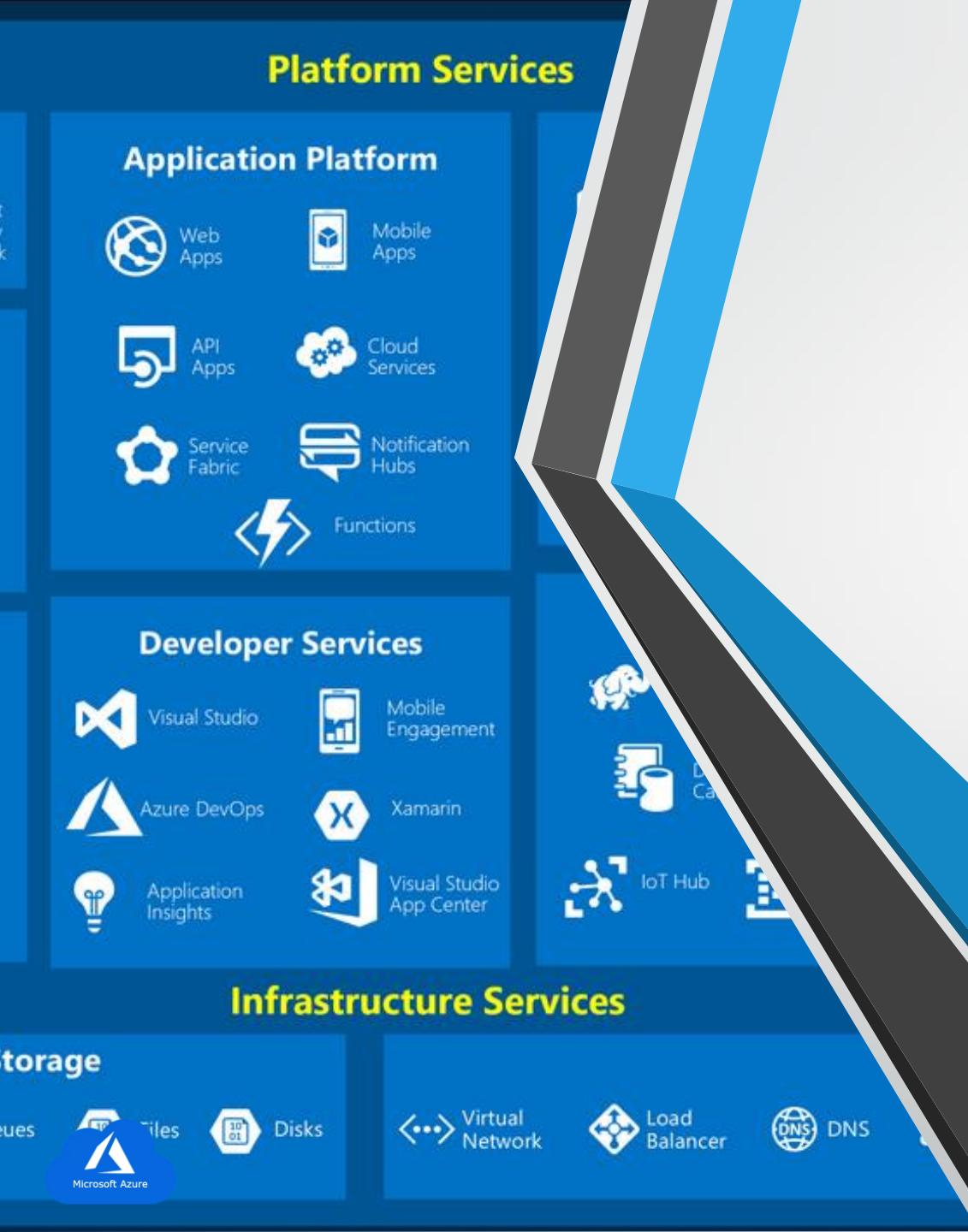


Fundamentals – Core Azure Services

Azure Subscription
Azure Learn Sandbox
Portal Overview
Resource Groups
Azure Resource Manager

Azure Architectural Components

Azure Regions

Azure Datacenter

A group of interconnected buildings in the same location that contain all the servers, power, wiring and internet connectivity to run Azure services

Region

A set of datacenters deployed within a latency-defined perimeter and connected through a dedicated regional low-latency network.

60+ Regions 140 Countries

az account list-locations

Microsoft Azure

Availability Zones

Unique physical locations within a region. Each zone is made up of one or more datacenters equipped with independent power, cooling, and networking. The physical separation of Availability Zones within a region protects applications and data from datacenter failures. Zone-redundant services replicate your applications and data across Availability Zones to protect from single-points-of-failure. With Availability Zones, Azure offers industry best 99.99% VM uptime SLA.

Availability Sets

Group of 2 or more VM's in the same data center, spread over racks. (99.95% VM uptime SLA)

Fault Domain – Server / Rack goes down, unplanned.
Update Domain – Planned maintenance / patching by Microsoft.

North Americas (Geography)

East US (Region)

East US 2 (Region)
(Set of Availability Zones, each availability zone can have multiple DC)

Central US (Region)

West US (Region)

Availability Zone #1

Availability Zone #2
(1 to 3 Datacenters Close Proximity)

Availability Zone #3

Availability Set
(Rack within single DC)

Availability Set

Fault Domain

Update Domain

Fault Domain

Update Domain

Create A VM Look at Availability Zones and Sets

Create Windows & Ubuntu VM

Azure Core Products 10000 Feet View

Go through:

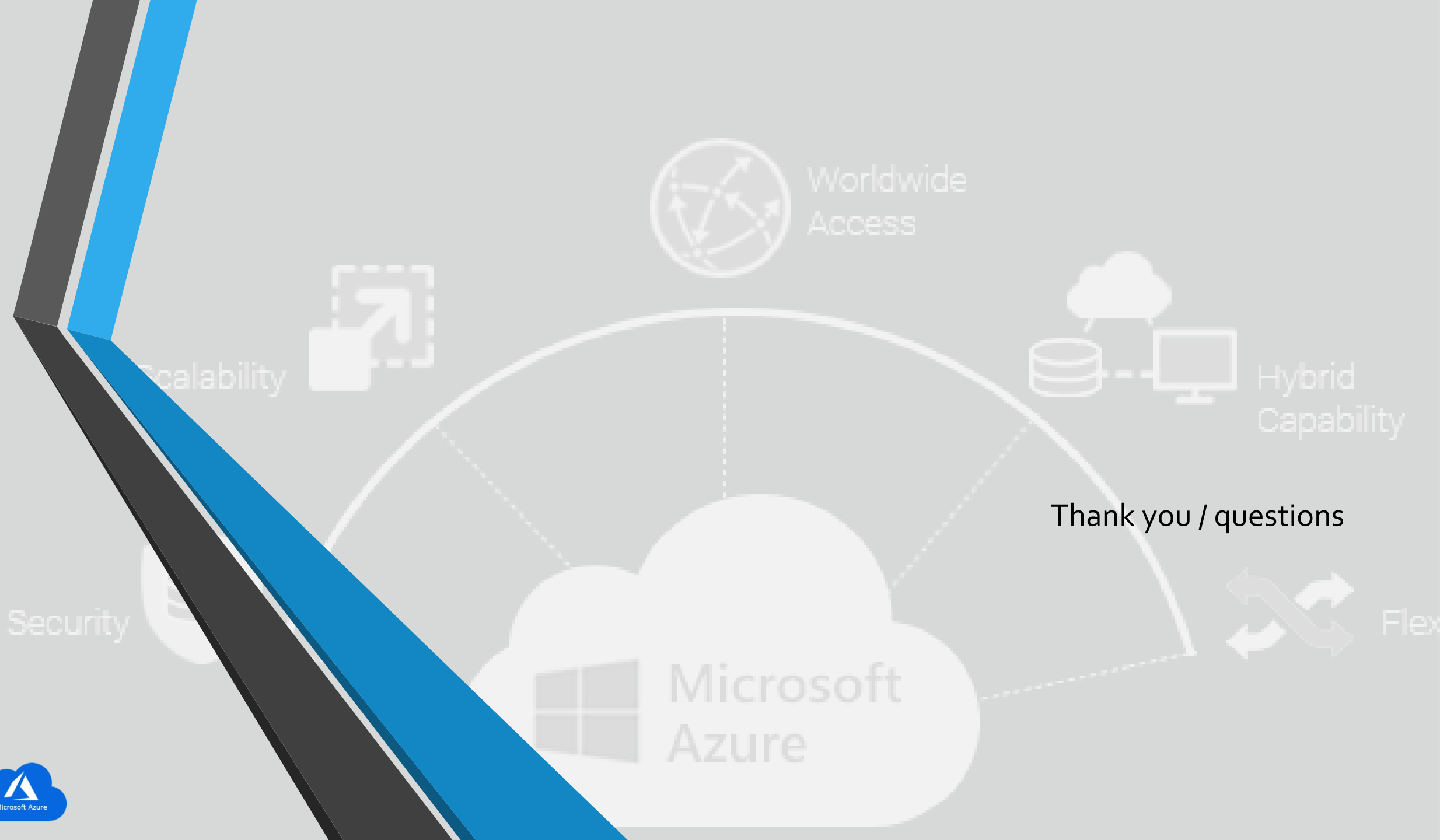
https://azurecharts.com/overview

https://azure.microsoft.com/en-in/services

Azure Cost / Billing / Cost Center /Cost Calculator

https://azure.microsoft.com/en-in/pricing

& Portal



Thank you / questions