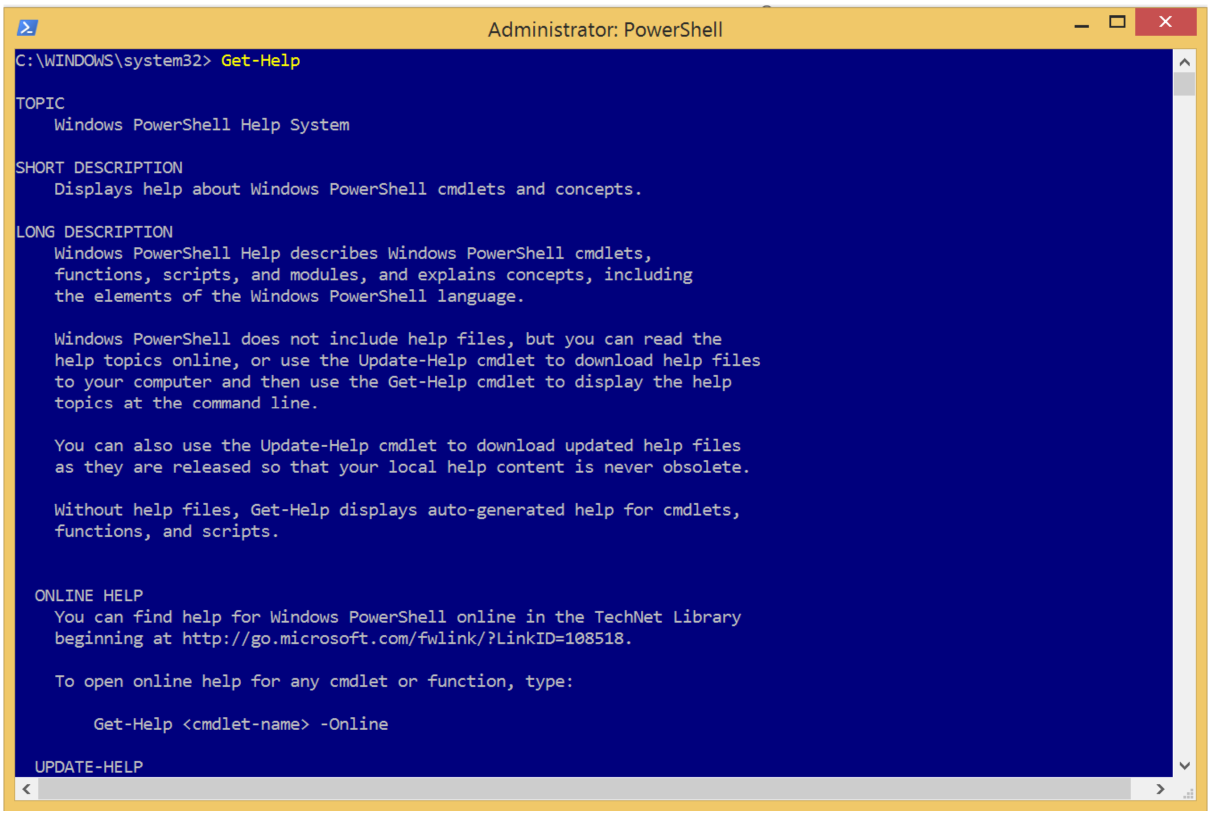
This PC › (C:) Operating System › Program Files › WindowsPowerShell › Modules

Name	Date modified	Type	Size
Azure	9/01/2019 3:51 PM	File folder	
Azure.AnalysisServices	24/01/2019 12:55 PM	File folder	
Azure.Storage	24/01/2019 12:55 PM	File folder	
AzureAD	9/01/2019 2:30 PM	File folder	
AzureRM	24/01/2019 12:57 PM	File folder	
AzureRM.AnalysisServices	24/01/2019 12:55 PM	File folder	
AzureRM.ApiManagement	24/01/2019 12:55 PM	File folder	
AzureRM.ApplicationInsights	24/01/2019 12:55 PM	File folder	
AzureRM.Automation	24/01/2019 12:55 PM	File folder	
AzureRM.Backup	24/01/2019 12:55 PM	File folder	
AzureRM.Batch	24/01/2019 12:55 PM	File folder	
AzureRM.Billing	24/01/2019 12:55 PM	File folder	
AzureRM.Cdn	24/01/2019 12:55 PM	File folder	
AzureRM.CognitiveServices	24/01/2019 12:55 PM	File folder	
AzureRM.Compute	24/01/2019 12:55 PM	File folder	
AzureRM.Consumption	24/01/2019 12:55 PM	File folder	
AzureRM.ContainerInstance	24/01/2019 12:55 PM	File folder	
AzureRM.ContainerRegistry	24/01/2019 12:55 PM	File folder	
AzureRM.DataFactories	24/01/2019 12:55 PM	File folder	
AzureRM.DataFactoryV2	24/01/2019 12:55 PM	File folder	
AzureRM.DataLakeAnalytics	24/01/2019 12:55 PM	File folder	
AzureRM.DataLakeStore	24/01/2019 12:55 PM	File folder	

64 items

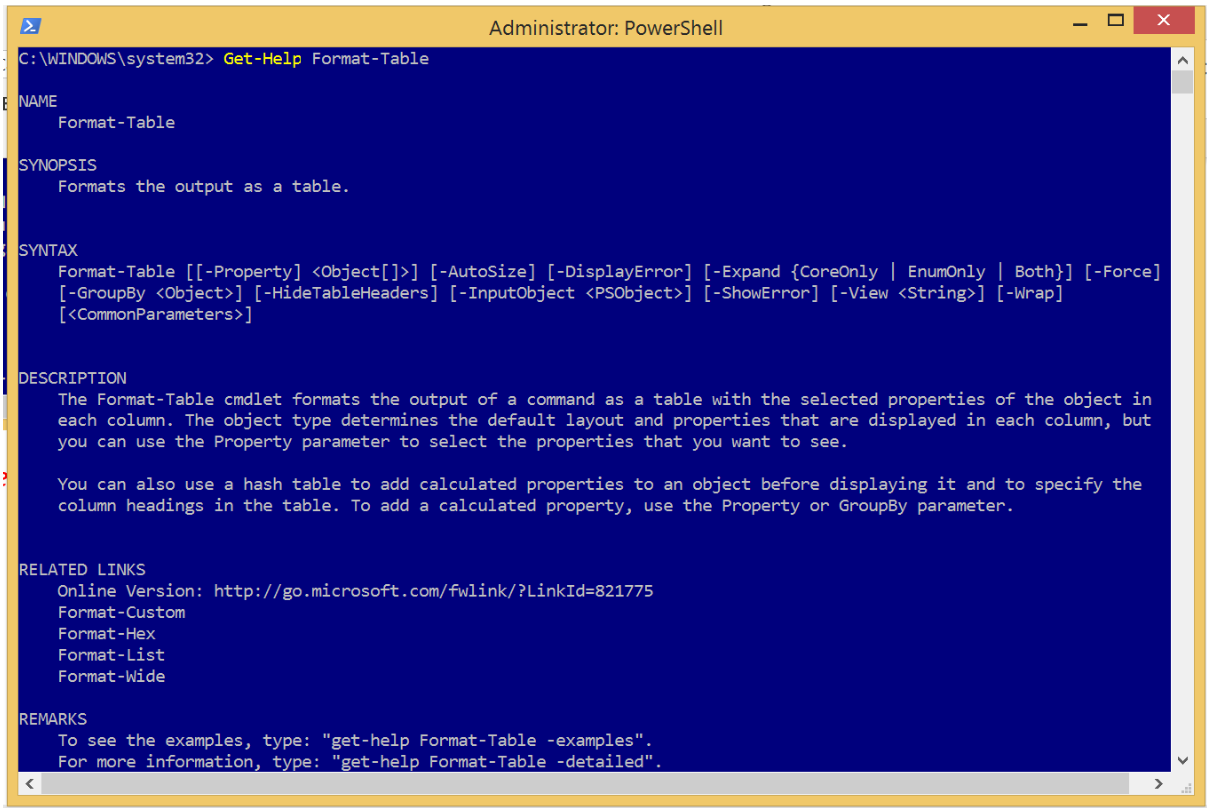
To get help relating to PowerShell run bellow command.

Get-Help



```
C:\WINDOWS\system32> Get-Help

TOPIC
    Windows PowerShell Help System

SHORT DESCRIPTION
    Displays help about Windows PowerShell cmdlets and concepts.

LONG DESCRIPTION
    Windows PowerShell Help describes Windows PowerShell cmdlets,
    functions, scripts, and modules, and explains concepts, including
    the elements of the Windows PowerShell language.

    Windows PowerShell does not include help files, but you can read the
    help topics online, or use the Update-Help cmdlet to download help files
    to your computer and then use the Get-Help cmdlet to display the help
    topics at the command line.

    You can also use the Update-Help cmdlet to download updated help files
    as they are released so that your local help content is never obsolete.

    Without help files, Get-Help displays auto-generated help for cmdlets,
    functions, and scripts.


  ONLINE HELP
    You can find help for Windows PowerShell online in the TechNet Library
    beginning at http://go.microsoft.com/fwlink/?LinkID=108518.

    To open online help for any cmdlet or function, type:

        Get-Help <cmdlet-name> -Online

  UPDATE-HELP
```

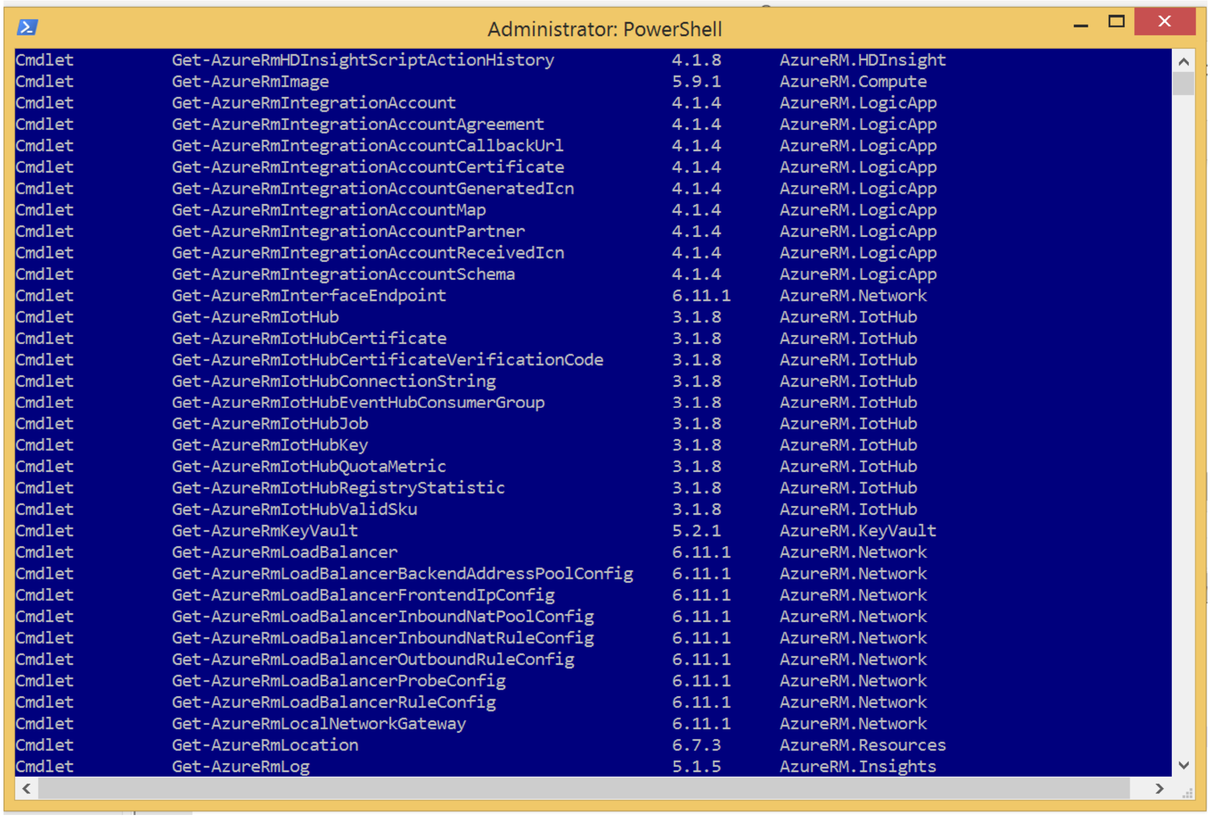
Get-Help Format-Table



```
C:\WINDOWS\system32> Get-Help Format-Table

NAME
    Format-Table

SYNOPSIS
    Formats the output as a table.


SYNTAX
    Format-Table [[-Property] <Object[]>] [-AutoSize] [-DisplayError] [-Expand {CoreOnly | EnumOnly | Both}] [-Force]
    [-GroupBy <Object>] [-HideTableHeaders] [-InputObject <PSObject>] [-ShowError] [-View <String>] [-Wrap]
    [<CommonParameters>]


DESCRIPTION
    The Format-Table cmdlet formats the output of a command as a table with the selected properties of the object in
    each column. The object type determines the default layout and properties that are displayed in each column, but
    you can use the Property parameter to select the properties that you want to see.

    You can also use a hash table to add calculated properties to an object before displaying it and to specify the
    column headings in the table. To add a calculated property, use the Property or GroupBy parameter.


RELATED LINKS
    Online Version: http://go.microsoft.com/fwlink/?LinkId=821775
    Format-Custom
    Format-Hex
    Format-List
    Format-Wide

REMARKS
    To see the examples, type: "get-help Format-Table -examples".
    For more information, type: "get-help Format-Table -detailed".
```

To generate a list of cmdlets, functions installed in your machine.

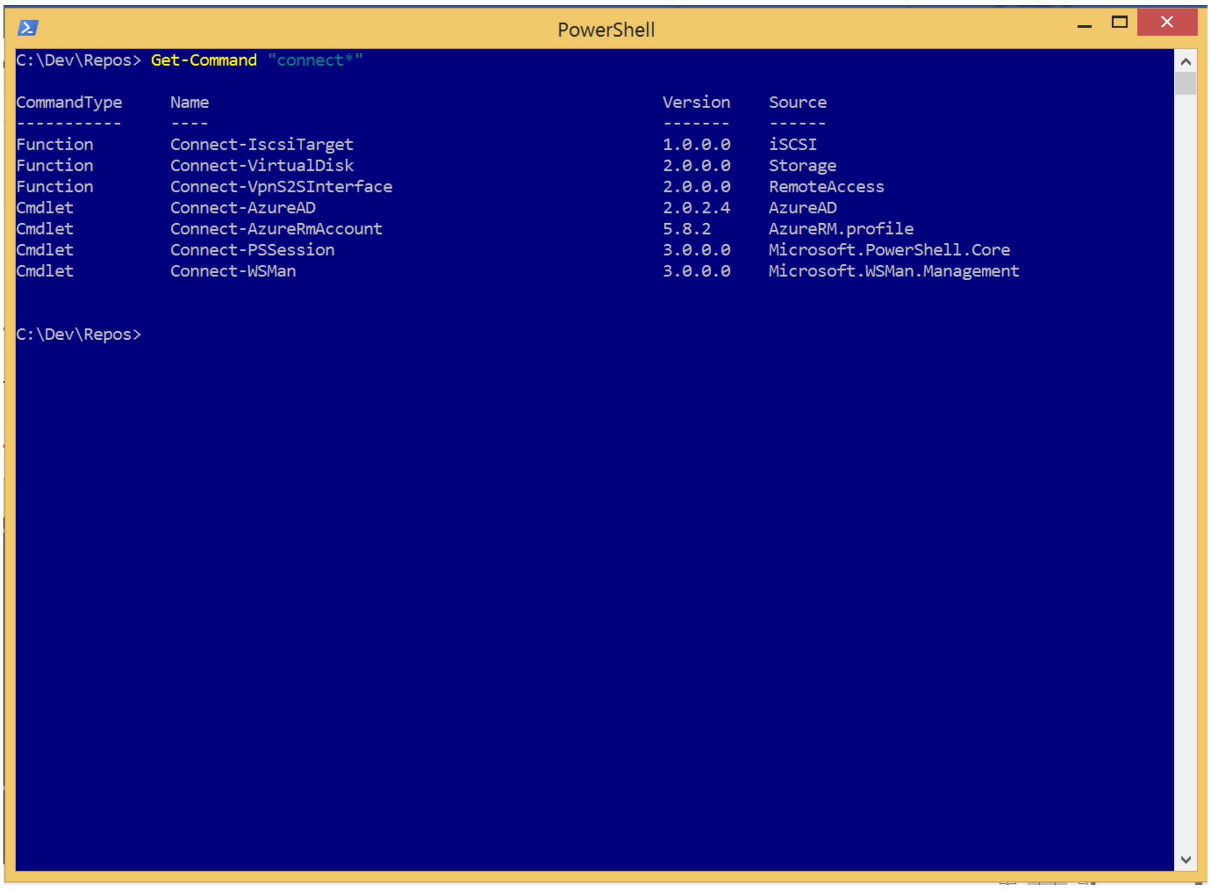
Get-Command



```
Cmdlet          Get-AzureRmHDInsightScriptActionHistory                   4.1.8      AzureRM.HDInsight
Cmdlet          Get-AzureRmImage                                          5.9.1      AzureRM.Compute
Cmdlet          Get-AzureRmIntegrationAccount                             4.1.4      AzureRM.LogicApp
Cmdlet          Get-AzureRmIntegrationAccountAgreement                    4.1.4      AzureRM.LogicApp
Cmdlet          Get-AzureRmIntegrationAccountCallbackUrl                  4.1.4      AzureRM.LogicApp
Cmdlet          Get-AzureRmIntegrationAccountCertificate                  4.1.4      AzureRM.LogicApp
Cmdlet          Get-AzureRmIntegrationAccountGeneratedIcn                 4.1.4      AzureRM.LogicApp
Cmdlet          Get-AzureRmIntegrationAccountMap                          4.1.4      AzureRM.LogicApp
Cmdlet          Get-AzureRmIntegrationAccountPartner                      4.1.4      AzureRM.LogicApp
Cmdlet          Get-AzureRmIntegrationAccountReceivedIcn                  4.1.4      AzureRM.LogicApp
Cmdlet          Get-AzureRmIntegrationAccountSchema                       4.1.4      AzureRM.LogicApp
Cmdlet          Get-AzureRmInterfaceEndpoint                              6.11.1     AzureRM.Network
Cmdlet          Get-AzureRmIotHub                                         3.1.8      AzureRM.IotHub
Cmdlet          Get-AzureRmIotHubCertificate                              3.1.8      AzureRM.IotHub
Cmdlet          Get-AzureRmIotHubCertificateVerificationCode              3.1.8      AzureRM.IotHub
Cmdlet          Get-AzureRmIotHubConnectionString                         3.1.8      AzureRM.IotHub
Cmdlet          Get-AzureRmIotHubEventHubConsumerGroup                    3.1.8      AzureRM.IotHub
Cmdlet          Get-AzureRmIotHubJob                                      3.1.8      AzureRM.IotHub
Cmdlet          Get-AzureRmIotHubKey                                      3.1.8      AzureRM.IotHub
Cmdlet          Get-AzureRmIotHubQuotaMetric                              3.1.8      AzureRM.IotHub
Cmdlet          Get-AzureRmIotHubRegistryStatistic                        3.1.8      AzureRM.IotHub
Cmdlet          Get-AzureRmIotHubValidSku                                 3.1.8      AzureRM.IotHub
Cmdlet          Get-AzureRmKeyVault                                       5.2.1      AzureRM.KeyVault
Cmdlet          Get-AzureRmLoadBalancer                                   6.11.1     AzureRM.Network
Cmdlet          Get-AzureRmLoadBalancerBackendAddressPoolConfig           6.11.1     AzureRM.Network
Cmdlet          Get-AzureRmLoadBalancerFrontendIpConfig                   6.11.1     AzureRM.Network
Cmdlet          Get-AzureRmLoadBalancerInboundNatPoolConfig               6.11.1     AzureRM.Network
Cmdlet          Get-AzureRmLoadBalancerInboundNatRuleConfig               6.11.1     AzureRM.Network
Cmdlet          Get-AzureRmLoadBalancerOutboundRuleConfig                 6.11.1     AzureRM.Network
Cmdlet          Get-AzureRmLoadBalancerProbeConfig                        6.11.1     AzureRM.Network
Cmdlet          Get-AzureRmLoadBalancerRuleConfig                         6.11.1     AzureRM.Network
Cmdlet          Get-AzureRmLocalNetworkGateway                            6.11.1     AzureRM.Network
Cmdlet          Get-AzureRmLocation                                       6.7.3      AzureRM.Resources
Cmdlet          Get-AzureRmLog                                            5.1.5      AzureRM.Insights
```

To generate a list of cmdlets, functions installed in your machine that starts with “connect”.

Get-Command "connect"*



```
C:\Dev\Repos> Get-Command "connect*"

CommandType     Name                                               Version    Source
-----------     ----                                               -------    ------
Function        Connect-IscsiTarget                                1.0.0.0    iSCSI
Function        Connect-VirtualDisk                                2.0.0.0    Storage
Function        Connect-VpnS2SInterface                            2.0.0.0    RemoteAccess
Cmdlet          Connect-AzureAD                                    2.0.2.4    AzureAD
Cmdlet          Connect-AzureRmAccount                             5.8.2      AzureRM.profile
Cmdlet          Connect-PSSession                                  3.0.0.0    Microsoft.PowerShell.Core
Cmdlet          Connect-WSMan                                      3.0.0.0    Microsoft.WSMan.Management


C:\Dev\Repos>
```

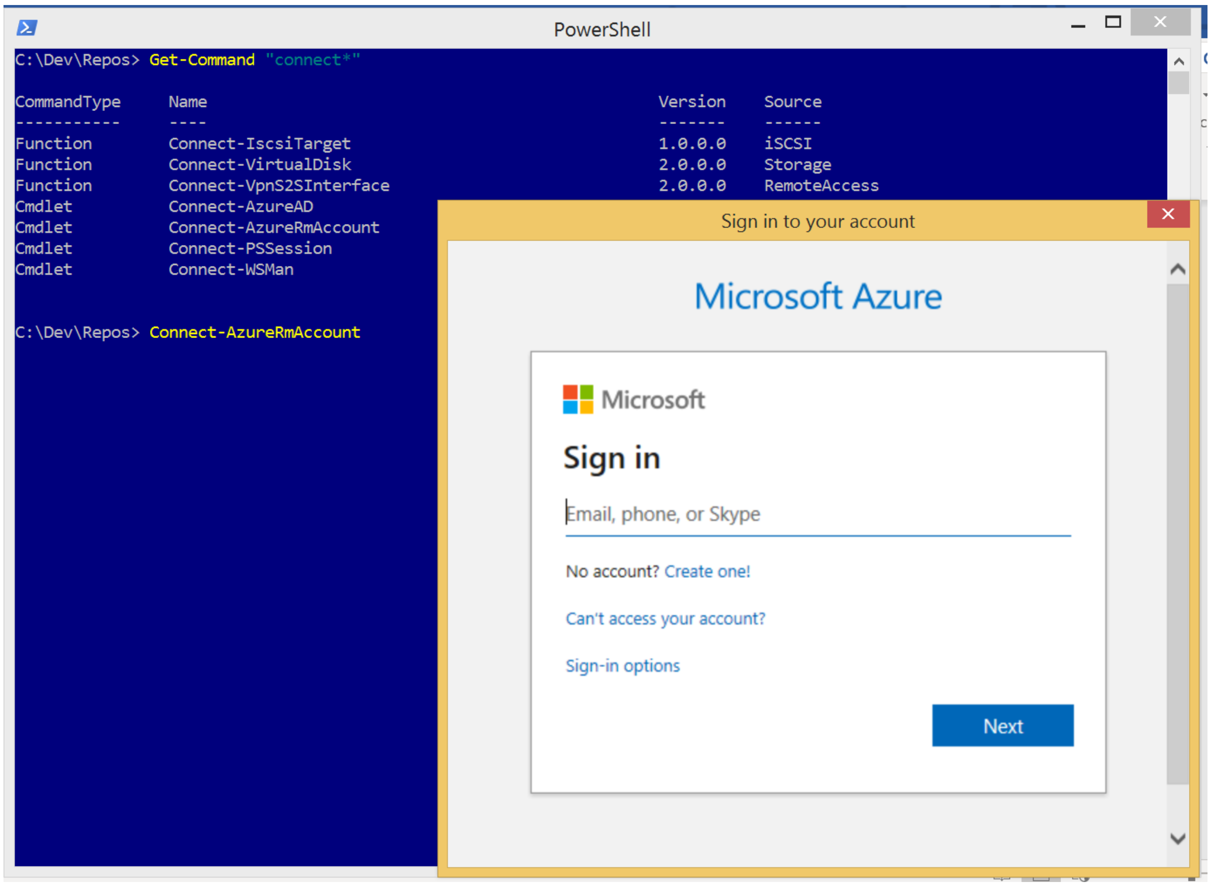
Notice that we have a command called “Connect-AzureRmAccount”

Cmdlet   Connect-AzureRmAccount   5.8.2   AzureRM.profile

This is the command we use to connect to Azure Account.

Run bellow command on PowerShell to sign in to Azure account.

Connect-AzureRmAccount



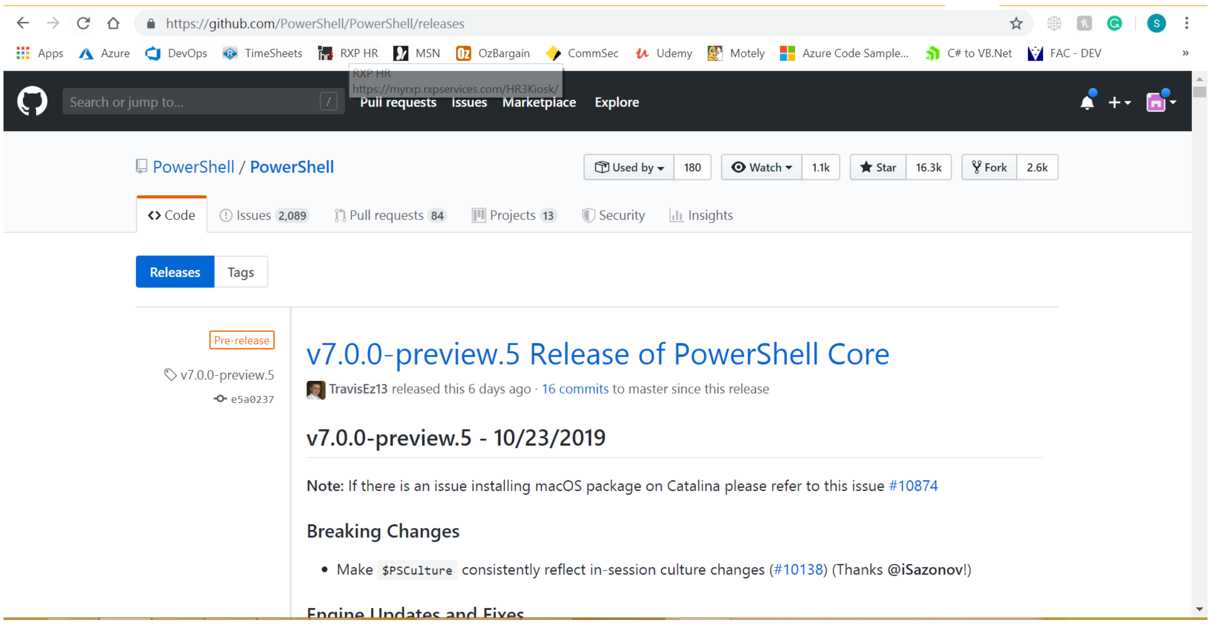
```
C:\Dev\Repos> Get-Command "connect*"

CommandType     Name                                               Version    Source
-----------     ----                                               -------    ------
Function        Connect-IscsiTarget                                1.0.0.0    iSCSI
Function        Connect-VirtualDisk                                2.0.0.0    Storage
Function        Connect-VpnS2SInterface                            2.0.0.0    RemoteAccess
Cmdlet          Connect-AzureAD
Cmdlet          Connect-AzureRmAccount
Cmdlet          Connect-PSSession
Cmdlet          Connect-WSMan


C:\Dev\Repos> Connect-AzureRmAccount
```

Step 02: Install/Upgrade PowerShell on Local Machine

Let's say, we want to install/upgrade the PowerShell version to 6.2

Go to bellow URL to download PowerShell:

https://github.com/PowerShell/PowerShell/releases



v7.0.0-preview.5 Release of PowerShell Core

TravisEz13 released this 6 days ago · 16 commits to master since this release

v7.0.0-preview.5 - 10/23/2019

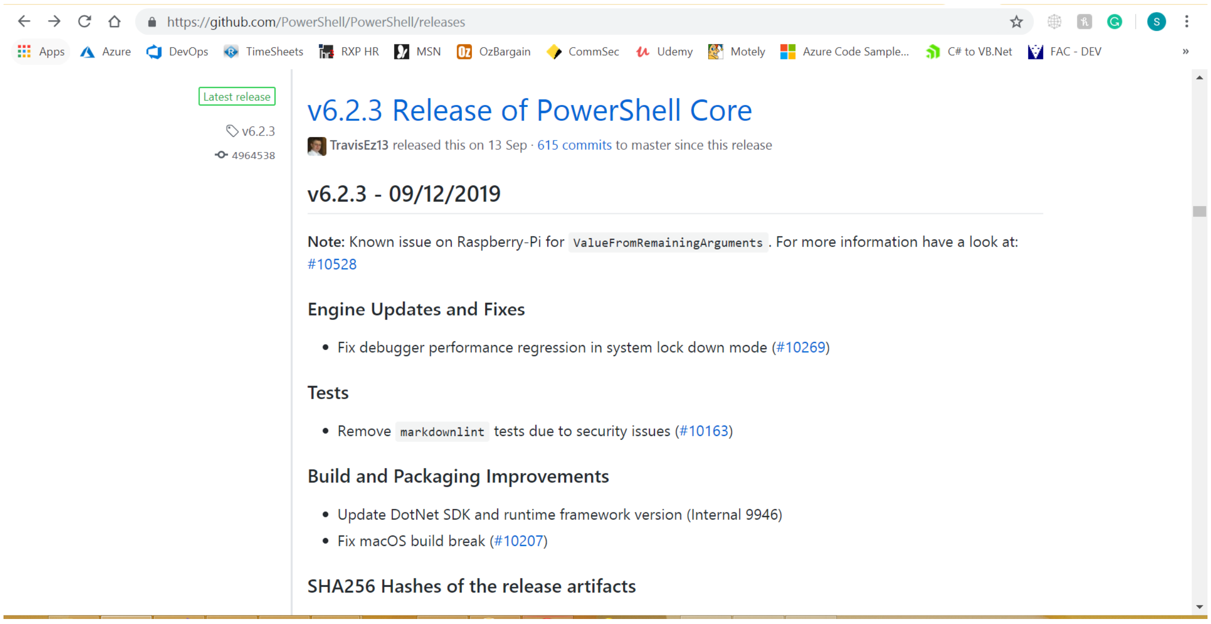
Note: If there is an issue installing macOS package on Catalina please refer to this issue #10874

Breaking Changes

- Make `$PSCulture` consistently reflect in-session culture changes (#10138) (Thanks @iSazonov!)

Engine Updates and Fixes

Locate PowerShell version 6.2



v6.2.3 Release of PowerShell Core

TravisEz13 released this on 13 Sep · 615 commits to master since this release

v6.2.3 - 09/12/2019

Note: Known issue on Raspberry-Pi for `ValueFromRemainingArguments` . For more information have a look at: #10528

Engine Updates and Fixes

- Fix debugger performance regression in system lock down mode (#10269)

Tests

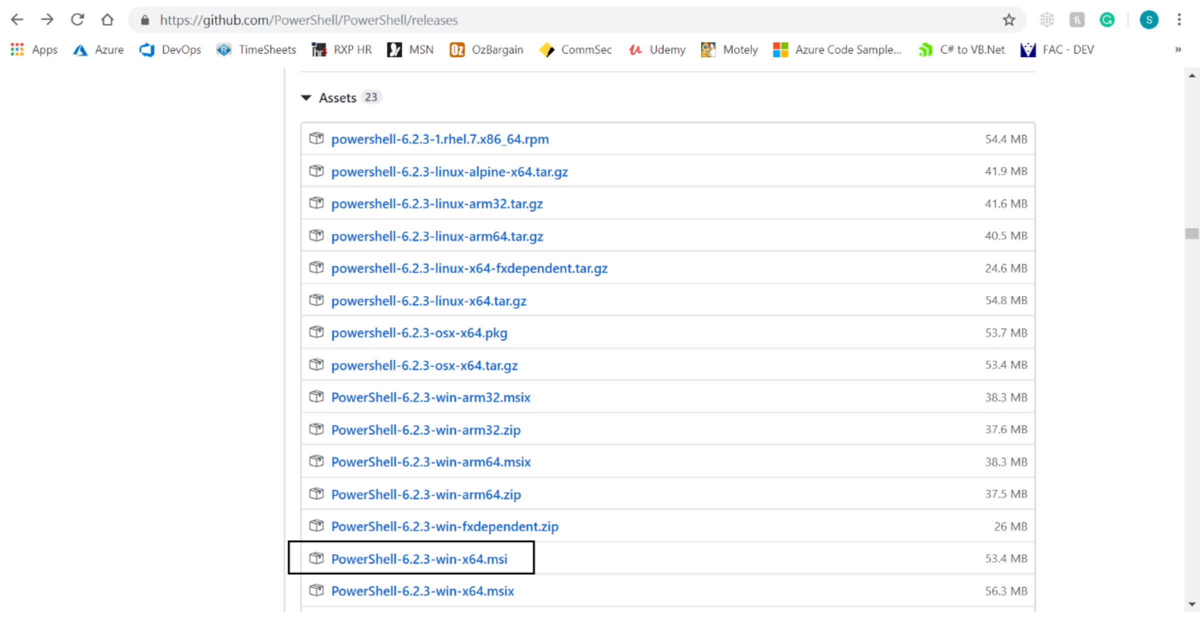
- Remove `markdownlint` tests due to security issues (#10163)

Build and Packaging Improvements

- Update DotNet SDK and runtime framework version (Internal 9946)
- Fix macOS build break (#10207)

SHA256 Hashes of the release artifacts

Since we have a 64-bit version download relevant .msi installation.

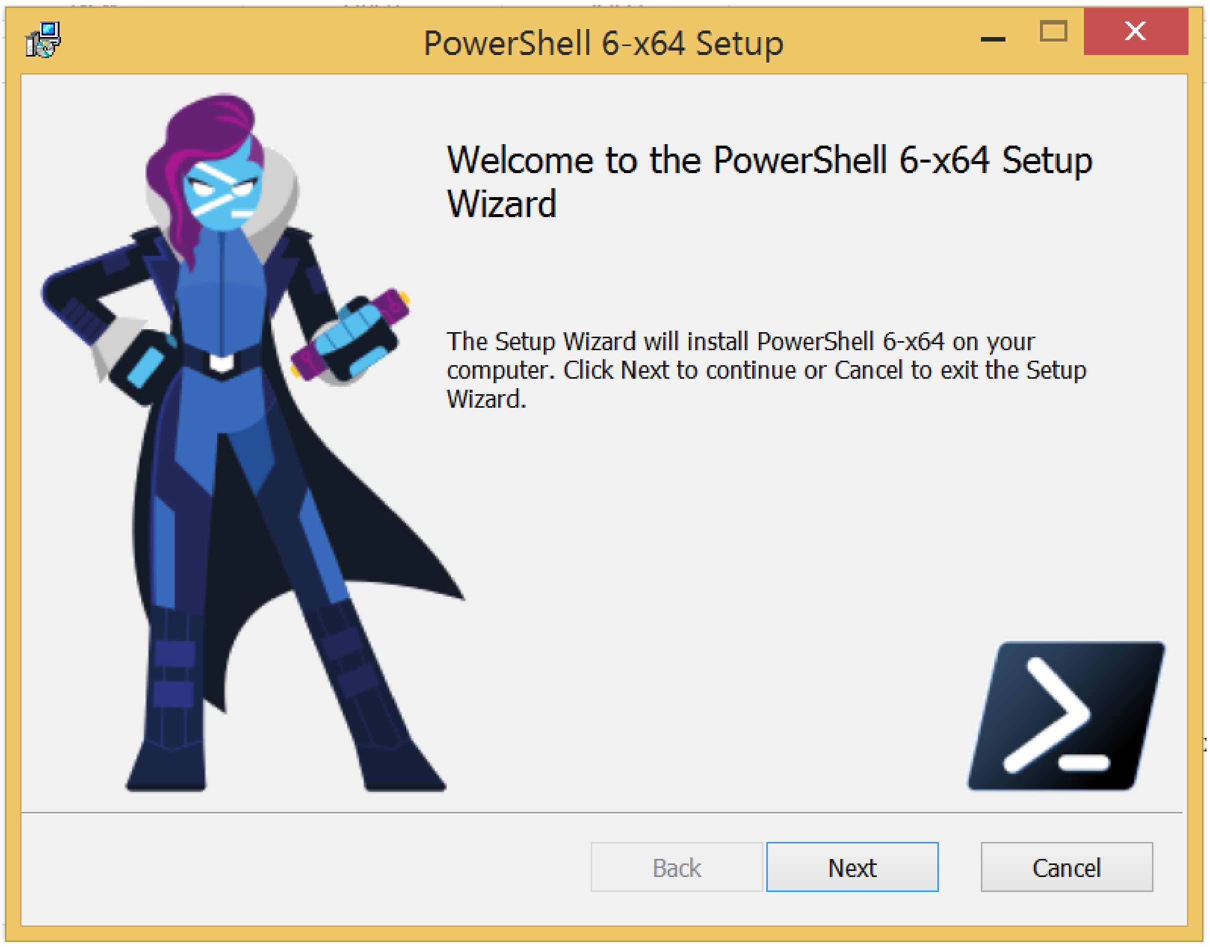

https://github.com/PowerShell/PowerShell/releases

Apps Azure DevOps TimeSheets RXP HR MSN OzBargain CommSec Udemy Motely Azure Code Sample... C# to VB.Net FAC - DEV

Assets 23

powershell-6.2.3-1.rhel.7.x86_64.rpm	54.4 MB
powershell-6.2.3-linux-alpine-x64.tar.gz	41.9 MB
powershell-6.2.3-linux-arm32.tar.gz	41.6 MB
powershell-6.2.3-linux-arm64.tar.gz	40.5 MB
powershell-6.2.3-linux-x64-fxdependent.tar.gz	24.6 MB
powershell-6.2.3-linux-x64.tar.gz	54.8 MB
powershell-6.2.3-osx-x64.pkg	53.7 MB
powershell-6.2.3-osx-x64.tar.gz	53.4 MB
PowerShell-6.2.3-win-arm32.msix	38.3 MB
PowerShell-6.2.3-win-arm32.zip	37.6 MB
PowerShell-6.2.3-win-arm64.msix	38.3 MB
PowerShell-6.2.3-win-arm64.zip	37.5 MB
PowerShell-6.2.3-win-fxdependent.zip	26 MB
PowerShell-6.2.3-win-x64.msi	53.4 MB
PowerShell-6.2.3-win-x64.msix	56.3 MB

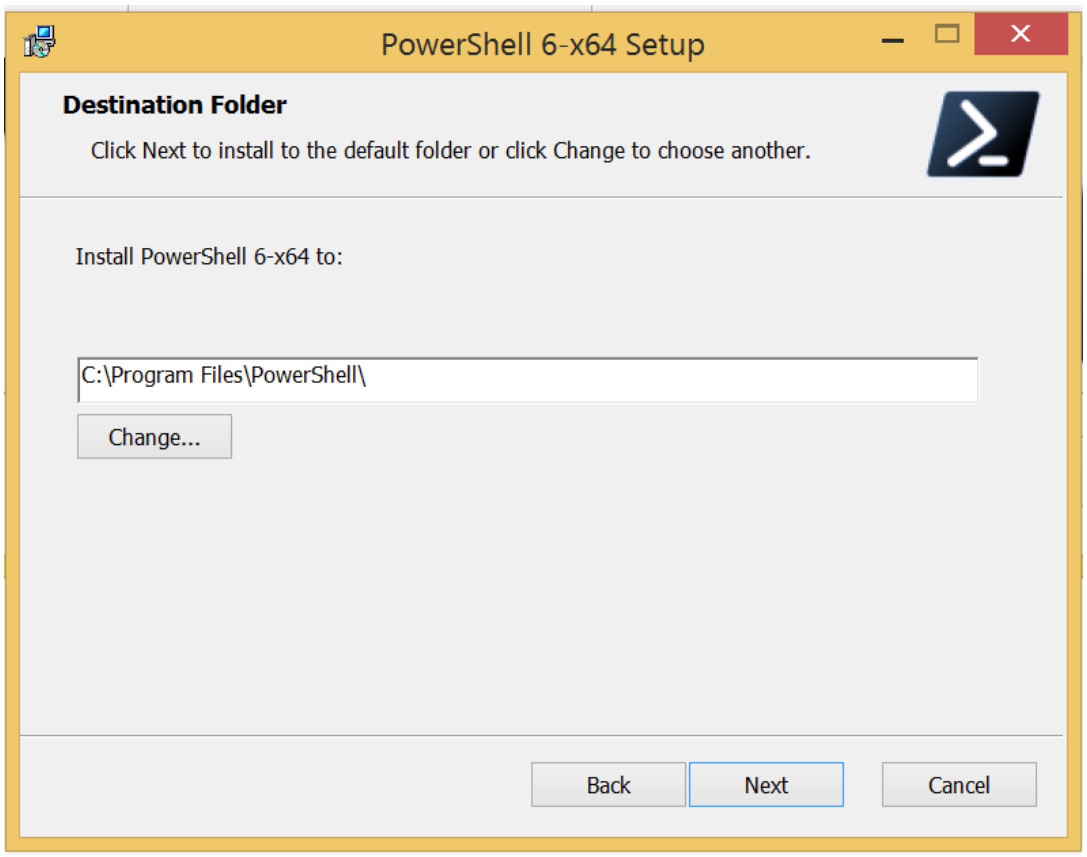
Once download completes Install it.


PowerShell 6-x64 Setup

Welcome to the PowerShell 6-x64 Setup Wizard

The Setup Wizard will install PowerShell 6-x64 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.

Set the installation location.

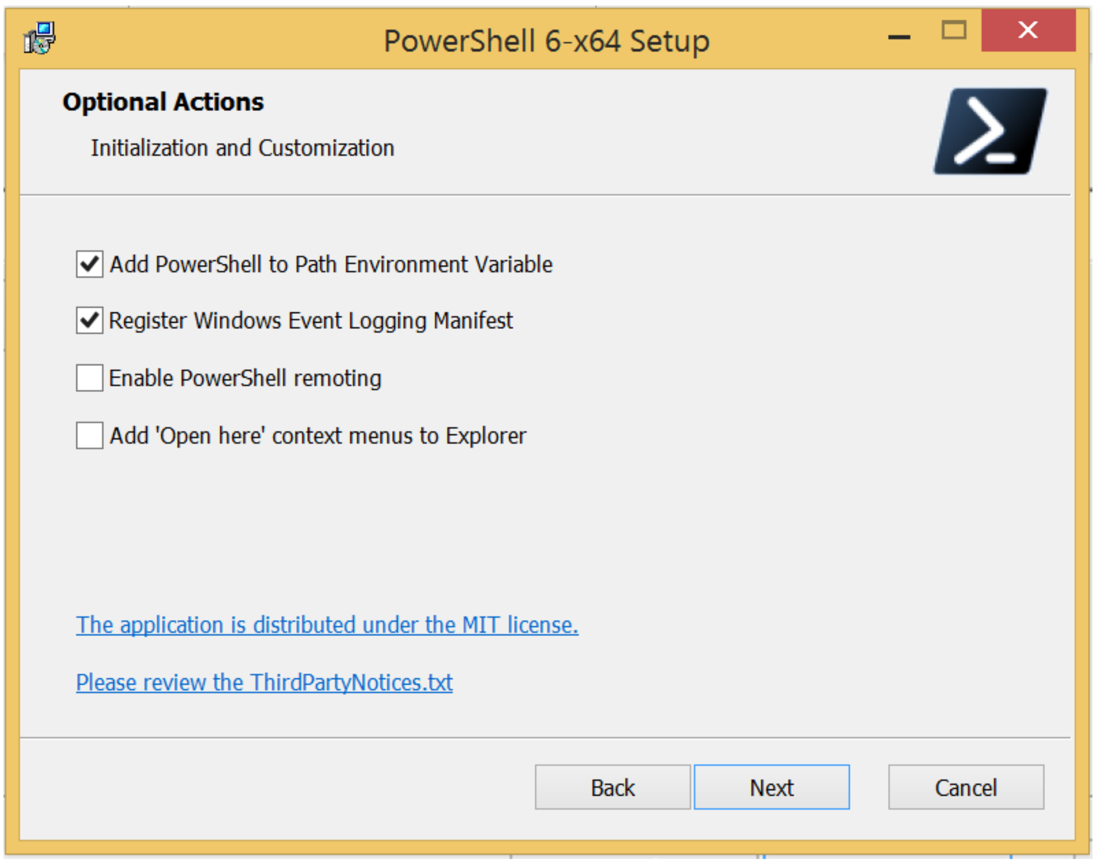


Destination Folder

Click Next to install to the default folder or click Change to choose another.

Install PowerShell 6-x64 to:

C:\Program Files\PowerShell\



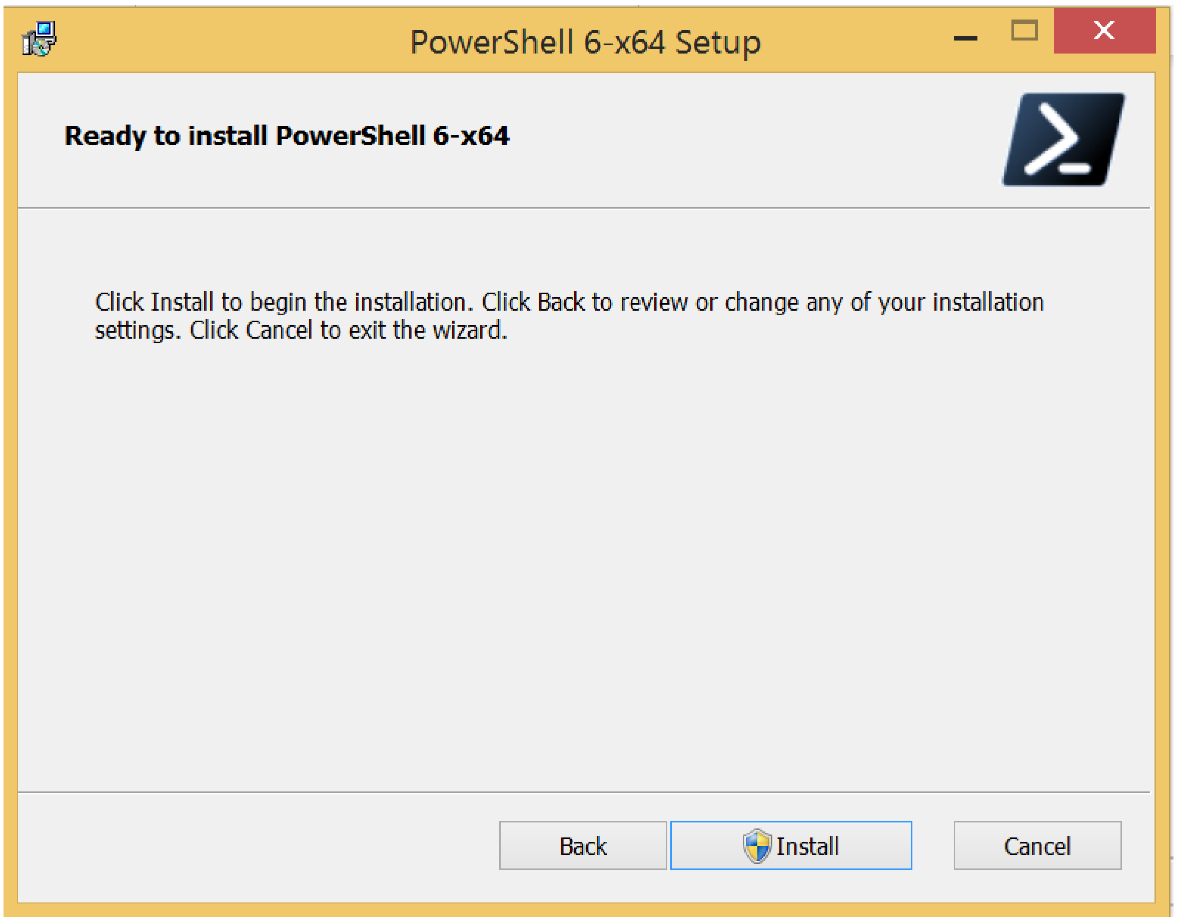
Optional Actions

Initialization and Customization

- [✓] Add PowerShell to Path Environment Variable
- [✓] Register Windows Event Logging Manifest
- [ ] Enable PowerShell remoting
- [ ] Add 'Open here' context menus to Explorer

The application is distributed under the MIT license.

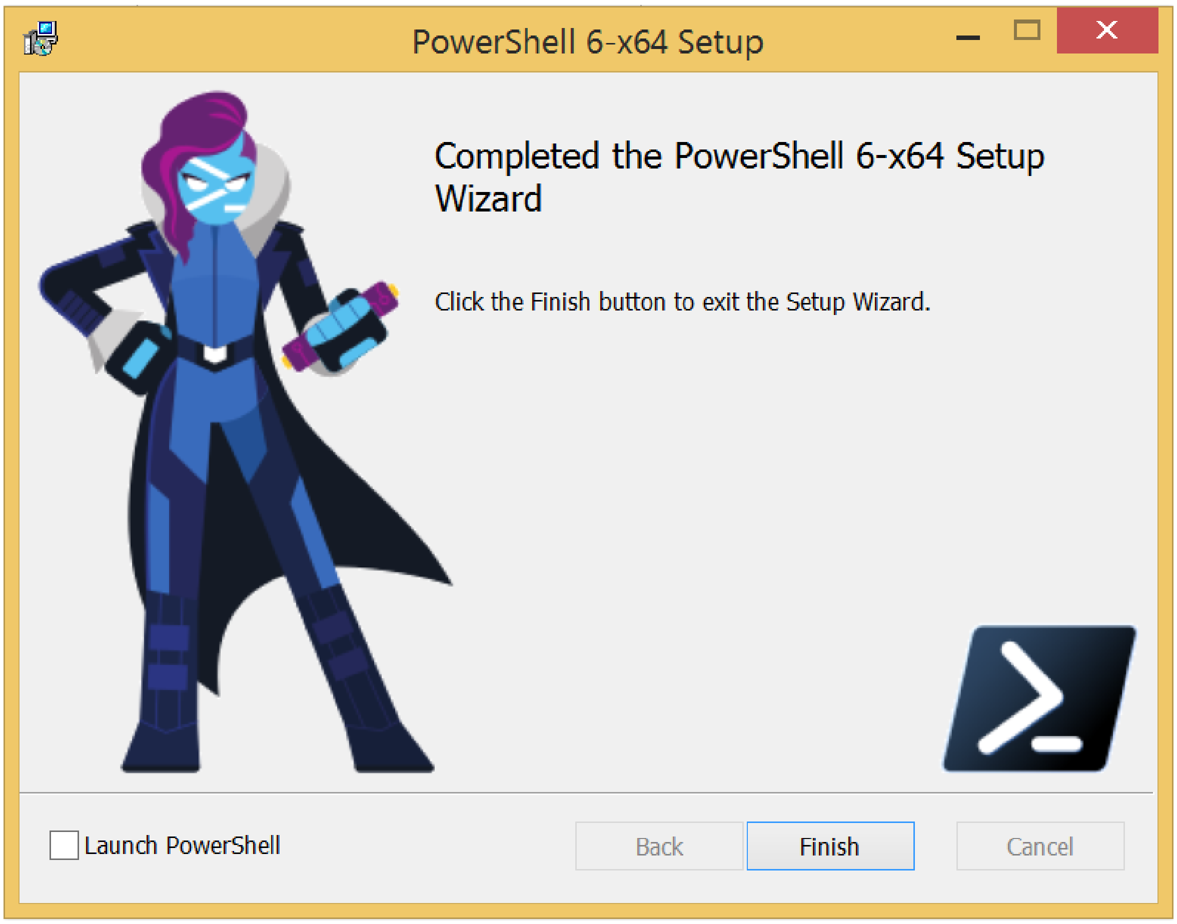
Please review the ThirdPartyNotices.txt



PowerShell 6-x64 Setup

Ready to install PowerShell 6-x64

Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.



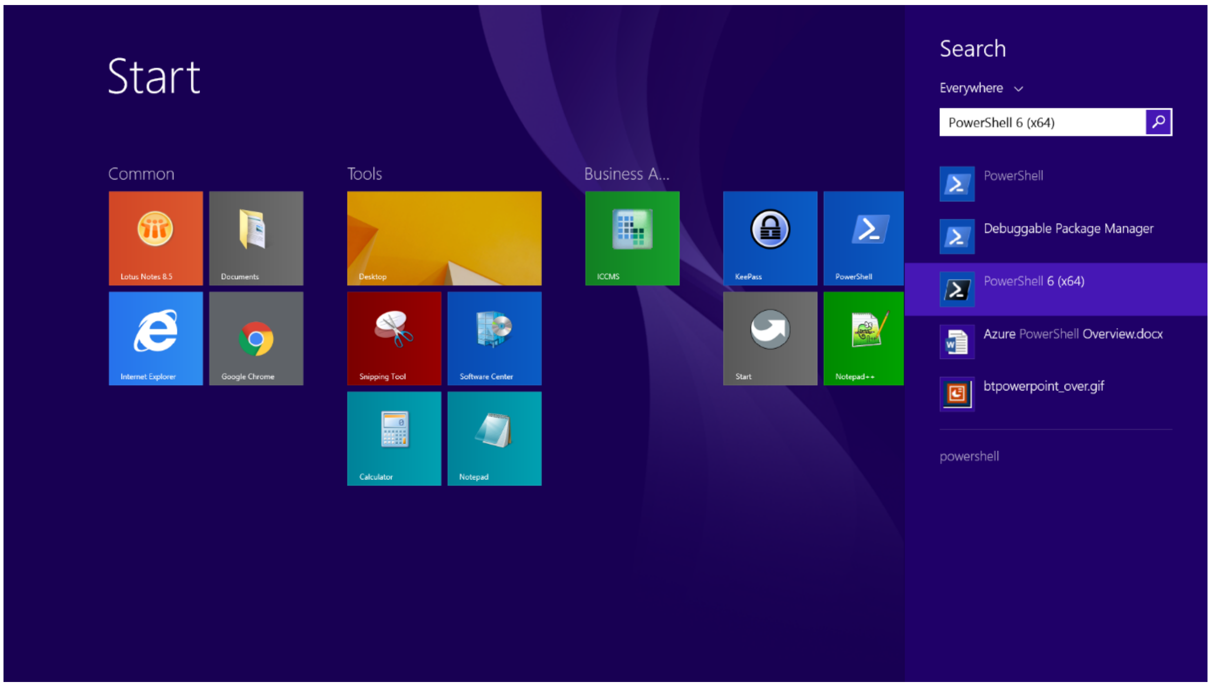
PowerShell 6-x64 Setup

Completed the PowerShell 6-x64 Setup Wizard

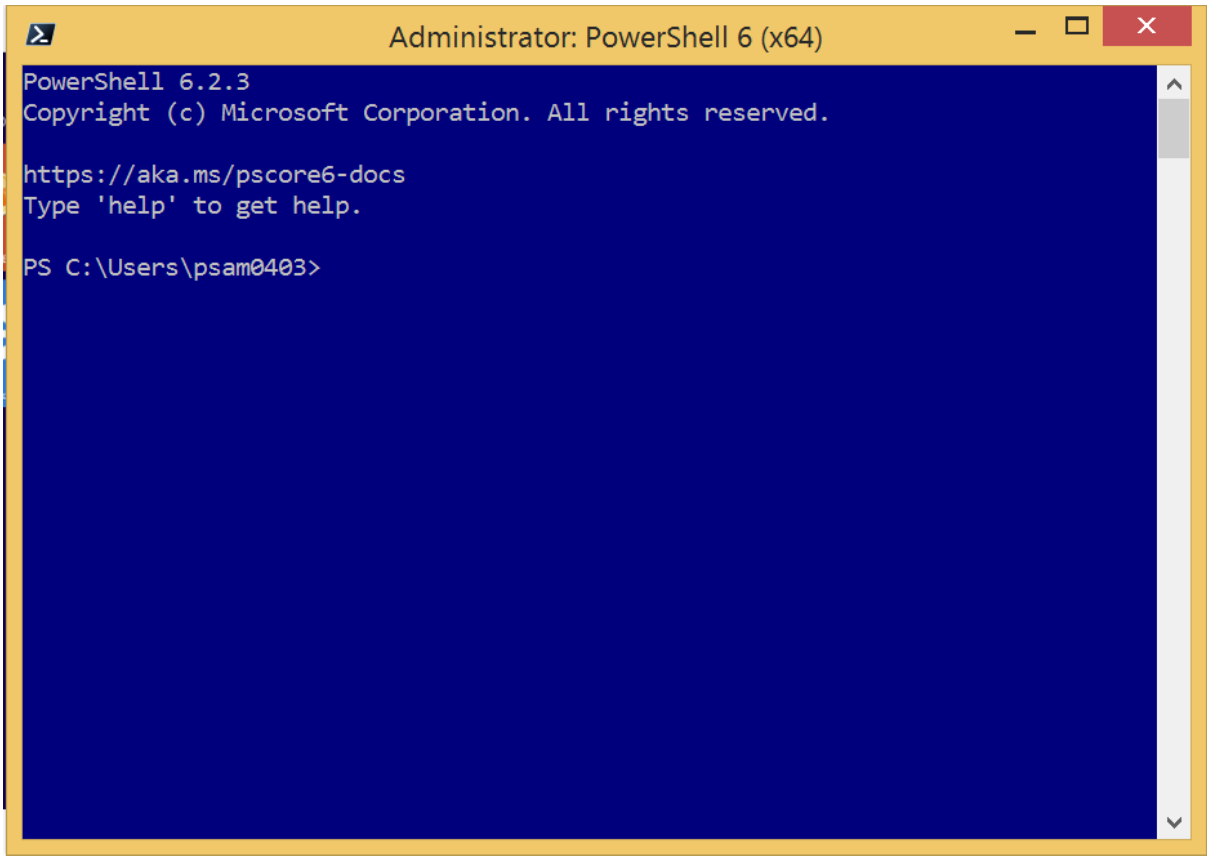
Click the Finish button to exit the Setup Wizard.

Once the installation completes open PowerShell in Administrator mode.

Now we can see 2 PowerShell versions.



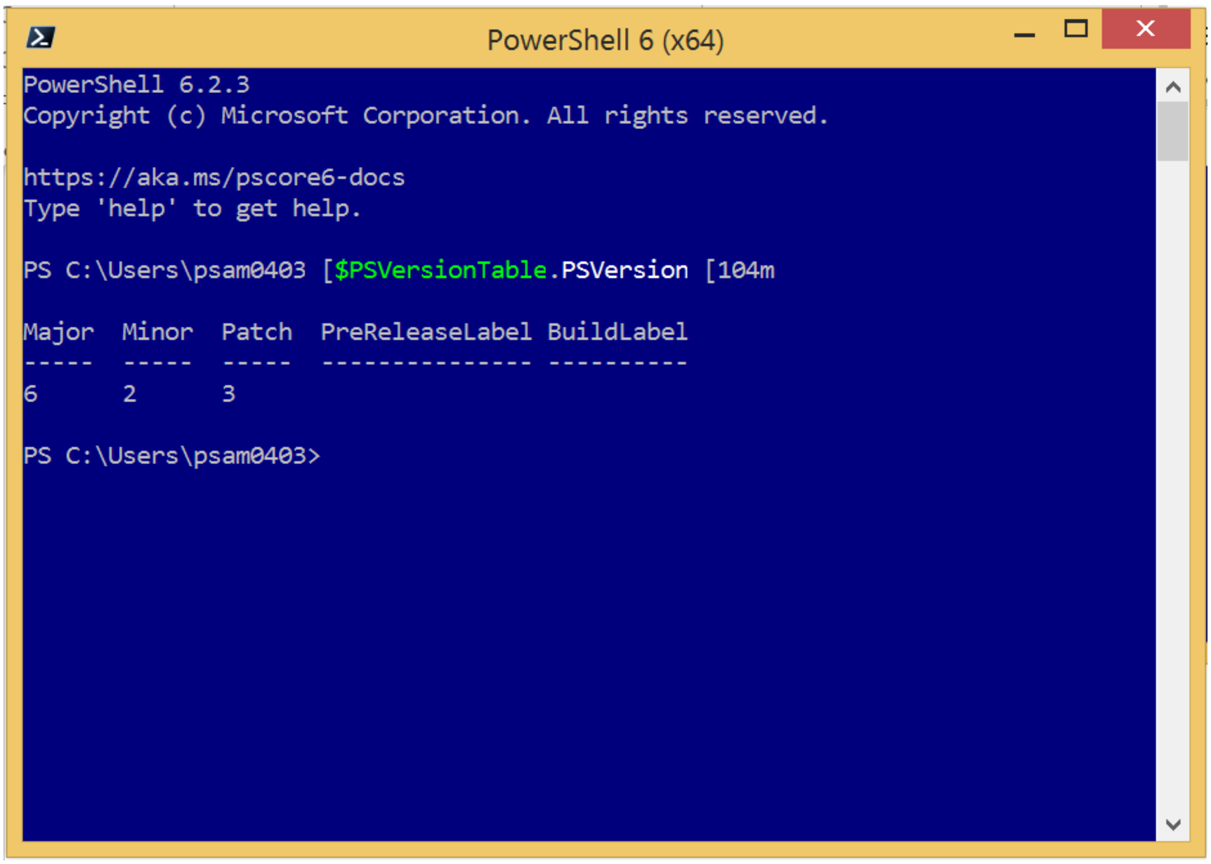
Select “PowerShell 6 (x64)” right click and “Run As Administrator”.



```
PowerShell 6.2.3
Copyright (c) Microsoft Corporation. All rights reserved.

https://aka.ms/pscore6-docs
Type 'help' to get help.

PS C:\Users\psam0403>
```

Run bellow command to check the version.

$PSVersionTable.PSVersion

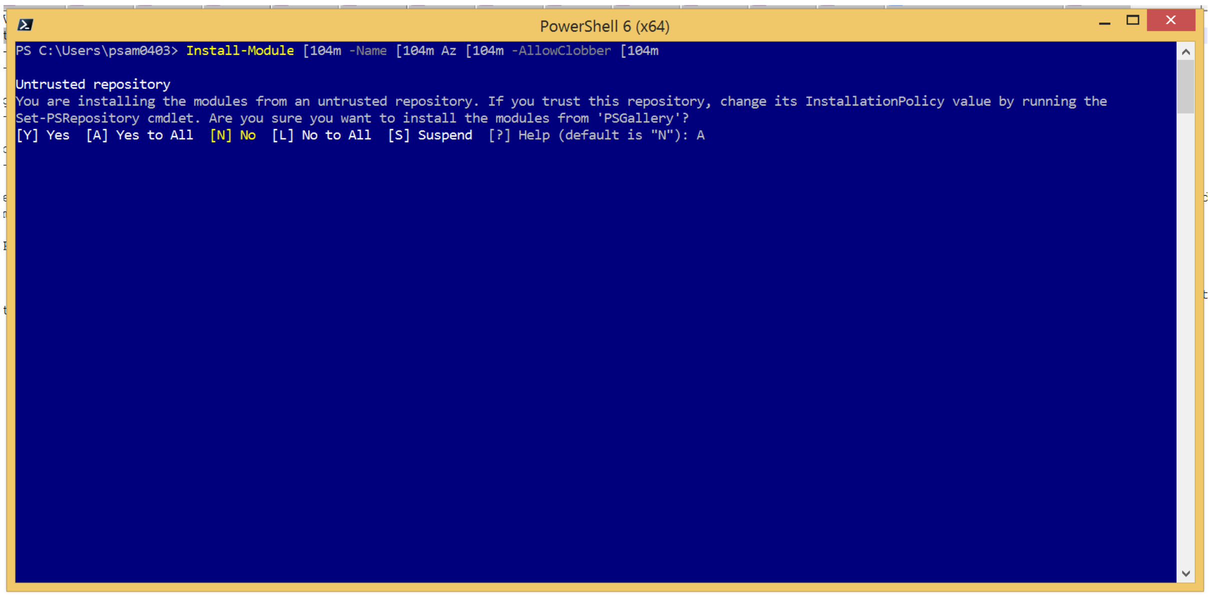


```
PowerShell 6.2.3
Copyright (c) Microsoft Corporation. All rights reserved.

https://aka.ms/pscore6-docs
Type 'help' to get help.

PS C:\Users\psam0403 [$PSVersionTable.PSVersion [104m

Major  Minor  Patch  PreReleaseLabel BuildLabel
-----  -----  -----  --------------- ----------
6      2      3

PS C:\Users\psam0403>
```

Run bellow command to Install Modules.

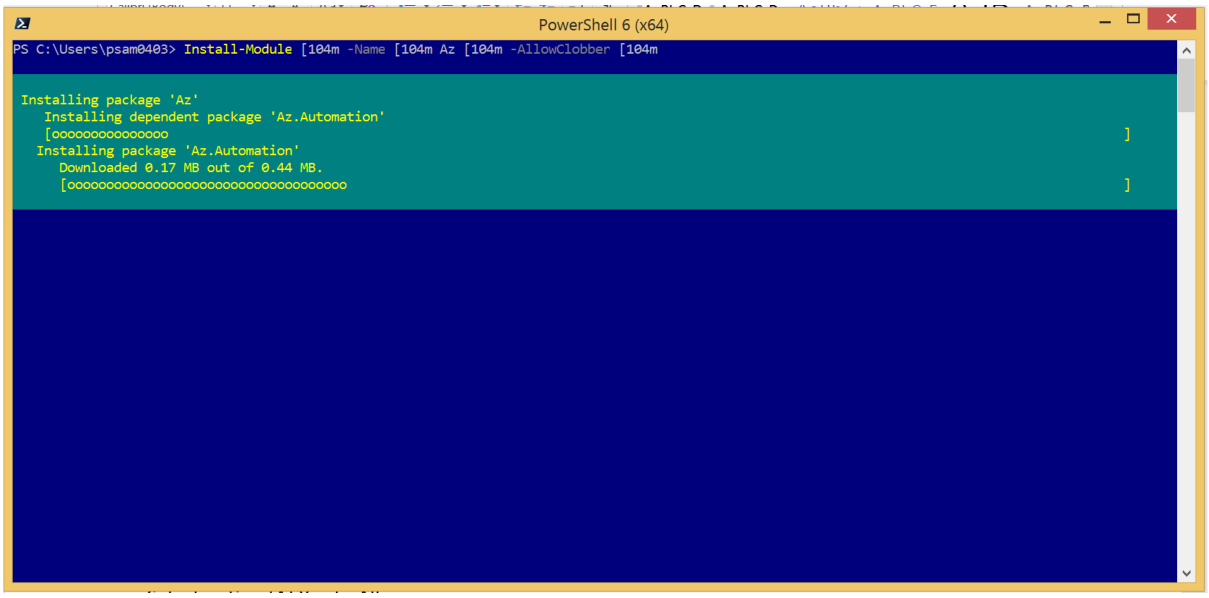
Install-Module -Name Az -AllowClobber

Select option [A] Yes to All



```
PS C:\Users\psam0403> Install-Module [104m -Name [104m Az [104m -AllowClobber [104m

Untrusted repository
You are installing the modules from an untrusted repository. If you trust this repository, change its InstallationPolicy value by running the
Set-PSRepository cmdlet. Are you sure you want to install the modules from 'PSGallery'?
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help (default is "N"): A
```

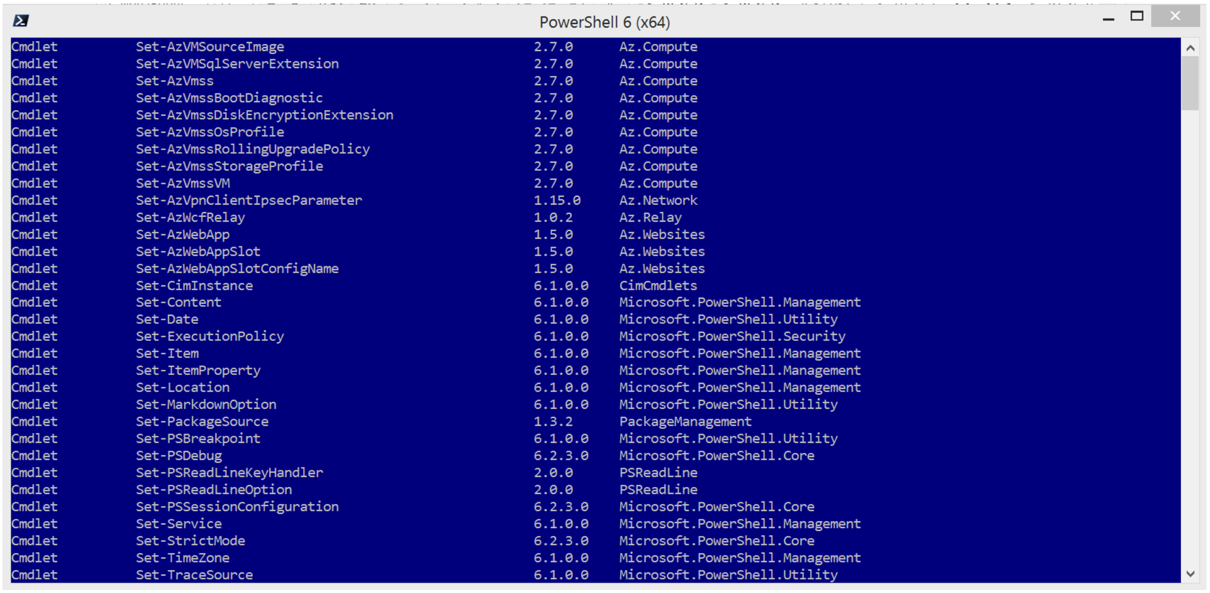
It will take bit of time to download all the modules.



```
PS C:\Users\psam0403> Install-Module [104m -Name [104m Az [104m -AllowClobber [104m

 Installing package 'Az'
    Installing dependent package 'Az.Automation'
    [ooooooooooooooo                                                                                             ]
  Installing package 'Az.Automation'
     Downloaded 0.17 MB out of 0.44 MB.
     [oooooooooooooooooooooooooooooooooooo                                                                        ]
```

Run bellow command again to generate a list of cmdlets, functions installed in your machine.

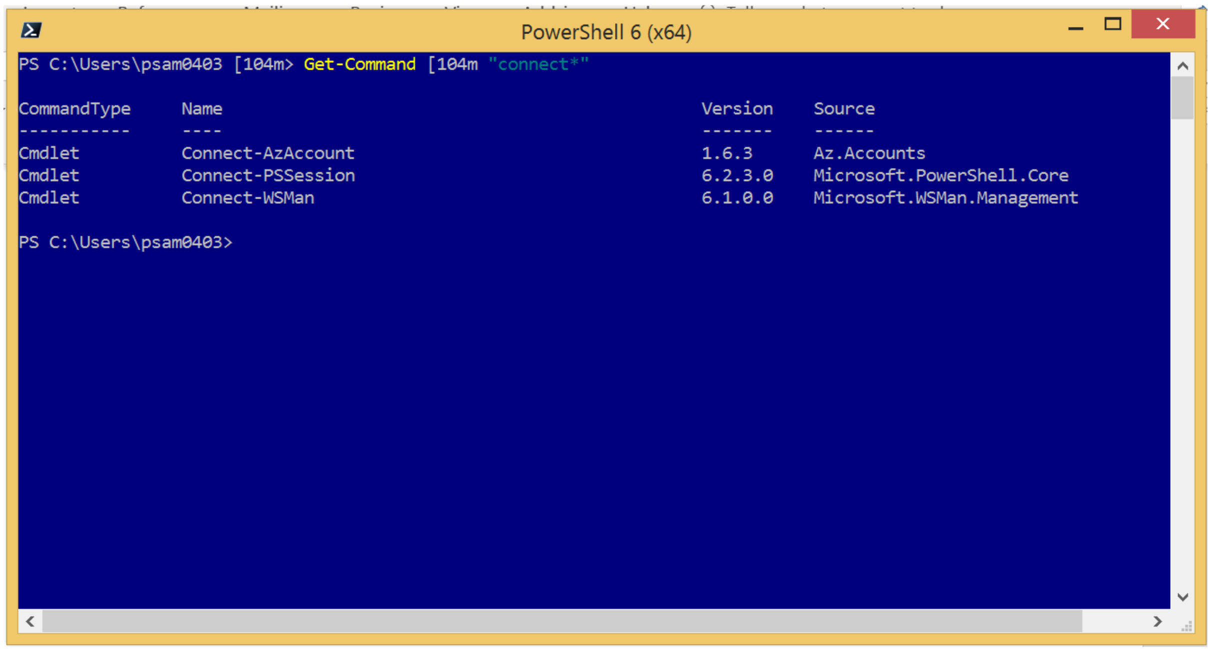
Get-Command



```
Cmdlet          Set-AzVMSourceImage                                 2.7.0      Az.Compute
Cmdlet          Set-AzVMSqlServerExtension                          2.7.0      Az.Compute
Cmdlet          Set-AzVmss                                          2.7.0      Az.Compute
Cmdlet          Set-AzVmssBootDiagnostic                            2.7.0      Az.Compute
Cmdlet          Set-AzVmssDiskEncryptionExtension                   2.7.0      Az.Compute
Cmdlet          Set-AzVmssOsProfile                                 2.7.0      Az.Compute
Cmdlet          Set-AzVmssRollingUpgradePolicy                      2.7.0      Az.Compute
Cmdlet          Set-AzVmssStorageProfile                            2.7.0      Az.Compute
Cmdlet          Set-AzVmssVM                                        2.7.0      Az.Compute
Cmdlet          Set-AzVpnClientIpsecParameter                       1.15.0     Az.Network
Cmdlet          Set-AzWcfRelay                                      1.0.2      Az.Relay
Cmdlet          Set-AzWebApp                                        1.5.0      Az.Websites
Cmdlet          Set-AzWebAppSlot                                    1.5.0      Az.Websites
Cmdlet          Set-AzWebAppSlotConfigName                          1.5.0      Az.Websites
Cmdlet          Set-CimInstance                                     6.1.0.0    CimCmdlets
Cmdlet          Set-Content                                         6.1.0.0    Microsoft.PowerShell.Management
Cmdlet          Set-Date                                            6.1.0.0    Microsoft.PowerShell.Utility
Cmdlet          Set-ExecutionPolicy                                 6.1.0.0    Microsoft.PowerShell.Security
Cmdlet          Set-Item                                            6.1.0.0    Microsoft.PowerShell.Management
Cmdlet          Set-ItemProperty                                    6.1.0.0    Microsoft.PowerShell.Management
Cmdlet          Set-Location                                        6.1.0.0    Microsoft.PowerShell.Management
Cmdlet          Set-MarkdownOption                                  6.1.0.0    Microsoft.PowerShell.Utility
Cmdlet          Set-PackageSource                                   1.3.2      PackageManagement
Cmdlet          Set-PSBreakpoint                                    6.1.0.0    Microsoft.PowerShell.Utility
Cmdlet          Set-PSDebug                                         6.2.3.0    Microsoft.PowerShell.Core
Cmdlet          Set-PSReadLineKeyHandler                            2.0.0      PSReadLine
Cmdlet          Set-PSReadLineOption                                2.0.0      PSReadLine
Cmdlet          Set-PSSessionConfiguration                          6.2.3.0    Microsoft.PowerShell.Core
Cmdlet          Set-Service                                         6.1.0.0    Microsoft.PowerShell.Management
Cmdlet          Set-StrictMode                                      6.2.3.0    Microsoft.PowerShell.Core
Cmdlet          Set-TimeZone                                        6.1.0.0    Microsoft.PowerShell.Management
Cmdlet          Set-TraceSource                                     6.1.0.0    Microsoft.PowerShell.Utility
```

Run bellow command again to generate a list of cmdlets, functions installed in your machine that starts with “connect”.

Get-Command "connect"*



```
PS C:\Users\psam0403 [104m> Get-Command [104m "connect*"

CommandType     Name                                               Version    Source
-----------     ----                                               -------    ------
Cmdlet          Connect-AzAccount                                  1.6.3      Az.Accounts
Cmdlet          Connect-PSSession                                  6.2.3.0    Microsoft.PowerShell.Core
Cmdlet          Connect-WSMan                                      6.1.0.0    Microsoft.WSMan.Management

PS C:\Users\psam0403>
```

Notice that we have a different list compared to the list we got earlier. That is because we installed PowerShell 6.2

Step 03: PowerShell Scripts

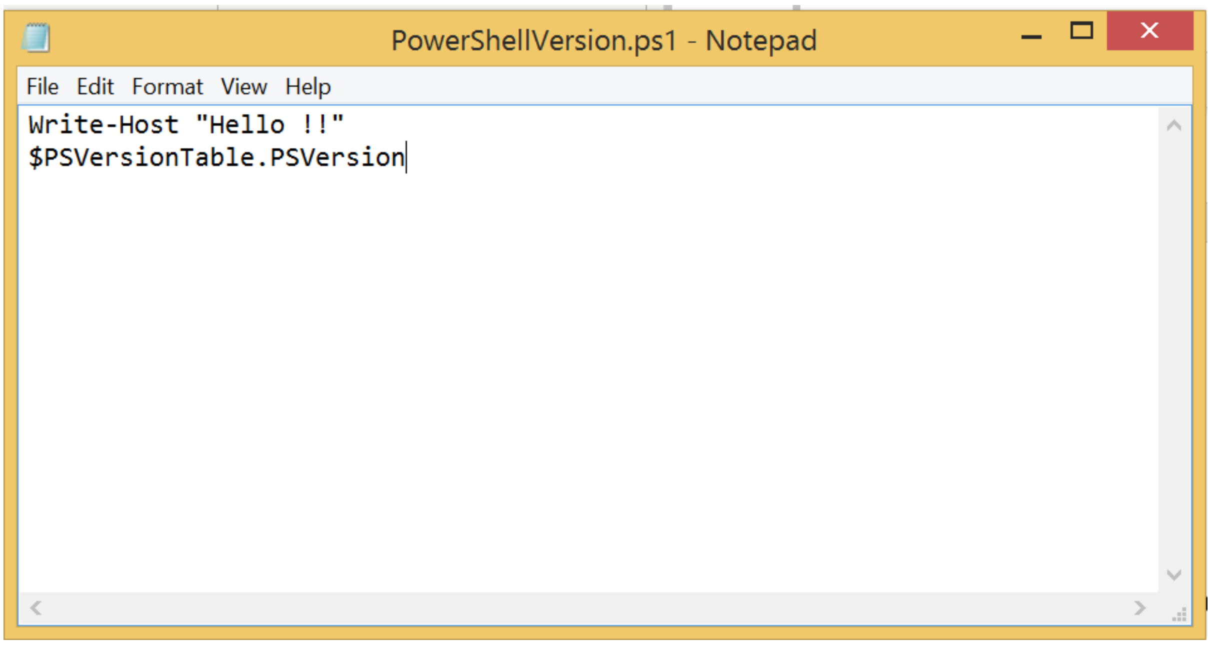
PowerShell scripts are store in .ps1 file. By default, you can't run a script by just double-clicking a file. This protects your system from accidental harm.

We are going to create a PowerShell Script file.

Create a .ps1 file with name “PowerShellVersion.ps1” on C:\PoweShell and copy bellow script to the file.

Write-Host "Hello !!"

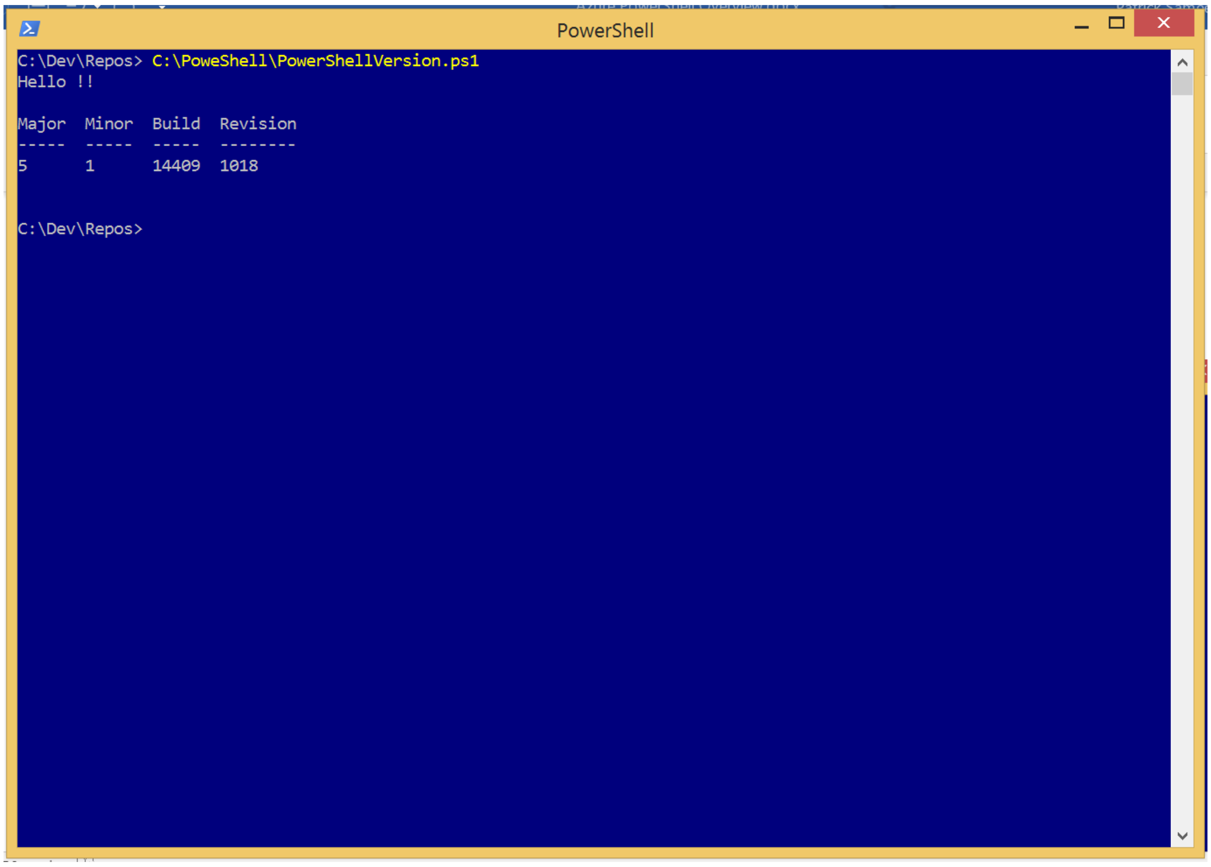
$PSVersionTable.PSVersion



```
Write-Host "Hello !!"
$PSVersionTable.PSVersion
```

Run bellow command on PowerShell.

C:\PoweShell\PowerShellVersion.ps1



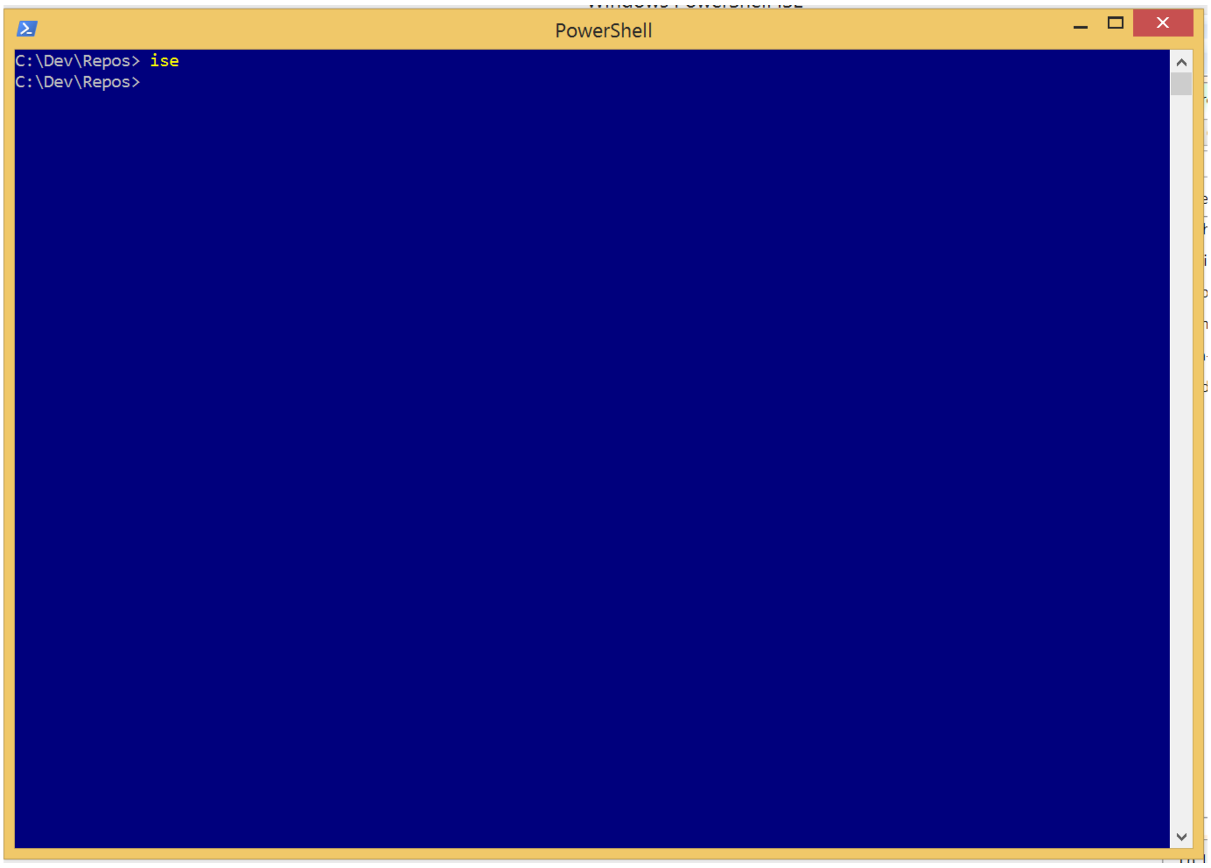
```
C:\Dev\Repos> C:\PoweShell\PowerShellVersion.ps1
Hello !!

Major  Minor  Build  Revision
-----  -----  -----  --------
5      1      14409  1018


C:\Dev\Repos>
```

Step 04: PowerShell ISE

The Windows PowerShell Integrated Scripting Environment (ISE) is the default editor for Windows PowerShell. In this ISE, you can run commands, writer test, and debug scripts in an in a window base GUI environment.

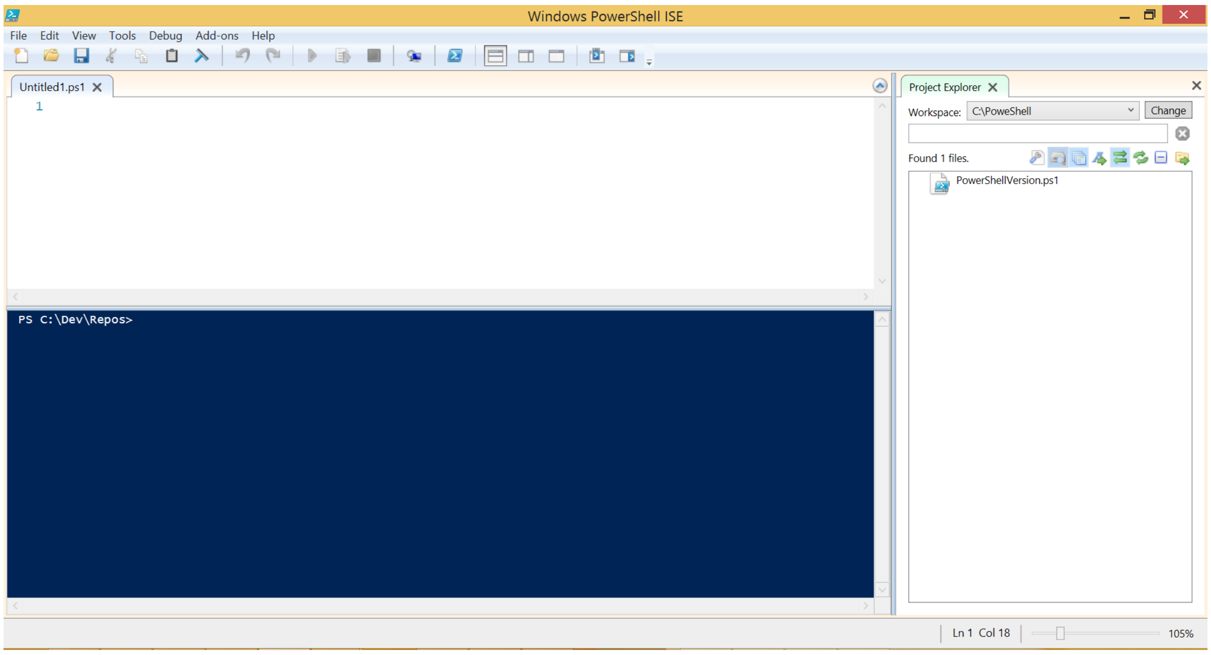
Run bellow command to open PowerShell ISE.

ise



```
C:\Dev\Repos> ise
C:\Dev\Repos>
```

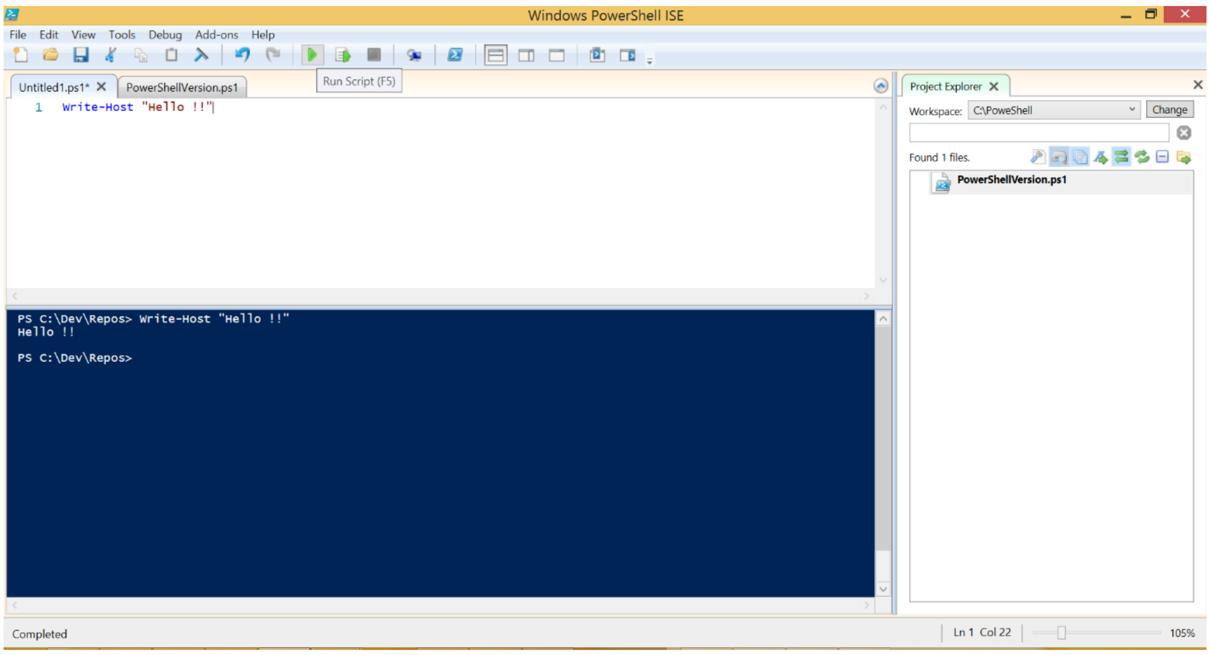
It will open Windows PowerShell ISE.



```
PS C:\Dev\Repos>
```

Add bellow command on the new blank window and Click Run Script (F5) button.

Write-Host "Hello !!"

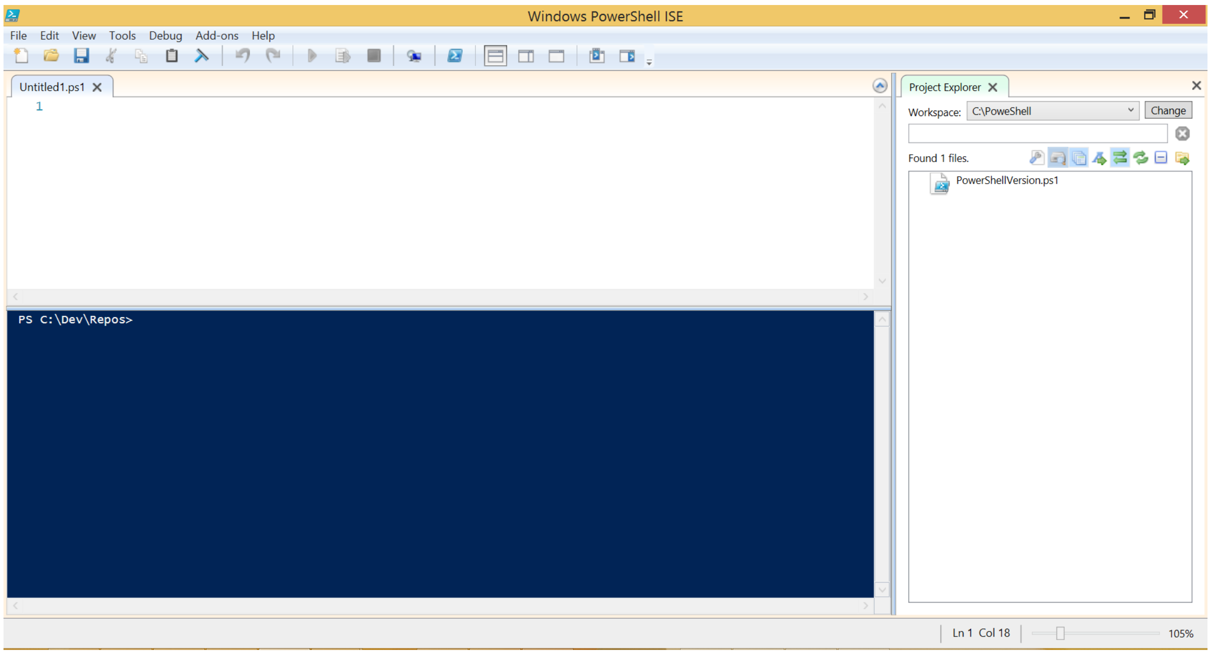


```
Write-Host "Hello !!"
```

```
PS C:\Dev\Repos> Write-Host "Hello !!"
Hello !!

PS C:\Dev\Repos>
```

Through Project Explorer we can set a folder location. Then it will list all the .ps1 files under the selected folder.

We'll set the *C:\PoweShell* as the Workspace. It will list the PowerShellVersion.ps1 file under that folder location.



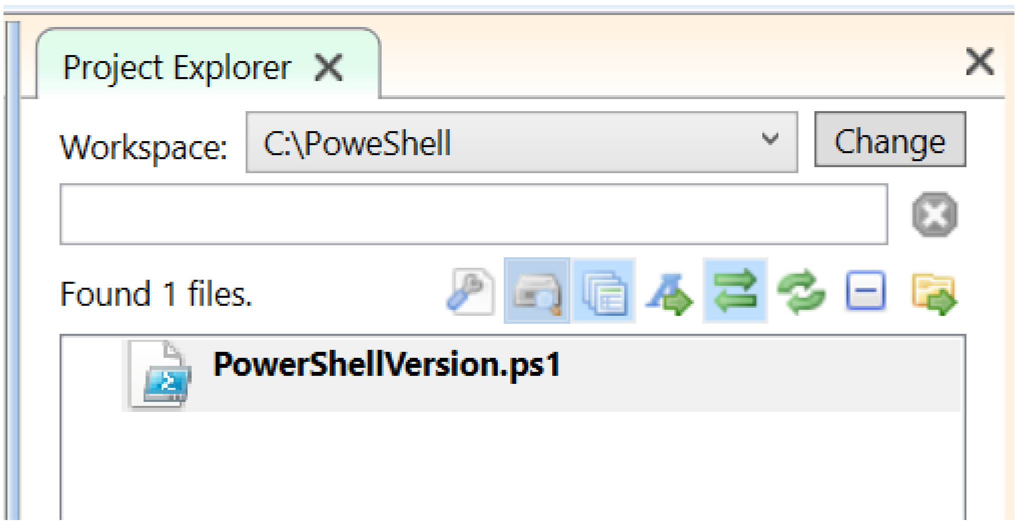
Workspace: C:\PoweShell

Found 1 files.

PowerShellVersion.ps1

```
PS C:\Dev\Repos>
```

Double click on PowerShellVersion.ps1

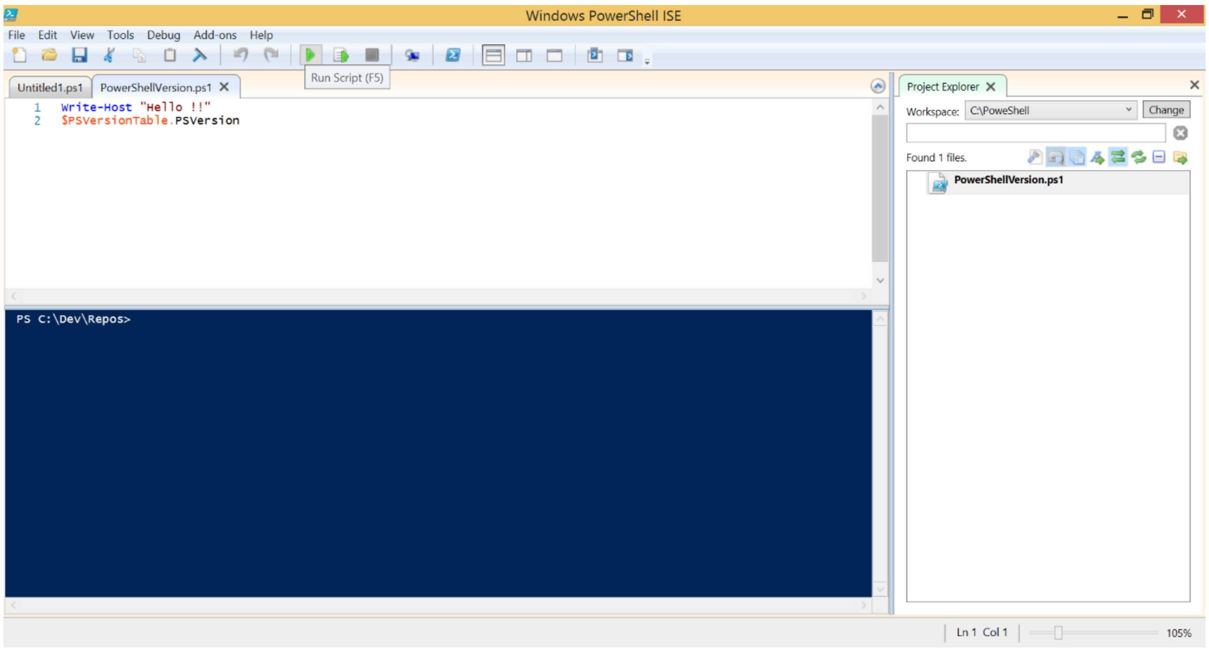


Workspace: C:\PoweShell

Found 1 files.

PowerShellVersion.ps1

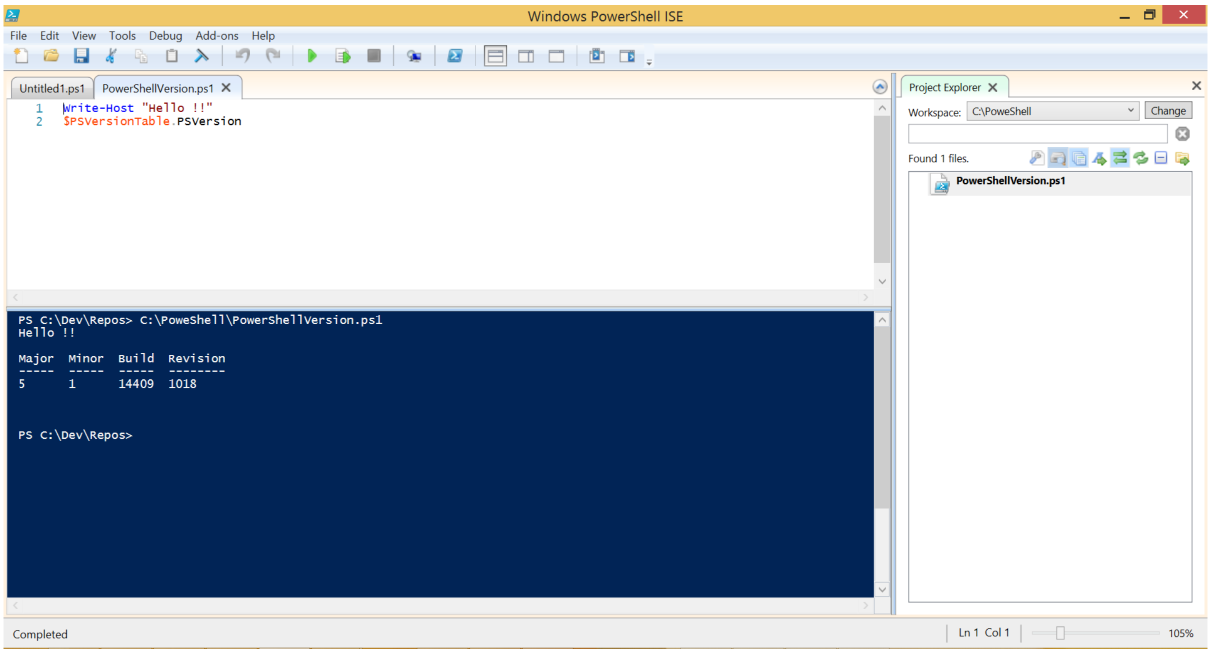
It will open the PowerShellVersion.ps1 on a different tab.



```
Write-Host "Hello !!"
$PSVersionTable.PSVersion
```

```
PS C:\Dev\Repos>
```

Click Run Script (F5) button.



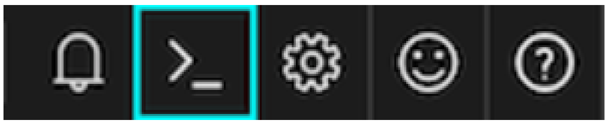
```
Write-Host "Hello !!"
$PSVersionTable.PSVersion
```

```
PS C:\Dev\Repos> C:\PoweShell\PowerShellVersion.ps1
Hello !!

Major  Minor  Build  Revision
-----  -----  -----  --------
5      1      14409  1018


PS C:\Dev\Repos>
```

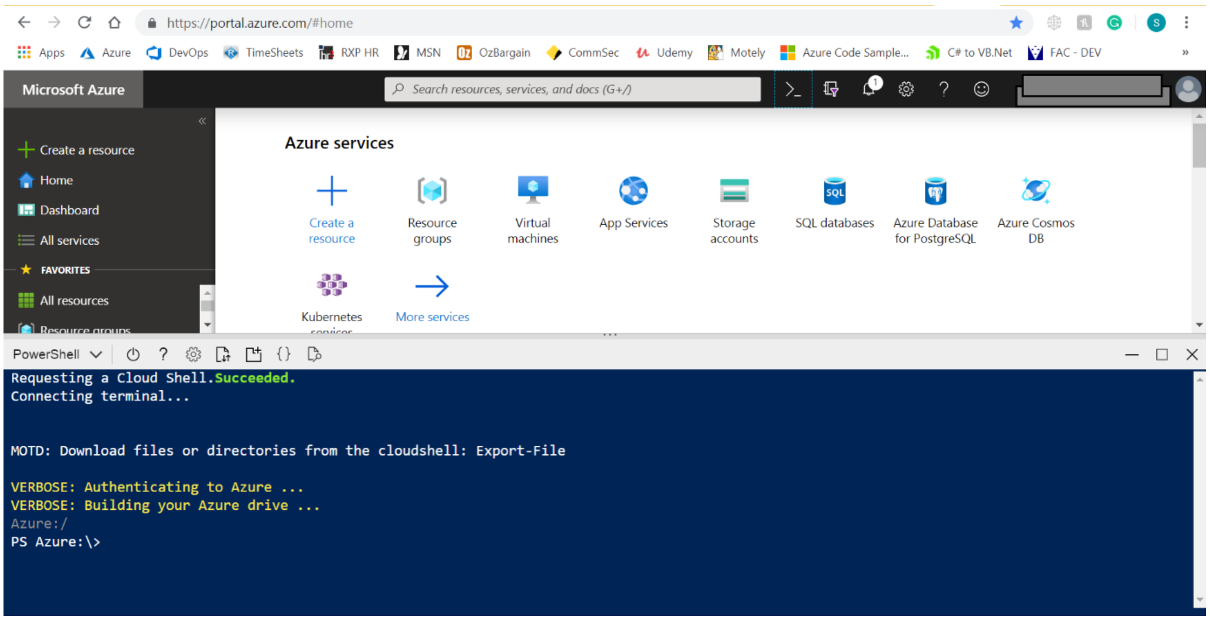
<u>Step 05: Cloud Shell</u>

Azure Cloud Shell is an interactive, authenticated, browser-accessible shell for managing Azure resources.

You can launch Cloud Shell by Clicking “>_” icon on Azure Portal.



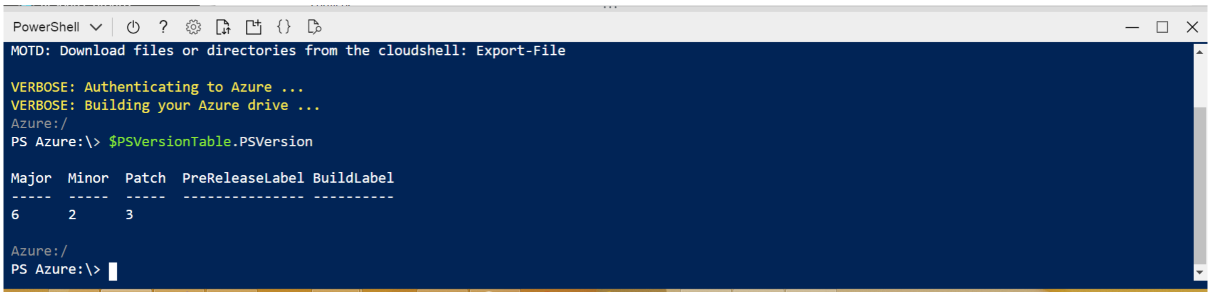
It will open bellow window.



```
Requesting a Cloud Shell.Succeeded.
Connecting terminal...


MOTD: Download files or directories from the cloudshell: Export-File

VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...
Azure:/
PS Azure:\>
```

Run bellow command to check the version.

$PSVersionTable.PSVersion

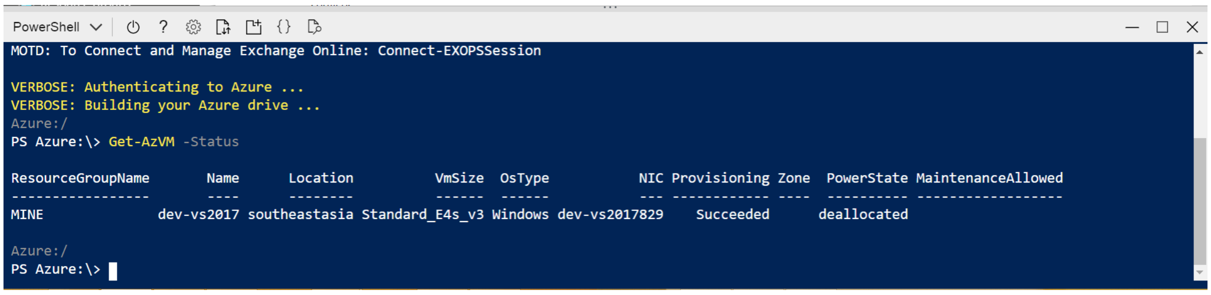


PowerShell

```
MOTD: Download files or directories from the cloudshell: Export-File

VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...
Azure:/
PS Azure:\> $PSVersionTable.PSVersion

Major  Minor  Patch  PreReleaseLabel BuildLabel
-----  -----  -----  --------------- ----------
6      2      3

Azure:/
PS Azure:\>
```

Run bellow command to check the status of the VM's

Get-AzVM -Status



PowerShell

```
MOTD: To Connect and Manage Exchange Online: Connect-EXOPSSession

VERBOSE: Authenticating to Azure ...
VERBOSE: Building your Azure drive ...
Azure:/
PS Azure:\> Get-AzVM -Status

ResourceGroupName       Name      Location          VmSize  OsType            NIC Provisioning Zone  PowerState MaintenanceAllowed
-----------------       ----      --------          ------  ------            --- ------------ ----  ---------- ------------------
MINE              dev-vs2017 southeastasia Standard_E4s_v3 Windows dev-vs2017829    Succeeded      deallocated

Azure:/
PS Azure:\>
```

Patrick Sameera Jayalath