Create Windows Virtual Machine with PowerShell – Resource Manager

**Step 1: Please start PowerShell.**

**Note: If you don’t have PowerShell please download from below URL:**

<https://github.com/Azure/azure-powershell/releases>

**Step 2: Login to Azure Account**

Login-AzureRmAccount

**Step 3: Create Resource Group**

New-AzureRmResourceGroup -Name myResourceGroup -Location EastUS

**Step 4: Create a subnet configuration**

$subnetConfig = New-AzureRmVirtualNetworkSubnetConfig -Name mySubnet -AddressPrefix 192.168.1.0/24

**Step 5: Create a Virtual Network**

$vnet = New-AzureRmVirtualNetwork -ResourceGroupName myResourceGroup -Location EastUS `

-Name MYvNET -AddressPrefix 192.168.0.0/16 -Subnet $subnetConfig

**Step 6: Create a Public IP address**

$pip = New-AzureRmPublicIpAddress -ResourceGroupName myResourceGroup -Location EastUS `

-AllocationMethod Static -IdleTimeoutInMinutes 4 -Name "mypublicdns$(Get-Random)"

**Step 7: Create an inbound Network Security Group (NSG) for port 3389**

$nsgRuleRDP = New-AzureRmNetworkSecurityRuleConfig -Name myNetworkSecurityGroupRuleRDP -Protocol Tcp `

-Direction Inbound -Priority 1000 -SourceAddressPrefix \* -SourcePortRange \* -DestinationAddressPrefix \* `

-DestinationPortRange 3389 -Access Allow

**Step 8: Create an inbound Network Security Group (NSG) for port 80**

$nsgRuleWeb = New-AzureRmNetworkSecurityRuleConfig -Name myNetworkSecurityGroupRuleWWW -Protocol Tcp `

-Direction Inbound -Priority 1001 -SourceAddressPrefix \* -SourcePortRange \* -DestinationAddressPrefix \* `

-DestinationPortRange 80 -Access Allow

**Step 9: Create a Network Security Group (NSG)**

$nsg = New-AzureRmNetworkSecurityGroup -ResourceGroupName myResourceGroup -Location EastUS `

-Name myNetworkSecurityGroup -SecurityRules $nsgRuleRDP,$nsgRuleWeb

**Step 10: Create a network card for the Virtual Machine. It’s associate with Public IP and NSG**

$nic = New-AzureRmNetworkInterface -Name myNic -ResourceGroupName myResourceGroup -Location EastUS `

-SubnetId $vnet.Subnets[0].Id -PublicIpAddressId $pip.Id -NetworkSecurityGroupId $nsg.Id

**Step 11: Define credentials**

$cred = Get-Credential

**Step 12: Create a Virtual Machine Configuration**

$vmConfig = New-AzureRmVMConfig -VMName myVM -VMSize Standard\_DS2 | `

Set-AzureRmVMOperatingSystem -Windows -ComputerName myVM -Credential $cred | `

Set-AzureRmVMSourceImage -PublisherName MicrosoftWindowsServer -Offer WindowsServer `

-Skus 2016-Datacenter -Version latest | Add-AzureRmVMNetworkInterface -Id $nic.Id

**Step 13: Create a Virtual Machine**

New-AzureRmVM -ResourceGroupName myResourceGroup -Location EastUS -VM $vmConfig

**Step 14: Connect to a Virtual Machine**

Get-AzureRmPublicIpAddress -ResourceGroupName myResourceGroup | Select IpAddress

**Step 15: run RDP**

mstsc /v:1.2.3.4

**Step 16: Install IIS (optional)**

Install-WindowsFeature -name Web-Server -IncludeManagementTools

**Step 17: Delete Virtual Machine & other resources**

Remove-AzureRmResourceGroup -Name myResourceGroup