Implement Traffic Management

Task 1: Provision the lab environment

Graphical user interface, text

Description automatically generated

Three virtual networks and four VMs deployed in East Us. (I choose this region because I think it supports 8vCPUs in Standard\_Dsv3 series)

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated

Installing Network Watcher.

Task 2: Configure the hub and spoke network topology

(/subscriptions/6a1ed754-8451-423c-9809-c9c09c25f452/resourceGroups/az104-06-rg1/providers/Microsoft.Network/virtualNetworks/az104-06-vnet2) – resource id for az104-06-vnet2

/subscriptions/6a1ed754-8451-423c-9809-c9c09c25f452/resourceGroups/az104-06-rg1/providers/Microsoft.Network/virtualNetworks/az104-06-vnet3 resource id for az104-06-vnet3

Graphical user interface, text, application

Description automatically generated

We allowed the connection between vnet01 and vnet2 and the other way around, and also between vnet01 and vnet3 both ways connection.

Task 3: Test transitivity of virtual network peering

Graphical user interface, text, application, email

Description automatically generated

I checked the resource group and the installation of the network watcher the VMs everything is okay, but it doesn’t give me to choose other VMs. So I tried creating a new network watcher manually and that network watcher had a default resource group so I moved the resource group to az104-06-rg1. After a couple of minutes and all of the vms showed up.

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

* Connection between vm0 and the ip of vm2

Graphical user interface, application

Description automatically generated

* Connection between vm0 and the ip of vm3

Graphical user interface

Description automatically generated

* Connection between vm2 and the ip of vm3

Task 4: Configure routing in the hub and spoke topology

Graphical user interface, text, application, email

Description automatically generated

Enable vm0 as a router.

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Routing table

Graphical user interface, text, application, email

Description automatically generated

Add new route

Graphical user interface, text, application

Description automatically generated

Subnet for the routing table between vnet2 and vnet 3 both ways

Graphical user interface

Description automatically generated

Now the connections is a success.

Task 5: Implement Azure Load Balancer

Graphical user interface, text, application

Description automatically generated

104.211.56.156 (PublicIpNew)

Graphical user interface, text, application

Description automatically generated

Graphical user interface

Description automatically generated with low confidence

Task 6: Implement Azure Application Gateway

Graphical user interface, text, application, email

Description automatically generated

Created a new subnet witch it will be used by the application gateway instance.

Graphical user interface, text, application

Description automatically generated

New gateway app

20.124.127.13 (az104-06-pip5) Public Ip of the gateway

A picture containing graphical user interface

Description automatically generated

A picture containing graphical user interface

Description automatically generated

Now the traffic is from vm2 and vm3.