

# Azure Fundamentals Midterm Exam (Example Questions: Network Peering, TCO Calculator, Resource Locks)

## Azure Fundamentals Exam Questions

### Multiple Choice Questions

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**1. You need to allow resources on two different Azure virtual networks to communicate with each other. What should you configure?**

- A) Network peering
- B) Service endpoints
- C) Azure VPN gateway
- D) ExpressRoute
- E) Network File System

**2. You need to compare the costs of running an application in an on-premises datacenter with the costs of running the application in Azure. What should you use to assist you?**

- A) Azure advisor
- B) Azure Cost Management
- C) Azure Pricing Calculator
- D) Total Cost of Ownership (TCO) calculator
- E) Azure Service Health

**3. Which are two common scenarios for using resource tags? Each correct answer presents a complete solution.**

- A) Associating costs with different environments
- B) Resizing overutilized virtual machines
- C) Categorizing costs by department
- D) Identifying lower cost regions
- E) Resizing underutilized virtual machines

**4. You plan to build a new solution in Azure that will use platform as a service (PaaS) products. What should you use to estimate the monthly costs?**

- A) Azure advisor
- B) Azure Cost Management
- C) Azure Pricing Calculator
- D) Total Cost of Ownership (TCO) calculator
- E) Azure Service Health

**5. What can be applied to a resource to prevent accidental deletion?**

- A) A resource lock
- B) A resource tag
- C) A policy
- D) An Azure reservation
- E) An availability zone

**6. What can you use to ensure that new and existing Azure resources stay in compliance with corporate standards?**

- A) Azure Advisor
- B) Azure Policy
- C) Resource locks
- D) Resource tags
- E) Azure Service Health

**7. What can you use to ensure that a development team can only create virtual machines of a certain size?**

- A) Azure Blueprints
- B) Azure Policy
- C) Cloud Adoption Framework
- D) Conditional Access
- E) Resource locks

**8. Which management layer accepts requests from any Azure tool or API and enables you to create, update, and delete resources in an Azure account?**

- A) Azure CLI
- B) Azure management groups
- C) Azure Resource Manager
- D) Azure Sphere
- E) Azure Subscriptions

**9. Which two tools can you use to create a new Azure virtual machine from a mobile device that runs Android? Each correct answer presents a complete solution.**

- A) Powershell in Azure Cloud Shell
- B) Remote Desktop
- C) SSH
- D) Azure Portal
- E) Azure Policy

**10. What can you use to manage servers across third party cloud platforms and on-premises environments?**

- A) Azure Arc
- B) Azure CLI
- C) Azure Monitor
- D) Azure Powershell
- E) Azure Blueprints

**11. In a region pair, a region is paired with another region in the same \_\_\_\_\_.**

- A) Availability zone
- B) Datacenter
- C) Geography
- D) Resource group
- E) Subscription

**12. What can you use to execute code in a serverless environment?**

- A) Azure Container Instances
- B) Azure Functions
- C) Azure Logic Apps
- D) Azure Virtual Desktop
- E) Azure Web App

**13. What can you use to provide Mac and Android users with access to a Windows environment that will run Windows-based applications?**

- A) Azure Container Instances
- B) Azure Functions
- C) Azure Logic Apps
- D) Azure Virtual Desktop
- E) Azure Web App

**14. What can you use to allow a user to manage all the resources in a resource group?**

- A) Azure Key Vault
- B) Azure App Configuration
- C) Resource locks
- D) Azure role-based access control (RBAC)
- E) Azure Monitor

**15. What can you use to ensure that users authenticate by using multi-factor authentication (MFA) when they attempt to sign in from a specific location?**

- A) Administrative Units
- B) Azure role-based access control (RBAC)
- C) Conditional Access
- D) Single Sign-on
- E) Azure App Configuration

**16. Which two attributes are characteristics of the private cloud deployment model? Each correct answer presents a complete solution.**

- A) Applications can be provisioned and deprovisioned quickly.
- B) Hardware must be purchased.
- C) Organizations only pay for what they use.
- D) The company has complete control over physical resources and security.

**17. Which two characteristics are common advantages of cloud computing? Each correct answer presents a complete solution.**

- A) Elimination of horizontal scaling
- B) Geo-distribution
- C) High availability
- D) Physical access to servers
- E) Hardware must be purchased.

**18. In a platform as a service (PaaS) model, which two components are the responsibility of the cloud service provider? Each correct answer presents a complete solution.**

- A) Information and data
- B) Operating system
- C) Physical network
- D) User access
- E) App configuration

**19. In which cloud service model can an organization offload its entire physical hardware responsibilities, potentially allowing it to shut down its on-premises data center?**

- A) A public cloud
- B) An on-premises private cloud
- C) Community cloud
- D) IaaS
- E) SaaS

**20. A company has distributed its workload on both the Azure Cloud and some on-premises servers. What type of architecture is this?**

- A) Virtual private network
- B) Virtual private cloud
- C) Hybrid cloud
- D) Private cloud
- E) Community cloud

**21. Which of the following is the correct description of the Azure Cloud Services benefit of scalability?**

- A) A cloud service that can be accessed quickly from the Internet.
- B) A cloud service that can be recovered after a failure occurs.
- C) A cloud service that remains available after a failure occurs.
- D) A cloud service that maintains fast performance as demand increases.

**22. A company hosts a promotion application named AppHede that all its customers use. AppHede has low usage during the first three weeks of each month and very high usage during the last week of each month. Which benefit of Azure Cloud Services supports cost management for such usage patterns?**

- A) High availability
- B) High latency
- C) Elasticity

**23. Which feature within Azure collects all the logs from various resources into a central dashboard, where you can run queries, view graphs, and create alerts on certain events?**

- A) Event hub
- B) Azure Portal Dashboard
- C) Azure Security Center
- D) Azure Monitor
- E) Blob Storage

**24. What is a core principle of Zero Trust?**

- A) Don't store credit cards and other critical data in the cloud.
- B) Require users to log in every session.
- C) Require users to change their passwords frequently.

**25. Which of the following element is considered part of the perimeter layer of security?**

- A) Keep operating systems up to date with patches.
  - B) Use a firewall
  - C) Locks on the data center doors
  - D) Separate servers into distinct subnets by role.
  - E) Using multifactor Authentication
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### True/False Questions

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**27.** \_\_\_\_\_ Azure Virtual Network enables the creation of private, isolated networks in the Azure cloud. **28.** \_\_\_\_\_ Azure ExpressRoute provides dedicated, private network connectivity between on-premises data centers and Azure. **29.** \_\_\_\_\_ Azure Load Balancer distributes incoming network traffic across multiple servers to ensure no single server is overwhelmed with too much traffic. **30.** \_\_\_\_\_ Azure Blueprints enable you to define a repeatable set of Azure resources that implement and adhere to an organization's standards, patterns, and requirements. **31.** \_\_\_\_\_ Azure Policy can only be applied at the subscription level and not at the resource group or resource levels. **32.** \_\_\_\_\_ Azure Blueprints can be used to manage and enforce security controls across different Azure subscriptions. **33.** \_\_\_\_\_ IaaS provides virtualized computing resources over the internet and typically includes services like virtual machines, storage, and networking. **34.** \_\_\_\_\_ PaaS is well-suited for developers who want control over the underlying infrastructure and need to manage the entire software stack. **35.** \_\_\_\_\_ Serverless computing means there are no servers involved in the execution of code.