

# Designing Microsoft Azure Infrastructure Solutions

1. HOTSPOT (Drag and Drop is not supported)

You need to ensure that users managing the production environment are registered for Azure MFA and must authenticate by using Azure MFA when they sign in to the Azure portal. The solution must meet the authentication and authorization requirements.

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 register the users for Azure MFA, use:

Azure AD Identity Protection  
Security defaults in Azure AD  
Azure AD authentication methods poli

To enforce Azure MFA authentication, configure:

Grant control in capolicy1  
Session control in capolicy1  
Sign-in risk policy in Azure AD Identit  
the Litware.com.tenant

A. See Explanation section for answer.

Answer(s): A

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2. After you migrate App1 to Azure, you need to enforce the data modification requirements to meet the security and compliance requirements.

What should you do?

A. Create an access policy for the blob service.

B. Implement Azure resource locks.

C. Create Azure RBAC assignments.

D. Modify the access level of the blob service.

Answer(s): A

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3. HOTSPOT (Drag and Drop is not supported)

To meet the authentication requirements of Fabrikam, what should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

Minimum number of Azure AD tenants:

0
1
2
3
4

Minimum number of custom domains to add:

0
1
2
3
4

Minimum number of conditional access policies to create:

0
1
2
3
4

A. See Explanation section for answer.

**Answer(s):** A

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4. You need to recommend a notification solution for the IT Support distribution group. What should you include in the recommendation?

A. a SendGrid account with advanced reporting

B. an action group

C. Azure Network Watcher

D. Azure AD Connect Health

**Answer(s):** D

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5. You need to recommend a solution to meet the database retention requirements. What should you recommend?

A. Configure a long-term retention policy for the database.

B. Configure Azure Site Recovery.

C. Use automatic Azure SQL Database backups.

D. Configure geo-replication of the database.

**Answer(s): A**

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**6. HOTSPOT** (Drag and Drop is not supported)

What should you implement to meet the identity requirements? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Service:

	▼
Azure AD Identity Governance	
Azure AD Identity Protection	
Azure AD Privilege Access Management (PIM)	
Azure Automation	

Feature:

	▼
Access packages	
Access reviews	
Approvals	
Runbooks	

A. See Explanation section for answer.

**Answer(s): A**

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**7.** What should you recommend to meet the monitoring requirements for App2?

A. VM insights

B. Azure Application Insights

C. Microsoft Sentinel

D. Container insights

**Answer(s): B**

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**8.** You have an Azure subscription that contains a custom application named Application1. Application1 was developed by an external company named Fabrikam, Ltd. Developers at Fabrikam were assigned role-based access control (RBAC) permissions to the Application1 components. All users are licensed for the Microsoft 365 E5 plan.

You need to recommend a solution to verify whether the Fabrikam developers still require permissions to Application1. The solution must meet the following requirements:

-To the manager of the developers, send a monthly email message that lists the access permissions to Application1.

-If the manager does not verify an access permission, automatically revoke that permission. Minimize development effort.

What should you recommend?

A. In Azure Active Directory (Azure AD), create an access review of Application1.

B. Create an Azure Automation runbook that runs the Get-AzRoleAssignmentcmdlet.

C. In Azure Active Directory (Azure AD) Privileged Identity Management, create a custom role assignment for the Application1 resources.

D. Create an Azure Automation runbook that runs the Get-AzureADUserAppRoleAssignmentcmdlet.

**Answer(s):** A

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9. You have an Azure subscription. The subscription has a blob container that contains multiple blobs. Ten users in the finance department of your company plan to access the blobs during the month of April. You need to recommend a solution to enable access to the blobs during the month of April only. Which security solution should you include in the recommendation?

A. shared access signatures (SAS)

B. Conditional Access policies

C. certificates

D. access keys

**Answer(s):** A

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10. You have an Azure Active Directory (Azure AD) tenant that syncs with an on-premises Active Directory domain. You have an internal web app named WebApp1 that is hosted on-premises. WebApp1 uses Integrated Windows authentication. Some users work remotely and do NOT have VPN access to the on-premises network. You need to provide the remote users with single sign-on (SSO) access to WebApp1. Which two features should you include in the solution? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

A. Azure AD Application Proxy

B. Azure AD Privileged Identity Management (PIM)

C. Conditional Access policies

D. Azure Arc

E. Azure AD enterprise applications

F. Azure Application Gateway

**Answer(s):** A E

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11. You have an Azure Active Directory (Azure AD) tenant named contoso.com that has a security group named Group1. Group1 is configured for assigned membership. Group1 has 50 members, including 20 guest users. You need to recommend a solution for evaluating the membership of Group1. The solution must meet the following requirements:

- The evaluation must be repeated automatically every three months. Every member must be able to report whether they need to be in Group1.
- Users who report that they do not need to be in Group1 must be removed from Group1 automatically. Users who do not report whether they need to be in Group1 must be removed from Group1 automatically.

What should you include in the recommendation?

A. Implement Azure AD Identity Protection.

B. Change the Membership type of Group1 to Dynamic User.

C. Create an access review.

D. Implement Azure AD Privileged Identity Management (PIM).

**Answer(s): C**

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**12. HOTSPOT (Drag and Drop is not supported)**

You plan to deploy Azure Databricks to support a machine learning application. Data engineers will mount an Azure Data Lake Storage account to the Databricks file system. Permissions to folders are granted directly to the data engineers.

You need to recommend a design for the planned Databrick deployment. The solution must meet the following requirements:

-Ensure that the data engineers can only access folders to which they have permissions. Minimize development effort.

-Minimize costs.

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

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Databricks SKU: 

	▼
Premium	
Standard	

Cluster configuration: 

	▼
Credential passthrough	
Managed identities	
MLflow	
A runtime that contains Photon	
Secret scope	

A. See Explanation section for answer.

**Answer(s): A**

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**13. HOTSPOT (Drag and Drop is not supported)**

You plan to deploy an Azure web app named App1 that will use Azure Active Directory (Azure AD) authentication.

App1 will be accessed from the internet by the users at your company. All the users have computers that run Windows 10 and are joined to Azure AD.

You need to recommend a solution to ensure that the users can connect to App1 without being prompted for authentication and can access App1 only from company-owned computers.

What should you recommend for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

### Answer Area

The users can connect to App1 without being prompted for authentication:

	▼
An Azure AD app registration	
An Azure AD managed identity	
Azure AD Application Proxy	

The users can access App1 only from company-owned computers:

	▼
A Conditional Access policy	
An Azure AD administrative unit	
Azure Application Gateway	
Azure Blueprints	
Azure Policy	

A. See Explanation section for answer.

**Answer(s): A**

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**14.** Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company deploys several virtual machines on-premises and to Azure. ExpressRoute is being deployed and configured for on-premises to Azure connectivity.

Several virtual machines exhibit network connectivity issues.

You need to analyze the network traffic to identify whether packets are being allowed or denied to the virtual machines.

Solution: Use Azure Traffic Analytics in Azure Network Watcher to analyze the network traffic. Does this meet the goal?

A. Yes

B. No

**Answer(s): B**

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**15.** Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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Several virtual machines exhibit network connectivity issues.

You need to analyze the network traffic to identify whether packets are being allowed or denied to the virtual machines.

Solution: Use Azure Advisor to analyze the network traffic. Does this meet the goal?

A. Yes

B. No

**Answer(s): B**

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16. Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company deploys several virtual machines on-premises and to Azure. ExpressRoute is deployed and configured for on-premises to Azure connectivity.

Several virtual machines exhibit network connectivity issues.

You need to analyze the network traffic to identify whether packets are being allowed or denied to the virtual machines.

Solution: Use Azure Network Watcher to run IP flow verify to analyze the network traffic. Does this meet the goal?

A. Yes

B. No

**Answer(s): A**

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17. DRAG DROP (Drag and Drop is not supported)

You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016 and Linux.

You need to use Azure Monitor to design an alerting strategy for security-related events.

Which Azure Monitor Logs tables should you query? To answer, drag the appropriate tables to the correct log types. Each table may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Tables	Answer Area
AzureActivity	Events from Windows event logs: Table
AzureDiagnostics	Events from Linux system logging: Table
Event	
Syslog	

A. See Explanation section for answer.

**Answer(s): A**

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18. You are designing a large Azure environment that will contain many subscriptions. You plan to use Azure Policy as part of a governance solution.

To which three scopes can you assign Azure Policy definitions? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Azure Active Directory (Azure AD) administrative units

B. Azure Active Directory (Azure AD) tenants

C. subscriptions

D. compute resources

E. resource groups

F. management groups

**Answer(s):** C E F

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**19. DRAG DROP** (Drag and Drop is not supported)

Your on-premises network contains a server named Server1 that runs an ASP.NET application named App1. You have a hybrid deployment of Azure Active Directory (Azure AD).

You need to recommend a solution to ensure that users sign in by using their Azure AD account and Azure Multi-Factor Authentication (MFA) when they connect to App1 from the internet.

Which three features should you recommend be deployed and configured in sequence? To answer, move the appropriate features from the list of features to the answer area and arrange them in the correct order.

Select and Place:

Features	Answer Area
a public Azure Load Balancer	
a managed identity	
an internal Azure Load Balancer	
a Conditional Access policy	⬅
an Azure App Service plan	➡
Azure AD Application Proxy	
an Azure AD enterprise application	

A. See Explanation section for answer.

**Answer(s):** A

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**20.** You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager (ARM) resource deployments in your Azure subscription.

What should you include in the recommendation?

A. Azure Activity Log

B. Azure Advisor

C. Azure Analysis Services

D. Azure Monitor action groups

**Answer(s):** A

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