~~PowerShell in~~ "PowerShelling" Azure

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MVP
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Agenda

- Understand Azure Resource Manager (ARM)
- Get productive with Azure PowerShell
- Step into ARM templates

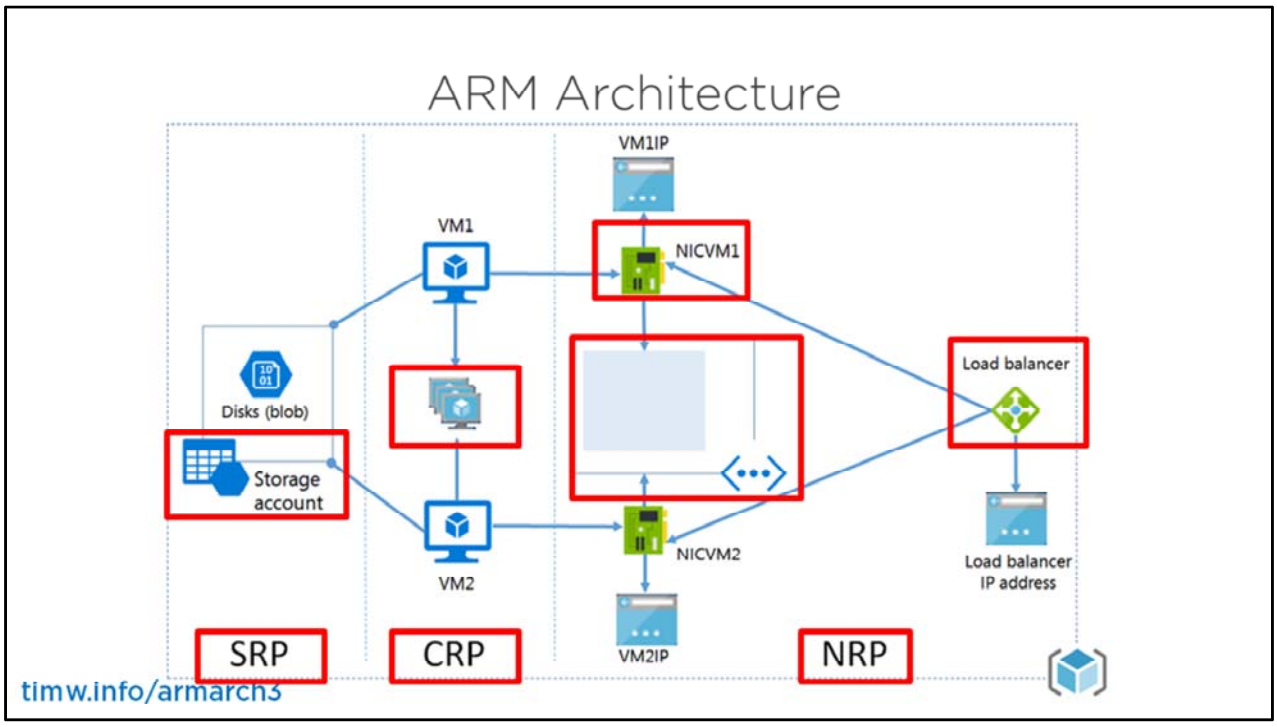
Session Materials

timw.info/azposh

Understand Azure Resource Manager

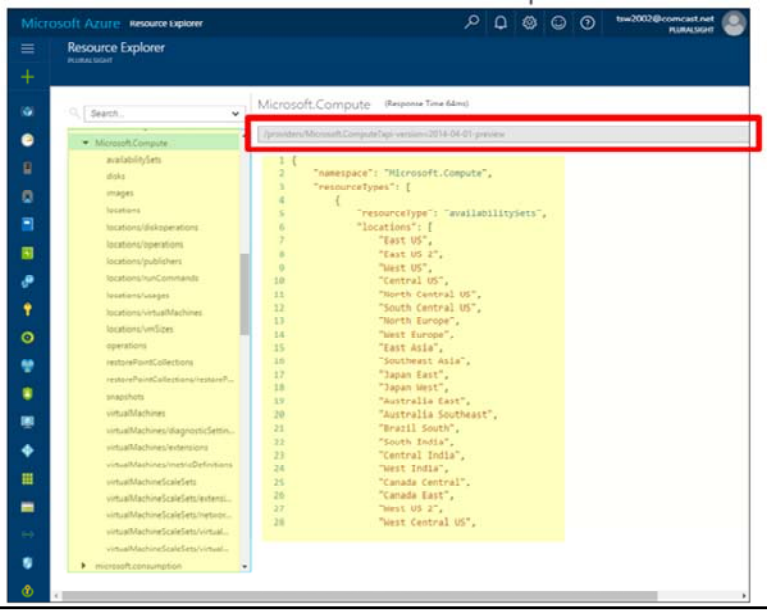
ARM Facts

Released in 2014 (Azure was GA in 2010)	Componentized rather than monolithic	JSON instead of XML
REST APIs (Portal, PS, Azure CLI, SDK)	RBAC	Template-based deployment


ARM Architecture
VM1IP
VM1
NICVM1
Disks (blob)
Storage account
Load balancer
VM2
NICVM2
Load balancer IP address
VM2IP
SRP
CRP
NRP
timw.info/armarch3

Azure Resource Explorer

Explore the REST API



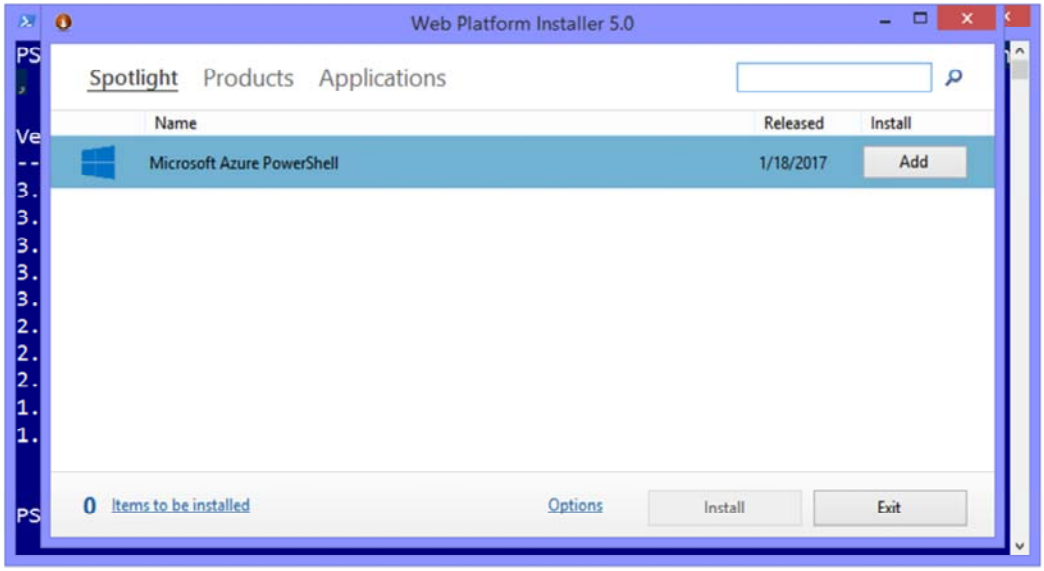
Demo

Create a Windows Server VM in the Azure Portal

Save the ARM deployment template

Get Productive with Azure PowerShell

Obtain the ARM Modules



Demo

Discover

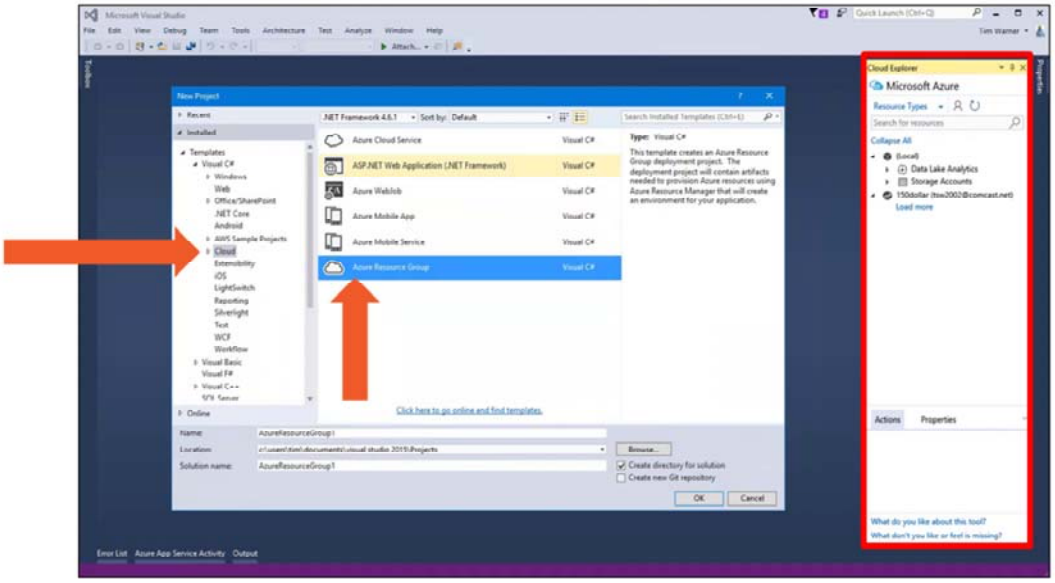
- AzureRM modules
- Azure RM commands
- Deploy a Windows Server VM

Step Into ~~Poo~~ ARM Templates

ARM Template Facts

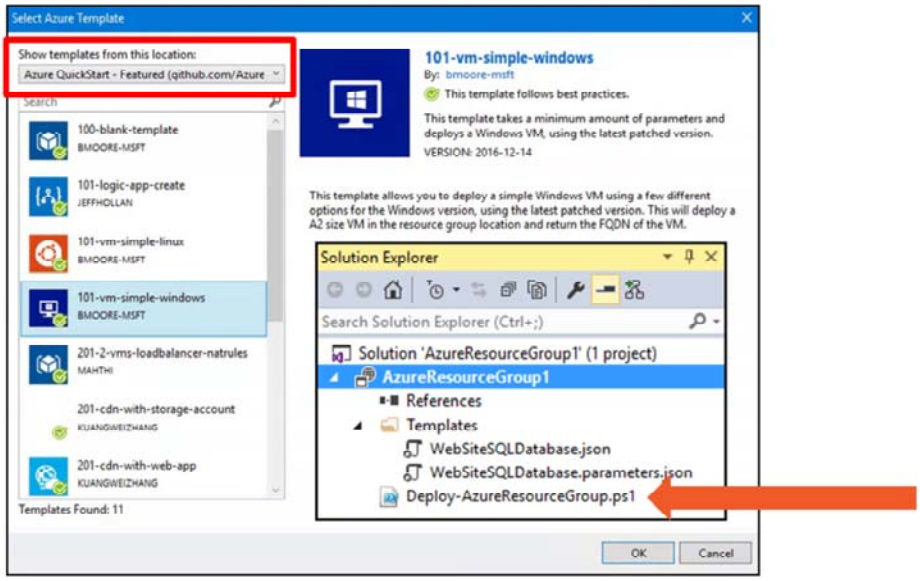
Every Azure deployment uses these templates	Deterministic	Idempotent
Parameters and variables	Functions	Nested templates

Visual Studio with the Azure .NET SDK



Visual Studio with the Azure .NET SDK

These templates follow best patterns/ practices



Demo

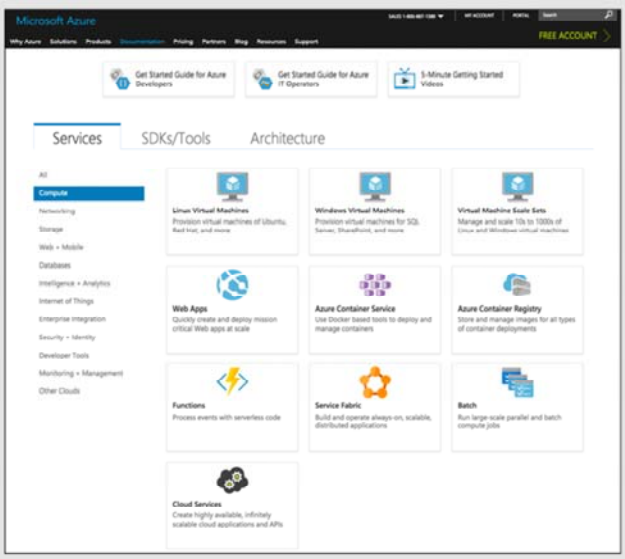
Azure Resource Explorer

Review the ARM template we downloaded earlier

- Visual Studio Code

Azure Quickstart Templates

Resource Visualizer



Book Reference

Azure books almost always deal with Azure v1 (ASM)

Microsoft is centrally locating their TechNet and MSDN product docs

docs.microsoft.com/azure

Thank You!

Materials: timw.info/azposh

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