Networking services

Episode Objective

Skills Learned

- Describe products available for Networking such as
 - Virtual Network,
 - Load Balancer,
 - VPN Gateway,
 - Application Gateway and
 - Content Delivery Network

Service Category



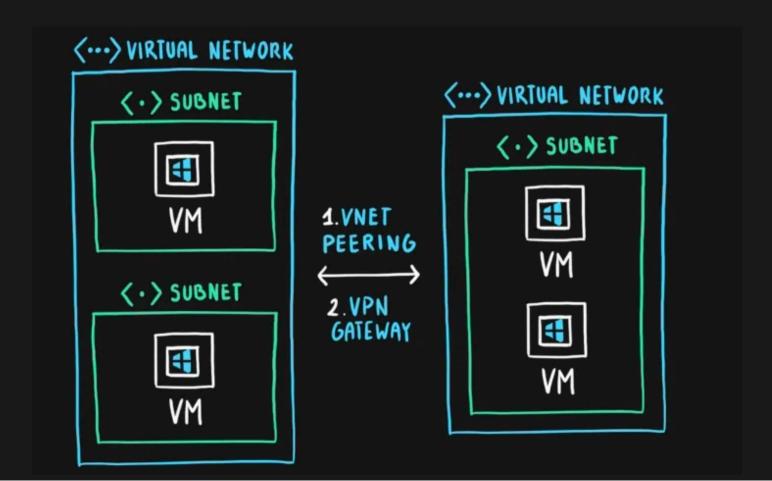
FUNDAMENTALS

Category of services with capability to

- Connect cloud and on-premise resources
- Protect & monitor services
- Help with application delivery

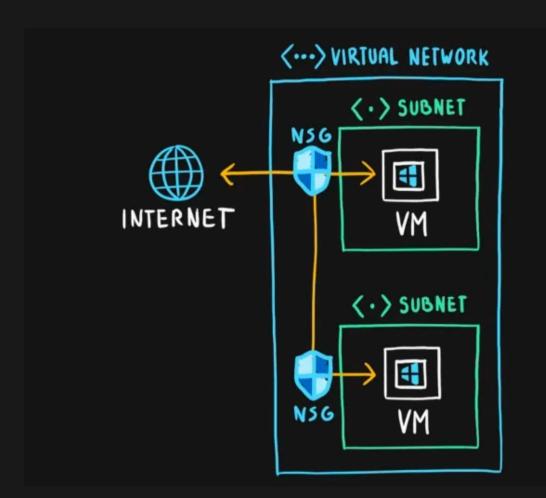


Azure Virtual Network





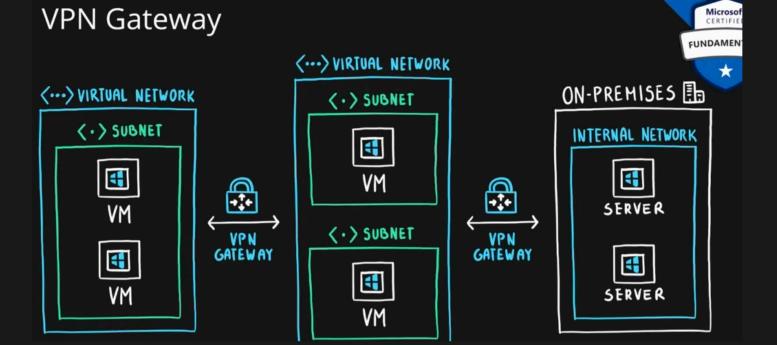
- Emulation of physical networking infrastructure
- Designed for isolation, segmentation, communication, filtering, routing between resources (internet and on-premises)
- Scoped to a single region
- VNet Peering or VPN Gateway allow cross VNet communication
- Segmented into one or more subnets
- · Subnets are discrete sections used for
 - effective address allocation and
 - network filtering via Network Security Groups (NSG) or Application Security Groups (ASG)







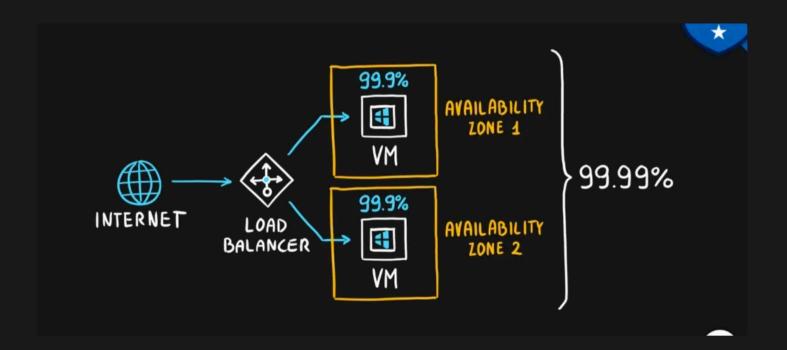
Virtual Network Gateway

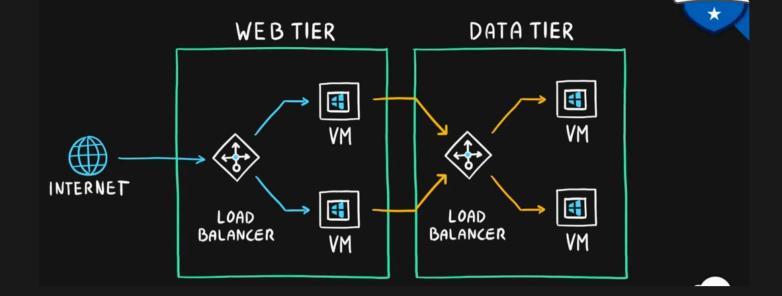


- On-premises to azure traffic over the public internet
- Cross-regional communication of azure virtual networks
 - VNet peering vs VPN gateway should be chosen based on the organization needs

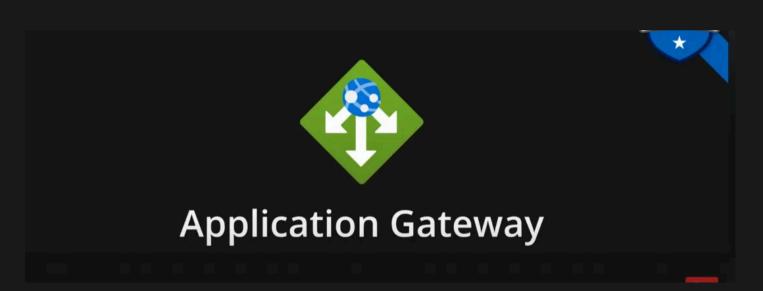


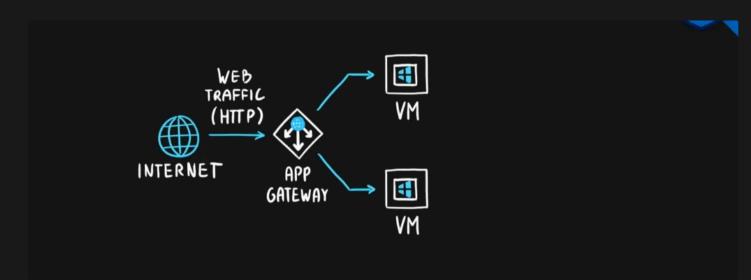
Azure Load Balancer

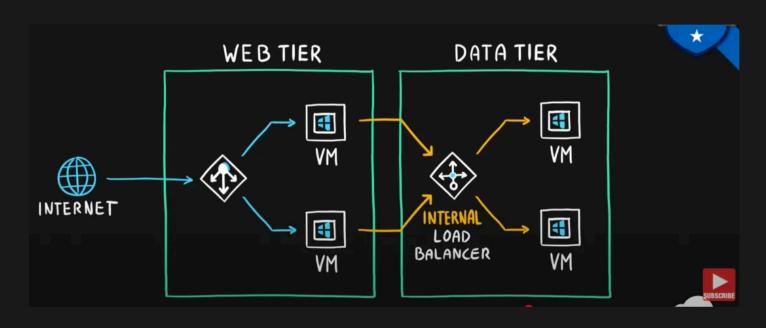




- · Even traffic distribution
- Supports both inbound and outbound scenarios
- High-availability and scalability scenarios
- Both TCP (transmission control protocol) and UDP (user datagram protocol) applications
- External and internal traffic





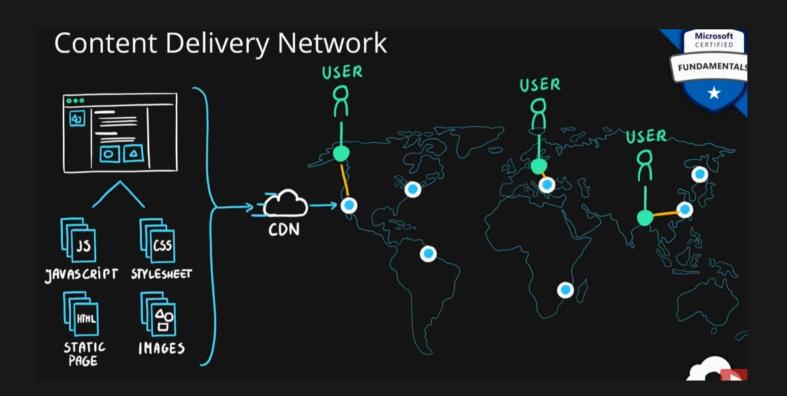


- Web traffic load balancer
- Web application firewall
- Redirection
- Session affinity
- URL Routing
- SSL termination





Content Delivery Network



Azure Virtual Network – Emulation/representation of physical networking in the cloud