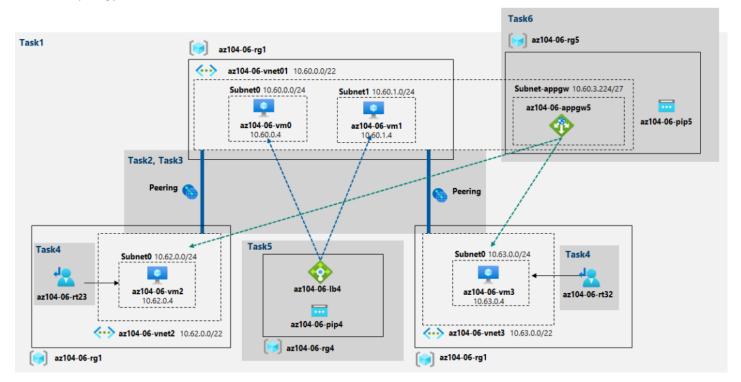
Implement Traffic Management

Topology 1.0:



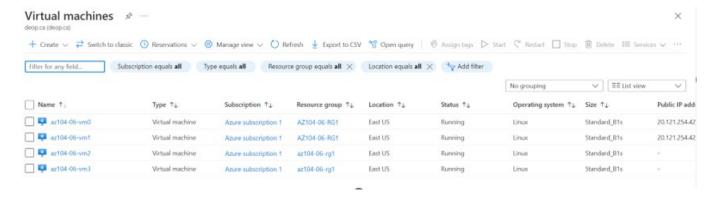
Solution of Implement Traffic Management step by step:

- 1. Provision the environment
- 2. Configure hub and spoke network topology
- 3. Test transitivity of virtual networking peering
- 4. Configure routing in the hub and spoke topology
- 5. Implement Azure Load Balancer
- 6. Implement Azure Application Gateway

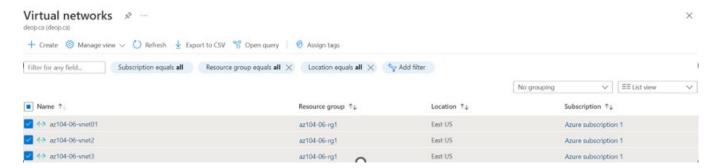
Step 1:

Created 4 virtual machines from azure portal according to the Topology 1.0;

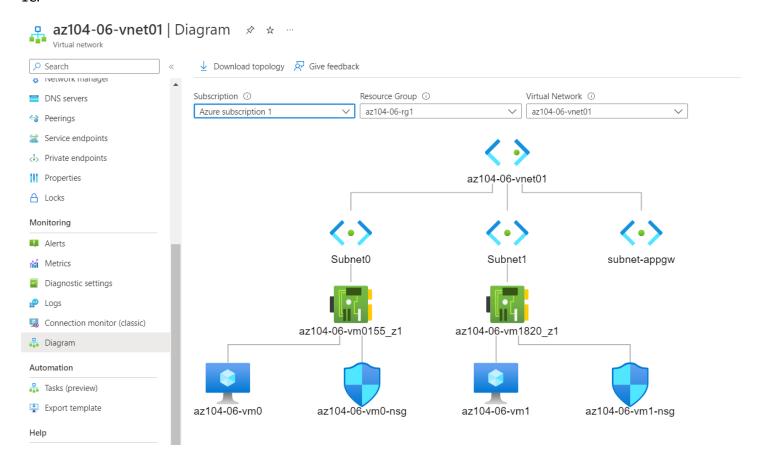
- be careful vnets and subnets configurations
- there is no public ip on the vm's
- don't forget to save-download your json files
- all vm's will be in the same rg
- NEXT 6 pictures (1A...1F) show VMs, VNETs and RG configuration.
- On the file storage part on GitHub, you can see-download ARM templates as a separate file.



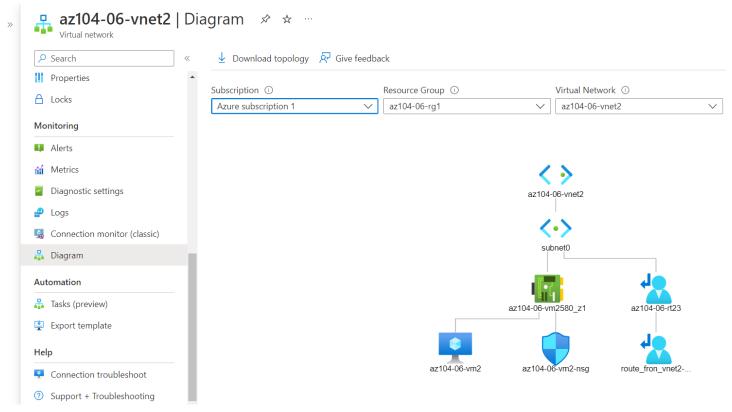
1B.



1C.

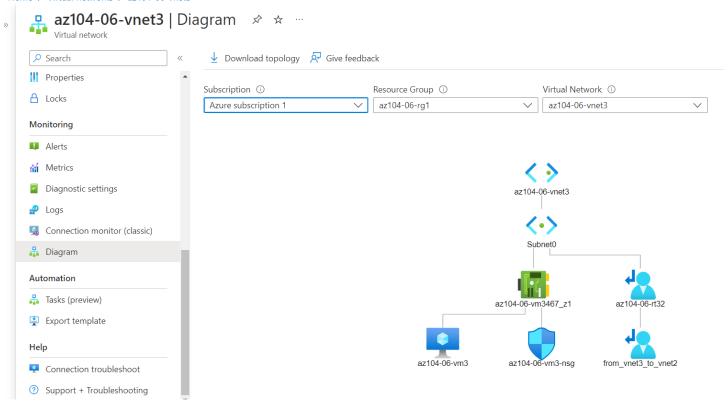


Home > Virtual networks > az104-06-vnet2



1E.

Home > Virtual networks > az104-06-vnet3



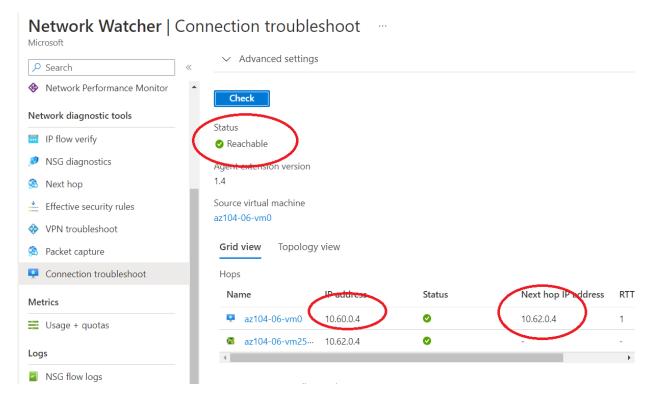
Home > Resource groups > az104-06-rg1 az104-06-rg1 | Resource visualizer Search \bigcirc Choose resources \bigcirc Reset diagram \nearrow Zoom to fit \bigcirc Refresh $\underline{\downarrow}$ Export PNG \nearrow Feedback Uverview Activity log Access control (IAM) Tags Resource visualizer Events **<**•>> Settings 0 Deployments **<**•>> **<··>** Security Policies Properties Locks **Cost Management** Section Cost analysis Cost alerts (preview)

Step 2-3:

Budgets

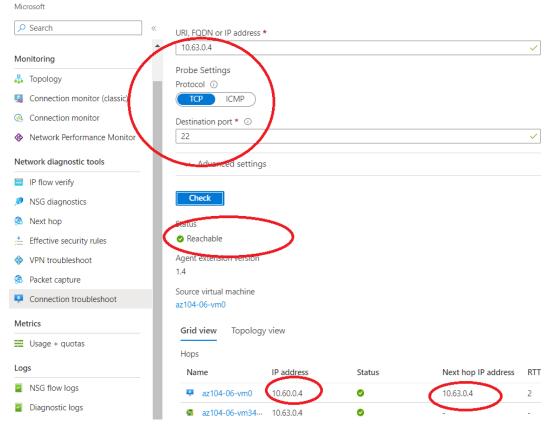
Created 2 VNET peering between vnet01-vnet2 and vnet01-vnet3 like on the Topology 1.0;

- After setting up 2 peering check the connectivity between them.
- To check the connectivity is used **Network Watcher** (after altering the NW on the left pane use connection troubleshooting)
- Next 2 pictures (2A-2B) demonstrated the connectivity, all details on it



2B.





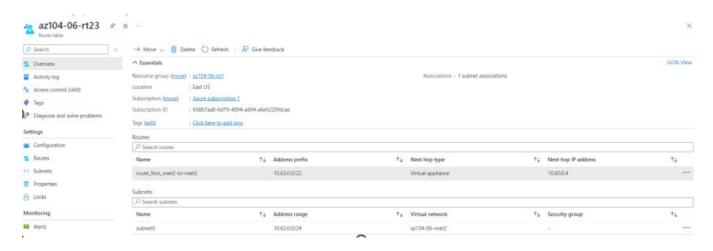


Created 2 route table which are route_from_vnet2-to-vnet3 and from_vnet3_to_vnet2.

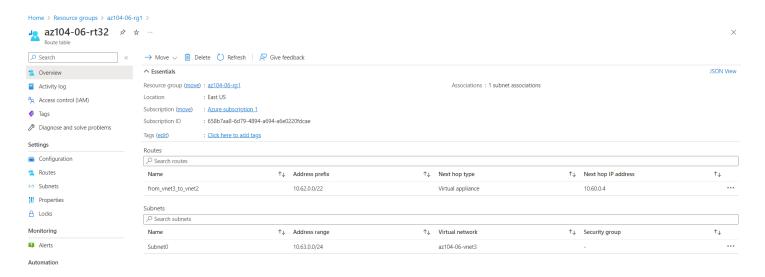
Topology 1.0;

Configuration, Next hop type and Next hop IP address is shown on the pictures (3A-3B)

3.A



3.B





Implemented Azure Load Balancer on vm0 and vm1 and named az104-06-lb4 like on the Topology 1.0;

- Implementation take placed on the resource group 4 (rg4)
- Public ip assigned to the Load balancer which is called az104-06-pip4
- Configuration is shown on the picture(4A...4D)

Name ↑↓

az104-06-pip4

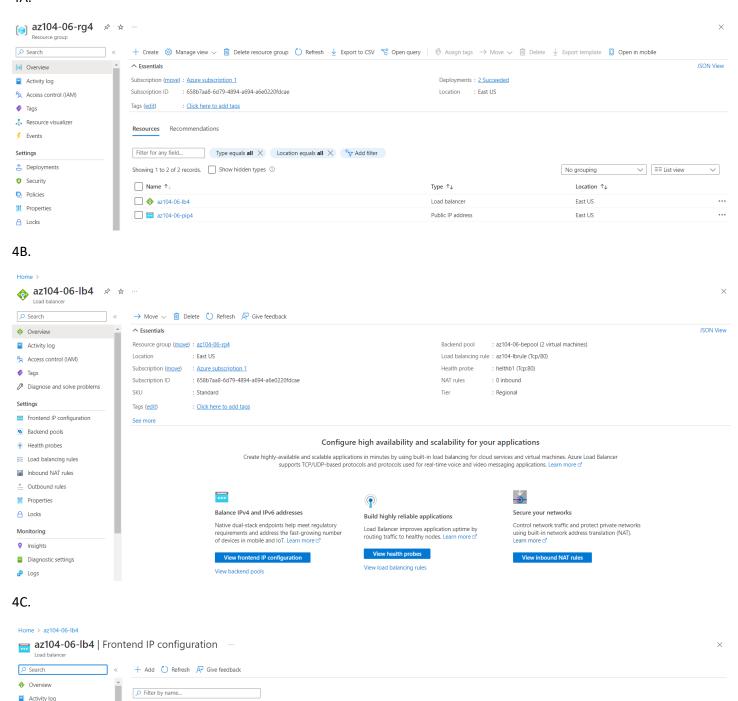
Access control (IAM)

Diagnose and solve problems

Tags

There is no NAT rules

4A.



IP address ↑↓

20.121.254.42 (az104-06-pip4)

Rules count ↑↓

4D.

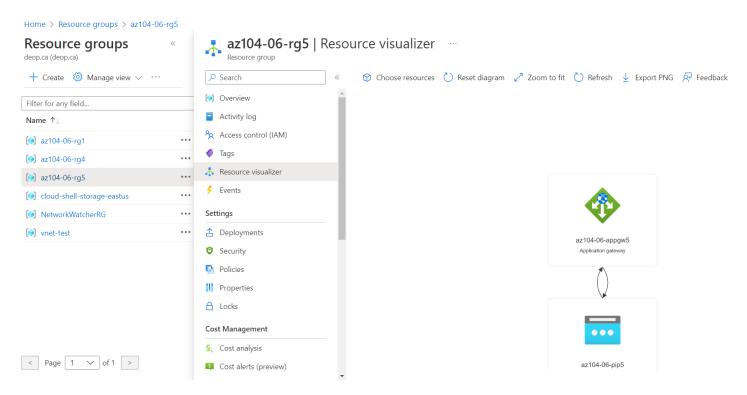


Step 6:

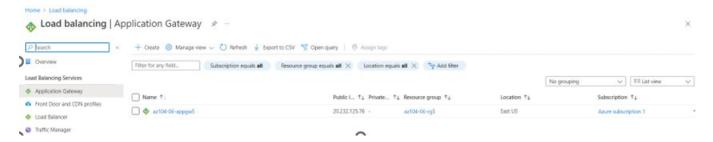
Implemented Azure Application Gateway on vm0 and vm1 and named az104-06-lb4 like on the Topology 1.0;

- Implementation take placed on the resource group 5 (rg5)
- Public ip assigned to the Load balancer which is called az104-06-pip5
- Configuration is shown on the picture(5A...5D)
- There is no NAT rules

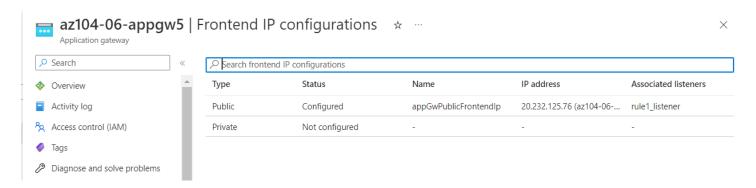
5A.



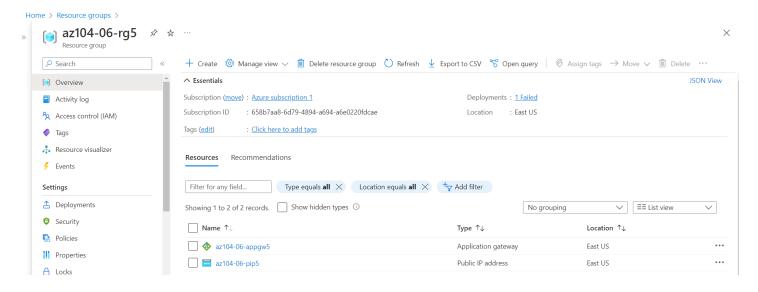
5B.



5C.



5D.



All configuration in a map.

