

## Assignment-4

### Allocate Static IPs to VMs

1. Navigate to the Azure Portal.
2. Select your Virtual Machine.
3. Go to the Networking tab.
4. Select the Network Interface linked to your VM.
5. Click on IP Configurations.
6. Select the IP Configuration.
7. Change the Assignment to Static.
8. Enter the desired Static IP.
9. Save the configuration.

### Create a Network Security Group (NSG)

1. Navigate to the Azure Portal.
2. Click on "Create a resource".
3. Search for "Network Security Group".
4. Click "Create".
5. Fill in the details:
  - Subscription: Choose your subscription.
  - Resource Group: Select or create a new resource group.
  - Name: Enter a name for the NSG.
  - Region: Choose the region.
6. Click "Review + create".
7. Click "Create".

### Create a Public IP

1. Navigate to the Azure Portal.
2. Click on "Create a resource".
3. Search for "Public IP address".
4. Click "Create".
5. Fill in the details:
  1. Subscription: Choose your subscription.
  2. Resource Group: Select or create a new resource group.
  3. Name: Enter a name for the Public IP.
  4. SKU: Choose "Basic" or "Standard".
  5. Assignment: Choose "Static" or "Dynamic".
  6. IP Version: Choose "IPv4" or "IPv6".
6. Click "Review + create".
7. Click "Create".

## Associate/De-associate Public IP with a Virtual Machine

1. Navigate to the Azure Portal.
2. Select your Virtual Machine.
3. Go to the Networking tab.
4. Select the Network Interface linked to your VM.
5. Click on IP Configurations.
6. Select the IP Configuration.
7. To associate a Public IP:

1. Click on "Associate".
2. Select the Public IP you created.
3. Click "Save".

8. To de-associate a Public IP:

1. Click on the Public IP address.
2. Click "Disassociate".
3. Click "Save".

## Create a Network Interface

1. Navigate to the Azure Portal.
2. Click on "Create a resource".
3. Search for "Network Interface".
4. Click "Create".
5. Fill in the details:
  1. Subscription: Choose your subscription.
  2. Resource Group: Select or create a new resource group.
  3. Name: Enter a name for the Network Interface.
  4. Virtual Network: Choose an existing virtual network.
  5. Subnet: Choose an existing subnet.
  6. Private IP Address: Choose Static or Dynamic.
  7. Network Security Group: Choose an existing NSG if needed.
  8. Public IP Address: Associate a public IP if needed.
6. Click "Review + create".
7. Click "Create".