

Azure CLI Network Interfaces

TRAINING MATERIALS - MODULE HANDOUT

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Overview

Network Interfaces can be attached to Virtual Machines and just like a Network Interface Card (NIC) on your computer and phone such as an ethernet port or wireless adapter, this allows Virtual Machines to communicate over networks including the internet. A NIC can exist before the virtual machine.

Creating

Basic Usage

The name, Virtual Network, Subnet and Resource Group need to be provided when creating a virtual network.

```
az network nic create --resource-group [RESOURCE_GROUP_NAME] --name
[NETWORK_INTERFACE_NAME] --vnet-name [VIRTUAL_NETWORK_NAME] --subnet
[SUBNET_NAME]
```

```
az network nic create --resource-group MyResourceGroup --name
MyNetworkInterface --vnet-name MyVirtualNetwork --subnet MySubnet
```

Creating with a Network Security Group

Network Security Group rules can be applied to the new NIC, remember NSG's can also be applied to Subnets instead of every NIC.

```
az network nic create --resource-group [RESOURCE_GROUP_NAME] --name
[NETWORK_INTERFACE_NAME] --vnet-name [VIRTUAL_NETWORK_NAME] --subnet
[SUBNET_NAME] --network-security-group [NETWORK_SECURITY_GROUP_NAME]
```

```
az network nic create --resource-group MyResourceGroup --name
MyNetworkInterface --vnet-name MyVirtualNetwork --subnet MySubnet
--network-security-group MyNetworkSecurityGroup
```

Creating with a Public IP Address

Subnets can be created with your new Virtual Network in the same command.

```
az network nic create --resource-group [RESOURCE_GROUP_NAME] --name  
[NETWORK_INTERFACE_NAME] --vnet-name [VIRTUAL_NETWORK_NAME] --subnet  
[SUBNET_NAME] --public-ip-address [PUBLIC_IP_ADDRESS_NAME]
```

```
az network nic create --resource-group MyResourceGroup --name  
MyNetworkInterface --vnet-name MyVirtualNetwork --subnet MySubnet  
--public-ip-address MyPublicIP
```

Deleting

Basic Usage

Provide the name and Resource Group of the Network Interface.

```
az network nic delete --resource-group [RESOURCE_GROUP_NAME] --name  
[NETWORK_INTERFACE_NAME]
```

```
az network nic delete --resource-group MyResourceGroup --name  
MyNetworkInterface
```

Tasks

- Create a resource group called **NetworkInterfaceExercises**
- Create a Virtual Network called **MyVirtualNetwork**, with a Subnet called **MySubnet**
- Create a Network Interface with Public IP, which also has a Fully Qualified Domain Name. When creating the new NIC, create it in the Virtual Network and Subnet that you created in the previous step. Call the Network Interface **MyNetworkInterface**.
- Create a Network Security Group called **MyNetworkSecurityGroup**
- Create a Rule for your new NSG to allow incoming traffic from anywhere on port 22
- Delete the Network Interface you created and create it again the same, but with the new NSG applied to it.
- Delete the **NetworkInterfaceExercises** Resource Group.