

- **Vendor: Microsoft**
- **Exam Code: AZ-204**
- **Exam Name: Developing Solutions for Microsoft Azure**
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QUESTION 136

Drag and Drop Question

You are preparing to deploy an application to an Azure Kubernetes Service (AKS) cluster. The application must only be available from within the VNet that includes the cluster.

You need to deploy the application.

How should you complete the deployment YAML? To answer, drag the appropriate YAML segments to the correct locations. Each YAML 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.

Code segments	Answer Area
Ingress	apiVersion: v1
Service	kind: Code segment
LoadBalancer	metadata:
Deployment	name: web-app
ingress.class	annotations:
azure-load-balancer-internal	service.beta.kubernetes. Code segment : "true"
	spec:
	type: Code segment
	ports:
	- port: 80
	selector:
	app: web-app

Answer:

Code segments	Answer Area
Ingress	apiVersion: v1
	kind: Service
	metadata:
	name: web-app
	annotations:
	service.beta.kubernetes. azure-load-balancer-internal : "true"
Deployment	spec:
ingress.class	type: LoadBalancer
	ports:
	- port: 80
	selector:
	app: web-app

Explanation:

To create an internal load balancer, create a service manifest named internal-lb.yaml with the service type LoadBalancer and the azure-load-balancer-internal annotation as shown in the following example:

YAML:

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```
apiVersion: v1
kind: Service
metadata:
name: internal-app
annotations:
service.beta.kubernetes.io/azure-load-balancer-internal: "true" spec:
type: LoadBalancer
ports:
port: 80
selector:
app: internal-app
References:
https://docs.microsoft.com/en-us/azure/aks/internal-lb
```

QUESTION 137

Hotspot Question

A company is developing a Node.js web app. The web app code is hosted in a GitHub repository located at <https://github.com/TailSpinToys/webapp>.

The web app must be reviewed before it is moved to production. You must deploy the initial code release to a deployment slot named review.

You need to create the web app and deploy the code.

How should you complete the commands? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
$gitrepo="https://github.com/TailSpinToys/webapp"
$webappname="TailSpinToysWeb"
$location="WestUS2"
```

▼ -Name myResourceGroup -Location \$location

- New-AzWebAppSlot
- New-AzWebApp
- New-AzAppServicePlan
- New-AzResourceGroup

▼ -Name \$webappname -Location \$location -ResourceGroupName myResourceGroup -Tier Standard

- New-AzWebAppSlot
- New-AzWebApp
- New-AzAppServicePlan
- New-AzResourceGroup

▼ -Name \$webappname -Location \$location -AppServicePlan \$webappname -ResourceGroupName myResourceGroup

- New-AzWebAppSlot
- New-AzWebApp
- New-AzAppServicePlan
- New-AzResourceGroup

▼ -Name \$webappname -ResourceGroupName myResourceGroup -Slot review

- New-AzWebAppSlot
- New-AzWebApp
- New-AzAppServicePlan
- New-AzResourceGroup

```
$PropertiesObject = @{repoUrl = "$gitrepo";branch = "master";}
Set-AzResource -PropertyObject $PropertiesObject -ResourceGroupName myResourceGroup -ResourceType
Microsoft.Web/sites/slots/sourcecontrols -ResourceName $webappname/review/web -ApiVersion 2015-08-01 -Force
Switch-AzWebAppSlot -Name $webappname -ResourceGroupName myResourceGroup `
-SourceSlotName review -DestinationSlotName production
```

Answer:

Answer Area

```
$gitrepo="https://github.com/TailSpinToys/webapp"
$webappname="TailSpinToysWeb"
$location="WestUS2"
```

▼ -Name myResourceGroup -Location \$location

- New-AzWebAppSlot
- New-AzWebApp
- New-AzAppServicePlan
- New-AzResourceGroup**

▼ -Name \$webappname -Location \$location -ResourceGroupName myResourceGroup -Tier Standard

- New-AzWebAppSlot
- New-AzWebApp
- New-AzAppServicePlan**
- New-AzResourceGroup

▼ -Name \$webappname -Location \$location -AppServicePlan \$webappname -ResourceGroupName myResourceGroup

- New-AzWebAppSlot
- New-AzWebApp**
- New-AzAppServicePlan
- New-AzResourceGroup

▼ -Name \$webappname -ResourceGroupName myResourceGroup -Slot review

- New-AzWebAppSlot**
- New-AzWebApp
- New-AzAppServicePlan
- New-AzResourceGroup

```
$PropertiesObject = @{repoUrl = "$gitrepo";branch = "master";}
Set-AzResource -PropertyObject $PropertiesObject -ResourceGroupName myResourceGroup -ResourceType
Microsoft.Web/sites/slots/sourcecontrols -ResourceName $webappname/review/web -ApiVersion 2015-08-01 -Force
Switch-AzWebAppSlot -Name $webappname -ResourceGroupName myResourceGroup `
-SourceSlotName review -DestinationSlotName production
```

Explanation:

- The New-AzResourceGroup cmdlet creates an Azure resource group.
- The New-AzAppServicePlan cmdlet creates an Azure App Service plan in a given location
- The New-AzWebApp cmdlet creates an Azure Web App in a given a resource group
- The New-AzWebAppSlot cmdlet creates an Azure Web App slot.

QUESTION 138

Hotspot Question

You are implementing a software as a service (SaaS) ASP.NET Core web service that will run as an Azure Web App. The web service will use an on-premises SQL Server database for storage. The web service also includes a WebJob that processes data updates. Four customers will use the web service.

- Each instance of the WebJob processes data for a single customer and must run as a singleton instance.
- Each deployment must be tested by using deployment slots prior to serving production data.
- Azure costs must be minimized.
- Azure resources must be located in an isolated network.

You need to configure the App Service plan for the Web App.

How should you configure the App Service plan? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

App service plan setting

Value

Number of VM instances

	▼
2	
4	
8	
16	

Pricing tier

	▼
Isolated	
Standard	
Premium	
Consumption	

Answer:

Answer Area

App service plan setting

Value

Number of VM instances

	▼
2	
4	
8	
16	

Pricing tier

	▼
Isolated	
Standard	
Premium	
Consumption	

Explanation:

Number of VM instances: 4

You are not charged extra for deployment slots.

Pricing tier: Isolated

The App Service Environment (ASE) is a powerful feature offering of the Azure App Service that gives network isolation

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and improved scale capabilities. It is essentially a deployment of the Azure App Service into a subnet of a customer's Azure Virtual Network (VNet).

References:

<https://azure.microsoft.com/sv-se/blog/announcing-app-service-isolated-more-power-scale-and-ease-of-use/>

QUESTION 139

Hotspot Question

You are building a website to access project data related to terms within your organization. The website does not allow anonymous access. Authentication performed using an Azure Active Directory (Azure AD) app named internal.

The website has the following authentication requirements:

- Azure AD users must be able to login to the website.
- Personalization of the website must be based on membership in Active Directory groups.

You need to configure the application's manifest to meet the authentication requirements.

How should you configure the manifest? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
{  
  ...  
  "appId": "d61126e3-089b-4adb-b721-  
d5023213df7d",  
   : "All",  
  "optionalClaims":  
    "groupMembershipClaims"  
    
   : true  
  "allowPublicClient"  
  "oauth2Permissions"  
  "requiredResourceAccess"  
  "oauth2AllowImplicitFlow"  
  ...  
}
```

Answer:

Answer Area

```
{  
  ...  
  "appId": "d61126e3-089b-4adb-b721-  
d5023213df7d",  
   : "All",  


"optionalClaims"



"groupMembershipClaims"

  
   : true  


"allowPublicClient"



"oauth2Permissions"



"requiredResourceAccess"



"oauth2AllowImplicitFlow"

  
  ...  
}
```

Explanation:

Box 1: groupMembershipClaims

Scenario: Personalization of the website must be based on membership in Active Directory groups.

Group claims can also be configured in the Optional Claims section of the Application Manifest. Enable group membership claims by changing the groupMembershipClaim

The valid values are:

"All"

"SecurityGroup"

"DistributionList"

"DirectoryRole"

Box 2: oauth2Permissions

Scenario: Azure AD users must be able to login to the website.

oauth2Permissions specifies the collection of OAuth 2.0 permission scopes that the web API (resource) app exposes to client apps. These permission scopes may be granted to client apps during consent.

Incorrect Answers:

oauth2AllowImplicitFlow. oauth2AllowImplicitFlow specifies whether this web app can request OAuth2.0 implicit flow access tokens. The default is false. This flag is used for browser-based apps, like Javascript single-page apps.

References:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-fed-group-claims>

QUESTION 140

Drag and Drop Question

You are developing an ASP.NET Core website that can be used to manage photographs which are stored in Azure

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Blob Storage containers.

Users of the website authenticate by using their Azure Active Directory (Azure AD) credentials.

You implement role-based access control (RBAC) role permission on the containers that store photographs. You assign users to RBAC role.

You need to configure the website's Azure AD Application so that user's permissions can be used with the Azure Blob containers.

How should you configure the application? To answer, drag the appropriate setting to the correct location. Each setting 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.

Settings		Answer Area	
client_id			
delegated			
profile			
application			
user_impersonation			

API	Permission	Type
Azure Storage	Setting	Setting
Microsoft Graph	User.Read	Setting

Answer:

Settings		Answer Area	
client_id			
delegated			
profile			
application			
user_impersonation			

API	Permission	Type
Azure Storage	user_impersonation	delegated
Microsoft Graph	User.Read	delegated

Explanation:

Box 1: user_impersonation

Box 2: delegated

Example:

1. Select the API permissions section
2. Click the Add a permission button and then:
Ensure that the My APIs tab is selected
3. In the list of APIs, select the API TodoListService-aspnetcore.
4. In the Delegated permissions section, ensure that the right permissions are checked:
user_impersonation.

5. Select the Add permissions button.

Box 3: delegated

Example

1. Select the API permissions section
2. Click the Add a permission button and then,
Ensure that the Microsoft APIs tab is selected
3. In the Commonly used Microsoft APIs section, click on Microsoft Graph

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4. In the Delegated permissions section, ensure that the right permissions are checked: User.Read. Use the search box if necessary.

5. Select the Add permissions button

References:

<https://docs.microsoft.com/en-us/samples/azure-samples/active-directory-dotnet-webapp-webapiopenidconnect-aspnetcore/calling-a-web-api-in-an-aspnet-core-web-application-using-azure-ad/>

QUESTION 141

Hotspot Question

You plan to deploy a web app to App Service on Linux. You create an App Service plan. You create and push a custom Docker image that contains the web app to Azure Container Registry.

You need to access the console logs generated from inside the container in real-time.

How should you complete the Azure CLI command? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

az webapp log

download
show
tail

az log

acr
aks

download
show
tail

Answer:

Answer Area

az webapp log

download
show
tail

az log

acr
aks

download
show
tail

Explanation:

Box 1: config

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To Configure logging for a web app use the command:

az webapp log config

Box 2: --docker-container-logging

Syntax include:

az webapp log config [--docker-container-logging {filesystem, off}]

Box 3: webapp

To download a web app's log history as a zip file use the command:

az webapp log download

Box 4: download

References:

<https://docs.microsoft.com/en-us/cli/azure/webapp/log>

QUESTION 142

A team has created an Index in the Azure Search service. You have to upload data into the Index. You propose the following steps to carry out from your .Net program

- Create a SearchServiceClient object to connect to the search index.
- Create a DataContainer that contains the documents which must be added.
- Create a DataSource instance and set its Container property to the DataContainer.
- Set the DataSource property of the SearchServiceClient

Does the list of steps fulfil the requirement?

A. Yes

B. No

Answer: B

Explanation:

<https://docs.microsoft.com/en-us/azure/search/search-what-is-azure-search#how-to-use-azure-search>

QUESTION 143

A team has created an Index in the Azure Search service. You have to upload data into the Index. You propose the following steps to carry out from your .Net program

- Create a SearchIndexClient object to connect to the search index
- Create an IndexBatch that contains the documents which must be added.
- Call the Documents.Index method of the SearchIndexClient and pass the IndexBatch.

Does the list of steps fulfil the requirement?

A. Yes

B. No

Answer: A

Explanation:

<https://docs.microsoft.com/en-us/azure/search/search-import-data-dotnet>

In order to push documents into your index using the .NET SDK, you will need to:

1. Create a `SearchIndexClient` object to connect to your search index.
2. Create an `IndexBatch` containing the documents to be added, modified, or deleted.
3. Call the `Documents.Index` method of your `SearchIndexClient` to send the `IndexBatch` to your search index.

QUESTION 144

A team has created an Index in the Azure Search service. You have to upload data into the Index. You propose the following steps to carry out from your .Net program

- Create a SearchIndexClient object to connect to the search index.
- Create a DataContainer that contains the documents which must be added.
- Create a DataSource instance and set its Container property to the DataContainer

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- Call the Documents.Search method of the SearchIndexClient and pass the DataSource.
Does the list of steps fulfil the requirement?

- A. Yes
- B. No

Answer: B

Explanation:

In order to push documents into your index using the .NET SDK, you will need to:

1. Create a `SearchIndexClient` object to connect to your search index.
2. Create an `IndexBatch` containing the documents to be added, modified, or deleted.
3. Call the `Documents.Index` method of your `SearchIndexClient` to send the `IndexBatch` to your search index.

<https://docs.microsoft.com/en-us/azure/search/search-import-data-dotnet>

QUESTION 145

A team is developing container-based applications that need to be deployed to a Kubernetes cluster in Azure. You have to create the cluster and ensure the services are running as desired. Which of the following commands would you execute? Choose 4 answers from the options given below

- A. `az aks create`
- B. `az group create`
- C. `kubectl apply`
- D. `az appservice plan create`
- E. `az aks get-credentials`

Answer: ABCE

Explanation:

<https://docs.microsoft.com/en-us/azure/aks/kubernetes-walkthrough>

QUESTION 146

A development team is developing an application. The application will be storing its data in Azure Table storage. Below are the fields that are going to be stored in the table

- Region
- Email address
- Phone number

The following snippet of code needs to be completed that would be used to insert a batch of records.

```
private static void InsertBatch()
{
    CloudStorageAccount whizlabs_storage = CloudStorageAccount.Parse(conn_string);
    CloudTableClient whizlabs_table_client = whizlabs_storage.CreateCloudTableClient();
    CloudTable whizlabs_table = whizlabs_table_client.GetTableReference("Customer");

    Slot1 whizlabs_batch = new Slot2

    Customer customer_obj1 = new Customer(4, "May");
    customer_obj1.Email = "May@whizlabs.com";

    Customer customer_obj2 = new Customer(4, "Carrie");
    customer_obj2.Email = "Carrie@whizlabs.com";

    whizlabs_batch.Insert(customer_obj1);
    whizlabs_batch.Insert(customer_obj2);

    whizlabs_table. Slot3 (whizlabs_batch);

    Console.WriteLine("Records Inserted");

    Console.ReadKey();
}
```

Which of the following will go into Slot1?

- A. TableOperation
- B. TableBatchOperation
- C. TableEntity
- D. TableQuery

Answer: B

Explanation:

<https://docs.microsoft.com/en-us/azure/cosmos-db/table-storage-how-to-use-dotnet>