Microsoft Azure Administrator: Configure Load Balancing

CONFIGURING AND TROUBLESHOOTING AZURE LOAD BALANCER



Tim Warner
AUTHOR EVANGELIST, PLURALSIGHT

@TechTrainerTim TechTrainerTim.com







Overview



Understand Azure Load Balancer

Configure:

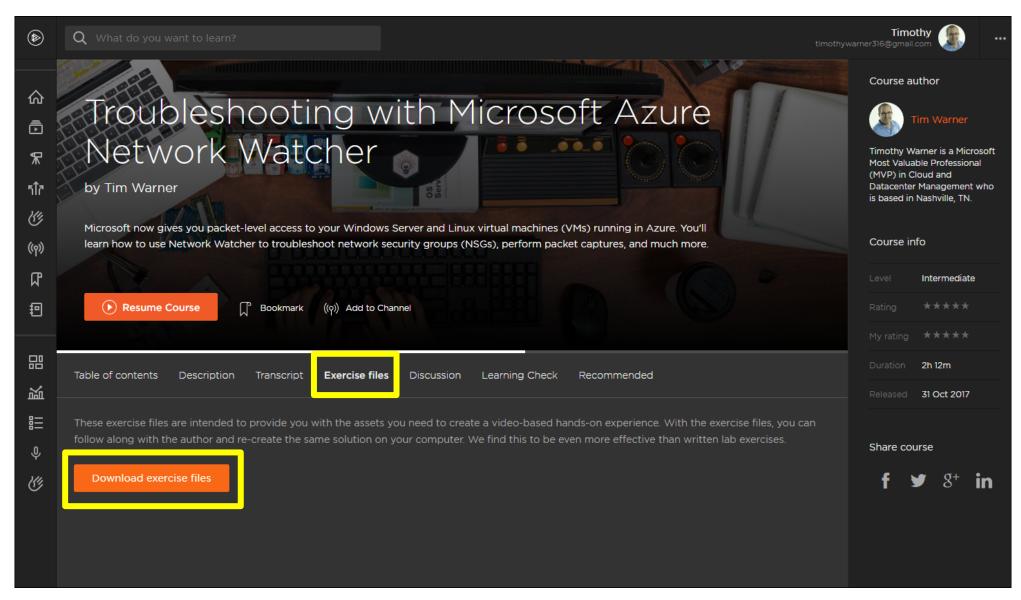
- Public load balancer
- Internal load balancer

Create load balancing rules

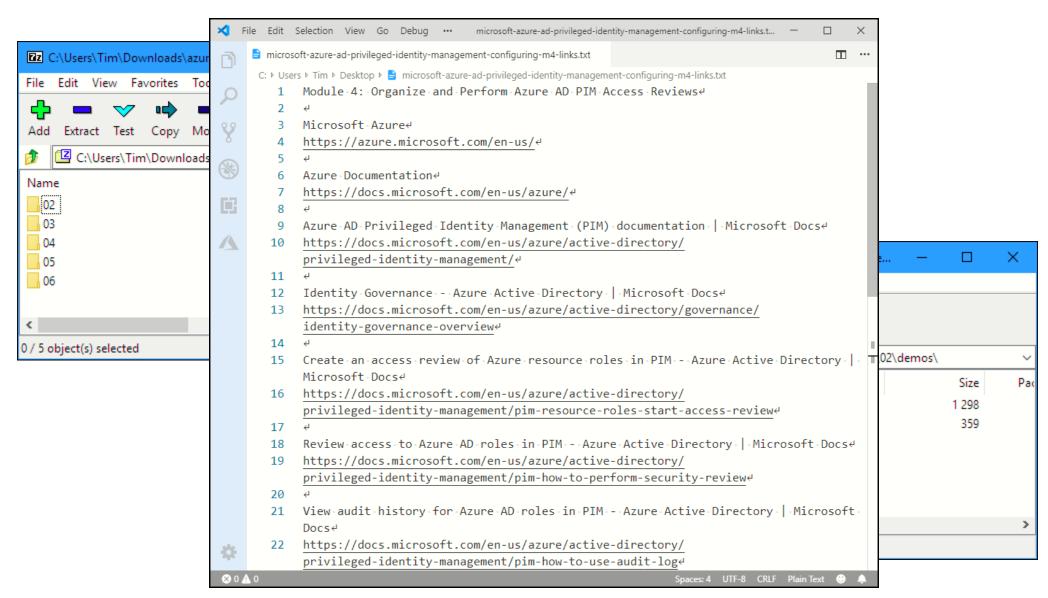
Troubleshoot load balancing



Exercise Files



Exercise Files

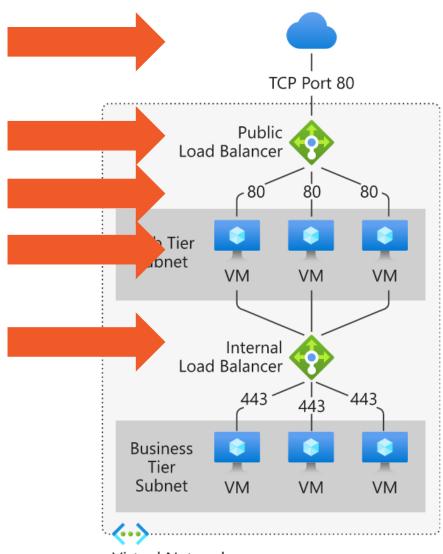




Understand Azure Load Balancer



Load Balancer Use Cases





High availability



Scalable performance

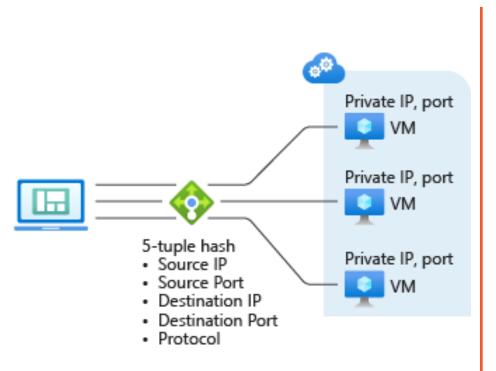


Best consumer experience





Azure Load Balancer



Front-end configuration

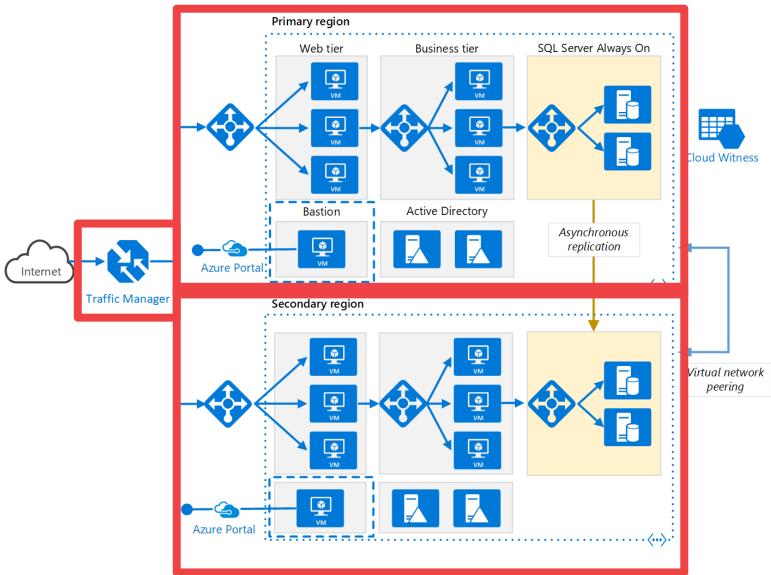
Hash-based distribution

Backend pool

Health probe



Reference Topology





Azure Load Balancer SKUs

Basic

Backend pool: 300 instances

Backend pool: Availability set, VMSS

No availability zones

Standard

Backend pool: 1000 instances

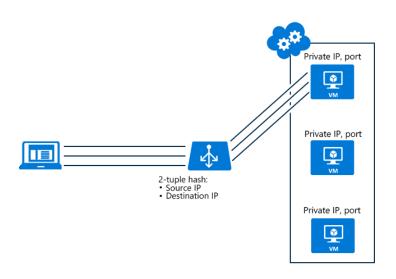
Backend pool: Any VM in a single VNet

Availability zone-aware

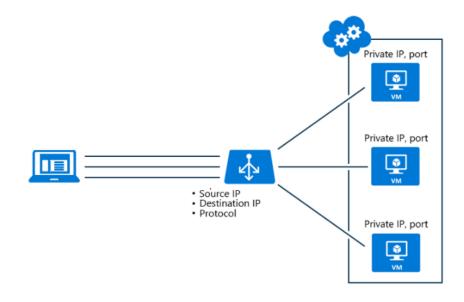
Azure LB SKU is not mutable



Session Affinity



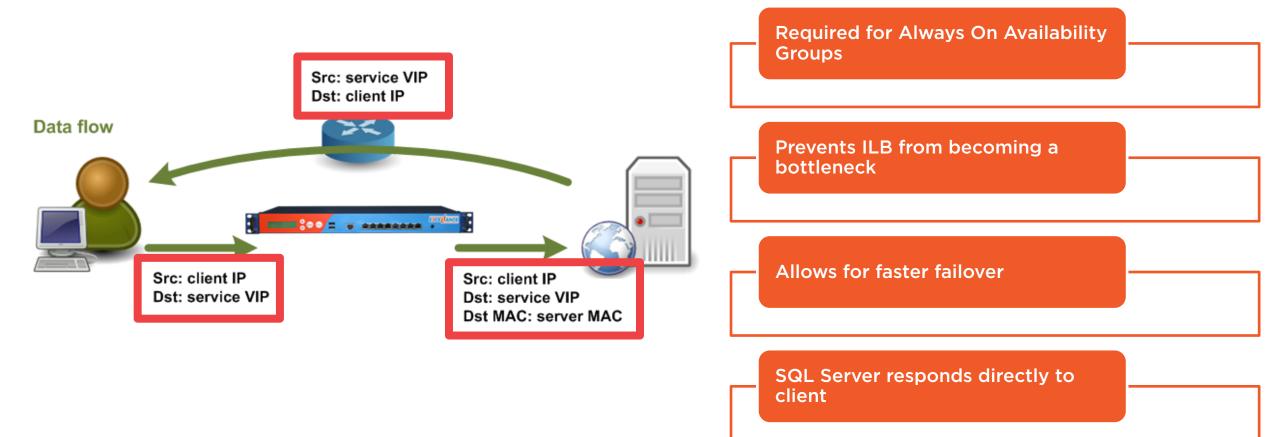
Client IP affinity
Use with RD Gateway



Client IP + protocol
Stateless workloads



Floating IP / Direct Server Return





Configure Azure Load Balancer



Load Balancer Deployment Questions



What type(s) of network traffic?

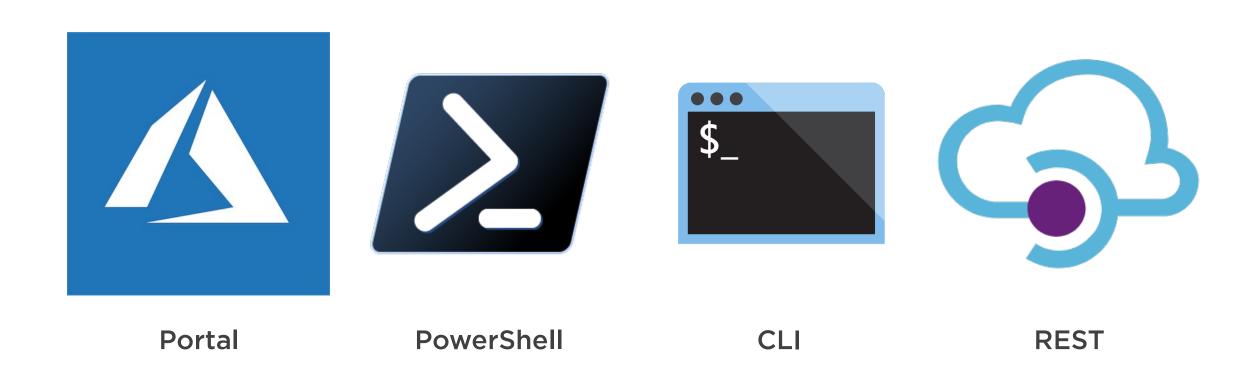
Azure Load Balancer or Application Gateway?

Public or internal?

Session affinity?



Deployment Methods

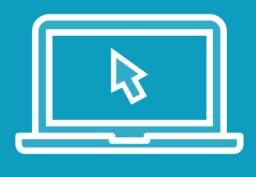


JSON ARM deployment template

Azure Blueprint definition



Demo



Describe scenario

- Two IIS web servers

Deploy public load balancer

Test connectivity



Troubleshoot Azure Load Balancer



Troubleshooting Tools

Service Health Resource Health **Azure Monitor Network Watcher PSPing TCPing Packet Capture**

Demo



Service Health / Resource Health
Network Watcher



Summary



Azure Load Balancer is excellent for general network traffic load balancing applications

You may need to consider a network virtual appliance (NVA)

If you're load balancing HTTP/S only, then consider Application Gateway

Next module: Configuring and Troubleshooting Azure Application Gateway

