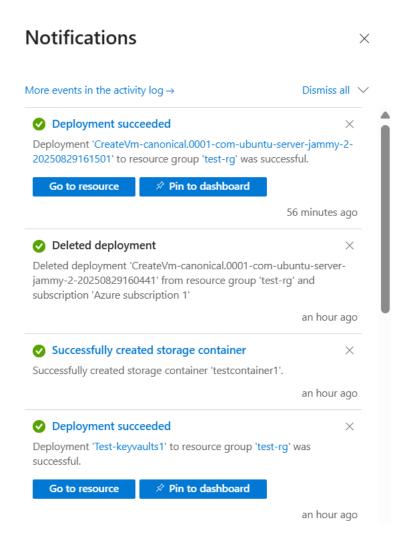
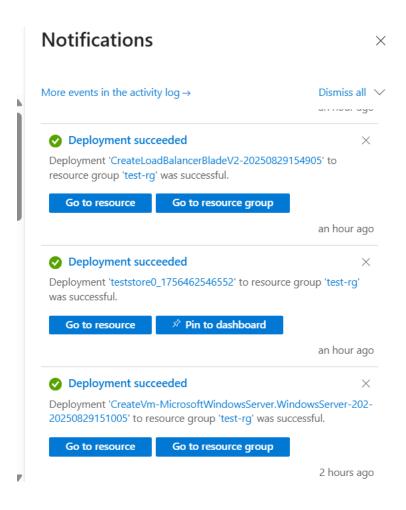
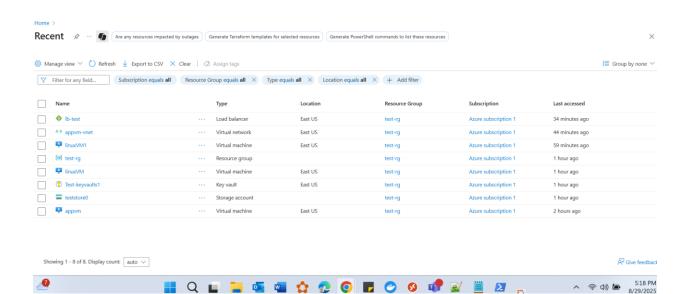
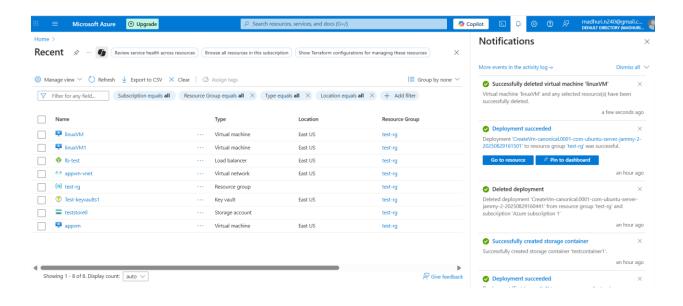
Created services of VM and other services









To Create 2 VMs

Windows and ubuntu

Define variables

\$location = "East US"

\$resourceGroup = "Test-rg"

\$vnetName = "TestVNet"

\$subnetName = "TestSubnet"

\$nsgName = "TsetNSG"

\$windowsVMName = "WinVM"

\$ubuntuVMName = "UbuntuVM"

\$windowsAdmin = "winadmin"

\$ubuntuAdmin = "ubuntuadmin"

Create Resource Group

New-AzResourceGroup -Name \$resourceGroup -Location \$location

Create Virtual Network and Subnet

\$vnet = New-AzVirtualNetwork -ResourceGroupName \$resourceGroup -Location \$location

-Name \$vnetName -AddressPrefix "10.0.0.0/16"

Add-AzVirtualNetworkSubnetConfig -Name \$subnetName -AddressPrefix "10.0.0.0/24" - VirtualNetwork \$vnet

\$vnet | Set-AzVirtualNetwork

Create Network Security Group

\$nsg = New-AzNetworkSecurityGroup -ResourceGroupName \$resourceGroup -Location \$location -Name \$nsgName

Create Public IPs

\$winPublicIP = New-AzPublicIpAddress -Name "\$windowsVMName-PIP" ResourceGroupName \$resourceGroup`

-Location \$location -AllocationMethod Dynamic

\$ubuntuPublicIP = New-AzPublicIpAddress -Name "\$ubuntuVMName-PIP" ResourceGroupName \$resourceGroup`

-Location \$location -AllocationMethod Dynamic

Create NICs

\$subnet = Get-AzVirtualNetworkSubnetConfig -VirtualNetwork \$vnet -Name \$subnetName

\$winNIC = New-AzNetworkInterface -Name "\$windowsVMName-NIC" ResourceGroupName \$resourceGroup`

-Location \$location -SubnetId \$subnet.Id -PublicIpAddressId \$winPublicIP.Id - NetworkSecurityGroupId \$nsg.Id

\$ubuntuNIC = New-AzNetworkInterface -Name "\$ubuntuVMName-NIC" ResourceGroupName \$resourceGroup`

-Location \$location -SubnetId \$subnet.Id -PublicIpAddressId \$ubuntuPublicIP.Id - NetworkSecurityGroupId \$nsg.Id

Create Windows VM

\$winVMConfig = New-AzVMConfig -VMName \$windowsVMName -VMSize
"Standard_DS1_v2"

\$winVMConfig = Set-AzVMOperatingSystem -VM \$winVMConfig -Windows ComputerName \$windowsVMName `

-Credential (New-Object

System.Management.Automation.PSCredential(\$windowsAdmin, (ConvertTo-SecureString \$windowsPassword -AsPlainText -Force)))

\$winVMConfig = Set-AzVMSourceImage -VM \$winVMConfig -PublisherName
"MicrosoftWindowsServer" `

-Offer "WindowsServer" -Skus "2022-datacenter" -Version "latest"

\$winVMConfig = Add-AzVMNetworkInterface -VM \$winVMConfig -Id \$winNIC.Id

New-AzVM -ResourceGroupName \$resourceGroup -Location \$location -VM \$winVMConfig

Create Ubuntu VM

\$ubuntuVMConfig = New-AzVMConfig -VMName \$ubuntuVMName -VMSize
"Standard_DS1_v2"

\$ubuntuVMConfig = Set-AzVMOperatingSystem -VM \$ubuntuVMConfig -Linux ComputerName \$ubuntuVMName `

-Credential (New-Object

System.Management.Automation.PSCredential(\$ubuntuAdmin, (ConvertTo-SecureString \$ubuntuPassword -AsPlainText -Force)))

\$ubuntuVMConfig = Set-AzVMSourceImage -VM \$ubuntuVMConfig -PublisherName
"Canonical" `

-Offer "UbuntuServer" -Skus "18.04-LTS" -Version "latest"

\$ubuntuVMConfig = Add-AzVMNetworkInterface -VM \$ubuntuVMConfig -Id \$ubuntuNIC.Id

New-AzVM -ResourceGroupName \$resourceGroup -Location \$location -VM \$ubuntuVMConfig

To Create load balancer

Variables

\$resourceGroup = "Test-rg"

\$location = "East US"

\$lbName = "TestLoadBalancer"

\$frontendIPName = "TestFrontendIP"

\$backendPoolName = "TestBackendPool"

\$probeName = "TestHealthProbe"

\$lbruleName = "TestLoadBalancingRule"

\$subnetName = "TestSubnet"

Get subnet and NICs

\$vnet = Get-AzVirtualNetwork -Name "MyVNet" -ResourceGroupName \$resourceGroup

\$subnet = Get-AzVirtualNetworkSubnetConfig -Name \$subnetName -VirtualNetwork \$vnet

\$winNIC = Get-AzNetworkInterface -Name "WinVM-NIC" -ResourceGroupName \$resourceGroup

\$ubuntuNIC = Get-AzNetworkInterface -Name "UbuntuVM-NIC" -ResourceGroupName \$resourceGroup

Create Public IP for Load Balancer

\$lbPublicIP = New-AzPublicIpAddress -Name "\$lbName-PIP" -ResourceGroupName \$resourceGroup `

-Location \$location -AllocationMethod Static -Sku Standard

Create Frontend IP Configuration

\$frontendIP = New-AzLoadBalancerFrontendIpConfig -Name \$frontendIPName - PublicIpAddress \$lbPublicIP

Create Backend Address Pool

\$backendPool = New-AzLoadBalancerBackendAddressPoolConfig -Name \$backendPoolName

Create Health Probe

\$probe = New-AzLoadBalancerProbeConfig -Name \$probeName -Protocol Tcp -Port 80 - IntervalInSeconds 15 -ProbeCount 2

Create Load Balancing Rule

\$lbrule = New-AzLoadBalancerRuleConfig -Name \$lbruleName -FrontendIpConfiguration \$frontendIP `

-BackendAddressPool \$backendPool -Probe \$probe -Protocol Tcp -FrontendPort 80 - BackendPort 80 `

-IdleTimeoutInMinutes 5 - EnableFloatingIP \$false - LoadDistribution Default

Create Load Balancer

\$lb = New-AzLoadBalancer -ResourceGroupName \$resourceGroup -Location \$location - Name \$lbName `

-Sku Standard -FrontendIpConfiguration \$frontendIP -BackendAddressPool \$backendPool `

-Probe \$probe -LoadBalancingRule \$lbrule

Associate NICs with Backend Pool

\$winNIC.lpConfigurations[0].LoadBalancerBackendAddressPools =
\$lb.BackendAddressPools

\$ubuntuNIC.IpConfigurations[0].LoadBalancerBackendAddressPools =
\$lb.BackendAddressPools

Set-AzNetworkInterface - NetworkInterface \$winNIC

Set-AzNetworkInterface -NetworkInterface \$ubuntuNIC

To create Azure Storge Account

Variables

\$resourceGroup = "Test-rg"

\$location = "East US"

\$storageAccountName = "testaccount" # Must be globally unique and lowercase

\$containerName = "test1"

Create Storage Account

\$storageAccount = New-AzStorageAccount -ResourceGroupName \$resourceGroup -Name \$storageAccountName `

-Location \$location -SkuName Standard_LRS -Kind StorageV2

Get Storage Context

\$ctx = \$storageAccount.Context

Create Blob Container

New-AzStorageContainer - Name \$containerName - Context \$ctx - Permission Off