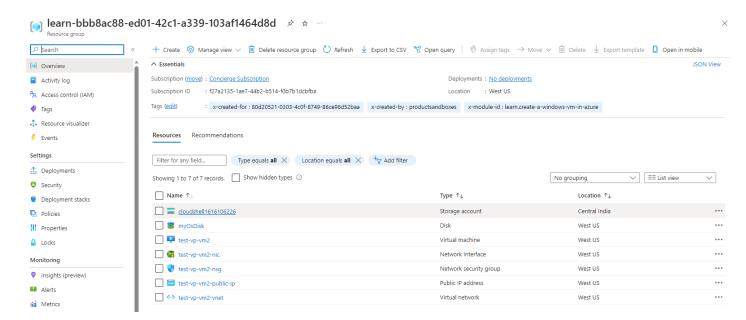
Note: Change Location (Region) and Resource Group and also put a password in the VM section in the Terraform main.tf script. Also, you can create manually the resource group first before applying the Terraform script.

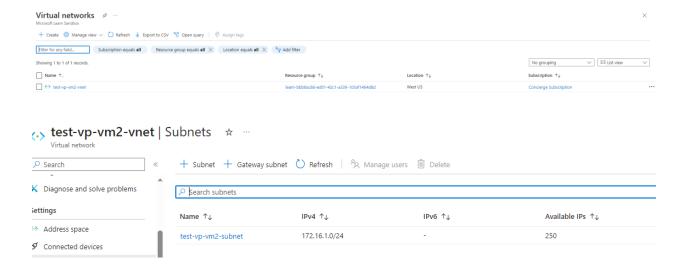
Components in Resource Group after Terraform Apply



Virtual Network, Subnets, and Network Security Group

Code:

Result:



Virtual Machine

Code:

```
# Create public IPs
resource "azurerm_public_ip" "mypublicip" {
 name
              = "test-vp-vm2-public-ip"
               = "westus"
location
 resource_group_name = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d"
allocation method = "Dynamic"
}
# Create Network Security Group and rules
resource "azurerm_network_security_group" "mynsg" {
              = "test-vp-vm2-nsg"
name
 location
              = "westus"
resource_group_name = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d"
 security_rule {
                   = "RDP"
  name
                  = 1000
  priority
                   = "Inbound"
  direction
                   = "Allow"
  access
                   = "Tcp"
  protocol
  source_port_range
  destination_port_range = "3389"
  source_address_prefix
  destination_address_prefix = "*"
 }
 security_rule {
                   = "web"
  name
                  = 1001
  priority
```

```
direction
                   = "Inbound"
  access
                  = "Allow"
                   = "Tcp"
  protocol
  source_port_range
  destination_port_range = "80"
  source address prefix
  destination_address_prefix = "*"
}
}
# Create network interface
resource "azurerm_network_interface" "mynic" {
 name
              = "test-vp-vm2-nic"
              = "westus"
 location
 resource_group_name = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d"
 ip_configuration {
  name
                    = "test-vp-vm2-nicconfig"
                      = azurerm_subnet.mysubnet.id
  subnet_id
  private_ip_address_allocation = "Dynamic"
                          = azurerm_public_ip.mypublicip.id
  public ip address id
}
}
# Connect the security group to the network interface
resource "azurerm_network_interface_security_group_association" "example" {
 network_interface_id = azurerm_network_interface.mynic.id
 network_security_group_id = azurerm_network_security_group.mynsg.id
}
# Create virtual machine
resource "azurerm_windows_virtual_machine" "main" {
               = "test-vp-vm2"
 name
                     = "azureadmin"
 admin_username
                    = "<password>"
 admin password
 location
               = "westus"
 resource group name = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d"
 network_interface_ids = [azurerm_network_interface.mynic.id]
             = "Standard DS1 v2"
 size
 os_disk {
  name
                = "myOsDisk"
                = "ReadWrite"
  caching
  storage_account_type = "Premium_LRS"
 source_image_reference {
  publisher = "MicrosoftWindowsServer"
```

```
offer = "WindowsServer"
              = "2019-Datacenter-smalldisk"
   version = "latest"
# Install IIS web server to the virtual machine
resource "azurerm_virtual_machine_extension" "web_server_install" {
                             = "test-vp-vm2-wsi"
                                     = azurerm_windows_virtual_machine.main.id
 virtual machine id
 publisher
                              = "Microsoft.Compute"
                           = "CustomScriptExtension"
 type
                                       = "1.8"
 type_handler_version
 auto_upgrade_minor_version = false
 settings = <<SETTINGS
     "commandToExecute": "powershell -ExecutionPolicy Unrestricted Install-WindowsFeature -Name
Web-Server -IncludeAllSubFeature -IncludeManagementTools"
   }
 SETTINGS
}
Result:
Home > Resource groups > learn-bbb8ac88-ed01-42c1-a339-103af1464d8d >
 🚃 test-vp-vm2-public-ip 📝 🖈 …

    Upgrade to Standard SKU - Microsoft recommends Standard SKU public IP address for production workloads

∠ Search

                                ② Associate X Dissociate 

☐ Delete → Move Y 
○ Refresh 
☐ Open in mobile
 Activity log
Access control (IAM)
                                Resource group (move): learn-bbb8ac88-ed01-42c1-a339-103af1464d8d
 Tags
                               Location (move) : West US
                                                                                                                                           : Regional
                              Subscription (move) : Concierge Subscription
                                                                                                                              IP address
                                                                                                                                         : 20.245.75.8
Configuration
                               Subscription ID : f27a2135-1ae7-44b2-b514-f0b7b1dcbfba
                                                                                                                              Associated to : test-vp-vm2-nic
Properties
                                                                                                                              Virtual machine : test-vp-vm2
 Locks
                                                                                                                              Routing preference: Microsoft network
 Home > learn-bbb8ac88-ed01-42c1-a339-103af1464d8d >
 📺 test-vp-vm2-nic 👒 🐇
                             → Move ∨ 📋 Delete 💍 Refresh 🥒 Edit accelerated networking
 Continues

Activity log
Resource group (move)

Continues

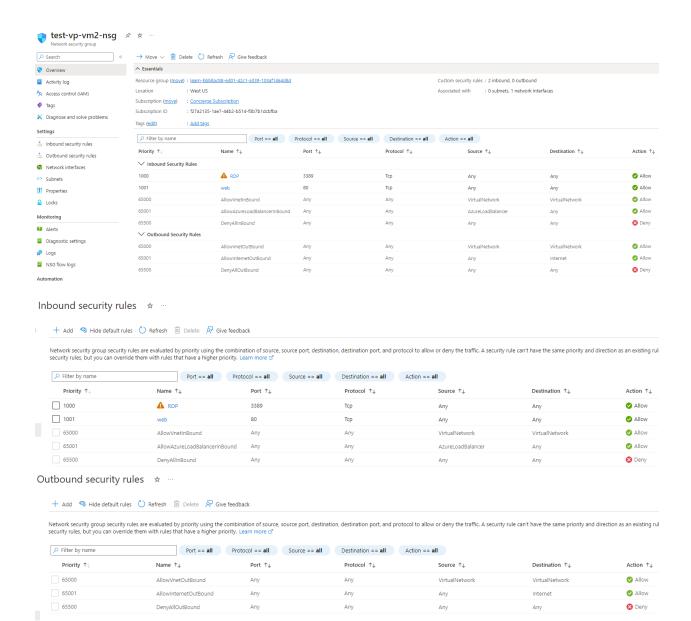
Continues

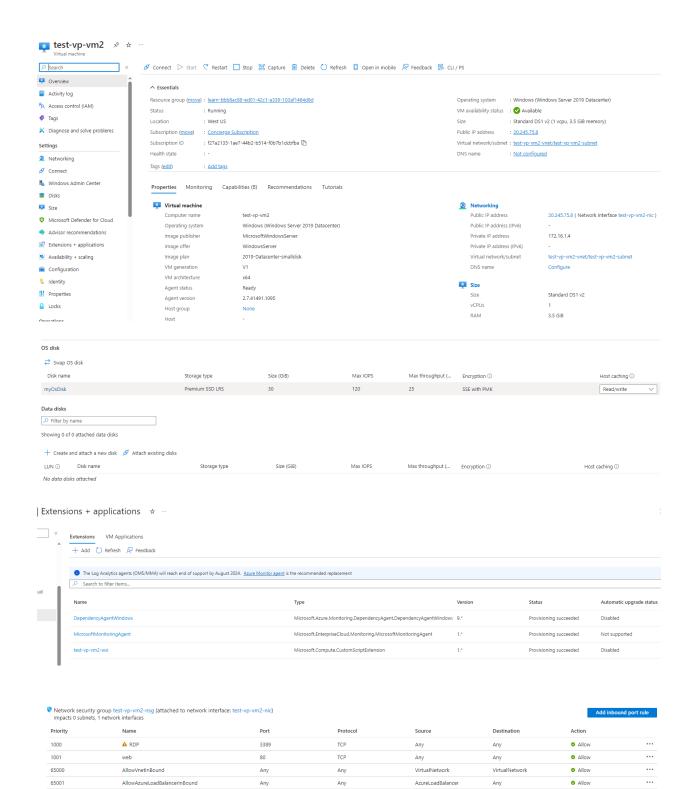
Continues

Continues

Continues

Continues
                             Resource group (move): learn-bbb8ac88-ed01-42c1-a339-103af1464d8d
                                                                                                                  Private IPv4 address: 172.16.1.4
                                                                                                                  Public IPv4 address : 20.245.75.8 (test-vp-vm2-public-ip)
                            Subscription (move) : Concierge Subscription
                                                                                                                  Private IPv6 address: -
                                         : f27a2135-1ae7-44b2-b514-f0b7b1dcbfba
                                                                                                                  Public IPv6 address : -
 Settings
                   Accelerated networking: Disabled [
                                                                                                                  Attached to : test-vp-vm2 (Virtual machine) test-vp-vm2-nsg (Network security group)
 IP configurations
                          Virtual network/subnet : test-vp-vm2-vnet/test-vp-vm2-subnet
                                                                                                                           : Regular
 Network security group
                          Tags (edit) : Add tags
```





Any

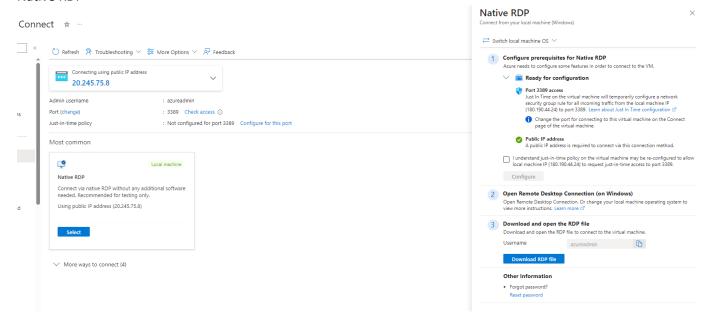
O Deny

65500

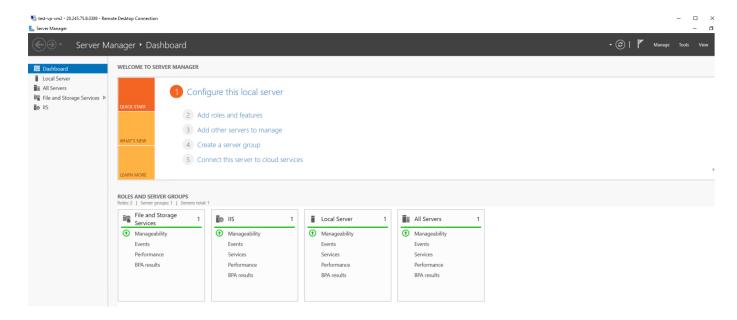
DenyAllinBound

Connecting to RDP

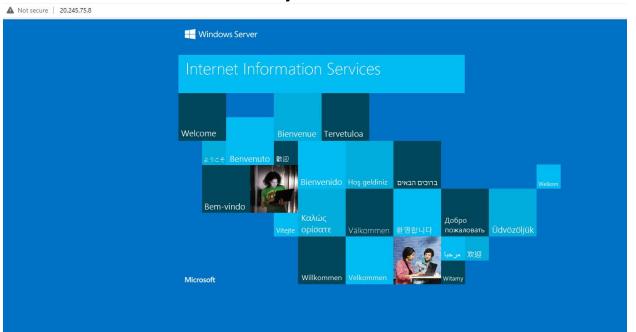
Native RDP



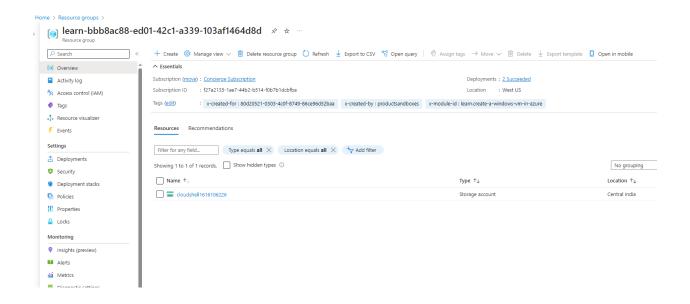




IIS VM Extension Successfully Installed



Components in Resource Group after Terraform Destroy



Terraform Apply Log

D:\Terraform\terraform azure\VM>terraform apply -auto-approve

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

+ create

Terraform will perform the following actions:

```
# azurerm network interface.mynic will be created
+ resource "azurerm network interface" "mynic" {
  + applied_dns_servers
                            = (known after apply)
                         = (known after apply)
  + dns servers
  + enable_accelerated_networking = false
  + enable_ip_forwarding
                             = false
  + id
                    = (known after apply)
  + internal_dns_name_label
                               = (known after apply)
  + internal domain name suffix = (known after apply)
                      = "westus"
  + location
                          = (known after apply)
  + mac address
                      = "test-vp-vm2-nic"
  + name
                           = (known after apply)
  + private ip address
  + private_ip_addresses
                            = (known after apply)
  + resource_group_name
                              = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d"
  + virtual_machine_id
                            = (known after apply)
  + ip configuration {
    + gateway_load_balancer_frontend_ip_configuration_id = (known after apply)
                                    = "test-vp-vm2-nicconfig"
    + name
```

```
= (known after apply)
    + primary
    + private_ip_address
                                          = (known after apply)
    + private ip address allocation
                                               = "Dvnamic"
                                              = "IPv4"
    + private_ip_address_version
    + public ip address id
                                           = (known after apply)
    + subnet id
                                      = (known after apply)
   }
 }
# azurerm network interface security group association.example will be created
+ resource "azurerm_network_interface_security_group_association" "example" {
                  = (known after apply)
                          = (known after apply)
  + network_interface_id
  + network security group id = (known after apply)
 }
# azurerm network security group.mynsg will be created
+ resource "azurerm network security group" "mynsg" {
  + id
               = (known after apply)
                  = "westus"
  + location
                  = "test-vp-vm2-nsg"
  + name
  + resource group name = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d"
  + security_rule
    + {
                                  = "Allow"
      + access
                                    = ""
      + description
                                           = "*"
      + destination_address_prefix
      + destination address prefixes
                                            = []
      + destination application security group ids = []
                                          = "3389"
      + destination port range
      + destination_port_ranges
                                          = []
      + direction
                                   = "Inbound"
                                  = "RDP"
      + name
                                  = 1000
      + priority
                                   = "Tcp"
      + protocol
      + source_address_prefix
      + source address prefixes
                                           = []
      + source_application_security_group_ids
                                                 = []
                                        = "*"
      + source port range
      + source port ranges
                                         = []
     },
    + {
                                  = "Allow"
      + access
                                    = ""
      + description
                                           = "*"
      + destination address prefix
      + destination address prefixes
                                            = []
      + destination application security group ids = []
                                          = "80"
      + destination port range
```

```
+ destination port ranges
                                          = []
      + direction
                                  = "Inbound"
      + name
                                  = "web"
      + priority
                                 = 1001
                                  = "Tcp"
      + protocol
                                         = "*"
      + source address prefix
      + source address prefixes
                                          = []
      + source_application_security_group_ids
                                                = []
      + source_port_range
      + source port ranges
                                        = []
     },
   1
 }
# azurerm public ip.mypublicip will be created
+ resource "azurerm_public_ip" "mypublicip" {
  + allocation method
                         = "Dynamic"
  + ddos protection mode = "VirtualNetworkInherited"
  + fqdn
                  = (known after apply)
  + id
                 = (known after apply)
  + idle timeout in minutes = 4
  + ip address
                     = (known after apply)
                     = "IPv4"
  + ip_version
                   = "westus"
  + location
  + name
                   = "test-vp-vm2-public-ip"
  + resource_group_name = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d"
  + sku
                  = "Basic"
                   = "Regional"
  + sku tier
 }
# azurerm_subnet.mysubnet will be created
+ resource "azurerm_subnet" "mysubnet" {
  + address prefixes
                                    = [
    + "172.16.1.0/24",
  + enforce_private_link_endpoint_network_policies = (known after apply)
  + enforce_private_link_service_network_policies = (known after apply)
  + id
                             = (known after apply)
                                = "test-vp-vm2-subnet"
  + name
  + private endpoint network policies enabled
                                                = (known after apply)
  + private_link_service_network_policies_enabled = (known after apply)
  + resource_group_name
                                        = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d"
                                        = "test-vp-vm2-vnet"
  + virtual_network_name
 }
# azurerm virtual machine extension.web server install will be created
+ resource "azurerm_virtual_machine_extension" "web_server_install" {
  + auto upgrade minor version = false
```

```
+ failure suppression enabled = false
   + id
                   = (known after apply)
                      = "test-vp-vm2-wsi"
   + name
                       = "Microsoft.Compute"
   + publisher
   + settings
                      = <<-EOT
      {
         "commandToExecute": "powershell -ExecutionPolicy Unrestricted Install-WindowsFeature -
Name Web-Server -IncludeAllSubFeature -IncludeManagementTools"
    EOT
   + type
                     = "CustomScriptExtension"
                             = "1.8"
   + type handler version
   + virtual_machine_id
                            = (known after apply)
  }
 # azurerm_virtual_network.myvnet will be created
 + resource "azurerm virtual network" "myvnet" {
   + address space
                      = [
     + "172.16.0.0/16",
                    = (known after apply)
   + dns servers
                 = (known after apply)
   + guid
   + id
                = (known after apply)
                 = "westus"
   + location
   + name
                  = "test-vp-vm2-vnet"
   + resource group name = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d"
                  = (known after apply)
   + subnet
  }
 # azurerm windows virtual machine.main will be created
+ resource "azurerm_windows_virtual_machine" "main" {
   + admin_password
                                          = (sensitive value)
                                          = "azureadmin"
   + admin username
   + allow_extension_operations
                                              = true
   + bypass platform safety checks on user schedule enabled = false
   + computer name
                                          = (known after apply)
   + enable automatic updates
                                               = true
   + extensions_time_budget
                                             = "PT1H30M"
   + hotpatching enabled
                                           = false
   + id
                                  = (known after apply)
                                     = "westus"
   + location
   + max bid price
                                         = -1
                                     = "test-vp-vm2"
   + name
                                            = (known after apply)
   + network interface ids
   + patch assessment mode
                                              = "ImageDefault"
                                        = "AutomaticByOS"
   + patch mode
   + platform fault domain
                                            = -1
                                    = "Regular"
   + priority
```

```
+ private ip address
                                          = (known after apply)
   + private_ip_addresses
                                           = (known after apply)
   + provision_vm_agent
                                           = true
   + public_ip_address
                                         = (known after apply)
                                          = (known after apply)
   + public ip addresses
   + resource group name
                                             = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d"
                                   = "Standard DS1 v2"
   + size
   + virtual machine id
                                          = (known after apply)
   + os disk {
     + caching
                       = "ReadWrite"
                         = (known after apply)
     + disk size gb
                       = "myOsDisk"
     + name
     + storage account type
                              = "Premium LRS"
     + write accelerator enabled = false
    }
   + source image reference {
     + offer = "WindowsServer"
     + publisher = "MicrosoftWindowsServer"
            = "2019-Datacenter-smalldisk"
     + version = "latest"
  }
Plan: 8 to add, 0 to change, 0 to destroy.
azurerm_public_ip.mypublicip: Creating...
azurerm virtual network.myvnet: Creating...
azurerm network security group.mynsg: Creating...
azurerm network security group.mynsg: Creation complete after 6s [id=/subscriptions/f27a2135-1ae7-
44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/networkSecurityGroups/test-vp-vm2-nsg]
azurerm public ip.mypublicip: Creation complete after 7s [id=/subscriptions/f27a2135-1ae7-44b2-
b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/publicIPAddresses/test-vp-vm2-public-ip]
azurerm virtual network.myvnet: Creation complete after 8s [id=/subscriptions/f27a2135-1ae7-44b2-
b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/virtualNetworks/test-vp-vm2-vnet]
azurerm subnet.mysubnet: Creating...
azurerm subnet.mysubnet: Creation complete after 8s [id=/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/virtualNetworks/test-vp-vm2-vnet/subnets/test-vp-vm2-
subnet]
azurerm network interface.mynic: Creating...
azurerm network interface.mynic: Still creating... [10s elapsed]
azurerm network interface.mynic: Creation complete after 15s [id=/subscriptions/f27a2135-1ae7-44b2-
b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/networkInterfaces/test-vp-vm2-nic]
```

```
azurerm network interface security group association.example: Creating...
azurerm windows virtual machine.main: Creating...
azurerm network interface security group association.example: Creation complete after 5s
[id=/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-
42c1-a339-103af1464d8d/providers/Microsoft.Network/networkInterfaces/test-vp-vm2-
nic|/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-
42c1-a339-103af1464d8d/providers/Microsoft.Network/networkSecurityGroups/test-vp-vm2-nsg]
azurerm windows virtual machine.main: Still creating... [10s elapsed]
azurerm_windows_virtual_machine.main: Still creating... [20s elapsed]
azurerm windows virtual machine.main: Still creating... [30s elapsed]
azurerm windows virtual machine.main: Still creating... [40s elapsed]
azurerm windows virtual machine.main: Still creating... [50s elapsed]
azurerm windows virtual machine.main: Still creating... [1m0s elapsed]
azurerm windows virtual machine.main: Still creating... [1m10s elapsed]
azurerm windows virtual machine.main: Still creating... [1m20s elapsed]
azurerm windows virtual machine.main: Still creating... [1m30s elapsed]
azurerm windows virtual machine.main: Still creating... [1m40s elapsed]
azurerm windows virtual machine.main: Creation complete after 1m42s [id=/subscriptions/f27a2135-
1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Compute/virtualMachines/test-vp-vm2]
azurerm virtual machine extension.web server install: Creating...
azurerm virtual machine extension.web server install: Still creating... [10s elapsed]
azurerm virtual machine extension.web server install: Still creating... [20s elapsed]
azurerm virtual machine extension.web server install: Still creating... [30s elapsed]
azurerm virtual machine extension.web server install: Still creating... [40s elapsed]
azurerm virtual machine extension.web server install: Still creating... [50s elapsed]
azurerm virtual machine extension.web server install: Still creating... [1m0s elapsed]
azurerm virtual machine extension.web server install: Still creating... [1m10s elapsed]
azurerm virtual machine extension.web server install: Still creating... [1m20s elapsed]
azurerm virtual machine extension.web server install: Still creating... [1m30s elapsed]
azurerm virtual machine extension.web server install: Still creating... [1m40s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still creating... [1m50s elapsed]
azurerm virtual machine extension.web server install: Still creating... [2m0s elapsed]
azurerm virtual machine extension.web server install: Still creating... [2m10s elapsed]
azurerm virtual machine extension.web server install: Still creating... [2m20s elapsed]
azurerm virtual machine extension.web server install: Still creating... [2m30s elapsed]
azurerm virtual machine extension.web server install: Still creating... [2m40s elapsed]
azurerm virtual machine extension.web server install: Still creating... [2m50s elapsed]
azurerm virtual machine extension.web server install: Still creating... [3m0s elapsed]
azurerm virtual machine extension.web server install: Still creating... [3m10s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still creating... [3m20s elapsed]
azurerm virtual machine extension.web server install: Still creating... [3m30s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still creating... [3m40s elapsed]
azurerm virtual machine extension.web server install: Still creating... [3m50s elapsed]
azurerm virtual machine extension.web server install: Still creating... [4m0s elapsed]
azurerm virtual machine extension.web server install: Still creating... [4m10s elapsed]
azurerm virtual machine extension.web server install: Still creating... [4m20s elapsed]
azurerm virtual machine extension.web server install: Still creating... [4m30s elapsed]
```

```
azurerm virtual machine extension.web server install: Still creating... [4m40s elapsed]
azurerm virtual machine extension.web server install: Still creating... [4m50s elapsed]
azurerm virtual machine extension.web server install: Still creating... [5m0s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still creating... [5m10s elapsed]
azurerm virtual machine extension.web server install: Still creating... [5m20s elapsed]
azurerm virtual machine extension.web server install: Still creating... [5m30s elapsed]
azurerm virtual machine extension.web server install: Still creating... [5m40s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still creating... [5m50s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still creating... [6m0s elapsed]
azurerm virtual machine extension.web server install: Still creating... [6m10s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still creating... [6m20s elapsed]
azurerm virtual machine extension.web server install: Still creating... [6m30s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still creating... [6m40s elapsed]
azurerm virtual machine extension.web server install: Still creating... [6m50s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still creating... [7m0s elapsed]
azurerm virtual machine extension.web server install: Still creating... [7m10s elapsed]
azurerm virtual machine extension.web server install: Still creating... [7m20s elapsed]
azurerm virtual machine extension.web server install: Still creating... [7m30s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still creating... [7m40s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still creating... [7m50s elapsed]
azurerm virtual machine extension.web server install: Still creating... [8m0s elapsed]
azurerm virtual machine extension.web server install: Still creating... [8m10s elapsed]
azurerm virtual machine extension.web server install: Still creating... [8m20s elapsed]
azurerm virtual machine extension.web server install: Still creating... [8m30s elapsed]
azurerm virtual machine extension.web server install: Still creating... [8m40s elapsed]
azurerm virtual machine extension.web server install: Creation complete after 8m45s
[id=/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-
42c1-a339-103af1464d8d/providers/Microsoft.Compute/virtualMachines/test-vp-vm2/extensions/test-
vp-vm2-wsi]
```

Apply complete! Resources: 8 added, 0 changed, 0 destroyed.

D:\Terraform\terraform azure\VM>

Terraform Destroy Log

D:\Terraform\terraform_azure\VM>terraform destroy -auto-approve azurerm_virtual_network.myvnet: Refreshing state... [id=/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-103af1464d8d/providers/Microsoft.Network/virtualNetworks/test-vp-vm2-vnet] azurerm_public_ip.mypublicip: Refreshing state... [id=/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-103af1464d8d/providers/Microsoft.Network/publicIPAddresses/test-vp-vm2-public-ip]

```
azurerm_network_security_group.mynsg: Refreshing state... [id=/subscriptions/f27a2135-1ae7-44b2-
b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/networkSecurityGroups/test-vp-vm2-nsg]
azurerm subnet.mysubnet: Refreshing state... [id=/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/virtualNetworks/test-vp-vm2-vnet/subnets/test-vp-vm2-
subnet
azurerm network interface.mynic: Refreshing state... [id=/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/networkInterfaces/test-vp-vm2-nic]
azurerm_network_interface_security_group_association.example: Refreshing state...
[id=/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-
42c1-a339-103af1464d8d/providers/Microsoft.Network/networkInterfaces/test-vp-vm2-
nic|/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-
42c1-a339-103af1464d8d/providers/Microsoft.Network/networkSecurityGroups/test-vp-vm2-nsg]
azurerm_windows_virtual_machine.main: Refreshing state... [id=/subscriptions/f27a2135-1ae7-44b2-
b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Compute/virtualMachines/test-vp-vm2]
azurerm_virtual_machine_extension.web_server_install: Refreshing state...
[id=/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-
42c1-a339-103af1464d8d/providers/Microsoft.Compute/virtualMachines/test-vp-vm2/extensions/test-
vp-vm2-wsi]
Terraform used the selected providers to generate the following execution plan. Resource actions are
indicated with the following symbols:
- destroy
Terraform will perform the following actions:
# azurerm network interface.mynic will be destroyed
- resource "azurerm_network_interface" "mynic" {
   applied_dns_servers
                             = [] -> null
   - dns servers
                         = [] -> null
   - enable_accelerated_networking = false -> null
   - enable ip forwarding
                              = false -> null
   - id
                    = "/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/networkInterfaces/test-vp-vm2-nic" -> null
   - internal domain name suffix = "trwlo5ojelcepcpt0dgoszwqvb.dx.internal.cloudapp.net" -> null

    location

                       = "westus" -> null
                          = "00-0D-3A-5A-59-1E" -> null
   mac_address
   - name
                       = "test-vp-vm2-nic" -> null
                            = "172.16.1.4" -> null
   private_ip_address
   - private ip addresses
                             = [
     - "172.16.1.4",
   ] -> null
   - resource_group_name
                               = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d" -> null
                     = {} -> null
   - tags
```

```
= "/subscriptions/f27a2135-1ae7-44b2-b514-
   - virtual machine id
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Compute/virtualMachines/test-vp-vm2" -> null
   - ip configuration {
     - name
                         = "test-vp-vm2-nicconfig" -> null
                         = true -> null
     - primary
                              = "172.16.1.4" -> null
     private_ip_address
     - private_ip_address_allocation = "Dynamic" -> null
     - private ip address version = "IPv4" -> null
     - public ip address id
                               = "/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/publicIPAddresses/test-vp-vm2-public-ip" -> null
     - subnet id
                          = "/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/virtualNetworks/test-vp-vm2-vnet/subnets/test-vp-vm2-
subnet" -> null
    }
  }
# azurerm network interface security group association.example will be destroyed
- resource "azurerm_network_interface_security_group_association" "example" {
                  = "/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-
bbb8ac88-ed01-42c1-a339-103af1464d8d/providers/Microsoft.Network/networkInterfaces/test-vp-
vm2-nic|/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-
ed01-42c1-a339-103af1464d8d/providers/Microsoft.Network/networkSecurityGroups/test-vp-vm2-nsg"
-> null
                          = "/subscriptions/f27a2135-1ae7-44b2-b514-
   - network interface id
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/networkInterfaces/test-vp-vm2-nic" -> null
   - network_security_group_id = "/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/networkSecurityGroups/test-vp-vm2-nsg" -> null
  }
# azurerm_network_security_group.mynsg will be destroyed
- resource "azurerm network security group" "mynsg" {
               = "/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-
bbb8ac88-ed01-42c1-a339-103af1464d8d/providers/Microsoft.Network/networkSecurityGroups/test-
vp-vm2-nsg" -> null
   - location
                  = "westus" -> null
   - name
                  = "test-vp-vm2-nsg" -> null
   - resource_group_name = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d" -> null
   - security rule
     - {
                                 = "Allow"
       - access
                                    = ""
       - description
                                          = "*"
       - destination address prefix
```

```
- destination address prefixes
       - destination_application_security_group_ids = []
       - destination port range
                                           = "3389"
       destination_port_ranges
                                            = []
       - direction
                                    = "Inbound"
                                    = "RDP"
       - name
       - priority
                                   = 1000
                                    = "aoT" =
       - protocol
                                           = "*"
       source_address_prefix
       - source address prefixes
                                            = []
       - source_application_security_group_ids
                                                  = []
       - source port range
       source_port_ranges
                                          = []
      },
     - {
                                   = "Allow"
       - access
                                     = ""
       - description
                                             = "*"
       - destination address prefix
       - destination address prefixes
                                              = []
       - destination_application_security_group_ids = []
       - destination port range
                                           = "80"
       - destination port ranges
                                            = []
                                    = "Inbound"
       - direction
                                    = "web"
       - name
       - priority
                                   = 1001
                                    = "Tcp"
       - protocol
                                           = "*"
       - source_address_prefix
       - source address prefixes
                                            = []
       - source application security group ids
                                                   = []
                                         = "*"
       - source port range
       source_port_ranges
                                          = []
      },
    ] -> null
                 = {} -> null
  - tags
  }
 # azurerm public ip.mypublicip will be destroyed
- resource "azurerm_public_ip" "mypublicip" {
   - allocation method
                           = "Dynamic" -> null
   - ddos protection mode = "VirtualNetworkInherited" -> null
                  = "/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-
   - id
bbb8ac88-ed01-42c1-a339-103af1464d8d/providers/Microsoft.Network/publicIPAddresses/test-vp-vm2-
public-ip" -> null
   - idle timeout in minutes = 4 -> null
                      = "20.245.75.8" -> null
   - ip address
   - ip tags
                    = {} -> null
                      = "IPv4" -> null
   - ip version
                     = "westus" -> null
   - location
```

```
= "test-vp-vm2-public-ip" -> null
   - name
   - resource group name = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d" -> null
                  = "Basic" -> null
   - sku
   - sku tier
                    = "Regional" -> null
   - tags
                   = {} -> null
   - zones
                   = [] -> null
  }
 # azurerm_subnet.mysubnet will be destroyed
- resource "azurerm_subnet" "mysubnet" {
   - address prefixes
                                     = [
     - "172.16.1.0/24",
    1-> null
   - enforce private link endpoint network policies = false -> null
   - enforce private link service network policies = false -> null
                              = "/subscriptions/f27a2135-1ae7-44b2-b514-
   - id
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/virtualNetworks/test-vp-vm2-vnet/subnets/test-vp-vm2-
subnet" -> null
                                 = "test-vp-vm2-subnet" -> null
   - name
   - private endpoint network policies enabled = true -> null
   - private link service network policies enabled = true -> null
                                         = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d" -> null
   - resource group name
   - service endpoint policy ids
                                          = [] -> null
   - service endpoints
                                      = [] -> null
                                         = "test-vp-vm2-vnet" -> null
   - virtual network name
  }
# azurerm virtual machine extension.web server install will be destroyed
- resource "azurerm_virtual_machine_extension" "web_server_install" {
   - auto_upgrade_minor_version = false -> null
   - automatic_upgrade_enabled = false -> null
   - failure suppression enabled = false -> null
                    = "/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-
bbb8ac88-ed01-42c1-a339-103af1464d8d/providers/Microsoft.Compute/virtualMachines/test-vp-
vm2/extensions/test-vp-vm2-wsi" -> null
   - name
                      = "test-vp-vm2-wsi" -> null
   - publisher
                       = "Microsoft.Compute" -> null
   - settings
                      = jsonencode(
       - commandToExecute = "powershell -ExecutionPolicy Unrestricted Install-WindowsFeature -
Name Web-Server -IncludeAllSubFeature -IncludeManagementTools"
    ) -> null
   - tags
                     = {} -> null
                     = "CustomScriptExtension" -> null
   - type
                             = "1.8" -> null
   - type handler version
```

```
= "/subscriptions/f27a2135-1ae7-44b2-b514-
   - virtual machine id
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Compute/virtualMachines/test-vp-vm2" -> null
# azurerm virtual network.myvnet will be destroyed
 - resource "azurerm_virtual_network" "myvnet" {
   - address space
                       = [
     - "172.16.0.0/16",
   ] -> null
   - dns servers
                      = [] -> null
   - flow timeout in minutes = 0 -> null
                  = "7db76c9c-22c9-47c4-89f3-d0cce966d0a9" -> null
   - guid
   - id
                 = "/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-
bbb8ac88-ed01-42c1-a339-103af1464d8d/providers/Microsoft.Network/virtualNetworks/test-vp-vm2-
vnet" -> null
                    = "westus" -> null

    location

   - name
                    = "test-vp-vm2-vnet" -> null
   - resource group name = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d" -> null
   - subnet
                    = [
     - {
       - address prefix = "172.16.1.0/24"
                 = "/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-
bbb8ac88-ed01-42c1-a339-103af1464d8d/providers/Microsoft.Network/virtualNetworks/test-vp-vm2-
vnet/subnets/test-vp-vm2-subnet"
                   = "test-vp-vm2-subnet"
       - security group = "/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/SandboxNSGs/providers/Microsoft.Network/networkSecurityGroups/NS
G-westus"
      },
   ] -> null
                  = {} -> null
   - tags
  }
 # azurerm windows virtual machine.main will be destroyed
 - resource "azurerm_windows_virtual_machine" "main" {
   - admin password
                                          = (sensitive value) -> null
                                          = "azureadmin" -> null
   - admin username
   - allow extension operations
                                              = true -> null
   - bypass platform safety checks on user schedule enabled = false -> null
   - computer_name
                                          = "test-vp-vm2" -> null
   - enable automatic updates
                                              = true -> null
   - encryption_at_host_enabled
                                              = false -> null
   - extensions time budget
                                             = "PT1H30M" -> null
   - hotpatching enabled
                                           = false -> null
   - id
                                  = "/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Compute/virtualMachines/test-vp-vm2" -> null
```

```
- location
                                      = "westus" -> null
   - max_bid_price
                                         = -1 -> null
                                      = "test-vp-vm2" -> null
   - name
   - network interface ids
                                             = [
     - "/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-
42c1-a339-103af1464d8d/providers/Microsoft.Network/networkInterfaces/test-vp-vm2-nic",
    ] -> null
   - patch_assessment_mode
                                               = "ImageDefault" -> null
   - patch_mode
                                         = "AutomaticByOS" -> null
   - platform fault domain
                                             = -1 -> null
   - priority
                                     = "Regular" -> null
   private_ip_address
                                           = "172.16.1.4" -> null
   private_ip_addresses
                                            = [
     - "172.16.1.4",
    ] -> null
   - provision_vm_agent
                                            = true -> null
   - public ip address
                                          = "20.245.75.8" -> null
   - public_ip_addresses
                                           = [
     - "20.245.75.8",
    ] -> null
                                              = "learn-bbb8ac88-ed01-42c1-a339-103af1464d8d" ->
   - resource group name
null
   - secure boot enabled
                                             = false -> null
                                   = "Standard DS1 v2" -> null
   - size
   - tags
                                    = {} -> null
                                           = "0902287a-101e-4262-9a78-fe95ab9a2d17" -> null
   - virtual machine id
   - vtpm_enabled
                                          = false -> null
   - os disk {
                        = "ReadWrite" -> null
     - caching
     disk_size_gb
                          = 30 -> null
     - name
                        = "myOsDisk" -> null
     - storage account type = "Premium LRS" -> null
     - write_accelerator_enabled = false -> null
    }
   - source image reference {
     - offer = "WindowsServer" -> null
     - publisher = "MicrosoftWindowsServer" -> null
             = "2019-Datacenter-smalldisk" -> null
     - version = "latest" -> null
    }
  }
```

Plan: 0 to add, 0 to change, 8 to destroy. azurerm_network_interface_security_group_association.example: Destroying... [id=/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-103af1464d8d/providers/Microsoft.Network/networkInterfaces/test-vp-vm2-

```
nic|/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-
42c1-a339-103af1464d8d/providers/Microsoft.Network/networkSecurityGroups/test-vp-vm2-nsg]
azurerm virtual machine extension.web server install: Destroying... [id=/subscriptions/f27a2135-
1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Compute/virtualMachines/test-vp-vm2/extensions/test-vp-vm2-wsi]
azurerm_network_interface_security_group_association.example: Destruction complete after 10s
azurerm_network_security_group.mynsg: Destroying... [id=/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/networkSecurityGroups/test-vp-vm2-nsg]
azurerm virtual machine extension.web server install: Still destroying... [id=/subscriptions/f27a2135-
1ae7-44b2-b514-...test-vp-vm2/extensions/test-vp-vm2-wsi, 10s elapsed]
azurerm network security group.mynsg: Destruction complete after 3s
azurerm_virtual_machine_extension.web_server_install: Still destroying... [id=/subscriptions/f27a2135-
1ae7-44b2-b514-...test-vp-vm2/extensions/test-vp-vm2-wsi, 20s elapsed]
azurerm_virtual_machine_extension.web_server_install: Still destroying... [id=/subscriptions/f27a2135-
1ae7-44b2-b514-...test-vp-vm2/extensions/test-vp-vm2-wsi, 30s elapsed]
azurerm virtual machine extension.web server install: Destruction complete after 32s
azurerm windows virtual machine.main: Destroying... [id=/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Compute/virtualMachines/test-vp-vm2]
azurerm windows virtual machine.main: Still destroying... [id=/subscriptions/f27a2135-1ae7-44b2-
b514-...ft.Compute/virtualMachines/test-vp-vm2, 10s elapsed]
azurerm_windows_virtual_machine.main: Still destroying... [id=/subscriptions/f27a2135-1ae7-44b2-
b514-...ft.Compute/virtualMachines/test-vp-vm2, 20s elapsed]
azurerm_windows_virtual_machine.main: Still destroying... [id=/subscriptions/f27a2135-1ae7-44b2-
b514-...ft.Compute/virtualMachines/test-vp-vm2, 30s elapsed]
azurerm windows virtual machine.main: Still destroying... [id=/subscriptions/f27a2135-1ae7-44b2-
b514-...ft.Compute/virtualMachines/test-vp-vm2, 40s elapsed]
azurerm windows virtual machine.main: Still destroying... [id=/subscriptions/f27a2135-1ae7-44b2-
b514-...ft.Compute/virtualMachines/test-vp-vm2, 50s elapsed]
azurerm_windows_virtual_machine.main: Still destroying... [id=/subscriptions/f27a2135-1ae7-44b2-
b514-...ft.Compute/virtualMachines/test-vp-vm2, 1m0s elapsed]
azurerm windows virtual machine.main: Destruction complete after 1m1s
azurerm_network_interface.mynic: Destroying... [id=/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/networkInterfaces/test-vp-vm2-nic]
azurerm network interface.mynic: Still destroying... [id=/subscriptions/f27a2135-1ae7-44b2-b514-
...work/networkInterfaces/test-vp-vm2-nic, 10s elapsed]
azurerm network interface.mynic: Destruction complete after 13s
azurerm subnet.mysubnet: Destroying... [id=/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/virtualNetworks/test-vp-vm2-vnet/subnets/test-vp-vm2-
subnet]
azurerm public ip.mypublicip: Destroying... [id=/subscriptions/f27a2135-1ae7-44b2-b514-
f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339-
103af1464d8d/providers/Microsoft.Network/publicIPAddresses/test-vp-vm2-public-ip]
azurerm subnet.mysubnet: Still destroying... [id=/subscriptions/f27a2135-1ae7-44b2-b514-...vp-vm2-
vnet/subnets/test-vp-vm2-subnet, 10s elapsed]
```

azurerm_public_ip.mypublicip: Still destroying... [id=/subscriptions/f27a2135-1ae7-44b2-b514-...ublicIPAddresses/test-vp-vm2-public-ip, 10s elapsed]
azurerm_public_ip.mypublicip: Destruction complete after 11s
azurerm_subnet.mysubnet: Destruction complete after 12s
azurerm_virtual_network.myvnet: Destroying... [id=/subscriptions/f27a2135-1ae7-44b2-b514-f0b7b1dcbfba/resourceGroups/learn-bbb8ac88-ed01-42c1-a339103af1464d8d/providers/Microsoft.Network/virtualNetworks/test-vp-vm2-vnet]
azurerm_virtual_network.myvnet: Still destroying... [id=/subscriptions/f27a2135-1ae7-44b2-b514-...twork/virtualNetworks/test-vp-vm2-vnet, 10s elapsed]
azurerm_virtual_network.myvnet: Destruction complete after 11s

Destroy complete! Resources: 8 destroyed.

D:\Terraform\terraform_azure\VM>