



# AZ-204<sup>Q&As</sup>

Developing Solutions for Microsoft Azure

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**QUESTION 1****DRAG DROP**

You need to add markup at line AM04 to implement the ContentReview role.

How should you complete the markup? To answer, drag the appropriate json segments to the correct locations. Each json segment 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:

**Json segments****Answer Area**

```
"appRoles" : [  
  {  
    "  ": [  
      "  "  
    ],  
    "displayName": "ContentReviewer",  
    "id": "e1c2ade8-98f8-45fd-aa4a-6d24b512c22a",  
    "isEnabled" : true,  
    "  " : "ContentReviewer"  
  }  
],
```

Correct Answer:



## Json segments

  
  
  
  
  

## Answer Area

```
"appRoles" : [  
  {  
    "allowedMemberTypes" : [  
      "User"  
    ],  
    "displayName": "ContentReviewer",  
    "id": "e1c2ade8-98f8-45fd-aa4a-6d24b512c22a",  
    "isEnabled" : true,  
    "value" : "ContentReviewer"  
  }  
],
```

Box 1: allowedMemberTypes

allowedMemberTypes specifies whether this app role definition can be assigned to users and groups by setting to "User", or to other applications (that are accessing this application in daemon service scenarios) by setting to "Application", or

to both.

Note: The following example shows the appRoles that you can assign to users.

```
"appId": "8763f1c4-f988-489c-a51e-158e9ef97d6a",
```

```
"appRoles": [  
  {  
    "allowedMemberTypes": [  
      "User"
```

```
    ],
```

```
    "displayName": "Writer",
```

```
    "id": "d1c2ade8-98f8-45fd-aa4a-6d06b947c66f",
```

```
    "isEnabled": true,
```

```
    "description": "Writers Have the ability to create tasks.",
```

```
    "value": "Writer"
```

```
  } ], "availableToOtherTenants": false,
```

Box 2: User

Scenario: In order to review content a user must be part of a ContentReviewer role.



Box 3: value

value specifies the value which will be included in the roles claim in authentication and access tokens.

Reference:

<https://docs.microsoft.com/en-us/graph/api/resources/approle>

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## QUESTION 2

### DRAG DROP

You are a developer for a Software as a Service (SaaS) company. You develop solutions that provide the ability to send notifications by using Azure Notification Hubs.

You need to create sample code that customers can use as a reference for how to send raw notifications to Windows Push Notification Services (WNS) devices. The sample code must not use external packages.

How should you complete the code segment? To answer, drag the appropriate code segments to the correct locations. Each code segment 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:

#### Code segments

raw

windows

windowsphone

application/xml

application/json

application/octet-stream

#### Answer Area

```
var endpoint = "...";
var payload = "...";
var request = new HttpRequestMessage(HttpMethod.Post, endpoint);
request.Headers.Add("X-WNS-Type", "wns/raw");
request.Headers.Add("ServiceBusNotification-Format", "Code segment");
request.Content = new StringContent(payload, Encoding.UTF8, "Code segment");
var client = new HttpClient();
await client.SendAsync(request);
```

Correct Answer:



## Code segments

## Answer Area

```
var endpoint = "...";
var payload = "...";
var request = new HttpRequestMessage(HttpMethod.Post, endpoint);
request.Headers.Add("X-WNS-Type", "wns/raw");
request.Headers.Add("ServiceBusNotification-Format", " windows ");
request.Content = new StringContent(payload, Encoding.UTF8, " application/octet-stream ");
var client = new HttpClient();
await client.SendAsync(request);
```

Box 1: windows

Example code: `var request = new HttpRequestMessage(method, $"{resourceUri}?api-version=2017-04");`  
`request.Headers.Add("Authorization", createToken(resourceUri, KEY_NAME,`

`KEY_VALUE));``request.Headers.Add("X-WNS-Type", "wns/raw");``request.Headers.Add("ServiceBusNotification-Format", "windows");``return request;`

Box 2: application/octet-stream

Example code capable of sending a raw notification:

`string resourceUri = $"https://{NH_NAMESPACE}.servicebus.windows.net/{HUB_NAME}/messages/";``using (var request = CreateHttpRequest(HttpMethod.Post, resourceUri))``{``request.Content = new StringContent(content, Encoding.UTF8,``"application/octet-stream");``request.Content.Headers.ContentType.CharSet = string.Empty;``var httpClient = new HttpClient();``var response = await httpClient.SendAsync(request);``Console.WriteLine(response.StatusCode);``}`

Reference: <https://stackoverflow.com/questions/31346714/how-to-send-raw-notification-to-azure-notification-hub/31347901>

**QUESTION 3****DRAG DROP**

You need to ensure disaster recovery requirements are met.

What code should you add at line PC16?

To answer, drag the appropriate code fragments to the correct locations. Each code fragment 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:

**Values**

true	false
SingleTransferContext	DirectoryTransferContext
ShouldTransferCallbackAsync	ShouldOverwriteCallbackAsync

**Answer Area**

```
var copyOptions = new CopyOptions { };  
var context = new Value = (source, destination) => Task.FromResult(true);  
context. Value = (source, destination) => Task.FromResult(true);  
await TransferManager.CopyAsync(blob, GetDRBlob(blob), isServiceCopy: Value  
    , context: context, options:copyOptions);
```

Correct Answer:



**Values**

true	
SingleTransferContext	
	ShouldOverwriteCallbackAsync

**Answer Area**

```
var copyOptions = new CopyOptions { };  
var context = new DirectoryTransferContext = (source, destination) => Task.FromResult(true);  
context.ShouldTransferCallbackAsync = (source, destination) => Task.FromResult(true);  
await TransferManager.CopyAsync(blob, GetDRBlob(blob), isServiceCopy: false  
    , context: context, options:copyOptions);
```

Scenario: Disaster recovery. Regional outage must not impact application availability. All DR operations must not be dependent on application running and must ensure that data in the DR region is up to date.

Box 1: DirectoryTransferContext

We transfer all files in the directory.

Note: The TransferContext object comes in two forms: SingleTransferContext and DirectoryTransferContext. The former is for transferring a single file and the latter is for transferring a directory of files.

Box 2: ShouldTransferCallbackAsync

The DirectoryTransferContext.ShouldTransferCallbackAsync delegate callback is invoked to tell whether a transfer should be done.

Box 3: False

If you want to use the retry policy in Copy, and want the copy can be resume if break in the middle, you can use SyncCopy (isServiceCopy = false).

Note that if you choose to use service side copy ('isServiceCopy' set to true), Azure (currently) doesn't provide SLA for that. Setting 'isServiceCopy' to false will download the source blob loca

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-use-data-movement-library>

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.datamovement.directorytransfercontext.shouldtransfercallbackasync?view=azure-dotnet>

**QUESTION 4**



## DRAG DROP

You need to add code at line PC32 in Processing.cs to implement the GetCredentials method in the Processing class.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment 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:

### Code segments

MSITokenProvider(". . .", null)

tp.GetAccessTokenAsync(". . .")

AzureServiceTokenProvider()

StringTokenProvider("storage", "msi")

tp.GetAuthenticationHeaderAsync(CancellationToken.None)

### Answer Area

```
var tp = new code segment  
var t = new TokenCredential(await code segment );  
return new StorageCredentials(t);
```

Correct Answer:



**Code segments**

```
MSITokenProvider(" . . .", null)
```

```
StringTokenProvider("storage", "msi")
```

```
tp.GetAuthenticationHeaderAsync(CancellationToken.None)
```

**Answer Area**

```
var tp = new AzureServiceTokenProvider()  
var t = new TokenCredential(await tp.GetAccessTokenAsync(" . . .") );  
return new StorageCredentials(t);
```

Box 1: AzureServiceTokenProvider()

Box 2: tp.GetAccessTokenAsync(" . . .")

Acquiring an access token is then quite easy. Example code:

```
private async Task GetAccessTokenAsync()  
{  
    var tokenProvider = new AzureServiceTokenProvider();  
    return await tokenProvider.GetAccessTokenAsync("https://storage.azure.com/");  
}
```

Reference: <https://joonasw.net/view/azure-ad-authentication-with-azure-storage-and-managed-service-identity>

**QUESTION 5****DRAG DROP**

You are developing a software solution for an autonomous transportation system. The solution uses large data sets and Azure Batch processing to simulate navigation sets for entire fleets of vehicles.

You need to create compute nodes for the solution on Azure Batch.

What should you do?

Put the actions in the correct order.



Select and Place:

## Select these

In the Azure portal, add a Job

In the Azure portal, create a Batch account.

In the Azure portal, create tasks

In the Azure portal, create a pool of compute nodes

## Place here

Correct Answer:



## Select these

## Place here

In the Azure portal, create a Batch account.

In the Azure portal, create a pool of compute nodes

In the Azure portal, add a Job

In the Azure portal, create tasks

With the Azure Portal:

Step 1: In the Azure portal, create a Batch account.

First we create a batch account.

Step 2: In the Azure portal, create a pool of compute nodes



Now that you have a Batch account, create a sample pool of Windows compute nodes for test purposes.

Step 3: In the Azure portal, add a Job.

Now that you have a pool, create a job to run on it. A Batch job is a logical group for one or more tasks. A job includes settings common to the tasks, such as priority and the pool to run tasks on. Initially the job has no tasks.

Step 4: In the Azure portal, create tasks

Now create sample tasks to run in the job. Typically you create multiple tasks that Batch queues and distributes to run on the compute nodes.

References:

<https://docs.microsoft.com/en-us/azure/batch/quick-create-portal>

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