

Azure CLI Virtual Networks

TRAINING MATERIALS - MODULE HANDOUT

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Overview

Networking in Azure and Cloud Computing in general is a very important and important topic to be able to understand and create solutions for. Virtual Networks (**VNets**) in Azure are networks that we can create for adding resources like virtual machines to.

Creating

Basic Usage

The name and Resource Group need to be provided when creating a virtual network.

```
az network vnet create --resource-group [RESOURCE_GROUP] --name [VNET_NAME]
```

```
az network vnet create --resource-group MyResourceGroup --name
MyVirtualNetwork
```

Address Prefixing

The address prefix is the address range for the the virtual network, defined with CIDR notation. The default is **10.0.0.0/16**.

```
az network vnet create --resource-group [RESOURCE_GROUP] --name [VNET_NAME]
--address-prefixes [ADDRESS_PREFIX]
```

```
az network vnet create --resource-group MyResourceGroup --name
MyVirtualNetwork --address-prefixes 10.0.0.0/16
```

Create a Subnet

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

```
az network vnet create --resource-group [RESOURCE_GROUP] --name [VNET_NAME]
--address-prefixes [ADDRESS_PREFIX] --subnet-name [SUBNET_NAME]
--subnet-prefix [SUBNET_PREFIX]
```

```
az network vnet create --resource-group MyResourceGroup --name
MyVirtualNetwork --address-prefixes 10.0.0.0/16 --subnet-name MySubnet
--subnet-prefix 10.0.0.0/24
```

Deleting

Basic Usage

Provide the name and Resource Group of the Virtual Network.

```
az network vnet delete --resource-group [RESOURCE_GROUP] --name [VNET
_NAME]
```

```
az network vnet delete --resource-group MyResourceGroup --name
MyVirtualNetwork
```

Tasks

- Create a new Resource Group called **VirtualNetworkExercises**
 - Set the new Resource Group as your default resource group
- Create a new Virtual Network called **FirstNetwork**
 - View information about the new network that you made
- Create a new Virtual Network:
 - Called **SecondNetwork**
 - **10.0.0.0/16** Address Prefix
 - A Subnet:
 - Called **FirstSubnet**
 - **10.0.0.0/24** Address Prefix
- Delete the **VirtualNetworkExercises** Resource Group