



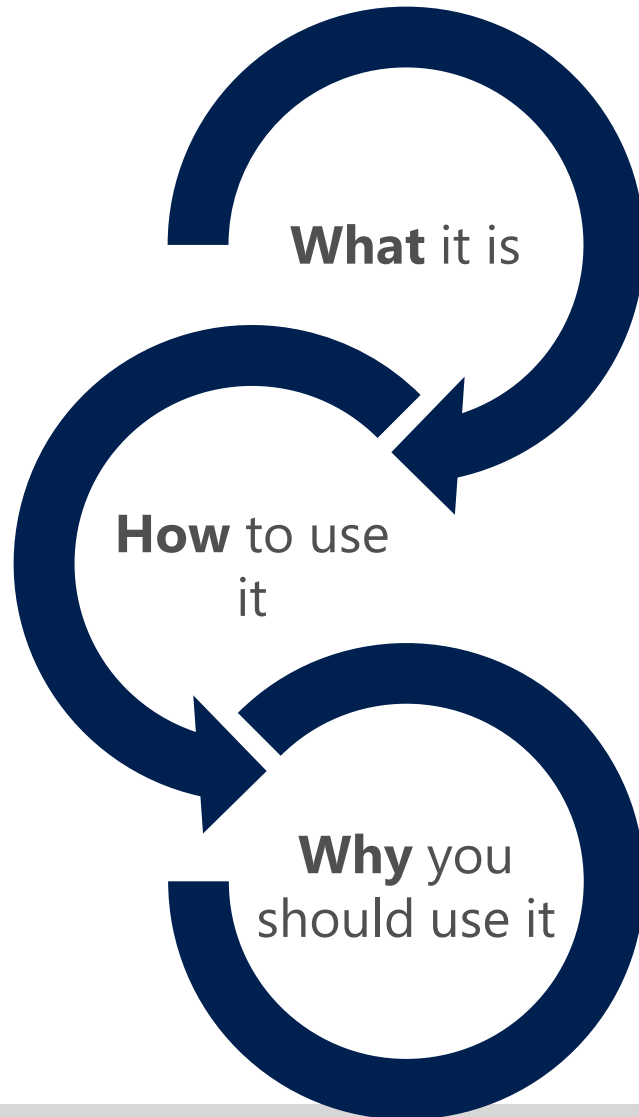
A black and white portrait of Mark Warneke, a young man with dark, wavy hair, smiling at the camera. He is wearing a dark blazer over a light-colored collared shirt.

Power of PowerShell w/ Amazing Azure

Mark Warneke
Premier Field Engineer
Business Application Domain – EMEA
Microsoft Services

<http://aka.ms/mark/psna>

Agenda



1. PowerShell

2. Azure

3. PowerShell w/ Azure

PowerShell

What

task automation

configuration management

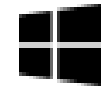
command-line shell

scripting language

built on the .NET Framework

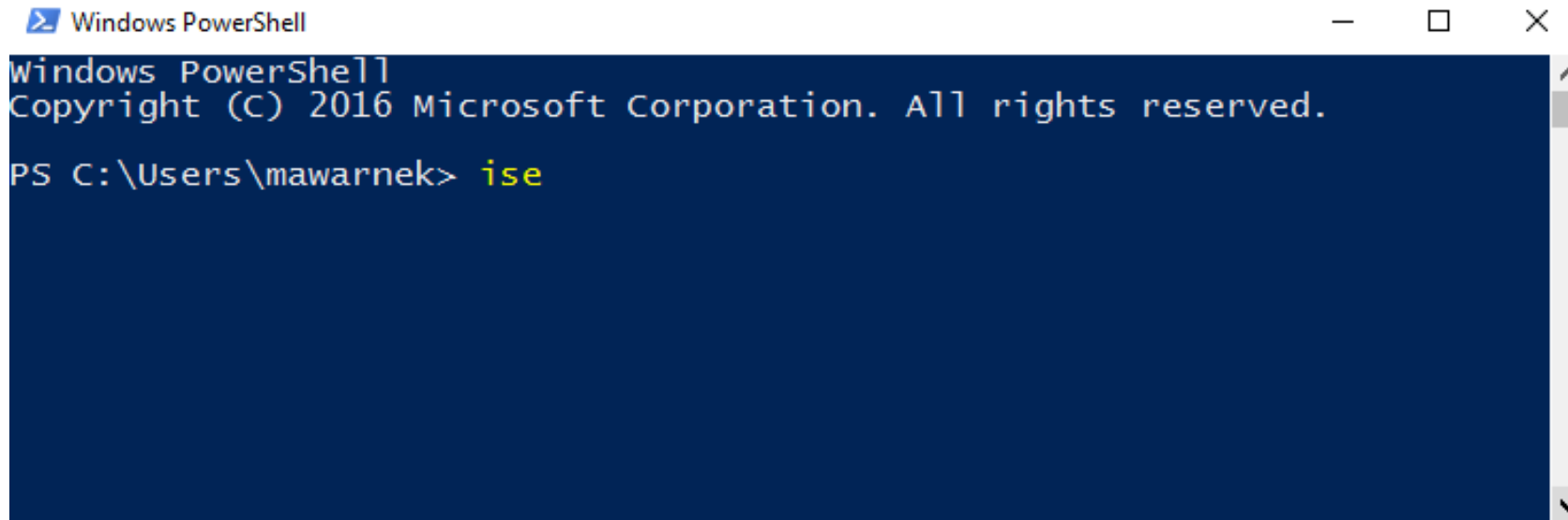


How



+ R

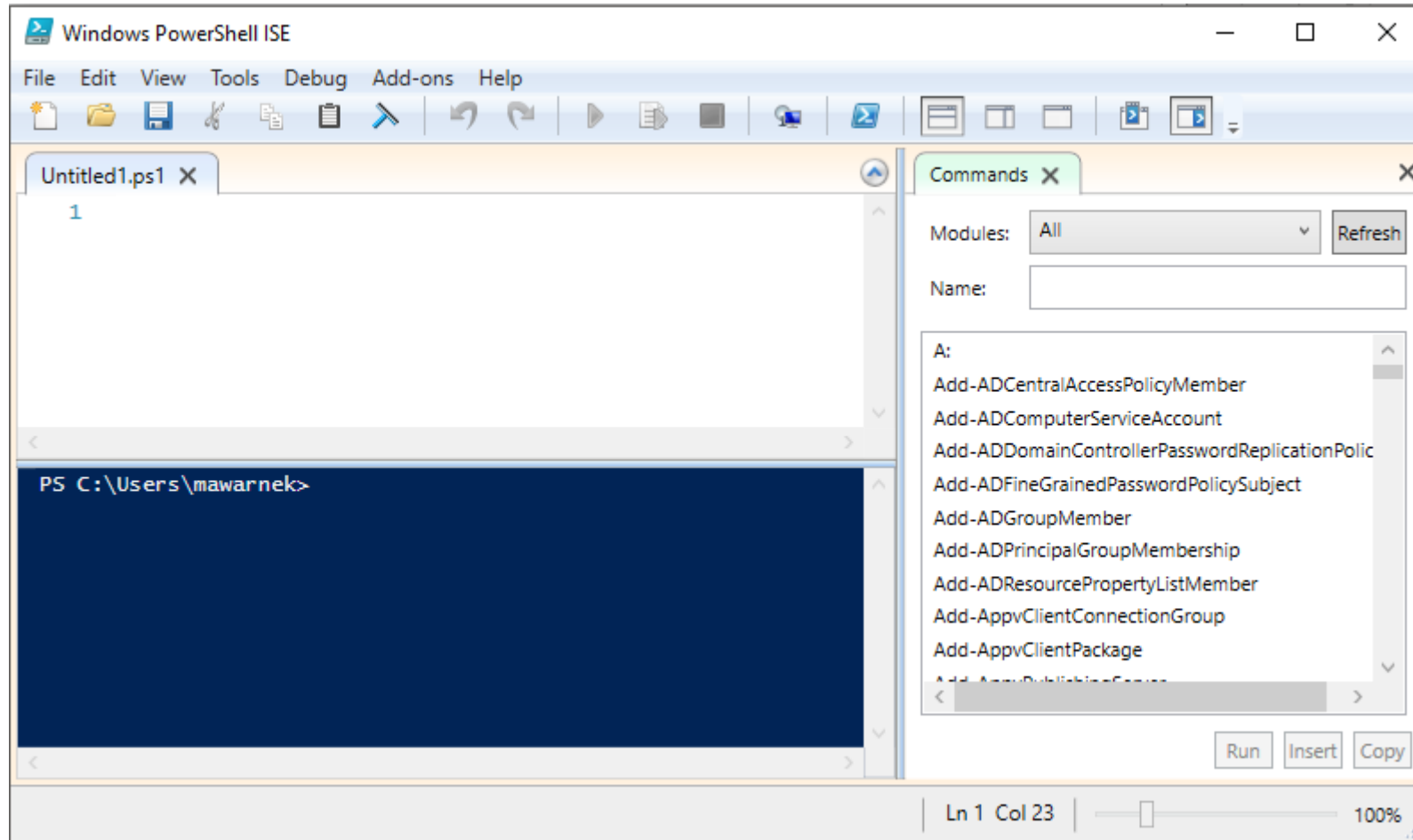
type “PowerShell”

A screenshot of a Windows PowerShell console window. The title bar shows a blue icon and the text "Windows PowerShell". The window has standard Windows window controls (minimize, maximize, close) on the right. The console background is dark blue. The text displayed is: "Windows PowerShell", "Copyright (C) 2016 Microsoft Corporation. All rights reserved.", and "PS C:\Users\mawarnek> ise". The "ise" command is highlighted in yellow. A vertical scrollbar is visible on the right side of the console area.

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

PS C:\Users\mawarnek> ise
```

PowerShell Integrated Scripting Environment



Scripting
Commands
Save

Visual Studio Code

The screenshot displays the Visual Studio Code editor interface. On the left, the **EXTENSIONS** sidebar is open, showing the **INSTALLED** section with two extensions: **PowerShell 15.1** by Microsoft and **XML Tools 1.9.2** by Josh Johnson. The main editor area shows a file named **functionTemplate.ps1** with the following PowerShell code:

```
31     SupportsPaging = $False,  
32     SupportsShouldProcess = $False,  
33     PositionalBinding = $True  
34 ]]  
35  
36 [OutputType([PSCustomObject])]  
37 param(  
38     [parameter(  
39         Mandatory = $true,  
40         Position = 0,  
41         ParameterSetName = "ComputerName",  
42         ValueFromPipeline = $true,  
43         ValueFromPipelineByPropertyName = $true,  
44         HelpMessage = "Enter one or more computer names separated by commas."  
45     )]  
46 )
```

Below the editor, the **TERMINAL** tab is active, showing the **PowerShell Integrated Console** with the prompt **PS C:\tmp\plaster>**. The status bar at the bottom indicates the current file is **master***, the cursor is at **Ln 37, Col 11**, and the file encoding is **UTF-8** with **CRLF** line endings. The PowerShell version is **5.1**.

Syntax

Verb-Noun

Piping "|"

Get | Do | Out methodology

.NET Framework



Syntax

Verb-Noun

do Something
"dash"
with Something

"Get-"
Command



Piping

putting an output
as an input for another command



Demo

Why



fast



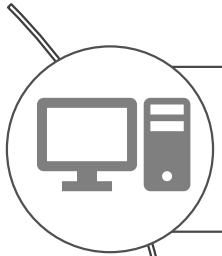
sharable



reliable

Azure

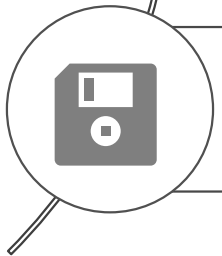
What



IaaS



PaaS

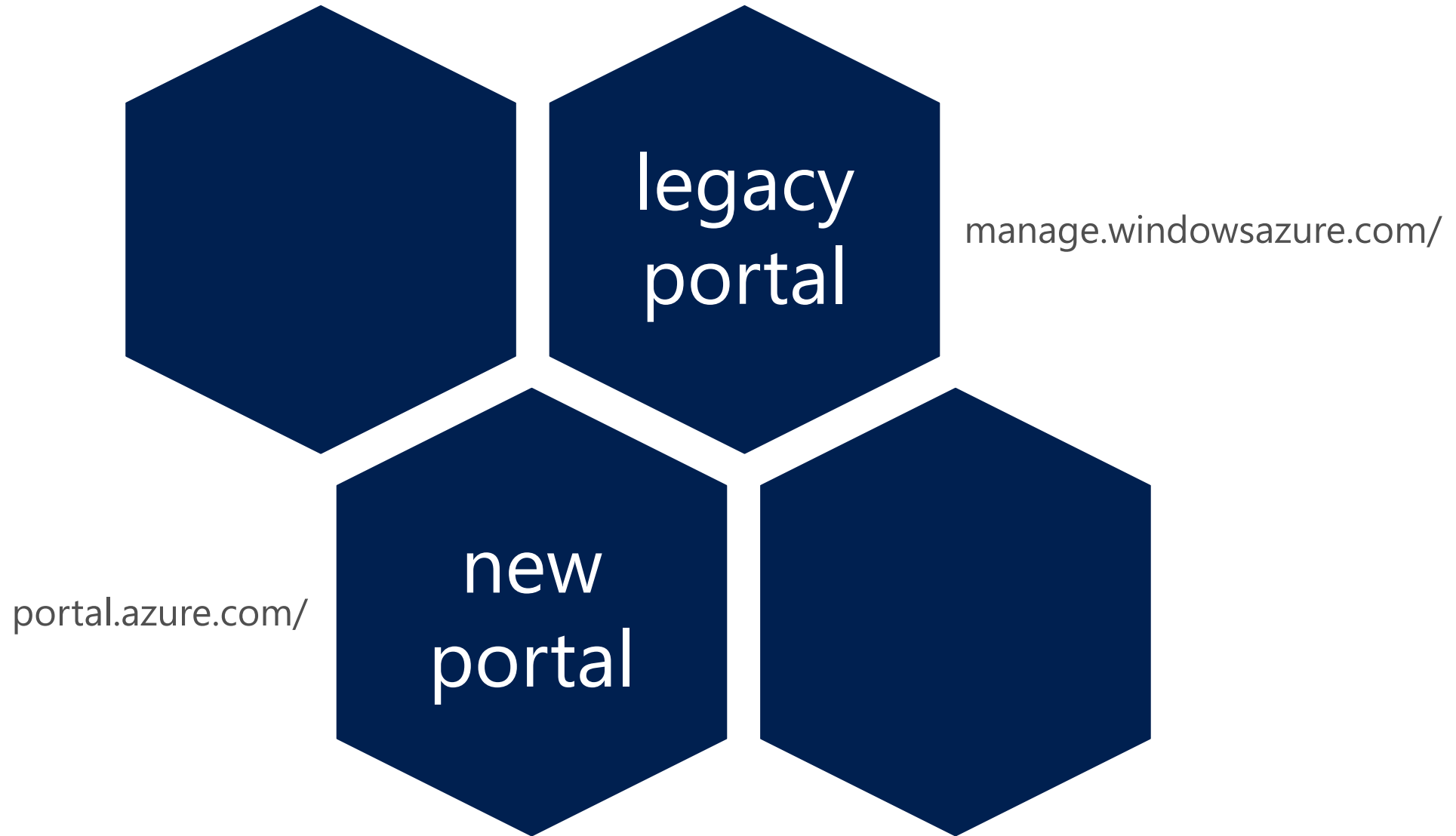


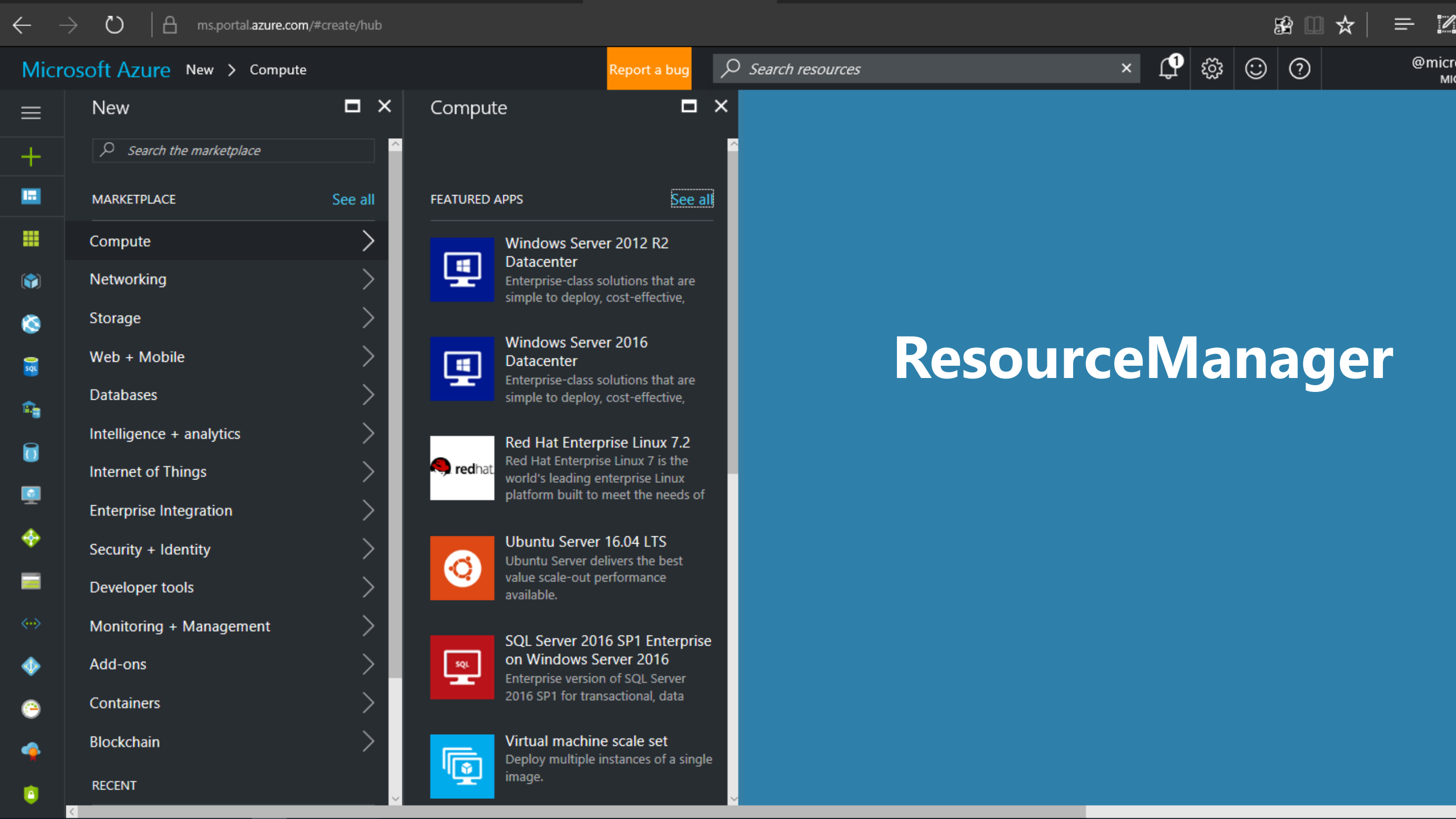
SaaS

*as a Service





How








- New
- Search the marketplace
- MARKETPLACE See all
- Compute >
- Networking >
- Storage >
- Web + Mobile >
- Databases >
- Intelligence + analytics >
- Internet of Things >
- Enterprise Integration >
- Security + Identity >
- Developer tools >
- Monitoring + Management >
- Add-ons >
- Containers >
- Blockchain >
- RECENT


- Compute
- FEATURED APPS See all
- 

Windows Server 2012 R2 Datacenter
Enterprise-class solutions that are simple to deploy, cost-effective,
- 

Windows Server 2016 Datacenter
Enterprise-class solutions that are simple to deploy, cost-effective,
- 

Red Hat Enterprise Linux 7.2
Red Hat Enterprise Linux 7 is the world's leading enterprise Linux platform built to meet the needs of
- 

Ubuntu Server 16.04 LTS
Ubuntu Server delivers the best value scale-out performance available.
- 

SQL Server 2016 SP1 Enterprise on Windows Server 2016
Enterprise version of SQL Server 2016 SP1 for transactional, data
- 

Virtual machine scale set
Deploy multiple instances of a single image.

ResourceManager

Why

✓ computing & storage

✓ development

✓ lab-environment



Leverage the power of PowerShell
with the amazingness of Azure

What



Use PowerShell to manage Azure

Demo



Azure

<https://aka.ms/mark/kahoot/psna>



PowerShell

Why



shareable

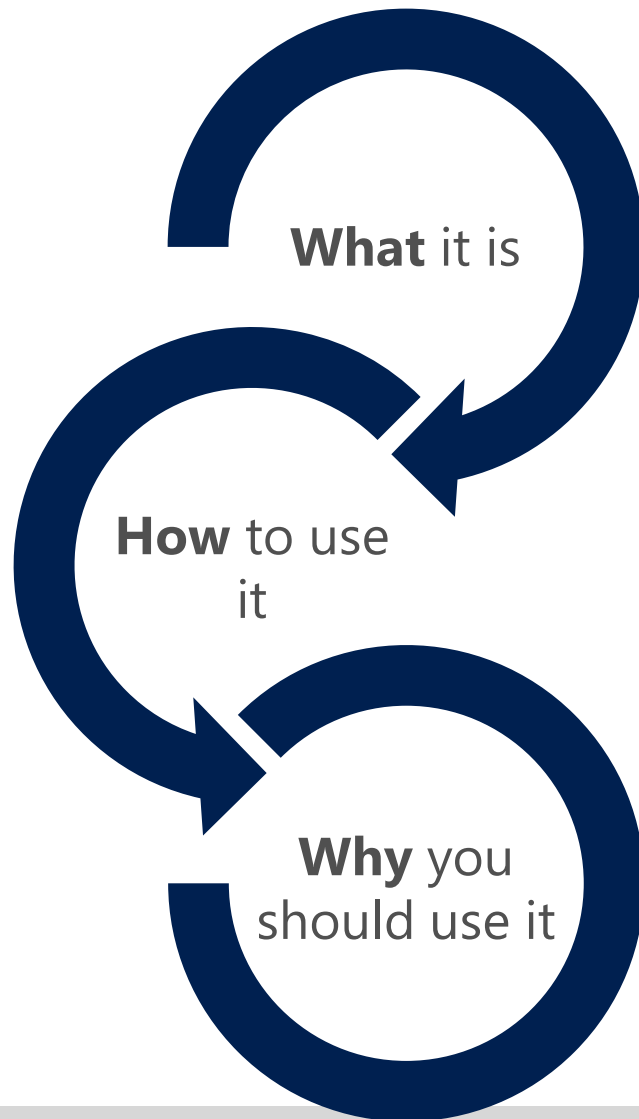


fast



reliable

Summary - PowerShell w/ Azure



Increase productivity,
efficiency and effectives



Call To Action

Remoting with PowerShell
Scripting with PowerShell

Manage Azure w/ Unix

aka.ms/mark/psna/voice

let me know what you think!



Resources

- <https://azure.microsoft.com/en-us/downloads/>
- <https://docs.microsoft.com/en-us/powershell/azureps-cmdlets-docs/>
 - # Install the Azure Resource Manager modules from the PowerShell Gallery
- Install-Module AzureRM
 - # Install Azure Resource Manager on Linux / Mac
- <https://github.com/Azure/azure-cli>
 - # Local Git Deployment to Azure App Service
- <https://docs.microsoft.com/en-us/azure/app-service-web/app-service-deploy-local-git>
- <https://msdn.microsoft.com/en-us/powershell/scripting/core-powershell/running-remote-commands>

