

Assignment Week 3

1. What is Load balance ?

It is used to share the traffic/load(balance the load equally to have the best performance for the users) which is in high demand at application usage.

2. How many types of load balancer in Azure ?

There are 4 types of load balancer in Azure

Load balancer

Application Gateway

Traffic manager

Frontend Door service

3. What is the difference between Application gateway and load balancer?

Application Gateway	Load Balancer
Work at OSI Layer 7	Work at OSI Layer 4
It is regional	It is global
Routes the traffic by path and URL also the IP Address	Routes the traffic based on IP and port
Available WAF along with NSG	Available NSG
Http/Https/web sockets protocols	TCP and UDP protocols

4. What are OSI models and the types of layers?

OSI - Open System Interconnection.

It deals with the two systems to communicate with each other. To have easy problem solving in this we have 7 layers to communicate.

- Physical Layer
- Data Link layer
- Network layer
- Transport layer
- Session layer
- Presentation layer
- Application layer

5. Which are regional and global load balancers?

Application gateway is Regional Load Balancer.

Rest 3(Traffic manager, Load balancer and Frontend door service) are global Load balancer

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6. What is WAF?

WAF - Web Application Firewall

It helps to protect the web application from hacking by checking the request, filtering etc

7. What is a firewall ?

It is a network security group which will check the incoming and outgoing traffic on web applications. It is a kind of barrier between trusted network and untrusted network.

8. What BackendPool ?

Backend pool falls under load balancer which handles the database server by using defined rules.

9. What is FrontEnd IP ?

It is a type of listener which checks the incoming request.

10. What are health probes in load balancers ?

It is used to check the health of the particular load balancer services.

11. What are the routing rules in load balancer?

Backend Pool
FrontEnd IP
Inbound

12. What is EndPoint ?

It secures the URL.

13. Difference between the service and private endpoints

Service Endpoint reference : It is a Vnet which web service message can be addressed

Private Endpoints reference : It is a Vnet which gives you a secure connection.

14. What are the different algorithms azure provides?

NAT Rules (Network Address Translation)
Application Rules
Network Rules
Inbound Rules
Outbound rules