Week 4 Assignment

Allocate Static IPs to all VM's Creating a Network Security Group Creating Public IP Associating/De-associating Public IP with virtual machine Creation of Network Interface

Here's a step-by-step guide to perform each task:

1.Allocate Static IPs to All VMs

To allocate a static private IP address to a VM's network interface, use the following Azure CLI command:

```
az network nic ip-config update \
  --name <ip-config-name> \
  --nic-name <nic-name> \
  --resource-group <resource-group-name> \
  --private-ip-address <static-ip-address>
```

2.Creating a Network Security Group (NSG)

To create a Network Security Group, use the following command:

```
az network nsg create \
  --resource-group <resource-group-name> \
  --name <nsg-name>
```

To add a rule to the NSG:

```
az network nsg rule create \
  --resource-group <resource-group-name> \
  --nsg-name <nsg-name> \
  --name <rule-name> \
  --priority <priority> \
  --source-address-prefixes <source-address-prefixes> \
  --destination-address-prefixes <destination-address-prefixes> \
```

```
  --access <allow/deny> \

  --protocol <protocol> \

  --direction <inbound/outbound> \

  --source-port-ranges <source-port-ranges> \

  --destination-port-ranges <destination-port-ranges>
```

3.Creating a Public IP

To create a Public IP address:

```
az network public-ip create \

  --resource-group <resource-group-name> \

  --name <public-ip-name>
```

4.Associating/De-associating Public IP with a VM

To associate a Public IP with a VM's network interface:

```
az network nic ip-config update \

  --name <ip-config-name> \

  --nic-name <nic-name> \

  --resource-group <resource-group-name> \

  --public-ip-address <public-ip-name>
```

To de-associate a Public IP from a VM's network interface:

```
az network nic ip-config update \

  --name <ip-config-name> \

  --nic-name <nic-name> \

  --resource-group <resource-group-name> \

  --remove publicIpAddress
```

5.Creation of Network Interface

To create a network interface:

```
az network nic create \
 --resource-group <resource-group-name> \
 --name <nic-name> \
 --vnet-name <vnet-name> \
 --subnet <subnet-name> \
 --network-security-group <nsg-name> \
 --public-ip-address <public-ip-name>
```

Replace <resource-group-name>, <ip-config-name>, <nic-name>, <static-ip-address>, <nsg-name>, <rule-name>, <priority>, <source-address-prefixes>, <destination-address-prefixes>, <allow/deny>, <protocol>, <inbound/outbound>, <source-port-ranges>, <destination-port-ranges>, <public-ip-name>, <vnet-name>, and <subnet-name> with the appropriate values for your setup.