



**Microsoft**

**Exam Questions AZ-300**

Microsoft Azure Architect Technologies

**NEW QUESTION 1**

- (Exam Topic 1)

You need to access user claims in the e-commerce web app. What should you do first?

- A. Write custom code to make a Microsoft Graph API call from the e-commerce web app.
- B. Assign the Contributor RBAC role to the e-commerce web app by using the Resource Manager create role assignment API
- C. Update the e-commerce web app to read the HTTP request header values.
- D. Using the Azure CU, enable Cross-origin resource sharing (CORS) from the e-commerce checkout API to the e-commerce web

**Answer: A****NEW QUESTION 2**

- (Exam Topic 2)

You need to ensure that the Policy service can implement the policy actions. Which code segment should you insert at line EG07 in EventGridController.cs?

- A. 

```
if (HttpContext.Request.Headers["aeg-event-type"].FirstOrDefault() == "SubscriptionValidation")
{
    return new JsonResult(new
    {
        validationResponse = events[0]["validationCode"]
    });
}
```
- B. 

```
if (events[0]["eventType"].ToString() == "SubscriptionValidation")
{
    return new JsonResult(new
    {
        validationResponse = events[0]["validationCode"]
    });
}
```
- C. 

```
if (HttpContext.Request.Headers["aeg-event-type"].FirstOrDefault() == "SubscriptionValidation")
{
    return new JsonResult(new
    {
        validationResponse = events[0]["data"]["validationCode"]
    });
}
```
- D. 

```
if (events[0]["subject"].ToString() == "SubscriptionValidation")
{
    return new JsonResult(new
    {
        validationResponse = events[0]["data"]["validationCode"]
    });
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: C****NEW QUESTION 3**

- (Exam Topic 5)

You have two subscriptions named Subscription1 and Subscription2. Each subscription is associated to a different Azure AD tenant.

Subscription1 contains a virtual network named VNet1. VNet1 contains an Azure virtual machine named VM1 and has an IP address space of 10.0.0.0/16.

Subscription2 contains a virtual network named VNet2. VNet2 contains an Azure virtual machine named VM2 and has an IP address space of 10.10.0.0/24.

You need to connect VNet1 to VNet2. What should you do first?

- A. Modify the IP address space of VNet2
- B. Move VM1 to Subscription.
- C. Provision virtual network gateways.
- D. Move VNet1 to Subscription2.

**Answer: C**

#### NEW QUESTION 4

- (Exam Topic 5)

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.

You have an Azure Active Directory (Azure AD) tenant named Adatum and an Azure Subscription named Subscription 1. Adatum contains a group named Developers. Subscription1 contains a resource group named Dev.

You need to provide the Developers group with the ability to create Azure logic apps in the Dev resource group.

Solution: On Subscription1, you assign the DevTest Labs User role to the Developers group. Does this meet the goal?

- A. Yes
- B. NO

**Answer: B**

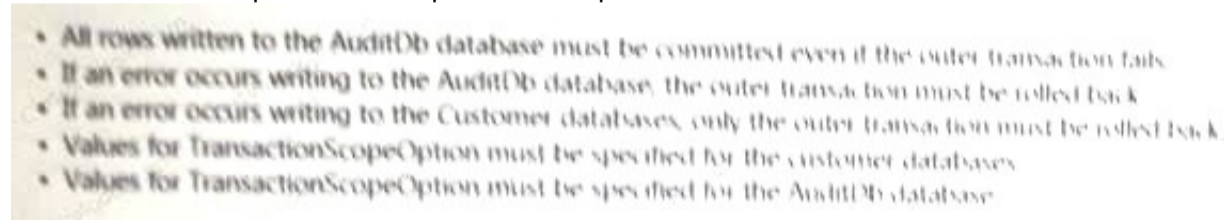
#### NEW QUESTION 5

- (Exam Topic 5)

You are developing a .NET Core on-premises application that updates multiple Azure SQL Database instances. The application must log all update commands attempted to a separate Azure SQL Database instance named AuditDb.

You define an outer Transaction Scope with a loop enumerate and run the SQL commands on each customer database connection and an inner Transaction Scope to record all transactions attempted within the outer Transaction Scope to the AuditDb database

You need to develop a method to perform the updates to the databases. The solution must meet the following requirements.

- 
- All rows written to the AuditDb database must be committed even if the outer transaction fails.
  - If an error occurs writing to the AuditDb database, the outer transaction must be rolled back.
  - If an error occurs writing to the Customer databases, only the outer transaction must be rolled back.
  - Values for TransactionScopeOption must be specified for the customer databases.
  - Values for TransactionScopeOption must be specified for the AuditDb database.

Which Transaction Scope Option values should you use?

- A. Required for Customer Tran Scope Option and Required for Audit Tran Scope Option
- B. Requires New for Customer Tran Scope Option and Suppress for Audit Tran Scope Option
- C. Suppress for Customer Tran Scope Option and Suppress for Audit Tran Scope Option
- D. Requires New for the Customer Tran Scope Option and Requires New for the Audit Tran Scope Option

**Answer: A**

#### NEW QUESTION 6

- (Exam Topic 5)

You have an Azure Active Directory (Azure AD) tenant.

All administrators must enter a verification code to access the Azure portal.

You need to ensure that the administrators can access the Azure portal only from your on-premises network. What should you configure?

- A. the default for all the roles in Azure AD Privileged Identity Management
- B. an Azure AD Identity Protection user risk policy
- C. an Azure AD Identity Protection sign-in risk policy
- D. the multi-factor authentication service settings

**Answer: D**

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-mfasettings>

#### NEW QUESTION 7

- (Exam Topic 5)

You have an Azure App Service API that allows users to upload documents to the cloud with a mobile device. A mobile app connects to the service by using REST API calls.

When a new document is uploaded to the service, the service extracts the document metadata. Usage statistics for the app show significant increases in app usage.

The extraction process is CPU-intensive. You plan to modify the API to use a queue.

You need to ensure that the solution scales, handles request spikes, and reduces costs between request spikes. What should you do?

- A. Configure a CPU Optimized virtual machine (VM) and install the Web App service on the new instance.
- B. Configure a series of CPU Optimized virtual machine (VM) instances and install extraction logic to process a queue.
- C. Move the extraction logic into an Azure Function

- D. Create a queue triggered function to process the queue.
- E. Configure Azure Container Service to retrieve items from a queue and run across a pool of virtual machine (VM) nodes using the extraction logic.

**Answer:** C

#### NEW QUESTION 8

- (Exam Topic 5)

Note: This question is part of 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.

A company backs up data to on-premises servers at their main facility. The company currently has 30 TB of archived data that infrequently used. The facility has download speeds of 100 Mbps and upload speeds of 20 Mbps.

You need to securely transfer all backups to Azure Blob Storage for long-term archival. All backup data must be sent within seven days.

Solution: Create a file share in Azure Files. Mount the file share to the server and upload the files to the file share. Transfer the files to Azure Blob Storage.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

#### NEW QUESTION 9

- (Exam Topic 5)

You create an Azure Time Series Insights event handler. You need to send data over the network as efficiently as possible and optimize query performance.

What should you do?

- A. Create a query plan
- B. Send all properties
- C. Use a Tag ID
- D. Use reference data

**Answer:** D

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/time-series-insights/how-to-shape-query-json>

#### NEW QUESTION 10

- (Exam Topic 5)

Note: This question is part of 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.

A company backs up data to on-premises servers at their main facility. The company currently has 30 TB of archived data that infrequently used. The facility has download speeds of 100 Mbps and upload speeds of 20 Mbps.

You need to securely transfer all backups to Azure Blob Storage for long-term archival. All backup data must be sent within seven days.

Solution: Use the Set-AzureStorageBlobContent Azure PowerShell command to copy all backups asynchronously to Azure Blob Storage.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

#### NEW QUESTION 10

- (Exam Topic 5)

You are developing a back-end Azure App Service that scales based on the number of messages contained in a Service Bus queue.

A rule already exists to scale up the App Service when the average queue length of unprocessed and valid queue messages is greater than 1000.

You need to add a new rule that will continuously scale down the App Service as long as the scale up condition is not met.

How should you configure the Scale rule? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Scale Rule

X

Metric source

Storage queue
Service Bus queue
Current resource
Storage queue(classic)

Resource type

Service Bus Namespaces v

Resource

MessageQueue1103 v

\*Queues

itemqueue v

Criteria

\*Metric name

Message Count
Active Message Count

1 minute time grain

\*Time grain statistic ⓘ

Total
Maximum
Average
Count

\*Operator

Greater than
Greater than or equal to
Less than
Less than or equal to

\*Threshold

1000

Action

\*Operation

Increase count by
Increase count to
Decrease count by
Decrease count to

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Scale Rule

X

Metric source

Storage queue
Service Bus queue
Current resource
Storage queue(classic)

Resource type

Service Bus Namespaces ▾

Resource

MessageQueue1103 ▾

\*Queues

itemqueue ▾

Criteria

\*Metric name

Message Count
Active Message Count

1 minute time grain

\*Time grain statistic ⓘ

Total
Maximum
Average
Count

\*Operator

Greater than
Greater than or equal to
Less than
Less than or equal to

\*Threshold

1000

Action

\*Operation

Increase count by
Increase count to
Decrease count by
Decrease count to

\*Cool down (minutes) ⓘ

5

UPDATE

DELETE

NEW QUESTION 12

- (Exam Topic 5)

Your company has offices in New York and Los Angeles.

You have an Azure subscription that contains an Azure virtual network named VNet1. Each office has a site-to-site VPN connection to VNet1.

Each network uses the address spaces shown in the following table:

Location	IP address space
VNet1	192.168.0.0/20
New York	10.0.0.0/16
Los Angeles	10.10.0.0/16

You need to ensure that all Internet-bound traffic from VNet1 is routed through the New York office. What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

In Azure, run:

	V
New-AzureRmLocalNetworkGateway	
New-AzureRmVirtualNetworkGatewayConnection	
Set-AzureRmVirtualNetworkGatewayDefaultSite	

On a VPN device in the New York office, set the traffic selectors to:

	V
0.0.0.0/0	
10.0.0.0/16	
192.168.0.0/20	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

In Azure, run:

	V
New-AzureRmLocalNetworkGateway	
New-AzureRmVirtualNetworkGatewayConnection	
Set-AzureRmVirtualNetworkGatewayDefaultSite	

On a VPN device in the New York office, set the traffic selectors to:

	V
0.0.0.0/0	
10.0.0.0/16	
192.168.0.0/20	

NEW QUESTION 16

- (Exam Topic 5)

You are developing an Azure Durable Function instance. You need to add a delay by using a durable timer. What type of function should you use?

- A. Orchestrator
- B. web hook
- C. Client
- D. Activity

Answer: D

NEW QUESTION 17

- (Exam Topic 5)

You have a Microsoft SQL Server Always On availability group on Azure virtual machines. You need to configure an Azure internal load balancer as a listener for the availability group. What should you do?

- A. Create an HTTP health probe on port 1433.
- B. Set Session persistence to Client IP.
- C. Set Session persistence to Client IP and protocol.
- D. Enable Floating IP.

Answer: D

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-portal-sql-alwa>

NEW QUESTION 22

- (Exam Topic 5)

You have an on-premises network that contains a Hyper-V host named Host1. Host1 runs Windows Server 2016 and hosts 10 virtual machines that run Windows Server 2016.

You plan to replicate the virtual machines to Azure by using Azure Site Recovery. You create a Recovery Services vault named ASR1 and a Hyper-V site named Site1. You need to add Host1 to ASR1.

What should you do?

- A. Download the installation file for the Azure Site Recovery Provider.Download the storage account key.Install the Azure Site Recovery Provider on each virtual machine and register the virtual machines.
- B. Download the installation file for the Azure Site Recovery Provider.Download the vault registration key.Install the Azure Site Recovery Provider on Host1 and register the server.
- C. Download the installation file for the Azure Site Recovery Provider.Download the storage account key.Install the Azure Site Recovery Provider on Host1 and register the server.
- D. Download the installation file for the Azure Site Recovery Provider.Download the vault registration key.Install the Azure Site Recovery Provider on each virtual machine and register the virtual machines.

Answer: B

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/site-recovery/hyper-v-azure-tutorial>

NEW QUESTION 23

- (Exam Topic 5)

You maintain an existing Azure SQL Database instance. Management of the database is performed by an external party. All cryptographic keys are stored in an Azure Key Vault.

You must ensure that the external party cannot access the data in the SSN column of the Person table

Will each protection method meet the requirement? To answer, drag the appropriate responses to the correct protection methods. Each response 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

Responses

Yes

No

Answer Area

Protection method	Response
Enable AlwaysOn encryption.	Response
Set the column encryption setting to disabled.	Response
Assign users to the Public fixed database role.	Response
Store column encryption keys in the system catalog view in the database.	Response

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/security/azure-database-security-overview>

#### NEW QUESTION 28

- (Exam Topic 5)

You have the following resource groups:

Resource group	Comments
DevServer_WestCentralUS	This resource group is located in the West Central US region and contains a single virtual machine (VM) named DevServer.  DevServer is connected to a private subnet in an Azure Virtual Network that has no internet access.
Workstation_EastUS	This resource group is located in the East US region and contains a VM named DevWorkstation.  DevWorkstation is connected to a subnet in a Virtual Network and is configured with a public IP address. A network security group has been configured to allow public incoming remote desktop protocol (RDP) connections to the DevWorkstation.

Developers must connect to Dev Server only through Dev Workstation. To maintain security, Dev Server must not accept connections from the internet. You need to create a private connection between the Dev Workstation and Dev Server.

Dev Workstation using their private IP addresses. Does the solution meet the goal?

- A. Yes
- B. NO

**Answer: A**

#### NEW QUESTION 29

- (Exam Topic 5)

You have an Azure Active Directory (Azure AD) tenant.

You have an existing Azure AD conditional access policy named Policy1. Policy1 enforces the use of Azure AD-joined devices when members of the Global Administrators group authenticate to Azure AD from untrusted locations.

You need to ensure that members of the Global Administrators group will also be forced to use multi-factor authentication when authenticating from untrusted locations.

What should you do?

- A. From the Azure portal, modify session control of Policy1.
- B. From multi-factor authentication page, modify the user settings.
- C. From multi-factor authentication page, modify the service settings.
- D. From the Azure portal, modify grant control of Policy1.

**Answer: D**

#### NEW QUESTION 32

- (Exam Topic 5)

You are building a custom Azure function app to connect to Azure Event Grid.

You need to ensure that resources are allocated dynamically to the function app. Billing must be based on the executions of the app.

What should you configure when you create the function app?

- A. the Windows operating system and the App Service plan hosting plan
- B. the Docker container and an App Service plan that uses the B1 pricing tier
- C. the Windows operating system and the Consumption plan hosting plan
- D. the Docker container and an App Service plan that uses the S1 pricing tier

**Answer: C**

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale>

#### NEW QUESTION 35

- (Exam Topic 5)

You have an Azure Service Bus.

You need to implement a Service Bus queue that guarantees first-in-first-out (FIFO) delivery of messages. What should you do?

- A. Enable partitioning
- B. Enable duplicate detection
- C. Set the Lock Duration setting to 10 seconds
- D. Enable sessions
- E. Set the Max Size setting of the queue to 5 GB

**Answer: D**

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-azure-and-service-bus-queuescompar>

**NEW QUESTION 37**

- (Exam Topic 5)

You have the following resource groups:

Resource group	Comments
DevServer_WestCentralUS	This resource group is located in the West Central US region and contains a single virtual machine (VM) named DevServer.  DevServer is connected to a private subnet in an Azure Virtual Network that has no internet access.
Workstation_EastUS	This resource group is located in the East US region and contains a VM named DevWorkstation.  DevWorkstation is connected to a subnet in a Virtual Network and is configured with a public IP address. A network security group has been configured to allow public incoming remote desktop protocol (RDP) connections to the DevWorkstation.

Developers must connect to Dev Server only through Dev Workstation. To maintain security, DevS erver must not accept connections from the internet. You need to create a private connection between the Dev Workstation and Dev St Solution: Configure an IP address on each subnet within the same address space. Does the solution meet the goal?

- A. Yes
- B. NO

**Answer: B**

**NEW QUESTION 40**

- (Exam Topic 5)

Your company develops a bot that uses QnA Maker knowledge bases and Language Understanding Intelligence Services (LUIS). You create the QnA Maker service, knowledge bases, and the LUIS app.

The bot application must use LUIS to determine which QnA Maker knowledge base to use.

You need to integrate LUIS with the QnA Maker knowledge bases and maximize the effectiveness for selecting the QnA Maker knowledge bases before testing the bot.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Configure the bot app to link LUIS app intents to the knowledge bases.	
Create utterances for the LUIS app that correspond to the knowledge bases.	
Create intents for the LUIS app that correspond to knowledge bases.	
Publish the LUIS application.	
Configure the bot app to link LUIS app entities to the knowledge bases.	
Create entities for the LUIS app that correspond to the knowledge bases.	
Train the LUIS application.	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Actions	Answer Area
Configure the bot app to link LUIS app intents to the knowledge bases.	Create intents for the LUIS app that correspond to knowledge bases.
Create utterances for the LUIS app that correspond to the knowledge bases.	
Create intents for the LUIS app that correspond to knowledge bases.	Train the LUIS application.
Publish the LUIS application.	Publish the LUIS application.
Configure the bot app to link LUIS app entities to the knowledge bases.	
Create entities for the LUIS app that correspond to the knowledge bases.	Configure the bot app to link LUIS app intents to the knowledge bases.
Train the LUIS application.	

#### NEW QUESTION 42

- (Exam Topic 5)

You create a social media application that users can use to upload images and other content.

Users report that adult content is being posted in an area of the site that is accessible to and intended for young children.

You need to automatically detect and flag potentially offensive content. The solution must not require any custom coding other than code to scan and evaluate images.

What should you implement?

- A. Bing Visual Search
- B. Bing Image Search
- C. Custom Vision Search
- D. Computer Vision API

**Answer:** D

#### NEW QUESTION 45

- (Exam Topic 5)

You are developing an Azure Function that will be triggered using a webhook from an external application. The Azure Function will receive JSON data in the body of the request.

Calling applications send an account ID as part of the URL. The number at the end of the URL is an integer. The format for the URL resembles the following:  
 /api/account/1

The Azure Function must accept all incoming requests without requiring keys or tokens. You need to complete the attributes for the Azure Function.

How should you complete the code? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

```
[
    [
        FunctionName
        RouteAttribute
        QueueTrigger
        HttpTrigger
    ]
] ("ProcessItem")

public static async Task<HttpResponseMessage> Run(

[
    [
        BlobTrigger
        FileTrigger
        QueueTrigger
        HttpTrigger
    ]
    (AuthorizationLevel.
    [
        Anonymous
        Admin
        User
        Function
    ]
    , "post",

Route = "
    [
        /api/account/1
        ProcessItem/{accountId:int}
        account/{accountId:int}
        /account/
    ]
    [HttpRequestMessage req,

    [
        string accountId
        int accountId
        [FromBody] string accountId
        int account
    ]
    , TraceWriter log)

{
    Item itemToProcess = await req.Content.ReadAsAsync<Item>();
    log.Info($"Processing item {itemToProcess.Id} for account {accountId}");
    var processedItem = DoItemProcessing(itemToProcess);
    return req.CreateResponse(HttpStatusCode.OK, processedItem);
}
```

- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:

```
[
    [
        FunctionName
        RouteAttribute
        QueueTrigger
        HttpTrigger
    ]
] ("ProcessItem")

public static async Task<HttpResponseMessage> Run(

[
    [
        BlobTrigger
        FileTrigger
        QueueTrigger
        HttpTrigger
    ]
    (AuthorizationLevel.
    [
        Anonymous
        Admin
        User
        Function
    ]
    , "post",

Route = "
    [
        /api/account/1
        ProcessItem/{accountId:int}
        account/{accountId:int}
        /account/
    ]
    [HttpRequestMessage req,

    [
        string accountId
        int accountId
        [FromBody] string accountId
        int account
    ]
    , TraceWriter log)

{
    Item itemToProcess = await req.Content.ReadAsAsync<Item>();
    log.Info($"Processing item {itemToProcess.Id} for account {accountId}");
    var processedItem = DoItemProcessing(itemToProcess);
    return req.CreateResponse(HttpStatusCode.OK, processedItem);
}
```

#### NEW QUESTION 48

- (Exam Topic 6)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the vendor notification requirement.

Solution: Update the Delivery API to send emails by using a Microsoft Office 365 SMTP server. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-configure-notifications>

**NEW QUESTION 50**

- (Exam Topic 6)

You need to resolve the delivery API error. What should you do?

- A. Implement simple retry by using the EnableRetryOnFailure feature of Entity Framework.
- B. Implement exponential backoff by using the EnableRetryOnFailure feature of Entity Framework.
- C. Implement a Circuit Breaker pattern by using the EnableRetryOnFailure feature of Entity Framework.
- D. Invoke a custom execution strategy in Entity Framework.

**Answer:** B

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-develop-error-messages>

**NEW QUESTION 55**

- (Exam Topic 6)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the vendor notification requirement.

Solution: Update the Delivery API to send emails by using a cloud-based email service. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-configure-notifications>

**NEW QUESTION 57**

- (Exam Topic 6)

You need to implement the purchase requirement. What should you do?

- A. Use the Bot Framework REST API conversation operations to send the user's voice and the Speech Service API to recognize intents.
- B. Use the Direct Line REST API to send the user's voice and the Speech Service API to recognize intents.
- C. Use the Speech Service API to send the user's voice and the Bot Framework REST API conversation operations to recognize intents.
- D. Use the Bot Framework REST API attachment operations to send the user's voice and the Speech Service API to recognize intents.

**Answer:** A

**NEW QUESTION 58**

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