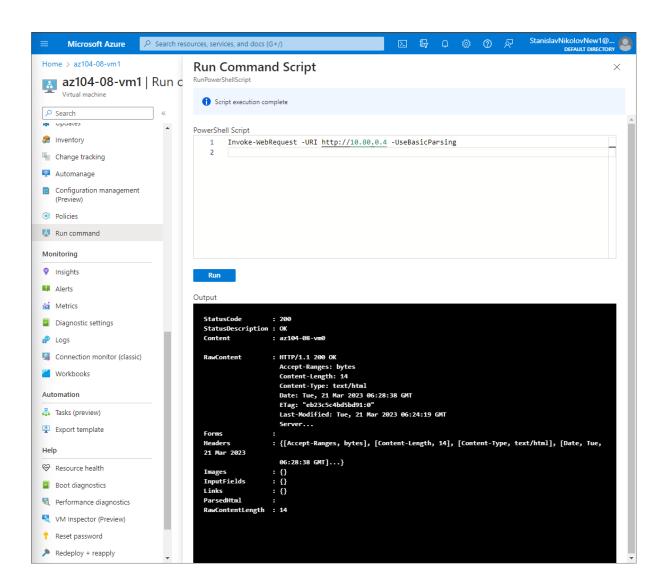
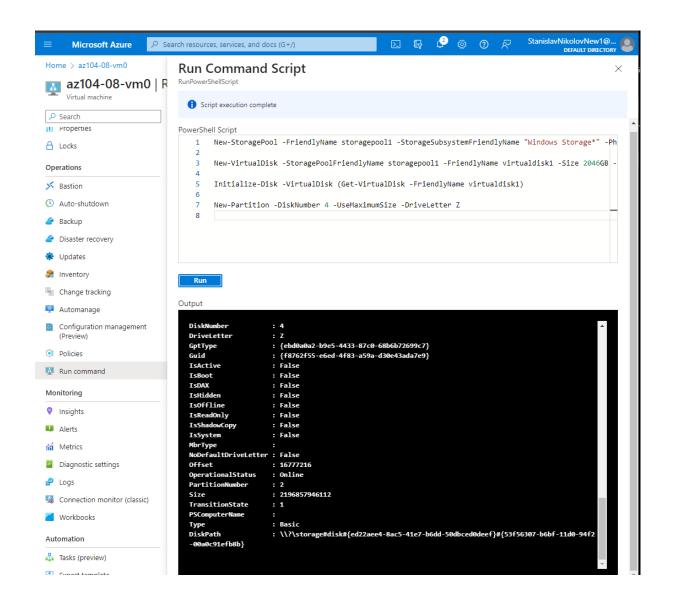
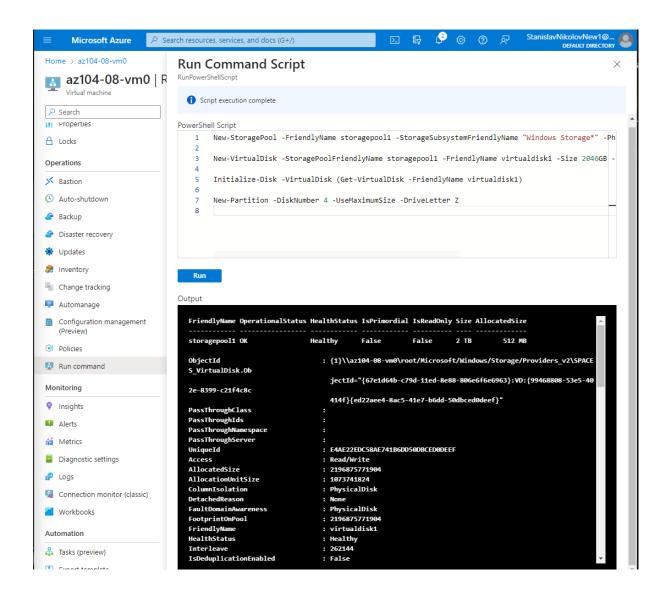
## Lab 08 - Manage Virtual Machines

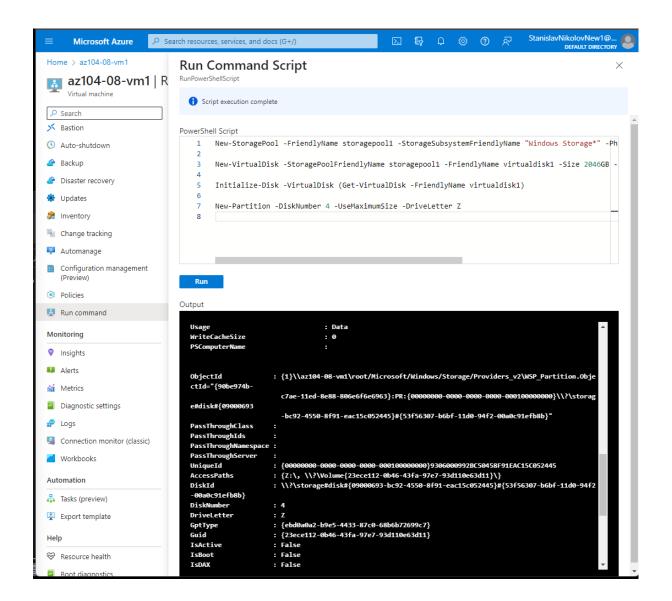
Task 1 and Task 2: Configure Azure virtual machines by using virtual machine extensions. Deploy zone-resilient Azure virtual machines by using the Azure portal and an Azure Resource Manager template.

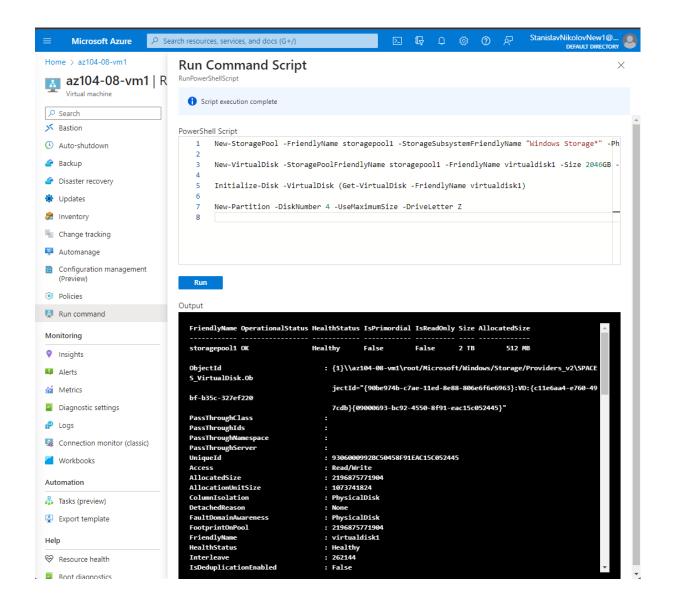


Task 3: Scale compute and storage for Azure virtual machines.









Task 4: Register the Microsoft. Insights and Microsoft. Alerts Management resource providers.

```
PowerShell V () ? () [ 1] [ 1] () [ 2] () [ 3] () [ 3] () [ 4] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5] () [ 5]
```

```
PS /home/stanislav> Register-AzResourceProvider -ProviderNamespace Microsoft.AlertsManagement

ProviderNamespace : Microsoft.AlertsManagement

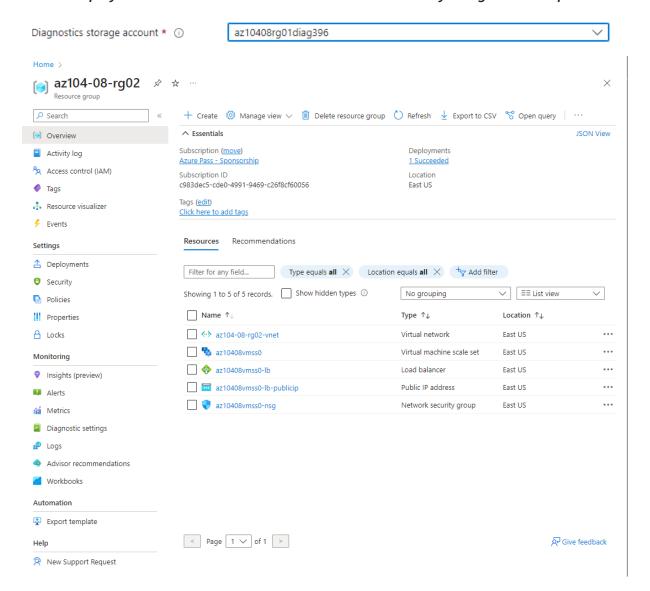
RegistrationState : Registered

ResourceTypes : {alerts, alertsSummary, smartGroups, smartDetectorAlertRules...}

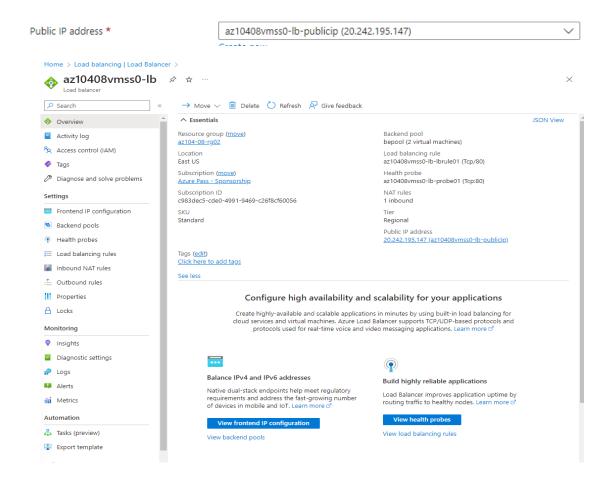
Locations : {global, North Central US, East US, East US 2...}

PS /home/stanislav>
```

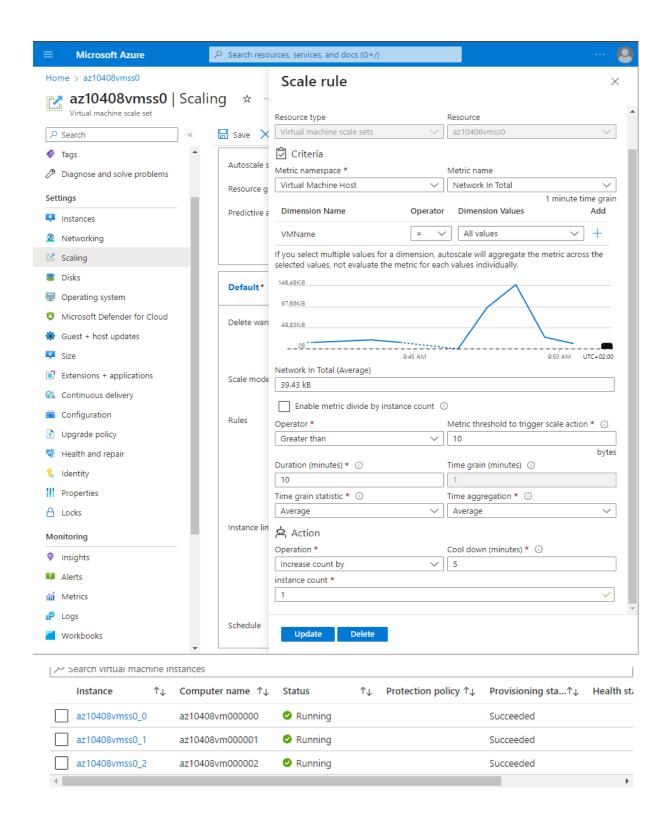
Task 5: Deploy zone-resilient Azure virtual machine scale sets by using the Azure portal.



Task 6: Configure Azure virtual machine scale sets by using virtual machine extensions.



Task 7: Scale compute and storage for Azure virtual machine scale sets.



```
0sDisk
                                             ReadWrite
     WriteAcceleratorEnabled
                                             False
                                            : FromImage
     CreateOption
     DiskSizeGB
                                            : 127
                                            : Windows
     0sType
     ManagedDisk
       StorageAccountType
                                            : Premium_LRS
   DataDisks[0]
                                           : 0
     Lun
     Caching
                                           : None
      CreateOption
                                           : Empty
     DiskSizeGB
     ManagedDisk
 StorageAccountType
NetworkProfile
                                            : Standard_LRS
    NetworkInterfaceConfigurations[0]
                                            : az104-08-rg02-vnet-nic01
      Primary
                                            : True
      EnableAcceleratedNetworking
     DisableTcpStateTracking
                                            · False
     NetworkSecurityGroup
                                             : /subscriptions/c983dec5-cde0-4991-9469-c26f8cf60056/resourceGroups/az104-08-rg02/provid
       Ιd
ers/Microsoft.Network/networkSecurityGroups/az10408vmss0-nsg
     DnsSettings
      IpConfigurations[0]
       Name
                                            : az104-08-rg02-vnet-nic01-defaultIpConfiguration
       Subnet
                                             : /subscriptions/c983dec5-cde0-4991-9469-c26f8cf60056/resourceGroups/az104-08-rg02/provid
         Id
ers/Microsoft.Network/virtualNetworks/az104-08-rg02-vnet/subnets/subnet0
       PublicIPAddressConfiguration
          Name
                                            : publicIp-az104-08-rg02-vnet-nic01
          IdleTimeoutInMinutes
                                            : 15
         PublicIPAddressVersion
                                            : IPv4
       PrivateIPAddressVersion
        LoadBalancerBackendAddressPools[0]
         Ιd
                                              /subscriptions/c983dec5-cde0-4991-9469-c26f8cf60056/resourceGroups/az104-08-rg02/provid
```

```
VirtualMachineProfile
  OsProfile
    ComputerNamePrefix
AdminUsername
                                                               az10408vm
Student
     WindowsConfiguration
ProvisionVMAgent
EnableAutomaticUpdates
                                                               True
                                                             : True
        EnableVMAgentPlatformUpdates
     AllowExtensionOperations
RequireGuestProvisionSignal
                                                             : True
: True
  StorageProfile
ImageReference
Publisher
                                                              : MicrosoftWindowsServer
        Offer
                                                               2016-datacenter-gensecond
        Sku
     OsDisk
                                                              : ReadWrite
        Caching
        WriteAcceleratorEnabled
                                                             : False
       CreateOption
DiskSizeGB
                                                             : 127
       OsType
ManagedDisk
                                                               Windows
     StorageAccountType
DataDisks[0]
                                                             : Premium_LRS
       Lun
Caching
       CreateOption
DiskSizeGB
       ManagedDisk
StorageAccountType
                                                             : Standard_LRS
  NetworkProfile
NetworkInterfaceConfigurations[0]
```

```
ers/Microsoft.Network/virtualNetworks/az104-08-rg02-vnet/subnets/subnet0
         Primary
PublicIPAddressConfiguration
                                                     : True
                                                     : publicIp-az104-08-rg02-vnet-nic01
           Name
            IdleTimeoutInMinutes
            PublicIPAddressVersion
         PrivateIPAddressVersion
                                                     : IPv4
         LoadBalancerBackendAddressPools[0] :
Id :/subscriptions/c983dec5-cde0-4991-9469-c26f8cf60056/resourceGroups/az104-08-rg02/providers/Microsoft.Network/loadBalancers/az10408vmss0-lb/backendAddressPools/bepool
       EnableIPForwarding
                                                     : False
  DiagnosticsProfile
    {\bf BootDiagnostics}
                                                     : True
       Enabled
  StorageUri
ExtensionProfile
                                                     : https://az10408rg01diag396.blob.core.windows.net/
    Extensions[0]
                                                     : customScript
       Publisher
                                                     : Microsoft.Compute
       Type
TypeHandlerVersion
                                                     : CustomScriptExtension
                                                     : 1.8
       AutoUpgradeMinorVersion
                                                     : False
Settings : ("fileUris":["https://raw.githubusercontent.com/Azure-Samples/compute-automation-configurations/master/prepare_vm_disks.ps1"],"commandToExecute":"powershell -ExecutionPolicy Unrestricted -File prepare_vm_disks.ps1"}
    Extensions[1]
       Name
Publisher
                                                     : customScript
: Microsoft.Compute
: CustomScriptExtension
       Type
TypeHandlerVersion
                                                     : 1.8
Settings
OrchestrationMode
                                                     : System.Collections.Hashtable
                                                     : 3/21/2023 7:10:29 AM
TimeCreated
```