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## Microsoft SC-500 Exam Syllabus Topics:

| Section                             | Weight | Objectives                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Secure compute                      | 20–25% | <ul style="list-style-type: none"> <li>- Secure virtual machines and containers                             <ul style="list-style-type: none"> <li>• 1. Manage updates and vulnerability remediation</li> <li>• 2. Harden operating systems and workloads</li> <li>• 3. Secure container environments and orchestration</li> </ul> </li> </ul>                          |
|                                     |        | <ul style="list-style-type: none"> <li>- Secure application and workload identities                             <ul style="list-style-type: none"> <li>• 1. Implement managed identities and service principals</li> <li>• 2. Secure serverless and PaaS services</li> </ul> </li> </ul>                                                                                |
| Manage and monitor security posture | 20–25% | <ul style="list-style-type: none"> <li>- Monitor, assess, and improve security posture                             <ul style="list-style-type: none"> <li>• 1. Use Microsoft Defender and Microsoft Sentinel for threat detection</li> <li>• 2. Assess compliance and security posture</li> <li>• 3. Respond to and remediate security incidents</li> </ul> </li> </ul> |
|                                     |        | <ul style="list-style-type: none"> <li>- Secure AI workloads and solutions                             <ul style="list-style-type: none"> <li>• 1. Enforce responsible AI and data protection</li> <li>• 2. Implement security controls for generative AI and AI platforms</li> <li>• 3. Monitor and mitigate AI-specific risks</li> </ul> </li> </ul>                  |

- Secure storage and data services

- 1. Configure encryption and access controls for storage accounts
- 2. Protect data in transit and at rest
- 3. Secure databases and data platforms

Secure storage, databases, and networking 25–30%

- Secure network infrastructure

- 1. Implement network security groups and firewalls
- 2. Monitor and remediate network risks
- 3. Secure hybrid and multi-cloud connectivity

- Implement secure authentication and authorization

- 1. Configure conditional access policies
- 2. Implement identity governance and privileged access
- 3. Manage Microsoft Entra ID identities and access

Manage identity, access, and governance 20–25%

- Enforce compliance and governance controls

- 1. Manage access reviews and entitlement management
- 2. Enforce regulatory and security policies

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## Pass Guaranteed Quiz 2026 Microsoft SC-500: Implementing End-to-End Security Controls for Cloud and AI Workloads Fantastic Excellect Pass Rate

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## Microsoft Implementing End-to-End Security Controls for Cloud and AI Workloads Sample Questions (Q90-Q95):

### NEW QUESTION # 90

You have a management group named MG1 that contains two subscriptions named Sub1 and Sub2. Sub1 contains a resource group named RG-Exception and a resource group named RG1 that hosts Microsoft Foundry resources.

You need to assign an Azure policy to force new Foundry deployments in MG1 to use private endpoints. The solution must NOT restrict deployments in RG-Exception.

How should you configure the policy?

- A. Assign the policy to MG1 and RG-Exception.
- B. Assign the policy to Sub1 and exclude RG-Exception.
- C. Assign the policy to Sub1 and RG-Exception.
- **D. Assign the policy to MG1 and exclude RG-Exception.**

**Answer: D**

Explanation:

The policy must apply across the entire management group MG1 because both Sub1 and Sub2 are in scope for new Foundry deployments. The exception must be expressed as an exclusion for RG-Exception, not by assigning the policy directly to that resource group. Assigning only to Sub1 misses Sub2. Including RG-Exception in the assignment would restrict the resource group that the requirement explicitly excludes.

Microsoft platform security questions usually hinge on where enforcement occurs: at the resource, server, subnet, firewall policy, private endpoint, or subscription level. The selected answer uses the control plane that owns that enforcement point. Other options are rejected when they only log activity, broaden network access, or protect a different service category. The result is a direct exam-style implementation choice: it changes the required security behavior without relying on unrelated monitoring, manual cleanup, or

excessive privilege.

Official Microsoft source/topic: SC-500 Study Guide > Azure Policy; Microsoft Learn > policy assignment scopes and exclusions.

### NEW QUESTION # 91

You use Microsoft Security Copilot.

Security Copilot contributors currently create custom plugins for their own sessions and manage organization-wide custom plugins.

You need to prevent the contributors from managing the organization-wide custom plugins. The solution must NOT affect the contributors' ability to create custom plugins for their own sessions.

What should you select in the Plugin settings?

- A. Contributors and Owners at the user scope
- **B. Owners only at the tenant scope**
- C. Owners only at the user scope
- D. Contributors and Owners at the tenant scope

**Answer: B**

Explanation:

Setting tenant-scope custom plugin management to Owners only prevents contributors from adding or managing plugins for the entire organization. Contributors can still create and manage their own session-specific custom plugins because the user-scope permission is not changed.

Reference:

<https://learn.microsoft.com/en-us/copilot/security/manage-plugins?tabs=securitycopilotplugin>

### NEW QUESTION # 92

Note: This section contains one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem. You must determine whether the solution meets the stated goals. More than one solution in the set might solve the problem. It is also possible that none of the solutions in the set solve the problem.

After you answer a question in this section, you will NOT be able to return. As a result, these questions do not appear on the Review Screen.

You have an Azure subscription that contains two virtual machines named VM1 and VM2. Each virtual machine has system-assigned managed identity enabled.

You have an Azure Storage account named storage1. Public access from all networks is enabled for storage1.

You need to ensure that VM1 and VM2 can access storage1.

Solution: You create a private endpoint on storage1.

Does this meet the goal?

- A. Yes
- **B. No**

**Answer: B**

Explanation:

A private endpoint provides private network connectivity to storage1, but it does not authorize VM1 or VM2 to access storage data. Because public network access is already enabled, connectivity is already available. The managed identities of the virtual machines must be assigned an appropriate Azure Storage data-access role to meet the access requirement.

Reference:

<https://learn.microsoft.com/en-us/azure/storage/common/storage-private-endpoints>

<https://learn.microsoft.com/en-us/azure/private-link/private-endpoint-overview>

### NEW QUESTION # 93

Case Study 2 - Fabrikam, Inc.

Overview

Fabrikam, Inc. is a consulting company. The company has a main office in New York City and branch offices in Amsterdam and Singapore.

Existing Environment. Network environment

The on-premises network contains a datacenter in each office.

Existing Environment. Cloud environment

Fabrikam has two Azure subscriptions named Sub1 and Sub2 and a Microsoft 365 subscription that includes Microsoft 365 E5 licenses.

All the subscriptions are linked to a Microsoft Entra tenant named fabrikam.com that contains the identities shown in the following table.

| Name   | Type                             | Microsoft Entra role                    | Azure role assignment for Sub1 |
|--------|----------------------------------|-----------------------------------------|--------------------------------|
| Admin1 | User                             | Privileged Authentication Administrator | Resource Policy Contributor    |
| Admin2 | User                             | Compliance Administrator                | User Access Administrator      |
| Admin3 | User                             | Authentication Administrator            | Contributor                    |
| Admin4 | User                             | Global Administrator                    | None                           |
| User1  | User                             | None                                    | Reader                         |
| AKS1   | System-assigned managed identity | None                                    | None                           |
| ID1    | User-assigned managed identity   | None                                    | None                           |

The tenant contains the groups shown in the following table.

| Name   | Type          | Role assignments allowed |
|--------|---------------|--------------------------|
| Group1 | Security      | Yes                      |
| Group2 | Security      | No                       |
| Group3 | Microsoft 365 | Yes                      |
| Group4 | Microsoft 365 | No                       |

All devices are enrolled in Microsoft Intune.

Existing Environment. Sub1 Resources

Sub1 contains a resource group named RG1 that contains the resources shown in the following table.

| Name       | Description                            | Location |
|------------|----------------------------------------|----------|
| SQLServer1 | Azure SQL Database logical server      | East US  |
| SQLdb1     | Database on SQLServer1                 | East US  |
| VM1        | Virtual machine                        | East US  |
| AKS1       | Azure Kubernetes Service (AKS) cluster | East US  |
| Registry1  | Azure container registry               | East US  |
| storage1   | Storage account                        | East US  |
| AKV1       | Azure key vault                        | East US  |

SQLServer1 uses Microsoft SQL Server authentication.

Sub1 has an Azure Web Application Firewall (WAF) named WAF1 that has the following types of rule sets:

- Bot Manager 1.1
- Azure-managed Default Rule Set (DRS)

Sub1 has the following compliance standards assigned in Microsoft Defender for Cloud:

- NIST SP 800-53 Rev. 4
- Microsoft cloud security benchmark (MCSB)

- System and Organization Controls (SOC) 2 Type 2 Existing Environment. Sub2 Resources
- Sub2 contains a resource group named RG2.
- Planned Changes and Requirements. Planned Changes
- Fabrikam plans to implement the following changes:
- Deploy the following key vaults to RG1:
  - AKV2 in the West Europe Azure region
  - AKV3 in the Central US Azure region
  - AKV4 in the East US Azure region
- Deploy the following key vaults to RG2:
  - AKV5 in the East US region
- Configure VM1 to read data from storage1.
- Create function apps that have the following hosting plans:
  - Fa1: Flex Consumption hosting plan
  - Fa2: Consumption hosting plan
  - Fa3: Dedicated hosting plan
- For WAF1, implement rate limiting rules based on the request location.
- Enable the NIST SP 800-53 Rev. 5 compliance standard in Defender for Cloud.
- Create a new storage account named storage2 that supports Azure Table storage.
- Enforce multifactor authentication (MFA) when database administrators access SQLdb1.
- Implement ExpressRoute circuits to the on-premises network as shown in the following table.

| Name | Location       | Deployment type                                 |
|------|----------------|-------------------------------------------------|
| ER1  | West Europe    | ExpressRoute with a connectivity provider       |
| ER2  | West Europe    | ExpressRoute Metro with a connectivity provider |
| ER3  | East US        | ExpressRoute Direct                             |
| ER4  | Southeast Asia | ExpressRoute Metro Direct                       |

- For RG1, create a new Privileged Identity Management (PIM) eligible role assignment that assigns the Contributor role to supported groups.
  - Planned Changes and Requirements. Technical Requirements
  - Fabrikam has the following technical requirements:
  - If VM1 is deleted, the permissions for VM1 must be removed automatically.
  - The AKS1 managed identity must only be able to pull images from Registry1.
  - The ID1 managed identity must be able to push images to and pull images from Registry1.
  - All the data in the storage accounts must be encrypted by using Fabrikam-managed keys.
  - All outbound traffic from the function apps to the on-premises network must use ExpressRoute circuits.
  - ExpressRoute connectivity between the on-premises network and the Azure environment must be encrypted by using Layer 2 or Layer 3 encryption.
- Hotspot Question
- You need to implement the planned change for the PIM role assignment. Which users can perform the planned change, and for which groups? To answer, select the appropriate options in the answer area.
- NOTE: Each correct selection is worth one point.

## Answer Area



Users:

|                                 |
|---------------------------------|
| Admin2 only                     |
| Admin4 only                     |
| Admin2 and Admin3 only          |
| Admin2, Admin3, and Admin4 only |

Groups:

|                                    |
|------------------------------------|
| Group1 only                        |
| Group1 and Group2 only             |
| Group1 and Group3 only             |
| Group1, Group2, and Group3 only    |
| Group1, Group2, Group3, and Group4 |

**Answer:**

Explanation:

## Answer Area

Users:

|                                 |
|---------------------------------|
| Admin2 only                     |
| Admin4 only                     |
| Admin2 and Admin3 only          |
| Admin2, Admin3, and Admin4 only |

Groups:

|                                    |
|------------------------------------|
| Group1 only                        |
| Group1 and Group2 only             |
| Group1 and Group3 only             |
| Group1, Group2, and Group3 only    |
| Group1, Group2, Group3, and Group4 |

Explanation:

Scenario:

Planned change: For RG1, create a new Privileged Identity Management (PIM) eligible role assignment that assigns the Contributor role to supported groups.

Box 1: Admin2 only

Scenario:

Admin2 has the Microsoft Entra role Compliance administrator, and the Azure role assignment User Access Administrator.

Admin3 has the Microsoft Entra role Authentication administrator, and the Azure role assignment Contributor.

Admin4 has the Microsoft Entra role Global administrator, and no Azure role assignment.

Only Admin2 can perform the required task.

Creating a Privileged Identity Management (PIM) eligible role assignment for Azure requires the ability to write role assignments at the desired scope (like Microsoft.Authorization/roleAssignments/write). This authorization is specifically granted by the Azure User Access Administrator or Owner roles.

Breakdown of the administrators:

Admin2: Has the Azure role User Access Administrator, which permits managing PIM assignments for Azure resources.

Admin3: Has the Azure Contributor role. While Contributor can manage resources, it does not include permissions to assign roles or configure PIM.

Admin4: Is a Global Administrator in Microsoft Entra ID. While Global Administrators can manage Microsoft Entra roles in PIM, they do not automatically have permissions to manage or assign Azure resource roles unless they have been explicitly granted an Azure role like User Access Administrator.

Box 2: Group1 only

Scenario:

Group1 is a security group and role assignment is allowed.

Group2 is a security group and role assignment is not allowed.

Group3 is a Microsoft 365 group and role assignment is allowed.

Group4 is a Microsoft 365 group and role assignment is not allowed.

The Contributor role can be assigned to Group1. To assign a role (like Contributor) to a group in Microsoft Entra (Azure RBAC), the group must be a cloud-only security or Microsoft 365 group that has the isAssignableToRole property explicitly enabled at the time of creation.

Here is the breakdown for each of your groups:

Group1 (Yes): It is a security group, and role assignment is allowed.

Group2 (No): Role assignment is not allowed for this group.

Group3 (No): While it is allowed for assignment, Microsoft 365 groups currently do not support Azure resource roles (only Microsoft Entra directory roles are supported).

Group4 (No): Role assignment is not allowed.

Reference:

<https://docs.azure.cn/en-us/entra/id-governance/privileged-identity-management/pim-deployment-plan>

#### NEW QUESTION # 94

Hotspot Question

You have an Azure subscription that contains the following servers:

- 200 virtual machines that run either Windows Server or Ubuntu Server
- 50 Azure Arc-enabled servers

You use Azure Policy to manage compliance across all the servers.

You need to enforce an organization-specific security baseline. The solution must meet the following requirements:

- Customize a built-in security baseline.
- Ensure that configuration changes to the servers are enforced automatically after the security baseline is deployed.
- Minimize administrative effort.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

To customize the baseline:

Use Azure Machine Configuration.  
Use Desired State Configuration (DSC).  
Edit the built-in initiative in JSON directly.

Set enforcement mode to:

Apply and Autocorrect  
Apply and Monitor  
Audit  
DeployIfNotExists

**Answer:**

Explanation:

To customize the baseline:

Use Azure Machine Configuration.  
Use Desired State Configuration (DSC).  
Edit the built-in initiative in JSON directly.

Set enforcement mode to:

Apply and Autocorrect  
Apply and Monitor  
Audit  
DeployIfNotExists

## NEW QUESTION # 95

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