Azure VM-Lab with PowerShell Presentation for the Singapore Azure User Group  
27. April 2017

💻 First

Image from my last PowerShell presentation in 2008, and I haven’t done any presentation since then.

What do I mean by portable virtual lab?

I will mostly do demos and will use many custom commands, if I am too fast, please let me know.

💻 Agenda

quickly going through

💻 Setting up the client

We can also install sub-modules by using

Install-Module AzureRM.Compute

A local repository should be faster, but could be out of date.

Xcopy, faster to use zip files:

Get from existing install.

$pf = "$env:ProgramFiles\WindowsPowerShell\Modules"

$target = "$env:NewsDir\AzureModules"

If (!(Test-Path $target)) { New-Item $target -ItemType Directory}

Get-ChildItem $pf -Directory | Where Name -Like "Azure\*" | Foreach {

Compress-Archive -Path $\_.FullName -DestinationPath $target\$($\_.Name).zip -Force

}

Deploy:

Get-ChildItem "$env:NewsDir\AzureModules" -File | Select -First 2 | Foreach {

Expand-Archive -Path $\_.FullName -DestinationPath "$env:ProgramFiles\WindowsPowerShell\Modules" -Force

}

After login, show some commands

Login-AzureRmAccount

Get-AzureRmVM

Get-AzureRmResourceGroup

Get-AzureRMResource

Get-AzureRMADUser

https://docs.microsoft.com/en-us/powershell/module/azurerm.resources/get-azurermresourcegroup?view=azurermps-3.8.0

 Questions?

💻 Using Templates to create VMs

 Who is using profiles in PowerShell?

ex, um, dm, vm, ev, ser, n, ise, apps, fire, hosts, iis

Word, vs, sql, su, fm, excel, pdf, code

** What may these commands do?**

💻 Using scripts to simplify template usage

open R:\Vms in xplorer and press Ctrl+D, Ctrl+1

we can see Bob is 43+ GB but LAB\* are 2.5-4 GB,

 Anybody knows why these disks are so small?

Because of differential disks:

vmx -show parentdisks

Parent Disks: Create a VM manually, customize it and then sysprep it. Use the VHDX as a parent disk for all future VMs with the same OS.

💻 Remove VM after we are done

let’s run some custom scripts to setup roles

Start with a new Active Directory with a domain controller on LAB5:

💻 Compare with local Hyper-V

Anybody using DSC? What for?

💻 Questions?

Any questions?

Extras

**Nano Server:**