

CONTENT

- Describe cloud concepts
- Describe azure architecture components
- Azure virtual networking (demo)
- Factors affect cost

DESCRIBE CLOUD CONCEPTS

- Cloud model
- Shared responsibility model
- Cloud service type

CLOUD MODELS

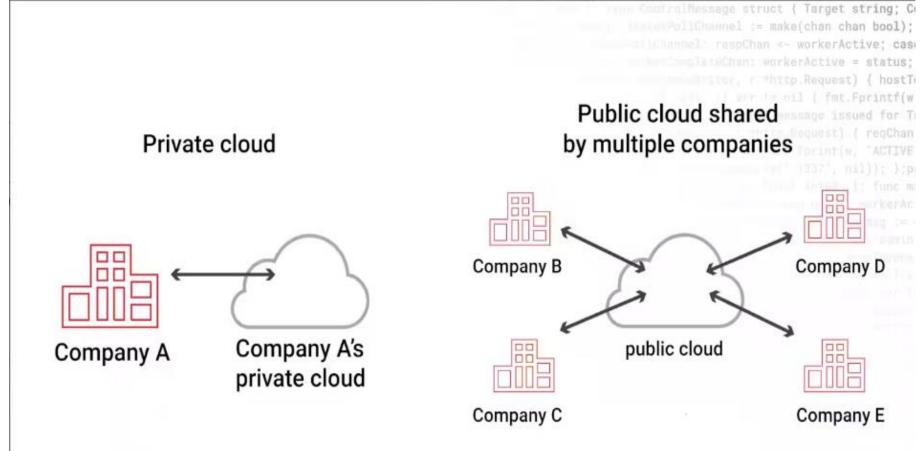
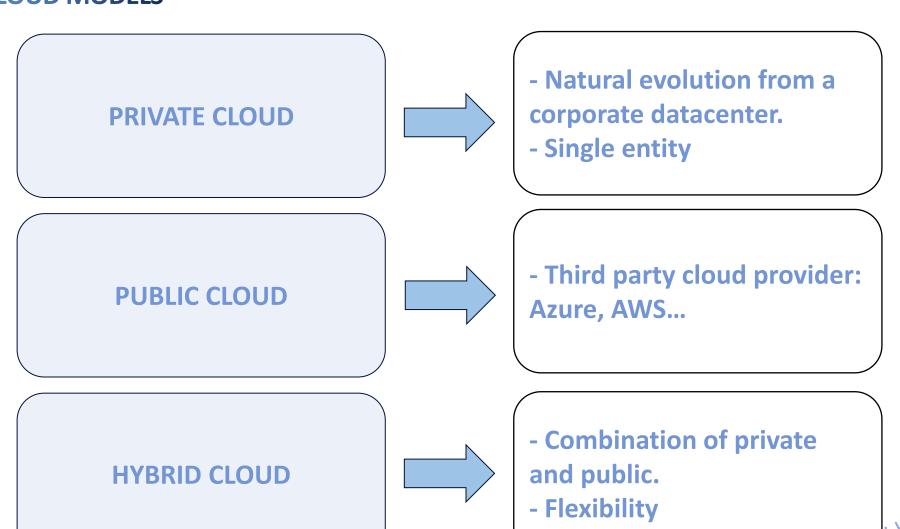


Image from internet

CLOUD MODELS



SHARED RESPONSIBILITY

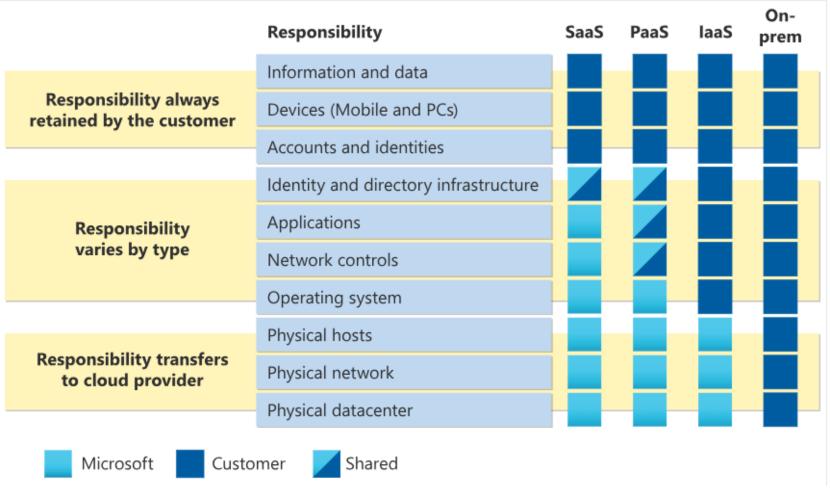
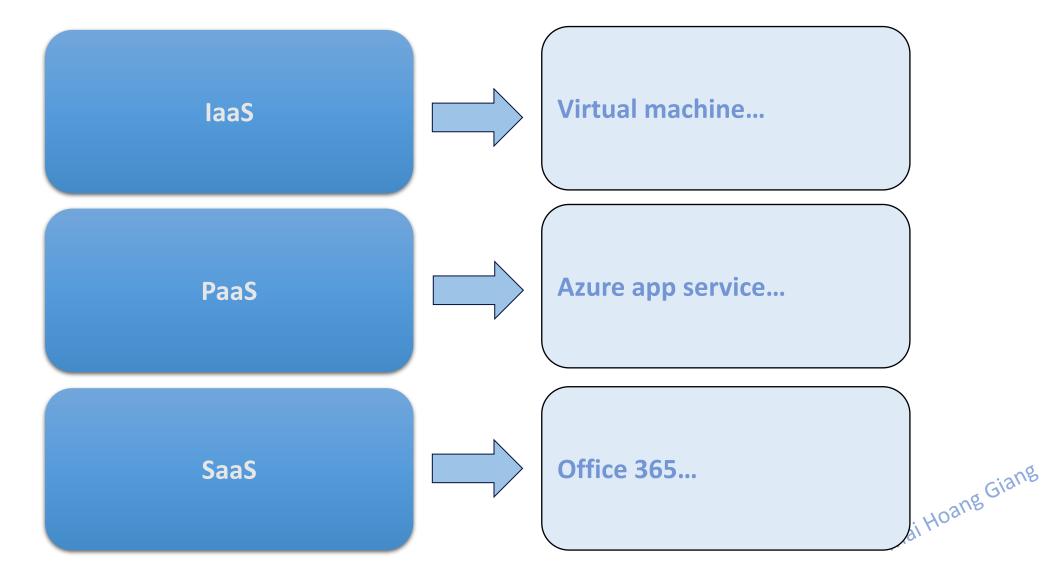


Image from internet

CLOUD SERVICE TYPES



DESCRIBE AZURE ARCHITECTURE COMPONENT

- Physical infrastructure
- Azure management infrastructure

PHYSICAL INFRASTRUCTURE - REGIONS



PHYSICAL INFRASTRUCTURE – AVAILABILITY ZONES

Within a region

Separate datacenters

Made our app highavailability

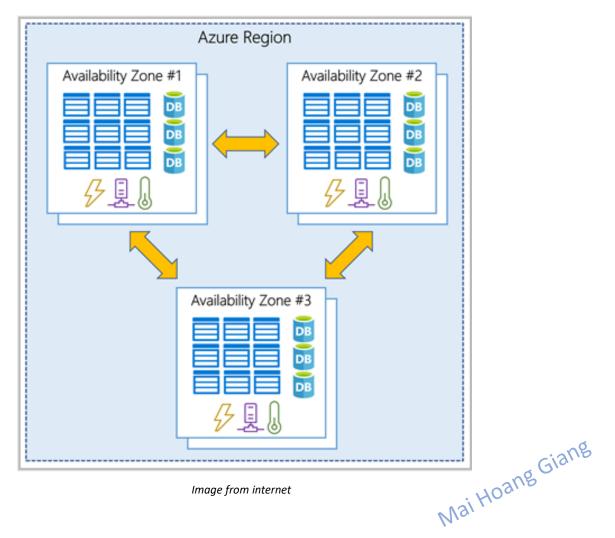


Image from internet

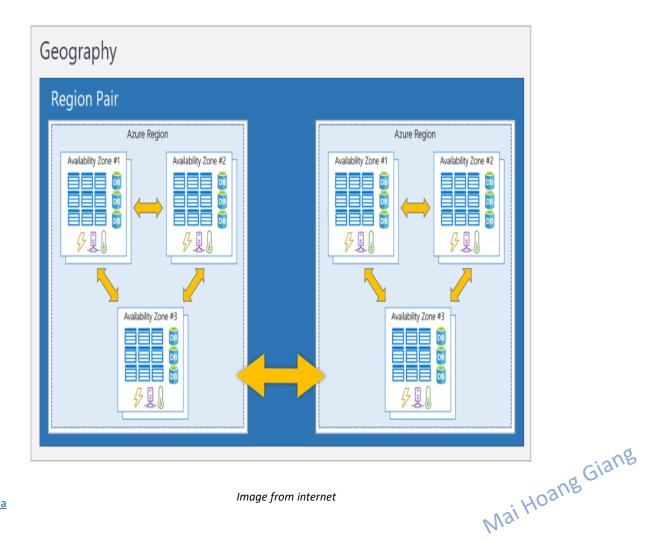
https://datacenters.microsoft.com/globe/explore?info=region southeastasia

PHYSICAL INFRASTRUCTURE – REGION PAIR

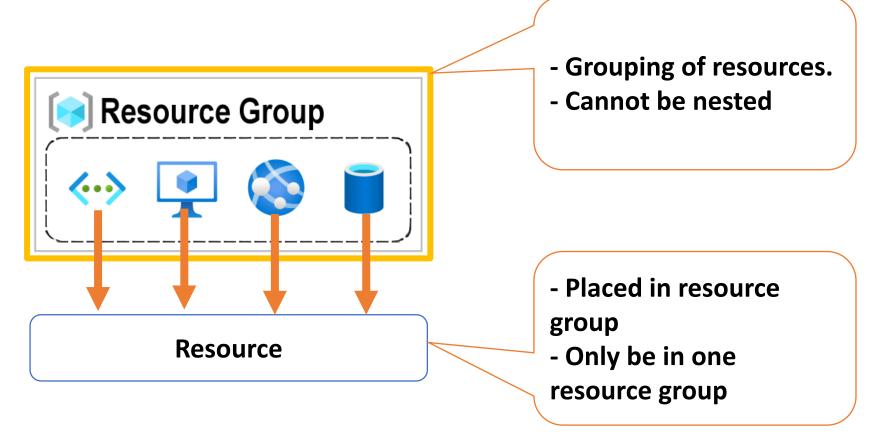
Paired with another region

300 miles away

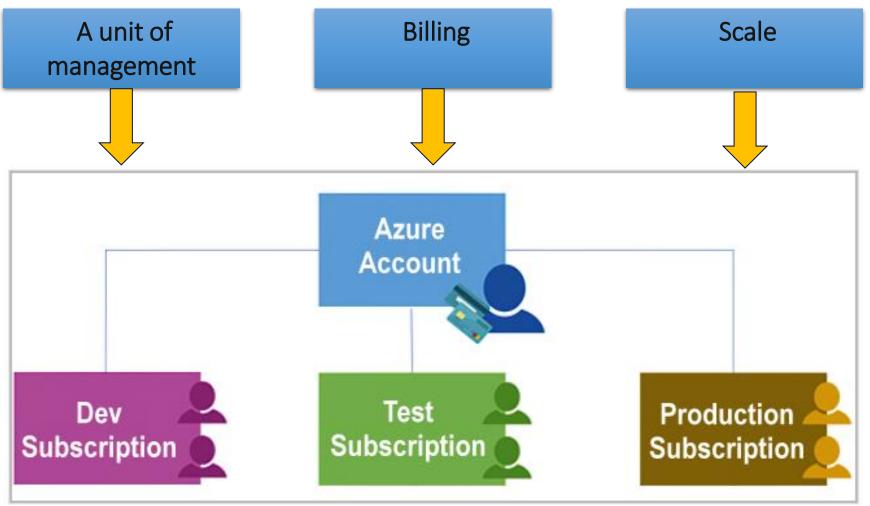
Protect resources against natural disasters...



AZURE MANAGEMENT INFRA – RESOURCE & RESOURCE GROUP



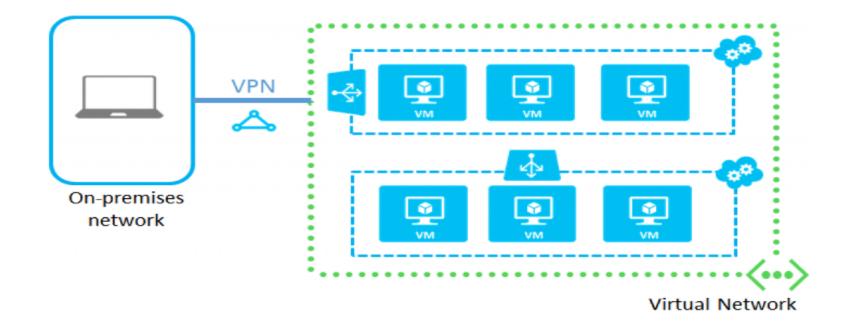
AZURE MANAGEMENT INFRA – SUBSCRIPTIONS



AZURE VIRTUAL NETWORKING

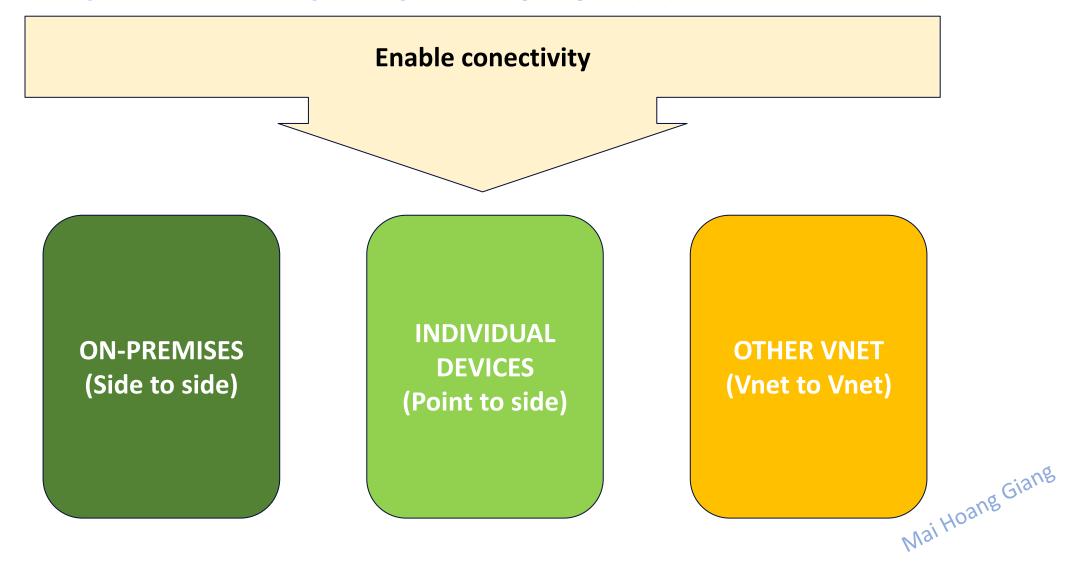
- Azure virtual network
- Azure VPN Gateway
- Express route

AZURE VIRTUAL NETWORKING - VNET



Enable azure resources (VM, Web app, DB) communicate with each others, internet, on-premises

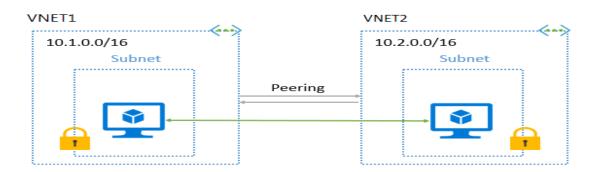
VPN GATEWAY – A TYPE OF VIRTUAL NETWORK GATEWAY



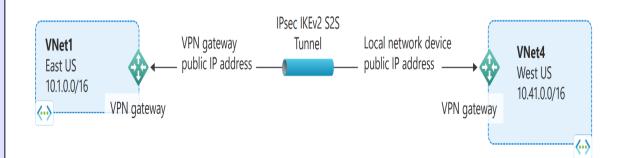
CONNECTIVITY – VNET TO VNET

Peering

Low-latency High-bandwidth

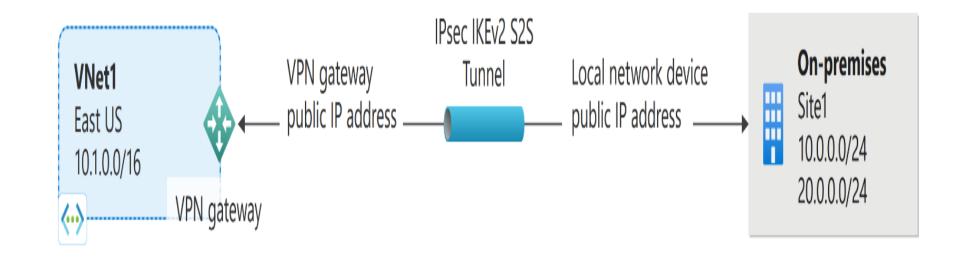


VPN Gateway (Vnet to Vnet)

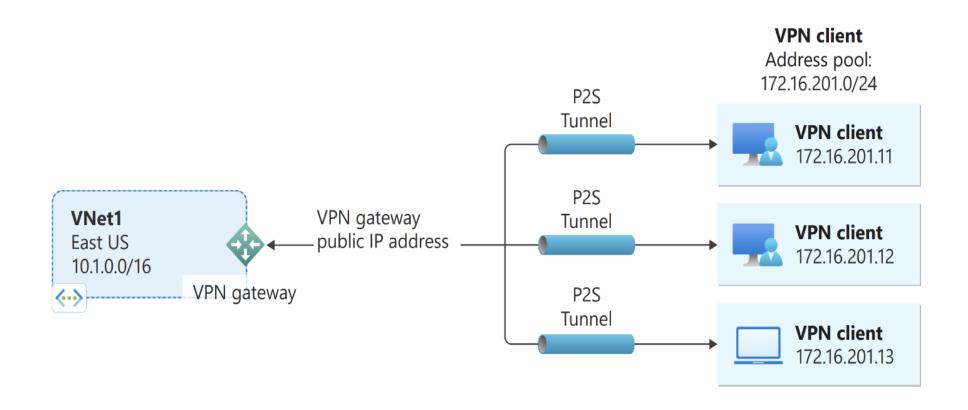


Wai Hoang Giane

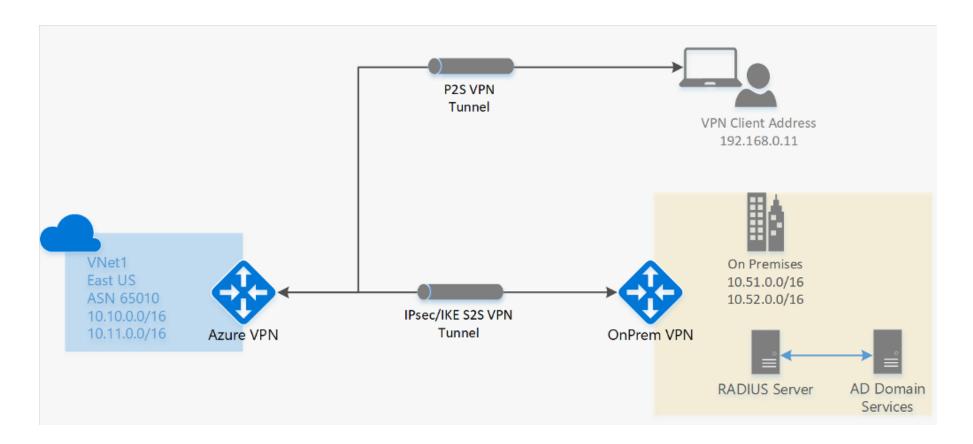
CONNECTIVITY – SIDE TO SIDE



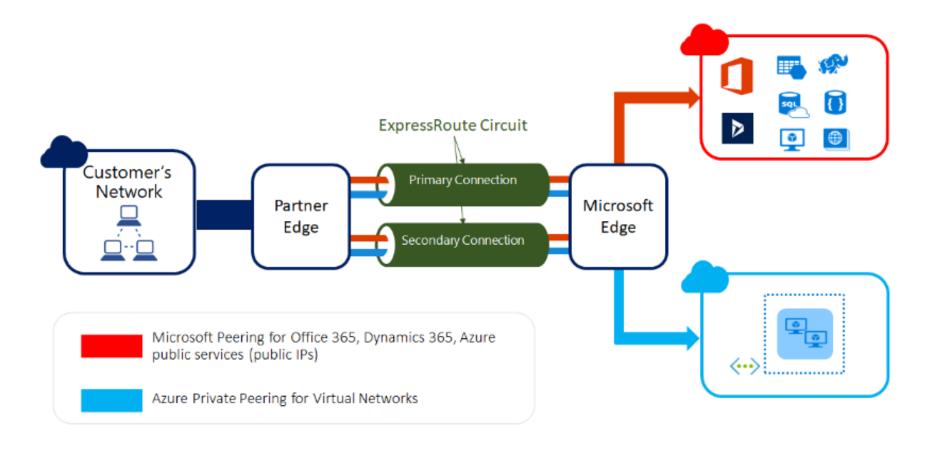
CONNECTIVITY – POINT TO SIDE



CONNECTIVITY

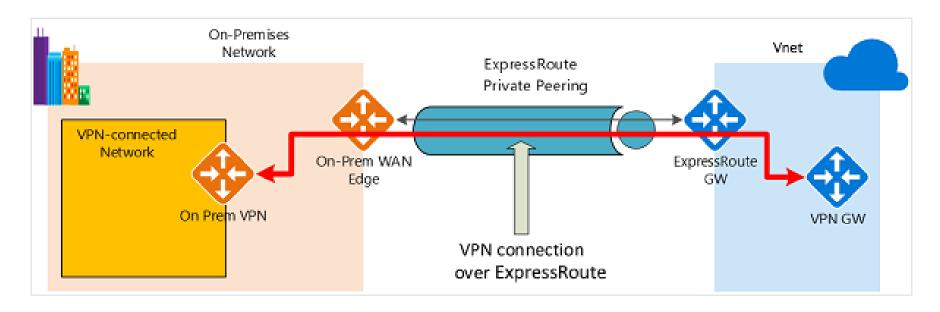


CONNECTIVITY – EXPRESS ROUTE



CONNECTIVITY – EXPRESS ROUTE/VPN GATEWAY

Site-to-Site VPN connection over ExpressRoute private peering



FACTORS AFFECT COST

- Cost and factors affect cost

COST – IMPACTED FACTORS

Resource type

Consumption

Maintenance

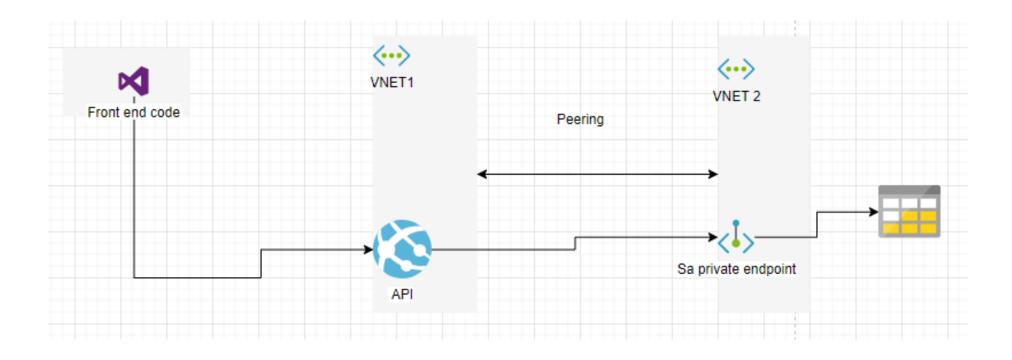
Geography

Network Traffic

Subscription type

Azure marketplace

DEMO - AZURE NETWORK SCENARIO



Thank you!