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QUESTION 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are configuring a web app that delivers streaming video to users. The application makes use of continuous integration and deployment.

You need to ensure that the application is highly available and that the users\\' streaming experience is constant. You also want to configure the application to store data in a geographic location that is nearest to the user.

Solution: You include the use of an Azure Content Delivery Network (CDN) in your design.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

Reference: https://docs.microsoft.com/en-in/azure/cdn/

QUESTION 2

HOTSPOT

You create the following PowerShell script: For each of the following statements, select Yes if the statement is true. Otherwise, select No, NOTE: Each correct selection is worth one point.

```
$source = New-AzScheduledQueryRuleSource -Query 'Heartbeat | where TimeGenerated > ago(1h)' -DataSourceId "contoso"
$schedule = New-AzScheduledQueryRuleSchedule -FrequencyInMinutes 60 -TimeWindowInMinutes 60
$triggerCondition = New-AzScheduledQueryRuleTriggerCondition -ThresholdOperator "LessThan" -Threshold 5
$aznsActionGroup = New-AzScheduledQueryRuleAznsActionGroup -ActionGroup "contoso" -EmailSubject "Custom email subject"
  -CustomWebhookPayload "{ '"alert'":'"#alertrulename'", '"IncludeSearchResults'":true }"
$alertingAction = New-AzScheduledQueryRuleAlertingAction -AznsAction $aznsActionGroup -Severity "3" -Trigger $triggerCondition
New-AzScheduledQueryRule -ResourceGroupName "contoso" -Location "eastus" -Action $alertingAction -Enabled $true
  -Description "Alert description" -Schedule $schedule -Source $source -Name "Alert Name"
```

Hot Area:

Statements	Yes	No
A log alert is created that sends an email when the CPU percentage is above 60 percent for five minutes.	○	○
A log alert is created that sends an email when the number of virtual machine heartbeats in the past hour is less than five.	○	○
The log alert is scheduled to run every two hours.	○	○

Correct Answer:

Statements	Yes	No
A log alert is created that sends an email when the CPU percentage is above 60 percent for five minutes.	○	◉
A log alert is created that sends an email when the number of virtual machine heartbeats in the past hour is less than five.	◉	○
The log alert is scheduled to run every two hours.	○	◉

Box 1: No

The AzScheduledQueryRuleSource is Heartbeat, not CPU.

Box 2: Yes

The AzScheduledQueryRuleSource is Heartbeat!

Note: New-AzScheduledQueryRuleTriggerCondition creates an object of type Trigger Condition. This object is to be passed to the command that creates Alerting Action object.

Box 3: No

The schedule is 60 minutes, not two hours.

-FrequencyInMinutes: The alert frequency.

-TimeWindowInMinutes: The alert time window

The New-AzAscheduledQueryRuleSchedule command creates an object of type Schedule. This object is to be passed to the command that creates Log Alert Rule.

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QUESTION 3

You need to test the availability of the corporate website.

Which two test types can you use? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

A. Standard

B. URL ping

C. Custom testing using the TrackAvailability API method

D. Multi-step

Correct Answer: AC

Note: Corporate website, Implement monitoring by using Application Insights and availability web tests including SSL certificate validity and custom header value verification.

A: Standard tests are a single request test that is similar to the URL ping test but more advanced. In addition to validating whether an endpoint is responding and measuring the performance, Standard tests also includes SSL certificate

validity, proactive lifetime check, HTTP request verb (for example GET,HEAD,POST, etc.), custom headers, and custom data associated with your HTTP request.

C: You can create an Azure Function with TrackAvailability() that will run periodically according to the configuration given in TimerTrigger function with your own business logic. The results of this test will be sent to your Application Insights

resource, where you will be able to query for and alert on the availability results data. This allows you to create customized tests similar to what you can do via Availability Monitoring in the portal. Customized tests will allow you to write more

complex availability tests than is possible using the portal UI, monitor an app inside of your Azure VNET, change the endpoint address, or create an availability test even if this feature is not available in your region.

Incorrect:

*

 URL ping

The name URL ping test is a bit of a misnomer. These tests don\\'t use the Internet Control Message Protocol (ICMP) to check your site\\'s availability. Instead, they use more advanced HTTP request functionality to validate whether an endpoint

is responding. They measure the performance associated with that response. They also add the ability to set custom success criteria, coupled with more advanced features like parsing dependent requests and allowing for retries.

*

 Multi-step

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You can monitor a recorded sequence of URLs and interactions with a website via multi-step web tests.

Multi-step web tests depend on Visual Studio webtest files. It was announced that Visual Studio 2019 will be the last version with webtest functionality. It\\'s important to understand that while no new features will be added, webtest functionality

in Visual Studio 2019 is still currently supported and will continue to be supported during the support lifecycle of the product.

We recommend using the TrackAvailability to submit custom availability tests instead of Multi-step web tests. This is the long term supported solution for multi request or authentication test scenarios. With TrackAvailability() and custom availability tests, you can run tests on any compute you want and use C# to easily author new tests.

Reference: https://learn.microsoft.com/en-us/azure/azure-monitor/app/availability-standard-tests

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QUESTION 4

HOTSPOT

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

The website has the following authentication requirements:

1.

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

2.

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 configuration in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
{
    . . .
    "appId": "d61126e3-089b-4adb-b721-
d5023213df7d",
    [                    ▼ ] : "All",
    ┌──────────────────────────┐
    │ "optionalClaims"          │
    ├──────────────────────────┤
    │ "groupMembershipClaims"   │
    └──────────────────────────┘

    [                    ▼ ] : true
    ┌──────────────────────────┐
    │ "allowPublicClient"       │
    ├──────────────────────────┤
    │ "oauth2Permissions"       │
    ├──────────────────────────┤
    │ "requiredResourceAccess"  │
    ├──────────────────────────┤
    │ "oauth2AllowImplicitFlow" │
    └──────────────────────────┘

    . . .
}
```

Correct Answer:

Answer Area

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

                                    ▼  : true
    "allowPublicClient"
    "oauth2Permissions"
    "requiredResourceAccess"
    "oauth2AllowImplicitFlow"

    . . .
}
```

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.

Reference:

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

QUESTION 5

You are developing several microservices to deploy to a Azure Service cluster. The microservices manage data stored in Azure Cosmos DB and Azure Blob storage. The data is secured by using customer-managed keys stored in Aue Key

Vault.

You must automate key rotation for all Key Vault keys and allow for manual key rotation. Keys must rotate every three months. Notifications Of expiring keys must be sent before key expiry.

You need to configure key rotation and enable key expiry notifications.

Which two actions should you perform? Each correct answer presents part Of solution.

NOTE: Each correct selection is worth

A. Create and configure a new Azure Event Grid instance.

B. Create configure a key rotation policy during key creation

C. Create and assign an Azure Key Vault access

D. Configure Azure Key Vault

Correct Answer: AB

https://learn.microsoft.com/en-us/azure/key-vault/keys/how-to-configure-key-rotation

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