# Assignment 5: Implement Network Traffic Management

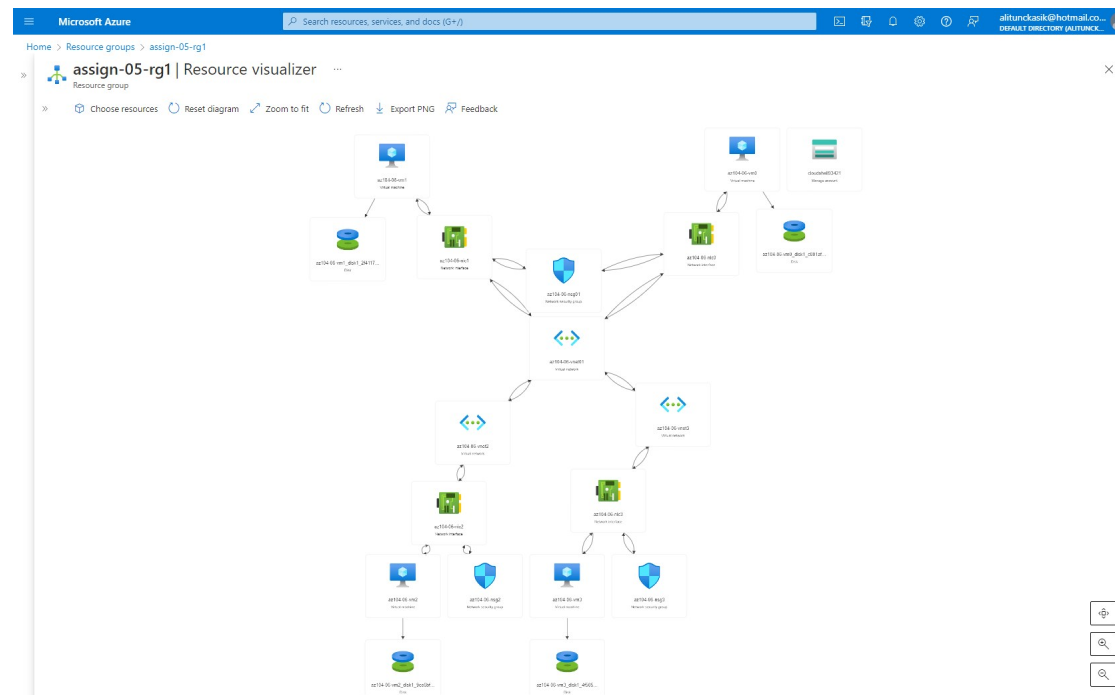**+ Task 1: Provision the lab environment**
+ Task 2: Configure the hub and spoke network topology
+ Task 3: Test transitivity of virtual network peering
+ Task 4: Configure routing in the hub and spoke topology
+ Task 5: Implement Azure Load Balancer
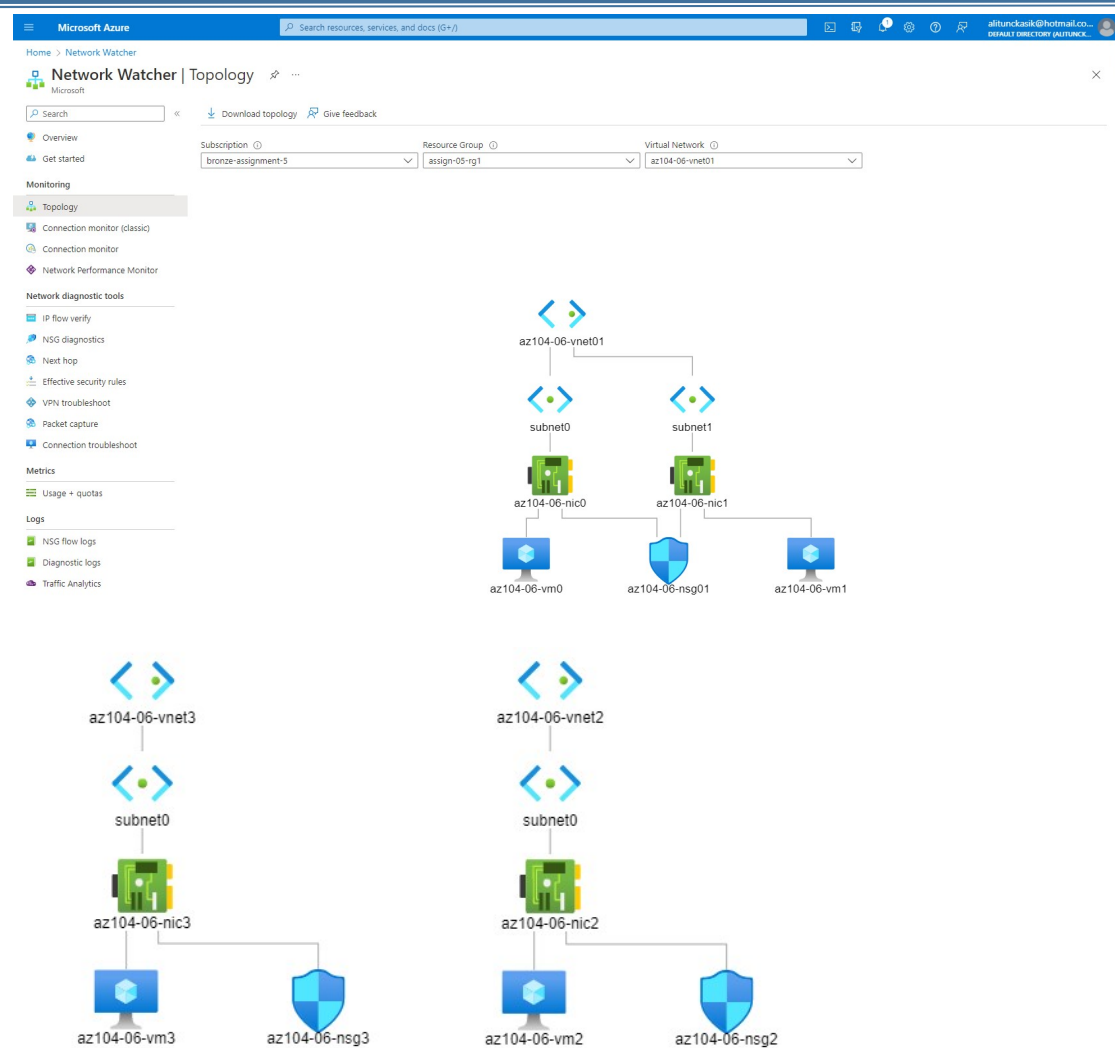**+ Task 6: Implement Azure Application Gateway**

After Task 1

Mehmet Ali TUNCKASIK
DEOP.CA
Assignment 5
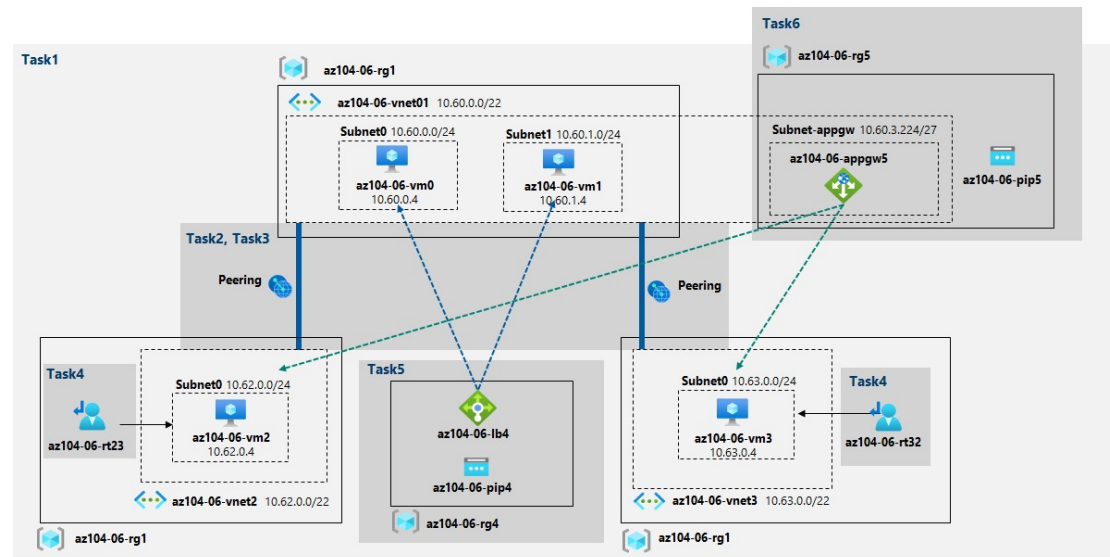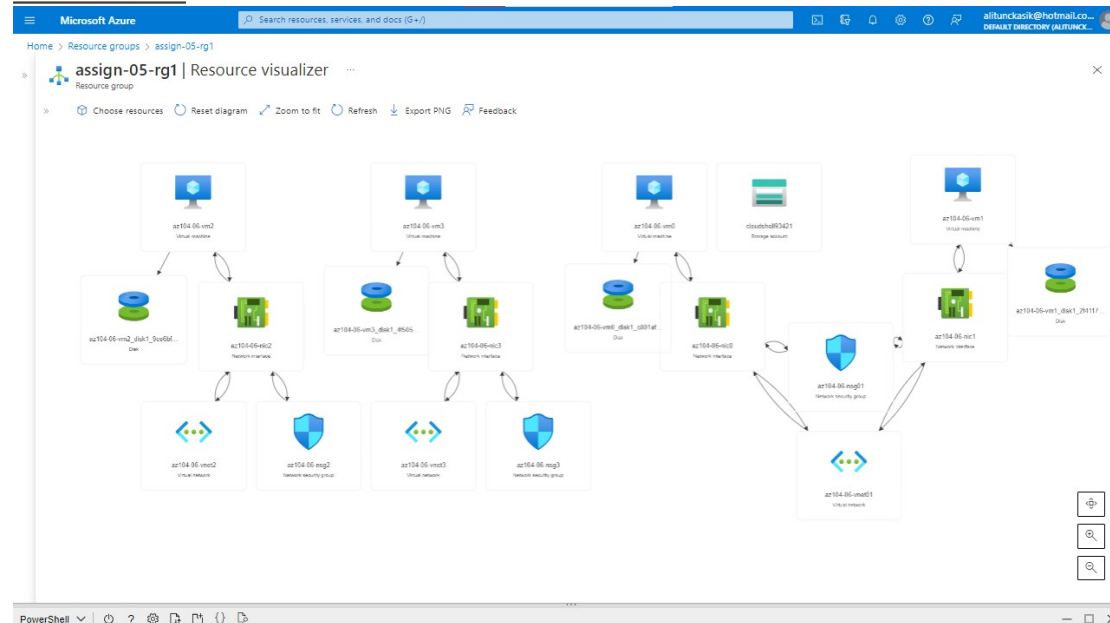
After Task 2

After Task 2 and 3 Topology of Vnet01

Mehmet Ali TUNCKASIK
DEOP.CA
Assignment 5

Task 3: Testing Connectivity
Expected Result is reachable for vm0 to vm2 and vm3

Status
✅ Reachable

Agent extension version
1.4

Source virtual machine
az104-06-vm0

Grid view Topology view

Hops

Name	IP address	Status	Next hop IP address	RTT
🖥 az104-06-vm0	10.60.0.4	✅	10.62.0.4	0
☁ az104-06-vm2	10.62.0.4	✅	-	-

Status
✅ Reachable

Agent extension version
1.4

Source virtual machine
az104-06-vm0

Grid view Topology view

Hops

Name	IP address	Status	Next hop IP address	RTT
🖥 az104-06-vm0	10.60.0.4	✅	10.63.0.4	0
☁ az104-06-vm3	10.63.0.4	✅	-	-

After Task 4 - Configured routing in the hub and spoke topology
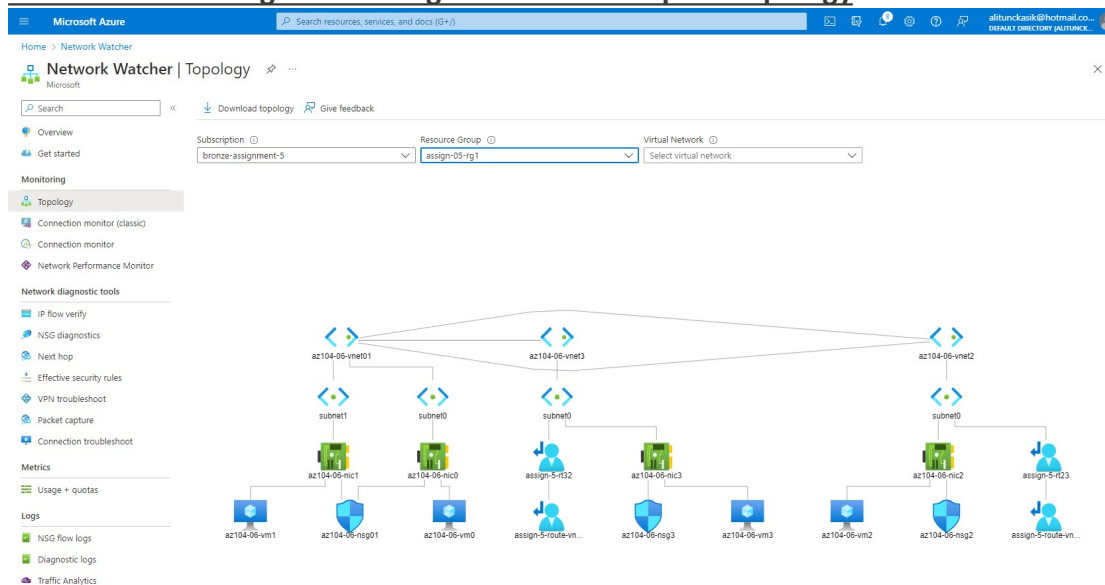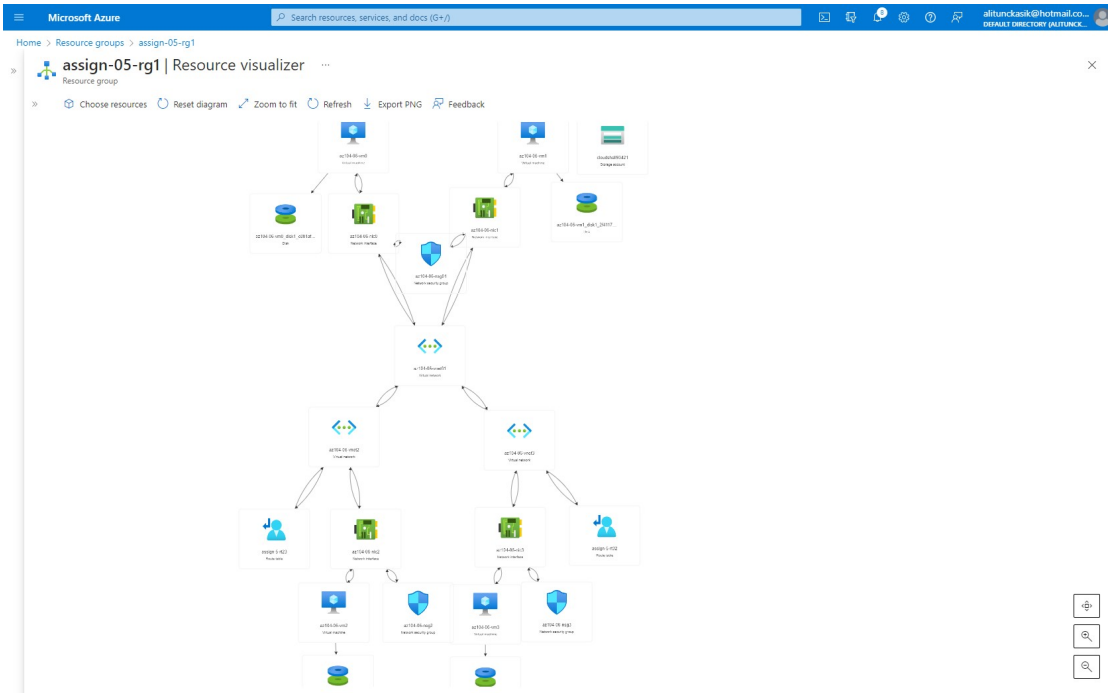
Now testing connectivity between Vm2 to Vm3

Status

✅ Reachable

Agent extension version

1.4

Source virtual machine

az104-06-vm2

Grid view   Topology view

Hops

Name	IP address	Status	Next hop IP address	RTT
🖥️ az104-06-vm2	10.62.0.4	✅	10.60.0.4	-
🖥️ az104-06-nic0	10.60.0.4	✅	10.63.0.4	-
☁️ az104-06-vm3	10.63.0.4	✅	-	-

Task 5: Implementing Load Balancer

Mehmet Ali TUNCKASIK
DEOP.CA
Assignment 5

☰ **Microsoft Azure** 　　　　　　　🔍 Search res

Home > Load balancing | Load Balancer >

Create load balancer ···

✅ Validation passed

Basics　　Frontend IP configuration　　Backend pools　　Inbound rules

Basics

Subscription	bronze-assignment-5
Resource group	(new) assign-5-rg4
Name	assign-5-lb4
Region	East US
SKU	Standard
Tier	Regional
Type	Public

Frontend IP configuration

Frontend IP configuration name	assign-5-pip4
Frontend IP configuration IP address	To be created

Backend pools

Backend pool name	assign-5-lb4-be1

Inbound rules

Load balancing rule name	assign-5-lb4-lbrule1
Health probe name	assign-5-lb4-hp1

Outbound rules

None

Tags

None

Create　　　< Previous　　　Next >　　　Download a template

https://portal.azure.com/#

Task 6: Application Gateway

Microsoft Azure

Search
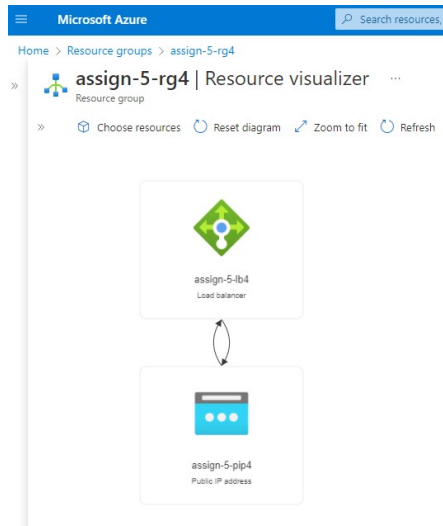
Home > Load balancing | Application Gateway >

Create application gateway ...

✓ Validation passed

✓ Basics   ✓ Frontends   ✓ Backends   ✓ Configuration

Basics

|	
Subscription	bronze-assignment-5
Resource group	(new) assign-5-rg5
Name	assign-5-appgw5
Region	East US
Tier	Standard_v2
Enable autoscaling	Disabled
Instance count	2
Availability zone	None
HTTP2	Disabled
Virtual network	az104-06-vnet01
Subnet	subnet-appgw5 (10.60.3.224/27)
Subnet address space	10.60.3.224/27

Frontends

Public IP address name	assign-5-pip5
SKU	Standard
Assignment	Static
Availability zone	None

Tags

None
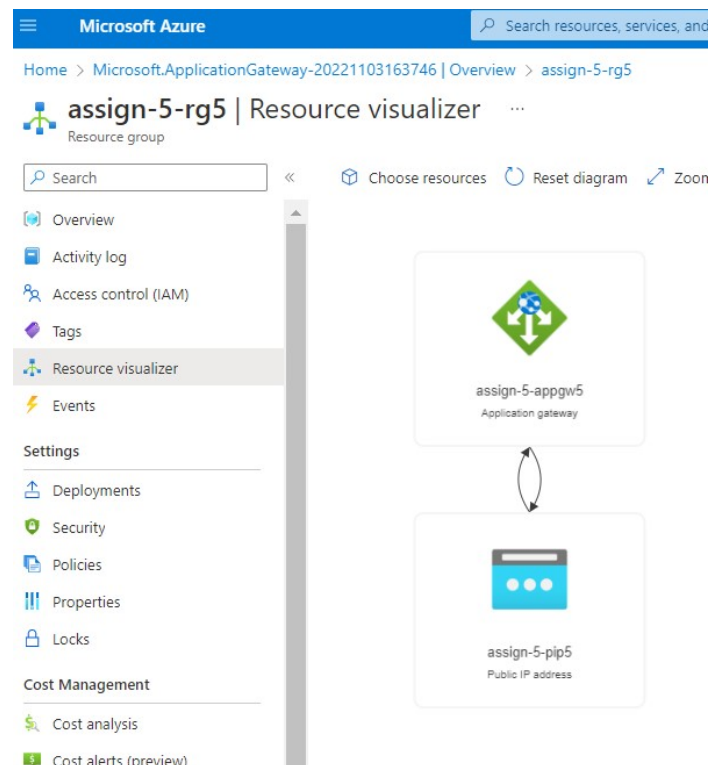
LAST Screen for Topology of the diagram
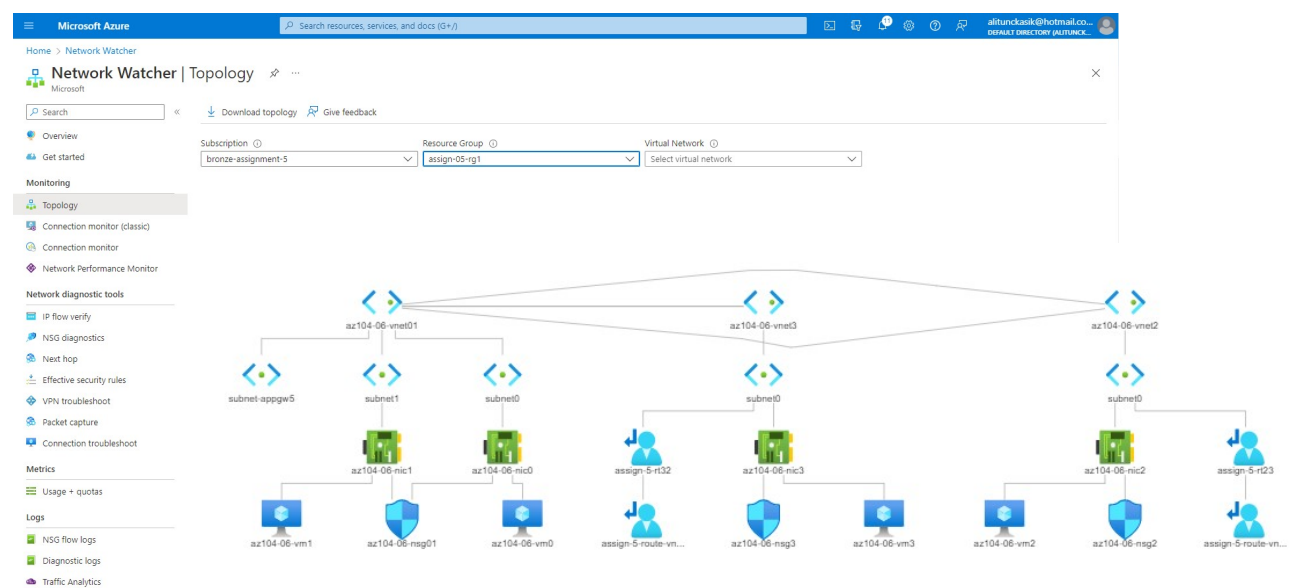
Connection to Linux Virtual Machine