Module Completion & Exam Hints

Networking in Azure

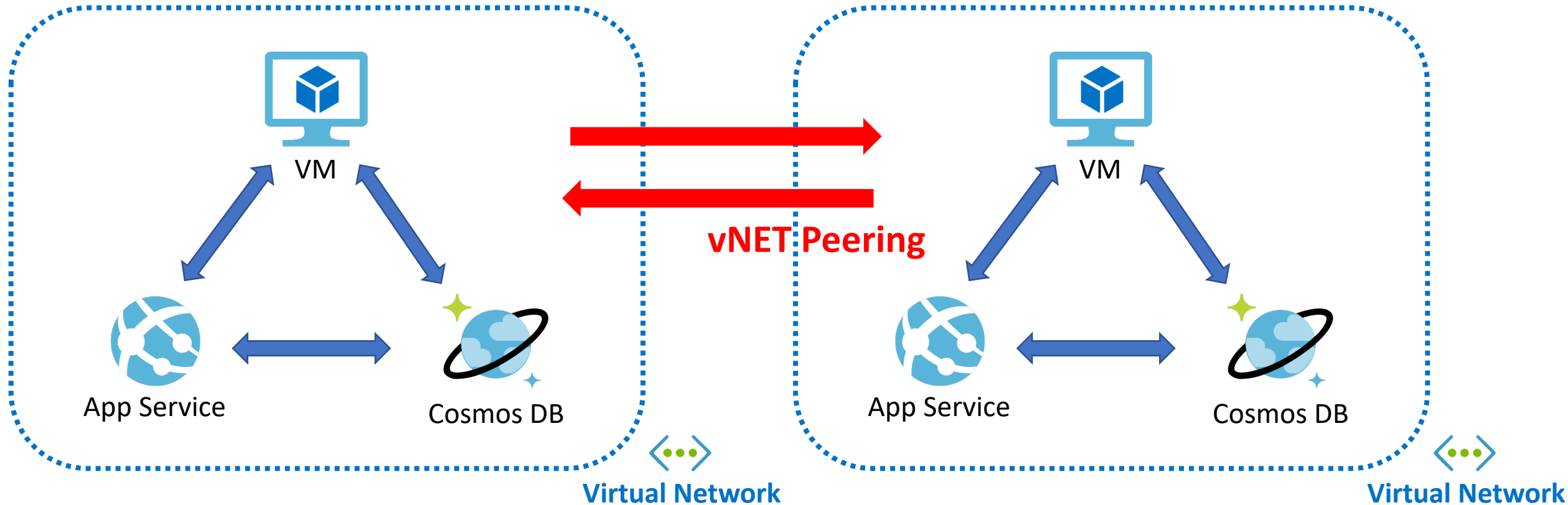# Azure Connectivity Services – Virtual Network

☐ Virtual Network (vNET) - the fundamental building block for your private network in Azure ("private DC")
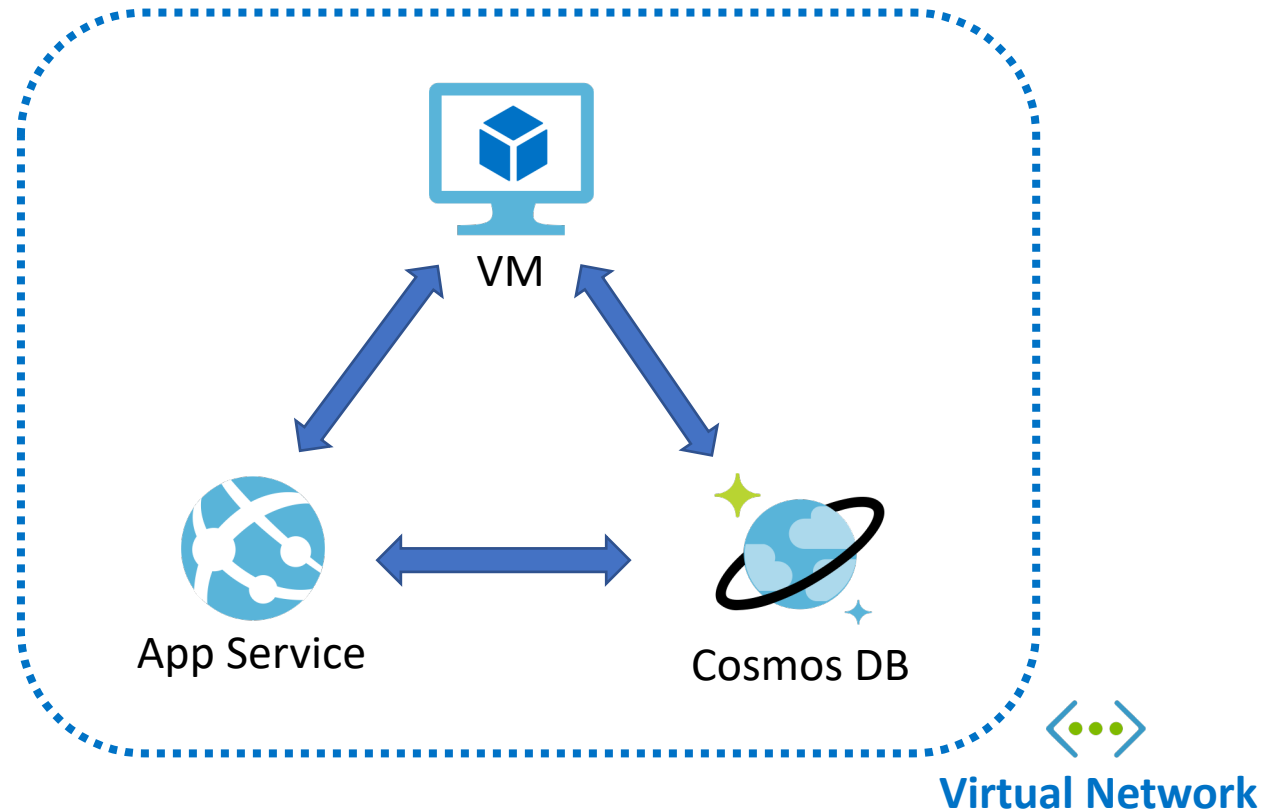
Azure Connectivity Services – vNET Peering

☐ Communicate between each other, within the same or different Azure Regions

vNET Peering

VM

App Service

Cosmos DB

Virtual Network

VM

App Service

Cosmos DB

Virtual Network

Microsoft Azure Fundamentals

Azure Connectivity Services – Load Balancer

☐ Communicate inbound to a resource by assigning a public IP address or a public Load Balancer.

VM

App Service

Cosmos DB

LB

INTERNET
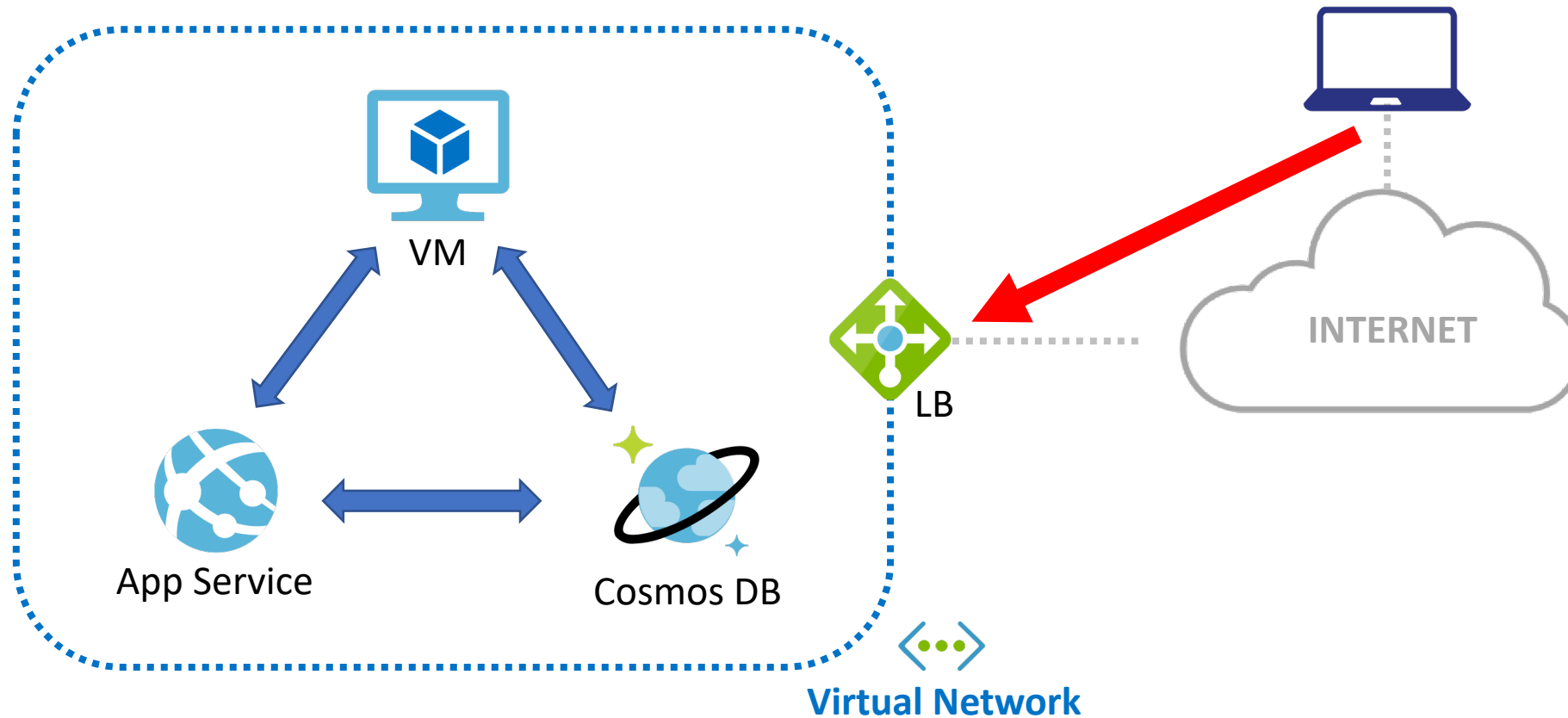
Virtual Network

Azure Connectivity Services – On-Prem DC

☐ Connect your on-premises network to a virtual network using VPN Gateway or ExpressRoute
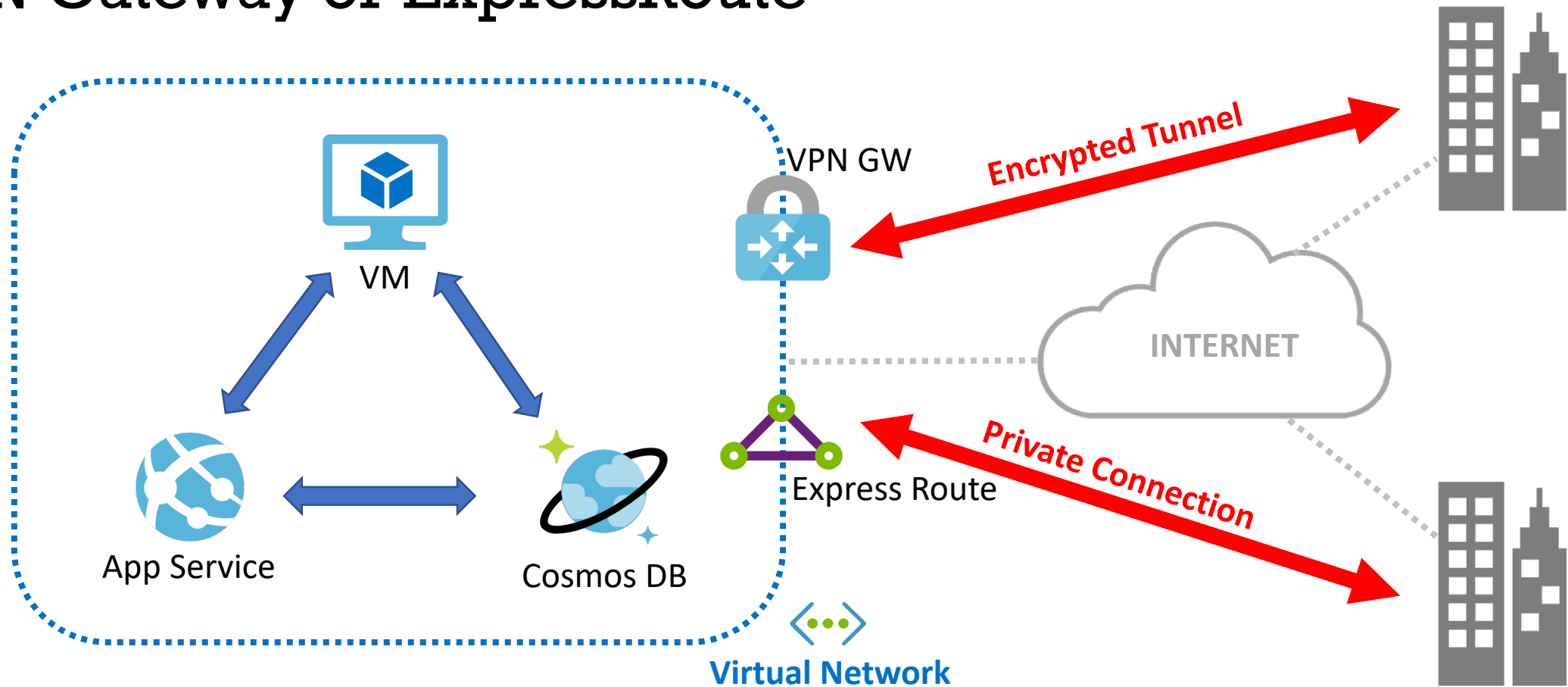
Azure Application Delivery Services

☐ Azure Content Delivery Network (CDN) delivers high-bandwidth content to users by caching their content at strategically placed physical nodes across the world

Alice

Edge Servers

Web Server

Other Users
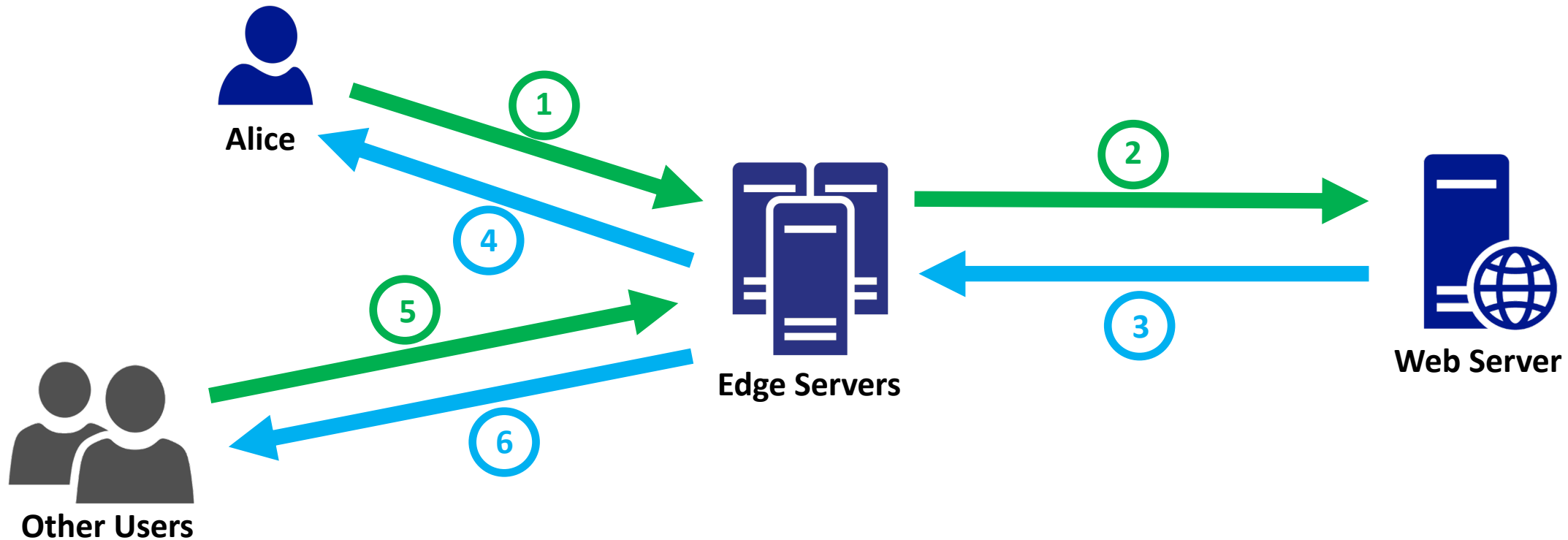
Azure Application Delivery Services

☐ Azure Application Gateway is a web traffic load balancer that enables you to manage traffic to your web applications

Alice → Application Gateway → HTTP/S Rules → Server Pool
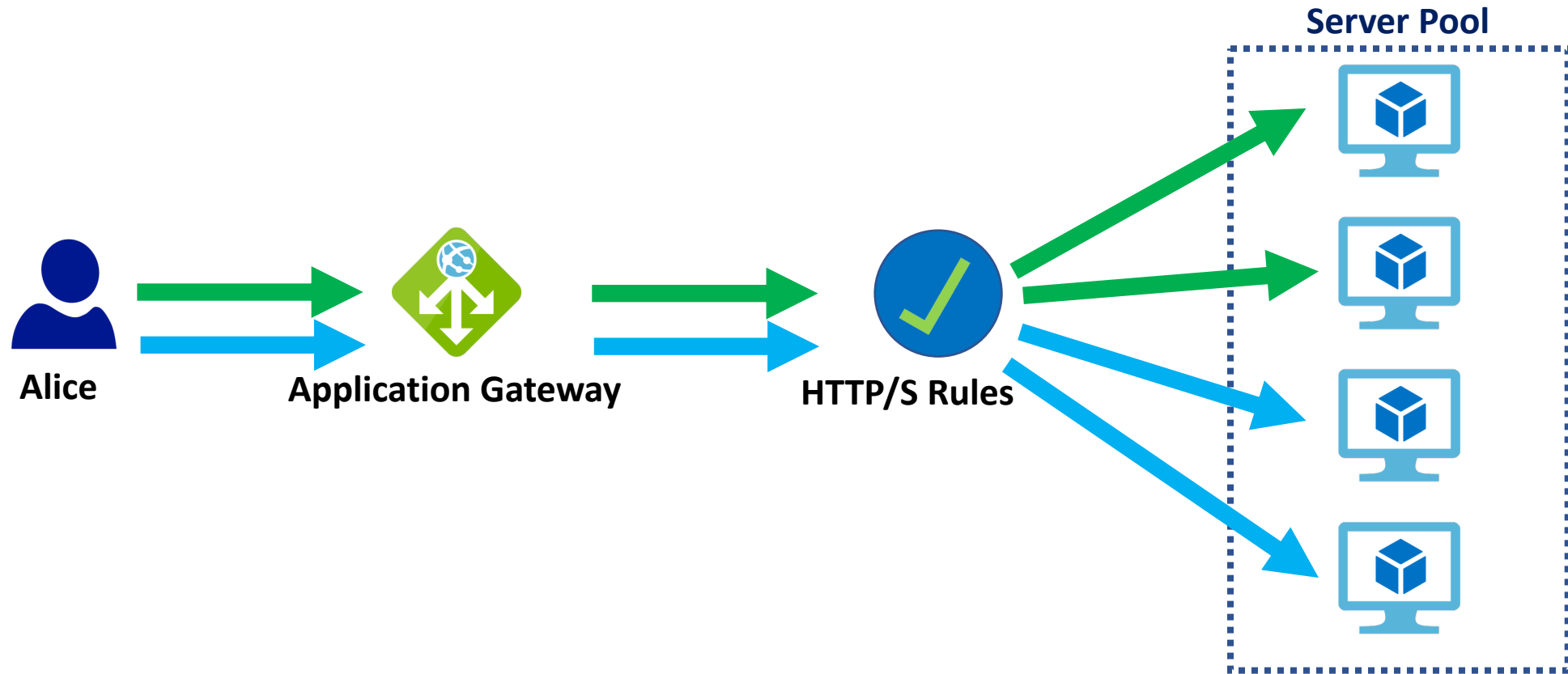
IoT in Azure

Azure IoT HuB and IoT Central

☐ IoT Hub is a managed service that acts as a central message hub for bi-directional communication between your IoT application and the devices it manages

IoT Device

Azure IoT Hub

Application

☐ IoT Central is an IoT application platform that reduces the burden and cost of developing, managing, and maintaining enterprise-grade IoT solutions (PaaS)

Big Data and Analytics

Big Data and Analytics in Azure

- ❑ Azure SQL Data Warehouse is a cloud-based enterprise data warehouse that you can use and run high-performance analytics, leveraging massively parallel processing (MPP)

- ❑ Azure Databricks is an Apache Spark-based analytics platform you can use to analyze data and generate meaningful insights

- ❑ Azure HDInsight it's a cost-effective enterprise-grade service for open source analytics

AI and ML

Azure ML and AI Offering

❑ Machine Learning Studio (classic), the "classic" (old) offering for Machine Learning, available in Azure Portal

❑ Azure Machine Learning Studio provides both a web interface called the designer (preview) and several SDKs and CLI to quickly prep data, train and deploy machine learning models
  ❑ https://ml.azure.com

Microsoft Azure Fundamentals

Microsoft Azure Fundamentals
Training Bootcamp

Thank you