Azure DNS, Traffic Manager, Application Gateway, Load Balancer

Ranjit Karni

VPark Innovations

Ranjit.balu@gmail.com

Ph.No: 9676976662

Agenda

- 1. Azure DNS Server
- 2. Azure Traffic Manager
- 3. Azure Application Gateways
- 4. Azure Load Balancer

Azure DNS Server

Azure DNS is responsible for translating (or resolving) a website or service name to its IP address

Azure DNS is a hosting service for DNS domains and it provides name resolution using Azure infrastructure

Azure DNS features:

Reliability and Performance

Seamless Integration

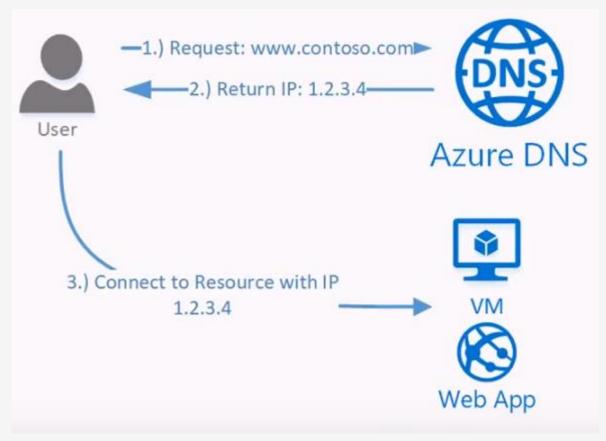
Security

DNS Zones Limitation

Zones per subscription: 100

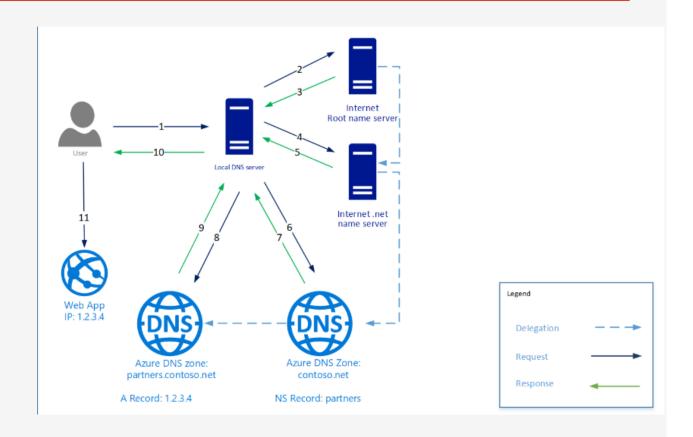
Record Set per Zones: 5000

Records per Record Set: 20



Types of DNS Servers

DNS Recursive Resolver / DNS resolver
Root Name Server
Top Level Domain / TLD name Server
Authoritative name Server



Azure Traffic Manager

Azure Traffic Manager allows us to control the distribution of user traffic. It can be used with Azure as well as external non-azure endpoints

Supported Traffic Manager Endpoints

Azure endpoints: Used for services hosted in Azure. Ex: VMs, Web Apps and cloud Services

External Endpoints: used for services hosted in on-premises or with a different hosting provider

Nested endpoints: Used to combine Traffic Manager profiles to create more flexible traffic-routing schemes to support the needs of larger, more complex deployments.

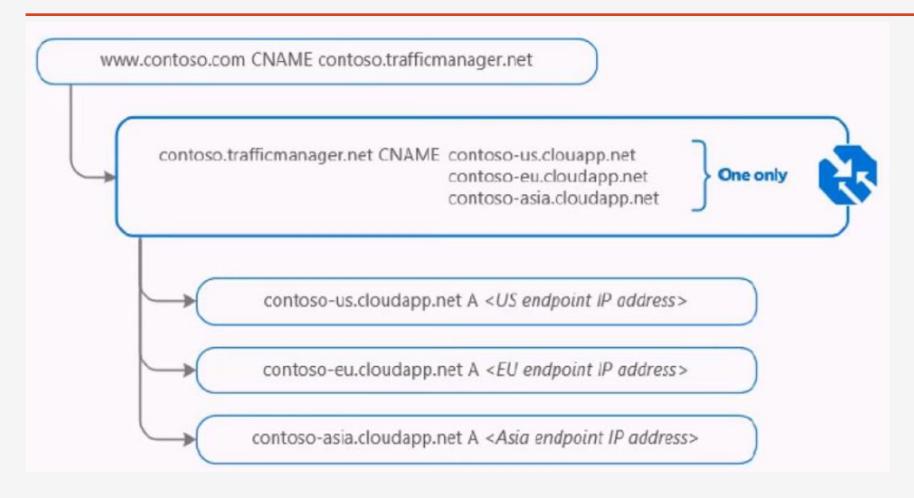
Features:

Traffic Manager improve availability of critical applications

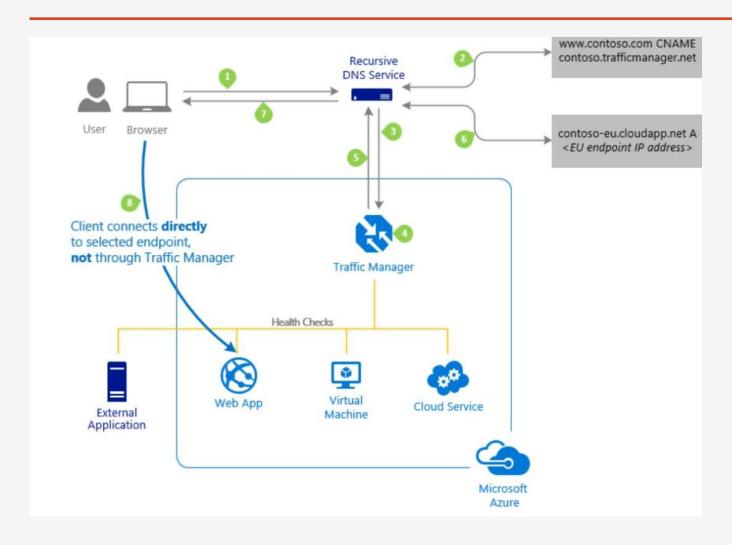
Help maintain services without downtime

Allows traffic distribution between on-premises and cloud based application

Azure Traffic Manager



Azure Traffic Manager



Azure Application Gateway

Application Gateway is providing application delivery controller (ADC) as a service

Supports Layer 7 load balancing capabilities for our application

Optimizes web farm productivity by offloading CPU intensive SSL termination to the application gateway

It can be configured as internet facing gateway, internal only gateway or a combination of both.

Application gateway Features:

Web Application Firewall

HTTP Load Balancing

Cookie-based session affinity

Secure Socket layer (SSL) offload

End to End SSL

URL-based content routing

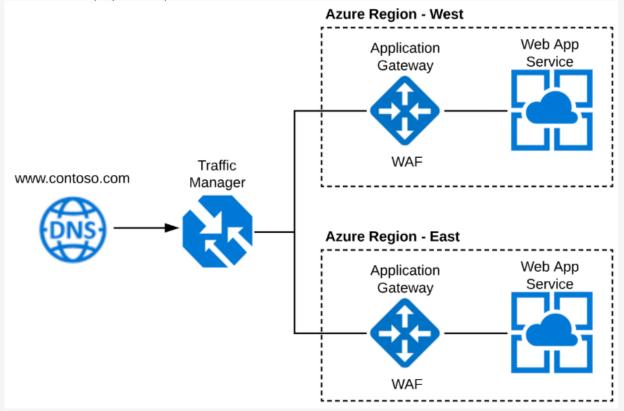
Multi-Site routing

Web Socket Support

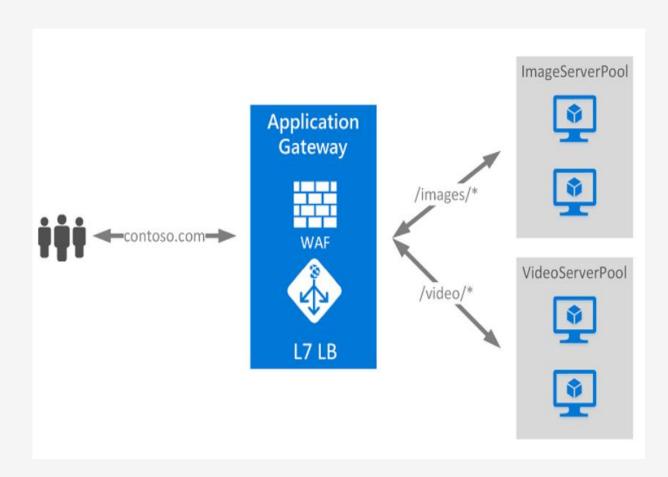
Health Monitoring

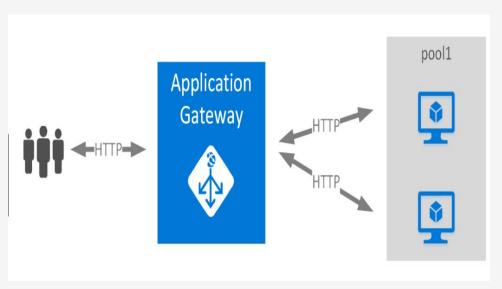
Request Redirect

Advanced diagnostics



Azure Application gateway





Azure Load Balancer

The Azure Load Balancer delivers high availability and network performance to your applications. It is a Layer 4 (TCP, UDP) load balancer

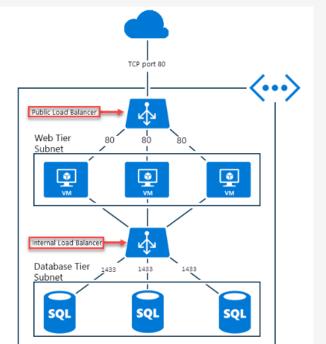
Internet LB: Azure load balancer maps the public IP address and port number of incoming traffic to the private IP address and port number of the virtual machine

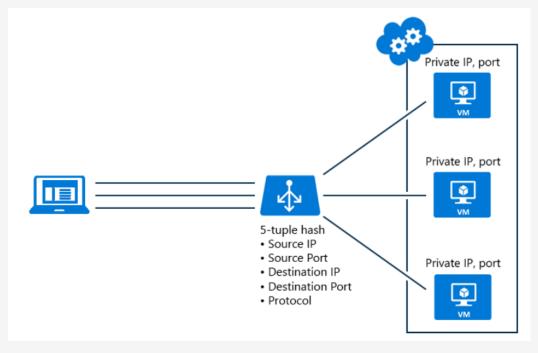
Internal LB (ILB): ILB directs traffic only to resources inside the cloud service or using VPN to access the azure infrastructure.

VIPs of a cloud service or a virtual network will never be directly exposed to an internet endpoint

It enables internal line of business (LOB) applications to run in Azure and be accessed from within the cloud or from resources

on-premises





Questions?

Ranjit Karni

Vpark Innovations

Ranjit.balu@gmail.com

Ph No: +91-9676976662