

Welcome to Azure 101 automation tips

- **Azure** – is a cloud computing service created by Microsoft for building, testing, deploying, and managing applications and services through a global network of Microsoft-managed data centers. By the end of this session, we will become familiar how to provision Azure resources with a breeze.



Northern VA CodeCamp Fall 2017 is sponsored by



Hello everyone!

Elkhan Yusubov (MCT, MCSA, MCSD)

FEI Systems – a local healthcare innovation company

Let's START!



@ElYusubov



ElkhanYusubov



GitHub ElYusubov

What we will cover

What is Azure

Azure portal and resource provisioning

Demo – getting around portal

Automation tools 101

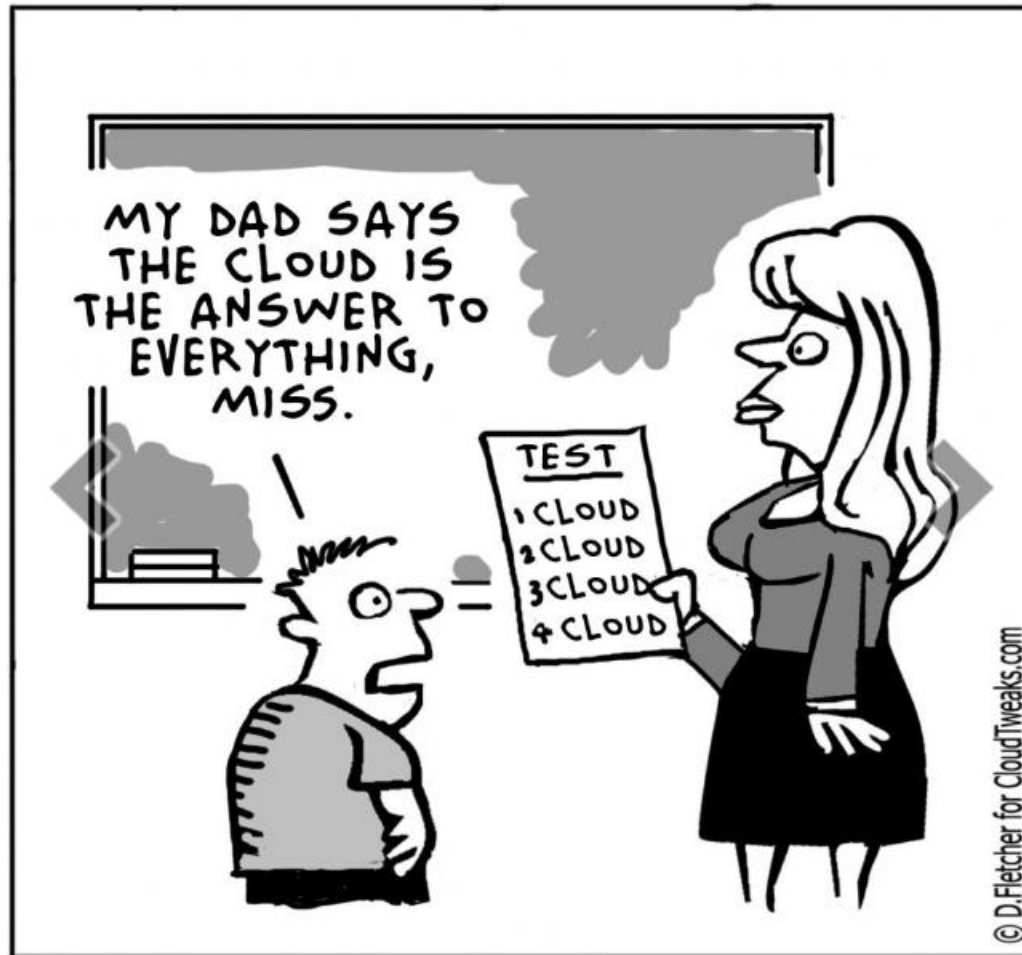
Demo – tool and editors

More demos

What is Azure

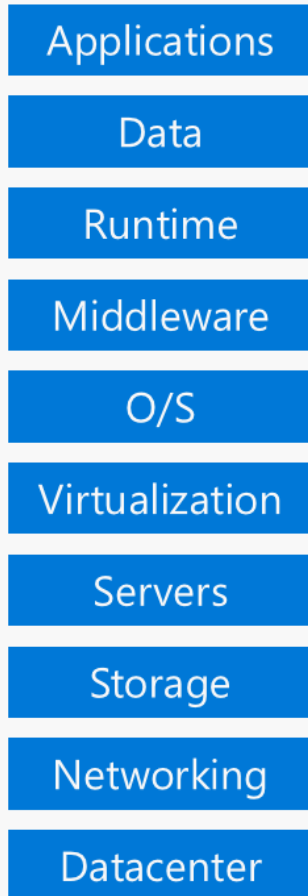
- What is cloud computing
- What is Azure offering
- Azure environment walkthrough
- Subscription, usage and billing
- Setting a free trial account

What is Cloud

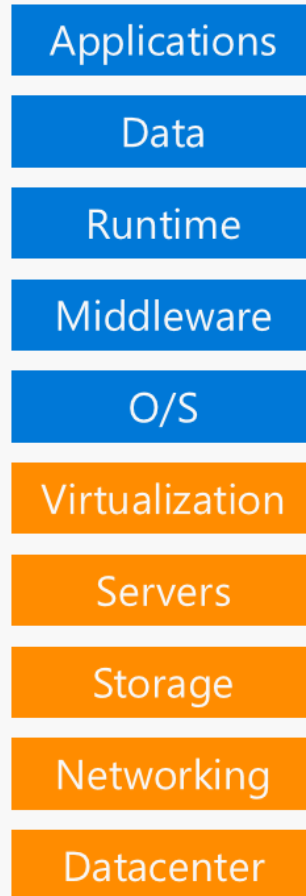


Back to known IaaS - PaaS - SaaS models

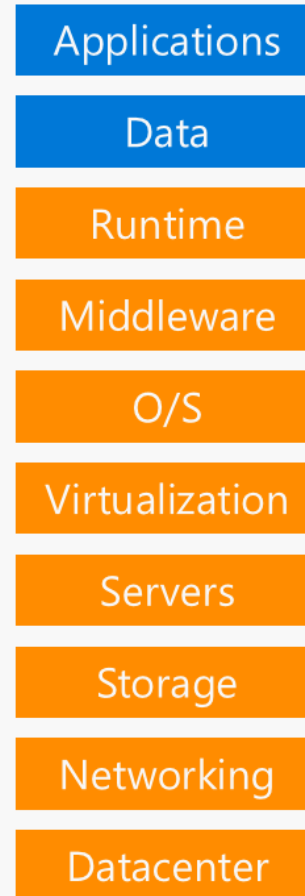
On Premises



Infrastructure (as a Service)



Platform (as a Service)



Software (as a Service)



■ Customer manages ■ Microsoft manages

Azure management models

- Azure Service Management (classic):
 - Azure classic portal and Azure portal
 - Provides limited RBAC support
- Azure Resource Manager:
 - Is based on the concept of Resource Groups
 - Supports tagging
 - Supports template-based deployments
 - Provides full RBAC support
 - Is not available via Azure classic portal


Demo: Azure environment walkthrough

- Azure portal
 - <https://portal.azure.com>
- Azure classic portal
 - <https://manage.windowsazure.com>
- Azure Cloud Terminology
 - Dashboard, customization, search, resource groups, blades


Setting a free trial account

- Start free with \$200 in credit
- Try out any combination of Azure services for 30 days
- Credit card information used for identity verification
- You'll **never** be charged unless you choose to subscribe


Create your free Azure account today



Get \$200 free credit
Start free with \$200 in credit, and keep going with free options.



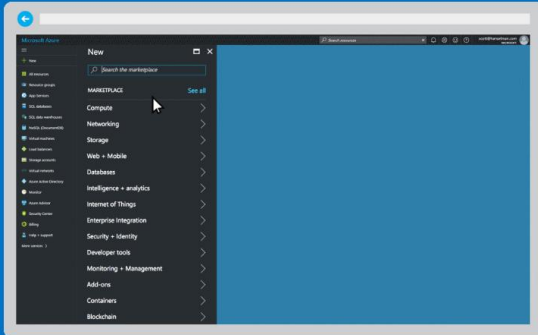
Try any Azure services
Explore our cloud by trying out any combination of Azure services for 30 days.



Pay nothing at the end
We use your credit card information for identity verification, but you'll never be charged unless you choose to subscribe.

[Start free >](#)

[Or buy now >](#)



Azure Automation tools

- Azure PowerShell module
 - Scripts manage Azure resources from Win OS
 - Provides cmdlets that use an ARM model for managing your Azure resources.
- Azure CLI 2.0
 - Cross platform command line interface
 - Runs script on Windows, Linux, iOS
- Azure Cloud Shell – a browser-based shell experience in the cloud that's maintained by Microsoft

Azure PowerShell module

Azure Resource Management:

Authenticate

Login-AzureRmAccount

Select subscription (if more than one exists):

Get-AzureRmSubscription

Select-AzureRmSubscription

Apps »

Windows PowerShell

Windows PowerShell ISE

Microsoft Power BI

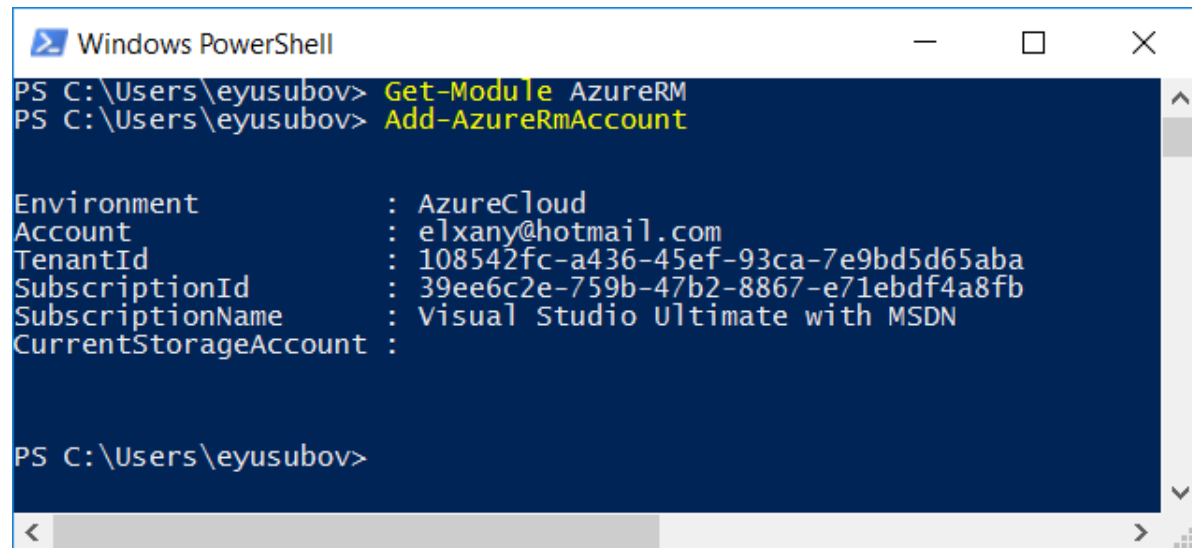
Search suggestions »

power - See web results

Documents (4+) »

Folders (2+) »

power|



```
Windows PowerShell
PS C:\Users\eyusubov> Get-Module AzureRM
PS C:\Users\eyusubov> Add-AzureRmAccount

Environment      : AzureCloud
Account          : elxany@hotmail.com
TenantId         : 108542fc-a436-45ef-93ca-7e9bd5d65aba
SubscriptionId   : 39ee6c2e-759b-47b2-8867-e71ebdf4a8fb
SubscriptionName : Visual Studio Ultimate with MSDN
CurrentStorageAccount :
```

Demo – PowerShell basics

- PowerShell with Azure session
- Query Azure resources & format view
- Windows PowerShell ISE step-by-step
- Provision a resource group with a storage
- Get-Help with PowerShell cmdlets

Demo - CLI – Cloud Shell

- Login session with Azure CLI 2.0
- Demo CLI query and resource management
- What is Cloud Shell (preview)
- Demo Cloud Shell capabilities
- Demo
- Demo

Summary

What is Azure

Azure portal and resource provisioning

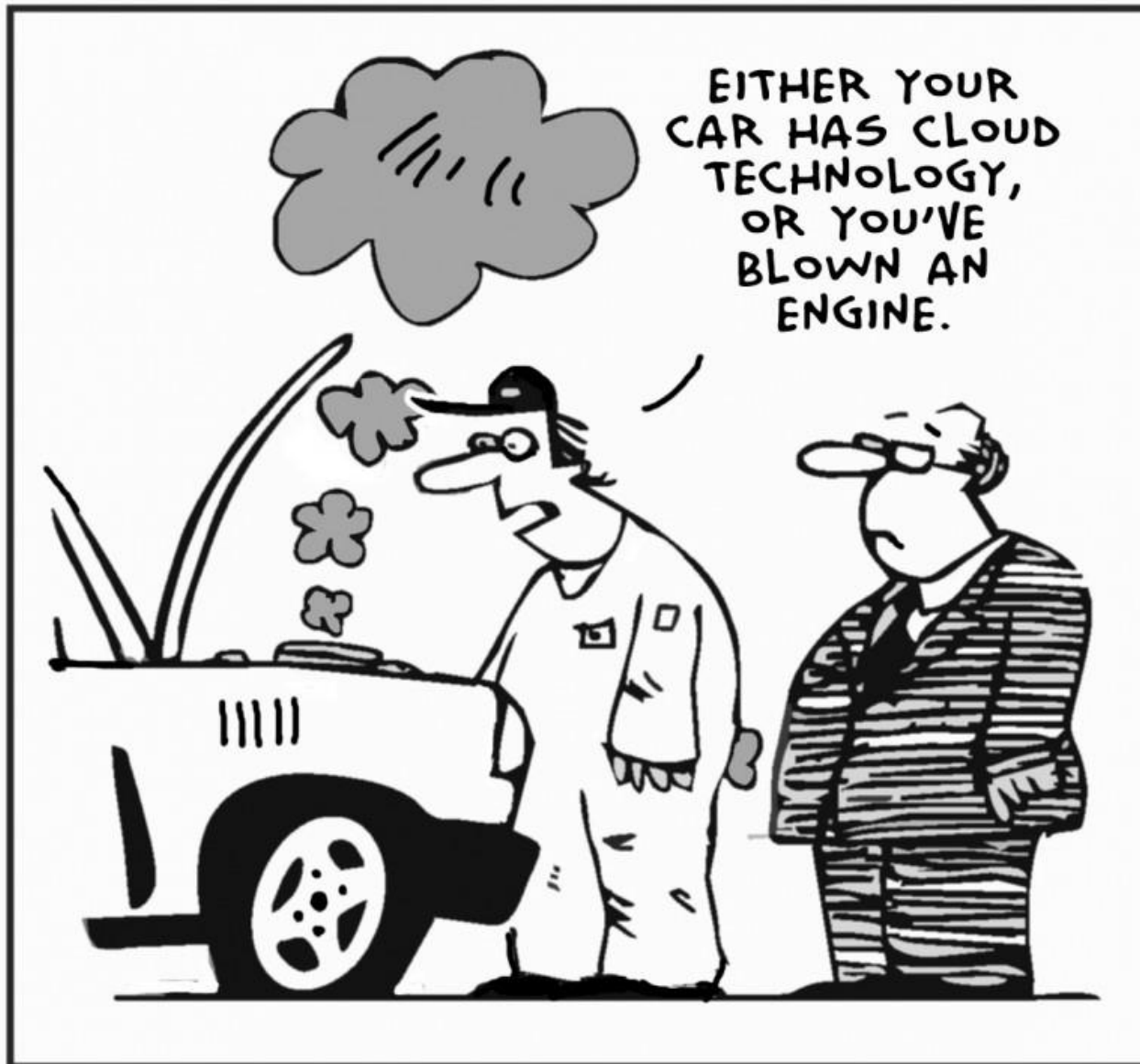
Demo – getting around portal

Automation tools 101

Demo – tool and editors

More demos

What is Azure automation?



Thank you for coming!

Elkhan Yusubov (MCT, MCSA, MCSD)

FEI Systems – a local healthcare innovation company

Thank you!



@ElYusubov



ElkhanYusubov



GitHub ElYusubov