

➤ **Vendor:** Microsoft

➤ **Exam Code:** AZ-304

➤ **Exam Name:** Microsoft Azure Architect Design

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Design Monitoring

Question Set 1

QUESTION 1

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

What should you include in the recommendation?

- A. the Change Tracking management solution
- B. Application Insights
- C. Azure Monitor action groups
- D. Azure Activity Log

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Activity logs are kept for 90 days. You can query for any range of dates, as long as the starting date isn't more than 90 days in the past.

Through activity logs, you can determine:

- what operations were taken on the resources in your subscription
- who started the operation
- when the operation occurred
- the status of the operation
- the values of other properties that might help you research the operation

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/view-activity-logs>

QUESTION 2

You have an Azure subscription that contains an Azure SQL database named DB1.

Several queries that query the data in DB1 take a long time to execute.

You need to recommend a solution to identify the queries that take the longest to execute.

What should you include in the recommendation?

- A. SQL Database Advisor
- B. Azure Monitor
- C. Performance Recommendations
- D. Query Performance Insight

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Query Performance Insight provides intelligent query analysis for single and pooled databases. It helps identify the top resource consuming and long-running queries in your workload. This helps you find the queries to optimize to improve overall workload performance and efficiently use the resource that you are paying for.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/query-performance-insight-use>

QUESTION 3

HOTSPOT

You have an Azure App Service Web App that includes Azure Blob storage and an Azure SQL Database instance. The application is instrumented by using the Application Insights SDK.

You need to design a monitoring solution for the web app.

Which Azure monitoring services should you use? To answer, select the appropriate Azure monitoring services in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

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Answer Area

Scenario	Azure monitoring service
Correlate Azure resource usage and performance data with application configuration and performance data.	<div> <div></div> <div> Azure Application Insights Azure Service Map Azure Monitor Logs Azure Activity Log </div> </div>
Visualize the relationships between application components.	<div> <div></div> <div> Azure Application Insights Azure Service Map Azure Monitor Logs Azure Activity Log </div> </div>
Track requests and exceptions to a specific line of code within the application.	<div> <div></div> <div> Azure Application Insights Azure Service Map Azure Monitor Logs Azure Activity Log </div> </div>
Analyze how many users return to the application and how often they select a particular dropdown value.	<div> <div></div> <div> Azure Application Insights Azure Service Map Azure Monitor Logs Azure Activity Log </div> </div>

Correct Answer:

Answer Area

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Explanation

Explanation/Reference:
Explanation:

Note: You can select Logs from either the Azure Monitor menu or the Log Analytics workspaces menu. Reference:
<https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/log-query-overview>

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QUESTION 4

You have an on-premises Hyper-V cluster. The cluster contains Hyper-V hosts that run Windows Server 2016 Datacenter. The hosts are licensed under a Microsoft Enterprise Agreement that has Software Assurance.

The Hyper-V cluster contains 30 virtual machines that run Windows Server 2012 R2. Each virtual machine runs a different workload. The workloads have predictable consumption patterns.

You plan to replace the virtual machines with Azure virtual machines that run Windows Server 2016. The virtual machines will be sized according to the consumption pattern of each workload.

You need to recommend a solution to minimize the compute costs of the Azure virtual machines.

Which two recommendations should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Configure a spending limit in the Azure account center.
- B. Create a virtual machine scale set that uses autoscaling.
- C. Activate Azure Hybrid Benefit for the Azure virtual machines.
- D. Purchase Azure Reserved Virtual Machine Instances for the Azure virtual machines.
- E. Create a lab in Azure DevTest Labs and place the Azure virtual machines in the lab.

Correct Answer: CD

Explanation

Explanation/Reference:

Explanation:

C: For customers with Software Assurance, Azure Hybrid Benefit for Windows Server allows you to use your on-premises Windows Server licenses and run Windows virtual machines on Azure at a reduced cost. You can use Azure Hybrid Benefit for Windows Server to deploy new virtual machines with Windows OS.

D: With Azure Reserved VM Instances (RIs) you reserve virtual machines in advance and save up to 80 percent.

Reference:

<https://azure.microsoft.com/en-us/pricing/reserved-vm-instances/>

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/hybrid-use-benefit-licensing>

QUESTION 5

HOTSPOT

You have an Azure subscription that contains the SQL servers on Azure shown in the following table.

Name	Resource group	Location
SQLsvr1	RG1	East US
SQLsvr2	RG2	West US

The subscription contains the storage accounts shown in the following table.

Name	Resource group	Location	Account kind
storage1	RG1	East US	StorageV2 (general purpose v2)
storage2	RG2	West US	BlobStorage

You create the Azure SQL databases shown in the following table.

Name	Resource group	Server	Pricing tier
SQLdb1	RG1	SQLsvr1	Standard
SQLdb2	RG1	SQLsvr1	Standard
SQLdb3	RG2	SQLsvr2	Premium

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
When you enable auditing for SQLdb1, you can store the audit information to storage1.	<input type="radio"/>	<input type="radio"/>
When you enable auditing for SQLdb2, you can store the audit information to storage2.	<input type="radio"/>	<input type="radio"/>
When you enable auditing for SQLdb3, you can store the audit information to storage2.	<input type="radio"/>	<input type="radio"/>

Correct Answer:**Answer Area**

Statements	Yes	No
When you enable auditing for SQLdb1, you can store the audit information to storage1.	<input checked="" type="radio"/>	<input type="radio"/>
When you enable auditing for SQLdb2, you can store the audit information to storage2.	<input type="radio"/>	<input checked="" type="radio"/>
When you enable auditing for SQLdb3, you can store the audit information to storage2.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation**Explanation/Reference:**

Explanation:

Box 1: Yes

Be sure that the destination is in the same region as your database and

server. Box 2: No

Box 3: No

Reference:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing>**QUESTION 6**

A company has a hybrid ASP.NET Web API application that is based on a software as a service (SaaS) offering.

Users report general issues with the data. You advise the company to implement live monitoring and use ad hoc queries on stored JSON data. You also advise the company to set up smart alerting to detect anomalies in the data.

You need to recommend a solution to set up smart

alerting. What should you recommend?

- A. Azure Site Recovery and Azure Monitor Logs
- B. Azure Data Lake Analytics and Azure Monitor Logs
- C. Azure Application Insights and Azure Monitor Logs
- D. Azure Security Center and Azure Data Lake Store

Correct Answer: B**Explanation****Explanation/Reference:**

Explanation:

Application Insights, a feature of Azure Monitor, is an extensible Application Performance Management (APM) service for developers and DevOps professionals. Use it to monitor your live applications. It will automatically detect performance anomalies, and includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/app-insights-overview>**QUESTION 7**

You have an Azure subscription that is linked to an Azure Active Directory (Azure AD) tenant. The subscription contains 10 resource groups, one for each department at your company.

Each department has a specific spending limit for its Azure resources.

You need to ensure that when a department reaches its spending limit, the compute resources of the department shut down

automatically. 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 Logic Apps
- B. Azure Monitor alerts
- C. the spending limit of an Azure account
- D. Cost Management budgets

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E. Azure Log Analytics alerts

Correct Answer: CD

Explanation

Explanation/Reference:

Explanation:

C: The spending limit in Azure prevents spending over your credit amount. All new customers who sign up for an Azure free account or subscription types that include credits over multiple months have the spending limit turned on by default. The spending limit is equal to the amount of credit and it can't be changed.

D: Turn on the spending limit after removing

This feature is available only when the spending limit has been removed indefinitely for subscription types that include credits over multiple months. You can use this feature to turn on your spending limit automatically at the start of the next billing period.

1. Sign in to the Azure portal as the Account Administrator.
2. Search for Cost Management + Billing.
3. Etc.

Reference:

<https://docs.microsoft.com/en-us/azure/cost-management-billing/manage/spending-limit>

QUESTION 8

You plan to deploy an application named App1 that will run on five Azure virtual machines. Additional virtual machines will be deployed later to run

App1. You need to recommend a solution to meet the following requirements for the virtual machines that will run App1:

- Ensure that the virtual machines can authenticate to Azure Active Directory (Azure AD) to gain access to an Azure key vault, Azure Logic Apps instances, and an Azure SQL database.
- Avoid assigning new roles and permissions for Azure services when you deploy additional virtual machines.
- Avoid storing secrets and certificates on the virtual machines.

Which type of identity should you include in the recommendation?

- A. a service principal that is configured to use a certificate
- B. a system-assigned managed identity
- C. a service principal that is configured to use a client secret
- D. a user-assigned managed identity

Correct Answer: D

Explanation

Explanation/Reference:

Explanation:

Managed identities for Azure resources is a feature of Azure Active Directory.

User-assigned managed identity can be shared. The same user-assigned managed identity can be associated with more than one Azure resource.

Incorrect Answers:

B: System-assigned managed identity cannot be shared. It can only be associated with a single Azure resource.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

QUESTION 9

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. management groups
- B. subscriptions
- C. Azure Active Directory (Azure AD) tenants
- D. resource groups
- E. Azure Active Directory (Azure AD) administrative units
- F. compute resources

Correct Answer: ABD

Explanation

Explanation/Reference:

Explanation:

Azure Policy evaluates resources in Azure by comparing the properties of those resources to business rules. Once your business rules have been formed, the policy definition or initiative is assigned to any scope of resources that Azure supports, such as management groups, subscriptions, resource groups, or individual resources.

Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/overview>

QUESTION 10

HOTSPOT

Your company has the divisions shown in the following table.

Division	Azure subscription	Azure Active Directory (Azure AD) tenant
East	Sub1, Sub2	East.contoso.com
West	Sub3, Sub4	West.contoso.com

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You plan to deploy a custom application to each subscription. The application will contain the

- following: A resource group
- An Azure web app
- Custom role assignments
- An Azure Cosmos DB account

You need to use Azure Blueprints to deploy the application to each subscription.

What is the minimum number of objects required to deploy the application? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Management groups: ▼

1
2
3
4

Blueprint definitions: ▼

1
2
3
4

Blueprint assignments: ▼

1
2
3
4

Correct Answer:

Answer Area

Management groups: ▼

1
2
3
4

Blueprint definitions: ▼

1
2
3
4

Blueprint assignments: ▼

1
2
3
4

Explanation

Explanation/Referenc

e:
Explanation:

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Box 1: 2

One management group for East, and one for West.

When creating a blueprint definition, you'll define where the blueprint is saved. Blueprints can be saved to a management group or subscription that you have Contributor access to. If the location is a management group, the blueprint is available to assign to any child subscription of that management group.

Box 2: 1

One definition as the you plan to deploy a custom application to each subscription.

With Azure Blueprints, the relationship between the blueprint definition (what should be deployed) and the blueprint assignment (what was deployed) is

preserved. Box 3: 4

One assignment for each subscription.

Reference:

<https://docs.microsoft.com/en-us/azure/governance/blueprints/overview>

QUESTION 11

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

You plan to deploy Azure Cosmos DB databases that will use the SQL API.

You need to recommend a solution to provide specific Azure AD user accounts with read access to the Cosmos DB databases.

What should you include in the recommendation?

- A. shared access signatures (SAS) and conditional access policies
- B. certificates and Azure Key Vault
- C. a resource token and an Access control (IAM) role assignment
- D. master keys and Azure Information Protection policies

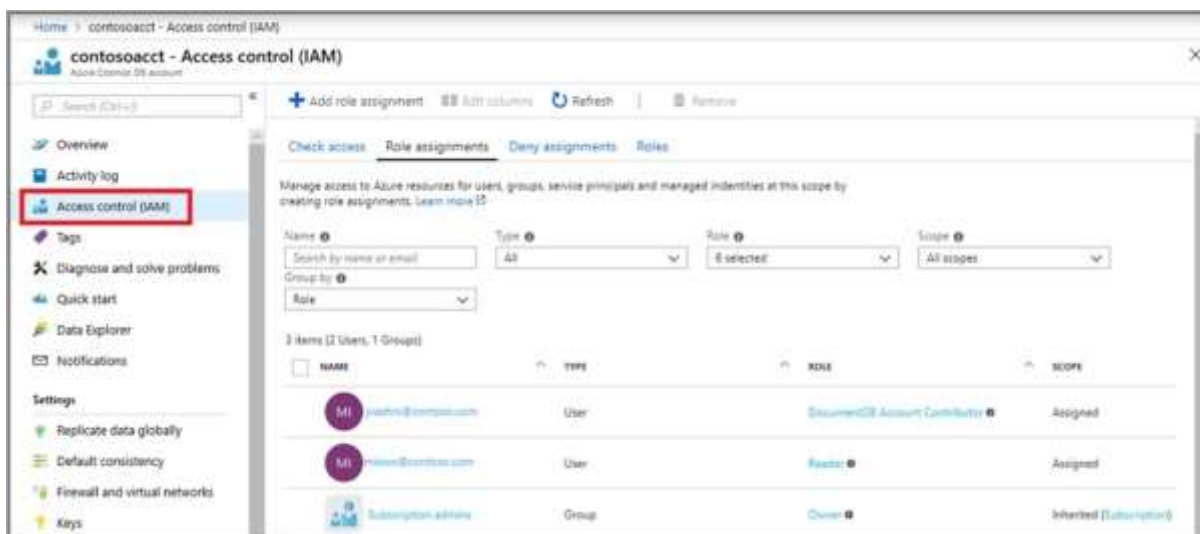
Correct Answer: C

Explanation

Explanation/Reference:

Explanation:

The Access control (IAM) pane in the Azure portal is used to configure role-based access control on Azure Cosmos resources. The roles are applied to users, groups, service principals, and managed identities in Active Directory. You can use built-in roles or custom roles for individuals and groups. The following screenshot shows Active Directory integration (RBAC) using access control (IAM) in the Azure portal:



Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/role-based-access-control>