

VERSION



SR. CODE

EAPL/CRASH/CRTC24

COURSE CODE

EACAF

SUB CATEGORY

NETWORKING & SECURITY







FUNUAMENIALS ELYSIUM ACADEMY MICROSOFT FUNDAMENTALS

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COURSE DESCRIPTION



The primary goal of Microsoft Azure Fundamentals is to give a comprehensive understanding of the fundamental elements of the Azure cloud platform. There are almost 200 products and services in the Azure portfolio, ranging from web services to Al and machine intelligence.

COURSE GOALS



A Microsoft azure Fundamentals can enable you to pursue a wide range of career options. A developer, a solution architect, or a cloud architect may all be trained.

FUTURE SCOPE



Cloud computing is quickly extending into almost all areas of business. It, therefore, creates new career opportunities. Such opportunities encompass a wide range of roles ranging from architects and developers to data scientists and security professionals.







CLOUD COMPUTING

- a.Define cloud computing
- b.Describe the shared responsibility model
- c.Define cloud models, including public, private, and hybrid
- d.ldentify appropriate use cases for each cloud model
- e.Describe the consumption-based model
- f. Compare cloud pricing models



CHAPTER

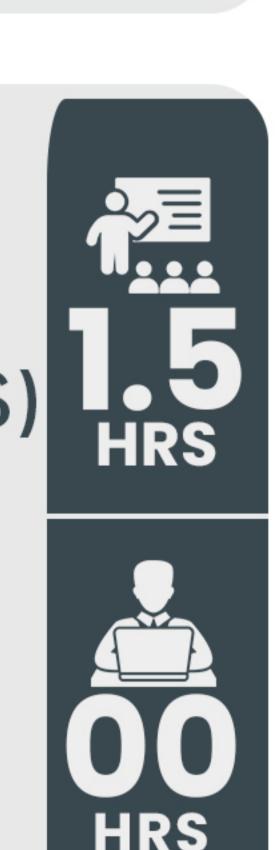
THE BENEFITS OF USING CLOUD SERVICES

- a.Describe the benefits of high availability and scalability in the cloud
- b.Describe the benefits of reliability and predictability in the cloud
- c.Describe the benefits of security and governance in the cloud
- d.Describe the benefits of manageability in the cloud

CHAPTER

CLOUD SERVICE TYPES

- a.Describe infrastructure as a service (laaS)
- b.Describe platform as a service (PaaS)
- c.Describe software as a service (SaaS)
- d.ldentify appropriate use cases for each cloud service (laaS, PaaS, SaaS)







THE CORE ARCHITECTURAL COMPONENTS OF AZURE

- a.Describe Azure regions, region pairs, and sovereign regions
- b.Describe availability zones
- c.Describe Azure datacenters
- d.Describe Azure resources and resource groups
- e.Describe subscriptions
- f.Describe management groups
- g.Describe the hierarchy of resource groups, subscriptions, and management groups

CHAPTER

AZURE COMPUTE AND NETWORKING SERVICES

- a.Compare compute types, including container instances, virtual machines (VMs), and functions
- b.Describe VM options, including Azure Virtual Machines, Azure Virtual Machine Scale Sets, availability sets, and Azure Virtual Desktop
- c.Describe resources required for virtual machines
- d.Describe application hosting options, including the Web Apps feature of Azure App Service, containers, and virtual machines
- e. Describe virtual networking, including the purpose of Azure Virtual Networks, Azure virtual subnets, peering, Azure DNS, Azure VPN Gateway, and Azure ExpressRoute
- f. Define public and private endpoints







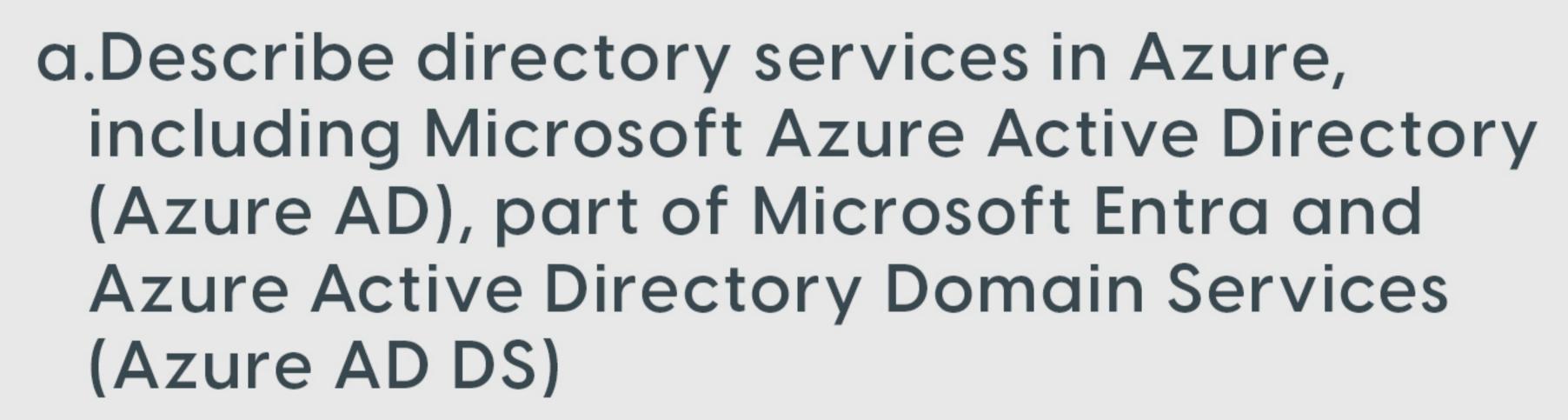


AZURE STORAGE SERVICES

- a.Compare Azure storage services
- b.Describe storage tiers
- c.Describe redundancy options
- d.Describe storage account options and storage types
- e.Identify options for moving files, including AzCopy, Azure Storage Explorer, and Azure File Sync
- f.Describe migration options, including Azure Migrate and Azure Data Box



AZURE IDENTITY, ACCESS, AND SECURITY

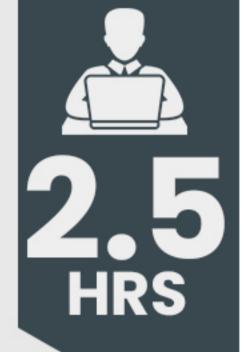




Describe external identities and guest access in Azure

- c.Describe Conditional Access in Microsoft Azure Active Directory (Azure AD), part of Microsoft Entra
- d.Describe Azure role-based access control (RBAC)
- e.Describe the concept of Zero Trust
- f.Describe the purpose of the defense in depth model
- g.Describe the purpose of Microsoft Defender for Cloud





ПКЭ







COST MANAGEMENT IN AZURE

- a.Describe factors that can affect costs in Azure
- b.Compare the Pricing calculator and the Total Cost of Ownership (TCO) calculator
- c.Describe the Azure Cost Management and Billing tool
- d.Describe the purpose of tags





CHAPTER

FEATURES AND TOOLS IN AZURE FOR GOVERNANCE AND COMPLIANCE

- a.Describe the purpose of Azure Blueprints
- b.Describe the purpose of Azure Policy
- c.Describe the purpose of resource locks
- d.Describe the purpose of the Service Trust Portal

THE CHAPTER

FEATURES AND TOOLS FOR MANAGING AND DEPLOYING AZURE RESOURCES

- a.Describe the Azure portal
- b.Describe Azure Cloud Shell, including Azure CLI and Azure PowerShell
- c.Describe the purpose of Azure Arc
- d.Describe Azure Resource Manager and Azure Resource Manager templates (ARM templates)

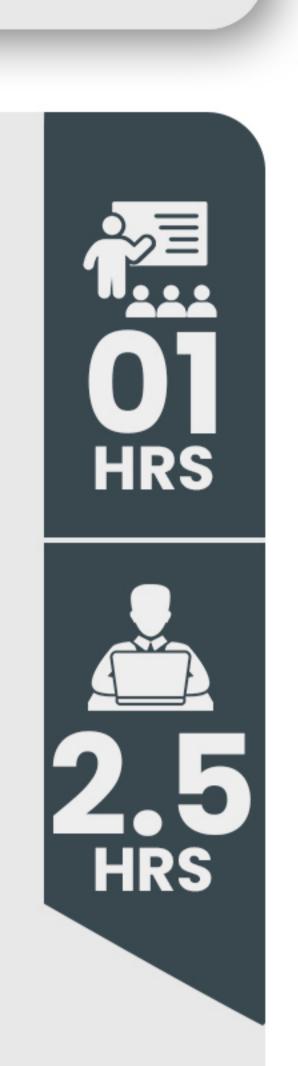






MONITORING TOOLS IN AZURE

- a.Describe the purpose of Azure Advisor
- b.Describe Azure Service Health
- c.Describe Azure Monitor, including Log Analytics, Azure Monitor alerts, and Application Insights











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