

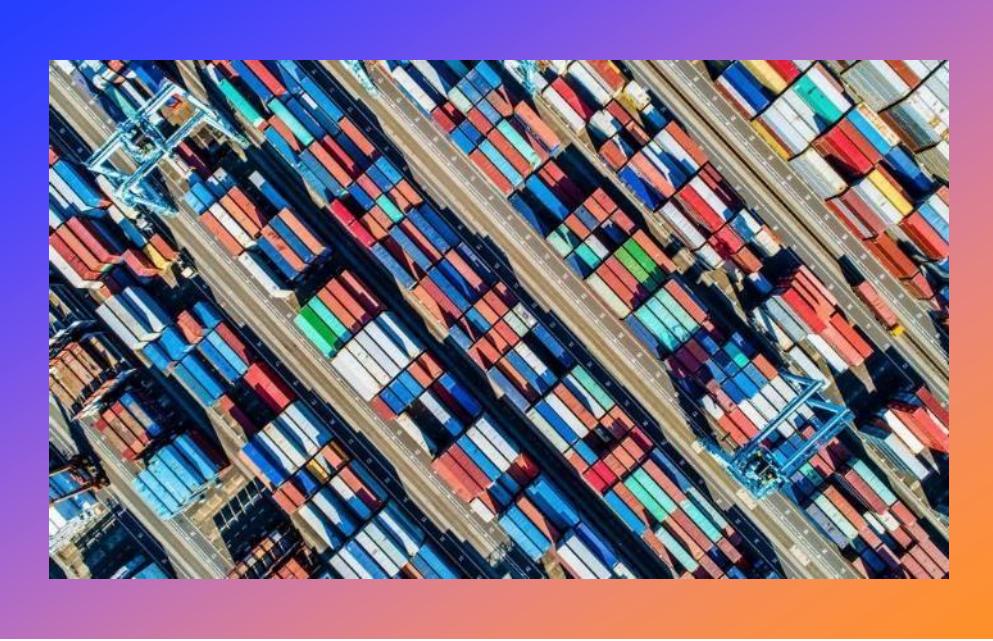


WEEK 9

AZURE CORE SERVICES

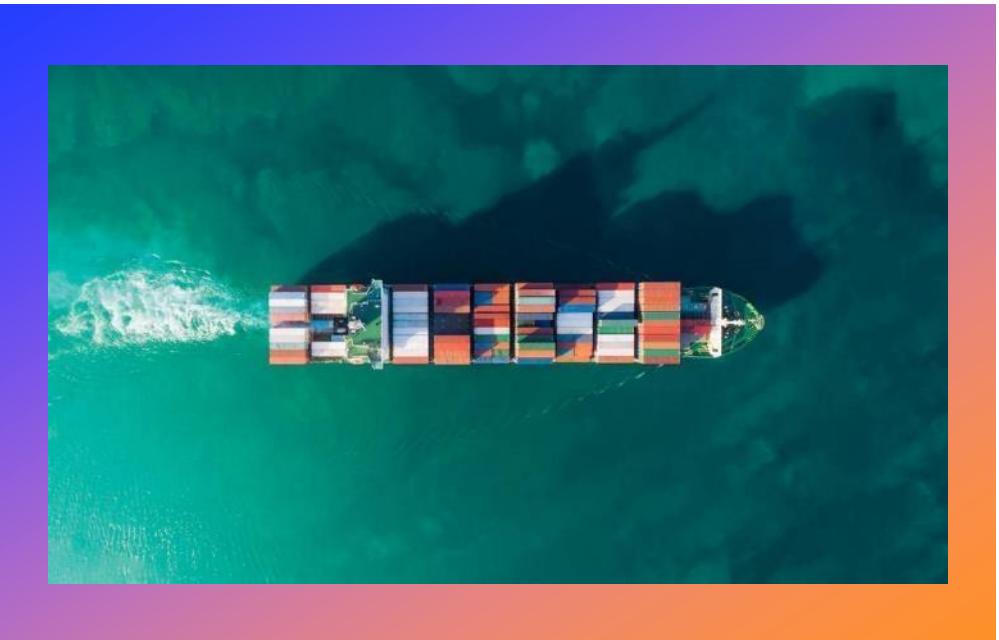
Q&A

Taha Yiğit ALKAN



Agenda

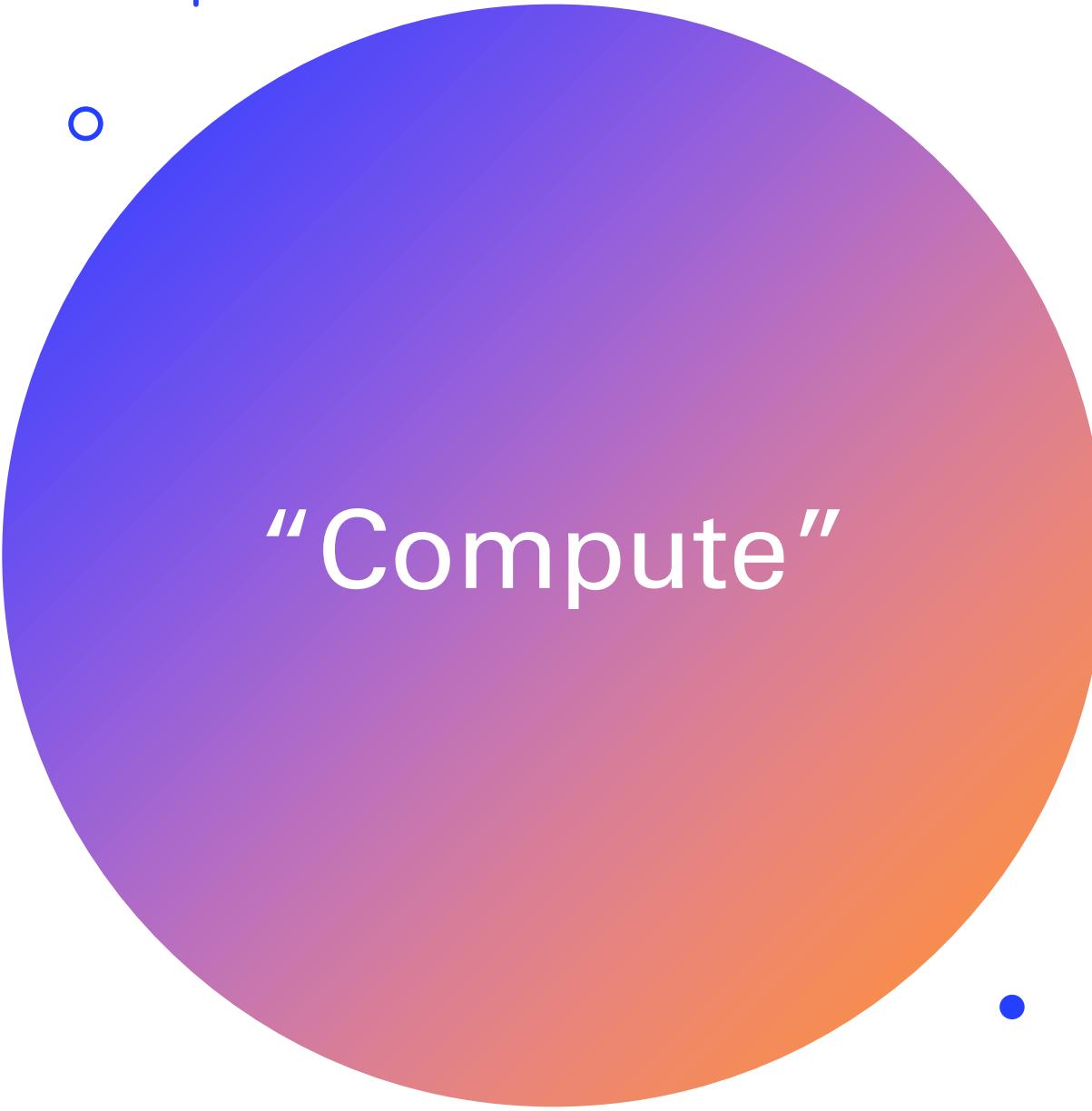
- Azure Compute Services
- Networking Service
- Network Peering
- Public and Private Endpoints
- Azure Storage Overview
- Blob Storage



+
•
○

COMPUTE SERVICES

Virtual Machines, Scale Sets, Virtual Desktops, Web Apps, Functions



“Compute”

*“being ability to run code in the
cloud”*

Scott Duffy

Compute Services

- Virtual Machines (VM)
- VM Scale Sets (VMSS)
- App Services (Web apps)
- Azure Container Instances (ACI)
- Azure Kubernetes Service (AKS)
- Windows Virtual Desktop



NETWORKING SERVICES

Virtual networks, VPN
Gateway, Vnet peering,
ExpressRoute

Types of Networking Services

- Connectivity Services (Virtual network, Subnet, Virtual Private Network, Express Route, DNS)
- Protection Services (DDoS Protection, Azure Firewall, Network Security Groups)
- Delivery Services (Load balancer, Application gateway, Content Delivery Network (CDN), Azure Front Door)
- Monitoring Services (Network Watcher, ExpressRoute Monitor, Azure Monitor)



STORAGE SERVICES

Blob Storage, Disk storage,
File storage, Storage Tiers

Storage

"one of the foundational technologies on which much is built"

Question

What is the primary purpose of Azure Blob Storage?

- a. To host virtual machines
- b. To store and manage unstructured data
- c. To deploy web applications
- d. To create relational databases

Question

What is the primary purpose of Azure App Service?

- a. To store and manage containers
- b. To host and scale web applications
- c. To run virtual machines in the cloud
- d. To manage networking configurations

Question

MediaCorp wants to store and manage large amounts of video and audio files in the cloud. Which Azure service would be suitable for this purpose, providing scalable and cost-effective object storage?

- a. Azure Virtual Machines (VMs)
- b. Azure Kubernetes Service (AKS)
- c. Azure Blob Storage
- d. Azure SQL Database

Question

TechStart is adopting a microservices architecture and wants to orchestrate and manage its containerized applications in the cloud. Which Azure service would allow them to deploy, scale, and manage containerized workloads efficiently?

- a. Azure Blob Storage
- b. Azure SQL Database
- c. Azure Kubernetes Service (AKS)
- d. Azure Functions

Question

What is the primary purpose of Azure Virtual Machines (VMs)?

- a. To store and manage data in the cloud
- b. To deploy containerized applications
- c. To run virtualized servers in the cloud
- d. To create scalable serverless functions

Question

EnterpriseX needs to migrate its existing on-premises servers to the cloud. Which Azure service would allow them to run Windows or Linux virtual servers in the cloud with full control over the configurations?

- a. Azure Blob Storage
- b. Azure Kubernetes Service (AKS)
- c. Azure Virtual Machines (VMs)
- d. Azure Functions

Question

What is the primary purpose of Azure SQL Database?

- a. To store and manage virtual machines
- b. To host and scale web applications
- c. To create scalable serverless functions
- d. To provide a fully managed relational database service

Question

FinanceCorp needs a scalable and managed database solution for its financial transactions. Which Azure service would allow them to store and retrieve relational data efficiently without managing the database infrastructure?

- a. Azure Blob Storage
- b. Azure Virtual Machines (VMs)
- c. Azure SQL Database
- d. Azure Functions

Question

What is the primary purpose of Azure Virtual Network?

- a. To host and scale web applications
- b. To store and manage unstructured data
- c. To create private, isolated networks in the cloud
- d. To provide a managed relational database service

Question

TechCo wants to deploy its web application without managing the underlying infrastructure. Which Azure service allows them to easily build, deploy, and scale web apps without worrying about the server details?

- a. Azure Blob Storage
- b. Azure Kubernetes Service (AKS)
- c. Azure Virtual Machines (VMs)
- d. Azure App Service

Question

ManufactureCo wants to connect its on-premises datacenter to Azure securely. Which Azure service would allow them to create a private, isolated network in the cloud and establish a secure connection to their on-premises network?

- a. Azure Blob Storage
- b. Azure Kubernetes Service (AKS)
- c. Azure Virtual Network
- d. Azure SQL Database

Question

HealthcareCo wants to run code in response to events without provisioning or managing servers. Which Azure service would allow them to execute code in a serverless environment, triggered by events such as changes in data or the arrival of messages?

- a. Azure Virtual Machines (VMs)
- b. Azure Functions
- c. Azure SQL Database
- d. Azure App Service

Question

What is the primary purpose of Azure Kubernetes Service (AKS)?

- a. To host and manage virtual machines
- b. To store and manage unstructured data
- c. To deploy and manage containerized applications
- d. To create and manage networking configurations

Question

GlobalCorp operates in multiple Azure regions and wants to establish seamless communication between its Azure Virtual Networks without relying on the public internet. Which Azure service feature allows them to achieve this objective efficiently?

- a. Azure Traffic Manager
- b. Azure Virtual Network peering
- c. Azure ExpressRoute
- d. Azure Load Balancer

Question

What is the primary purpose of Azure Functions?

- a. To host and scale web applications
- b. To create and run serverless functions in the cloud
- c. To store and manage containers
- d. To provide managed networking configurations

Question

What is the primary purpose of Azure Virtual Network peering?

- a. To connect Azure resources to on-premises networks securely
- b. To enable communication between Azure Virtual Networks in the same region
- c. To provide a fully managed relational database service
- d. To host and scale web applications across multiple regions

Question

What is the primary purpose of Azure File Sync?

- a. To provide a scalable and secure object storage solution
- b. To synchronize files between on-premises file servers and Azure Files
- c. To enable multi-region replication for Azure Blob Storage
- d. To manage and secure cryptographic keys for applications

Question

What is the primary purpose of AzCopy in Azure?

- a. To synchronize files between on-premises servers and Azure Blob Storage
- b. To migrate virtual machines to Azure
- c. To manage access control for Azure Storage accounts
- d. To orchestrate and manage containerized applications

Question

What is the primary role of Azure Migrate?

- a. To provide a fully managed relational database service
- b. To discover, assess, and migrate on-premises virtual machines to Azure
- c. To distribute network traffic across multiple servers
- d. To create and run serverless functions in the cloud

Question

TechSolutions plans to migrate its existing on-premises virtual machines to Azure for enhanced scalability and flexibility. Which Azure service would assist them in discovering dependencies, assessing compatibility, and performing the migration process smoothly?

- a. Azure Virtual Network peering
- b. Azure Traffic Manager
- c. Azure Migrate
- d. Azure Multi-Factor Authentication (MFA)

Question

EnterpriseX wants to extend its on-premises file server capacity to Azure Files without migrating all data to the cloud. Which Azure service enables them to achieve this by synchronizing file servers with Azure Files, providing a seamless and scalable file-sharing solution?

- a. AzCopy
- b. Azure Traffic Manager
- c. Azure File Sync
- d. Azure ExpressRoute

+
•
o

THANK YOU

Taha Yiğit ALKAN
yigitalkan@akdeniz.edu.tr
Website

