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➢ **Vendor: Microsoft**

➢ **Exam Code: AZ-400**

➢ **Exam Name: Implementing and Operating Cisco Data Center Core Technologies (DCCOR)**

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QUESTION 199
SIMULATION
You need to create and configure an Azure Storage account named az400lod11566895stor in a resource group named RG1lod11566895 to store the boot diagnostics for a virtual machine named VM1.
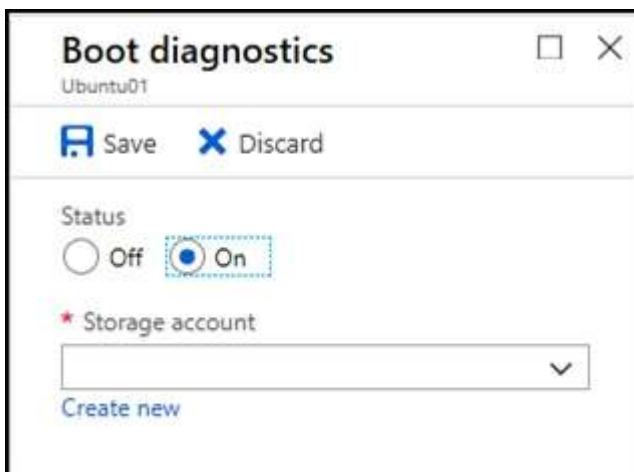To complete this task, sign in to the Microsoft Azure portal.
Answer:
Step 1: To create a general-purpose v2 storage account in the Azure portal, follow these steps:
1. On the Azure portal menu, select All services. In the list of resources, type Storage Accounts. As you begin typing, the list filters based on your input. Select Storage Accounts.
2. On the Storage Accounts window that appears, choose Add.
3. Select the subscription in which to create the storage account.
4. Under the Resource group field, select RG1lod11566895
5. Next, enter a name for your storage account named: az400lod11566895stor
6. Select Create.
Step 2: Enable boot diagnostics on existing virtual machine
To enable Boot diagnostics on an existing virtual machine, follow these steps:
1. Sign in to the Azure portal, and then select the virtual machine VM1.
2. In the Support + troubleshooting section, select Boot diagnostics, then select the Settings tab.
3. In Boot diagnostics settings, change the status to On, and from the Storage account drop-down list, select the storage account az400lod11566895stor.
4. Save the change.

You must restart the virtual machine for the change to take effect.
Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-account-create
https://docs.microsoft.com/en-us/azure/virtual-machines/troubleshooting/boot-diagnostics

QUESTION 200
SIMULATION
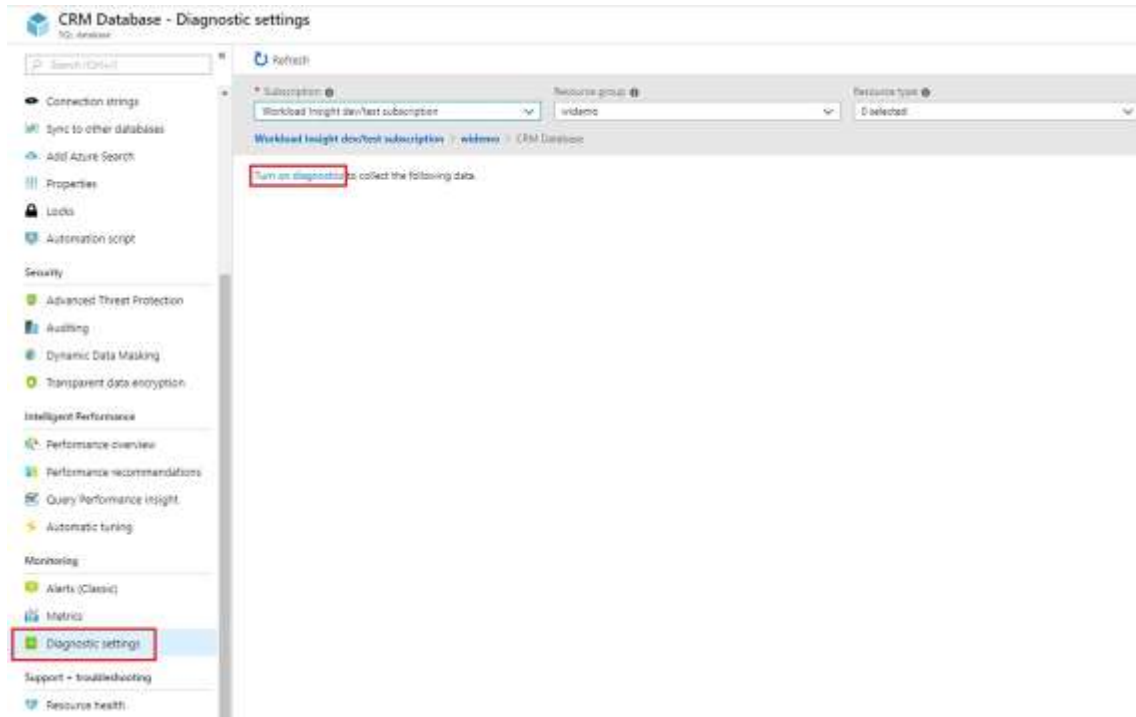You have a web app that connects to an Azure SQL Database named db1.
You need to configure db1 to send Query Store runtime statistics to Azure Log Analytics.
To complete this task, sign in to the Microsoft Azure portal.
Answer:
To enable streaming of diagnostic telemetry for a single or a pooled database, follow these steps:
1. Go to Azure SQL database resource.
2. Select Diagnostics settings.
3. Select Turn on diagnostics if no previous settings exist, or select Edit setting to edit a previous setting. You can create up to three parallel connections to stream diagnostic telemetry.
4. Select Add diagnostic setting to configure parallel streaming of diagnostics data to multiple resources.

5. Enter a setting name for your own reference.
6. Select a destination resource for the streaming diagnostics data: Archive to storage account, Stream to an event hub, or Send to Log Analytics.

7. For the standard, event-based monitoring experience, select the following check boxes for database diagnostics log telemetry: QueryStoreRuntimeStatistics

Diagnostics settings ✕

💾 Save   ✕ Discard   🗑 Delete

* Name

service ✓

☐ Archive to a storage account

☐ Stream to an event hub

☑ Send to Log Analytics

Subscription

Workload Insight dev/test subscription ⌄

Log Analytics Workspace

sqlanalytics356 (westcentralus) ⌄

LOG

☑ SQLInsights

☑ AutomaticTuning

☑ QueryStoreRuntimeStatistics

☑ QueryStoreWaitStatistics

☑ Errors

☑ DatabaseWaitStatistics

☑ Timeouts

☑ Blocks

☑ Deadlocks

METRIC

☑ Basic

8. For an advanced, one-minute-based monitoring experience, select the check box for Basic metrics.
9. Select Save.
Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/database/metrics-diagnostic-telemetry-logging-streaming-export-configure

QUESTION 201

Hotspot Question

Your company uses Git as a source code control system for a complex app named App1.

You plan to add a new functionality to App1.

You need to design a branching model for the new functionality.

Which branch lifetime and branch time should you use in the branching model? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Branch lifetime:
- Long-lived
- Short-lived

Branch type:
- Master
- Feature
- Integration

Answer:

Answer Area

Branch lifetime:
- Long-lived
- **Short-lived**

Branch type:
- Master
- **Feature**
- Integration

Explanation:

Branch lifetime: Short-lived

Branch type: Feature

Feature branches are used when developing a new feature or enhancement which has the potential of a development lifespan longer than a single deployment. When starting development, the deployment in which this feature will be released may not be known. No matter when the feature branch will be finished, it will always be merged back into the master branch.
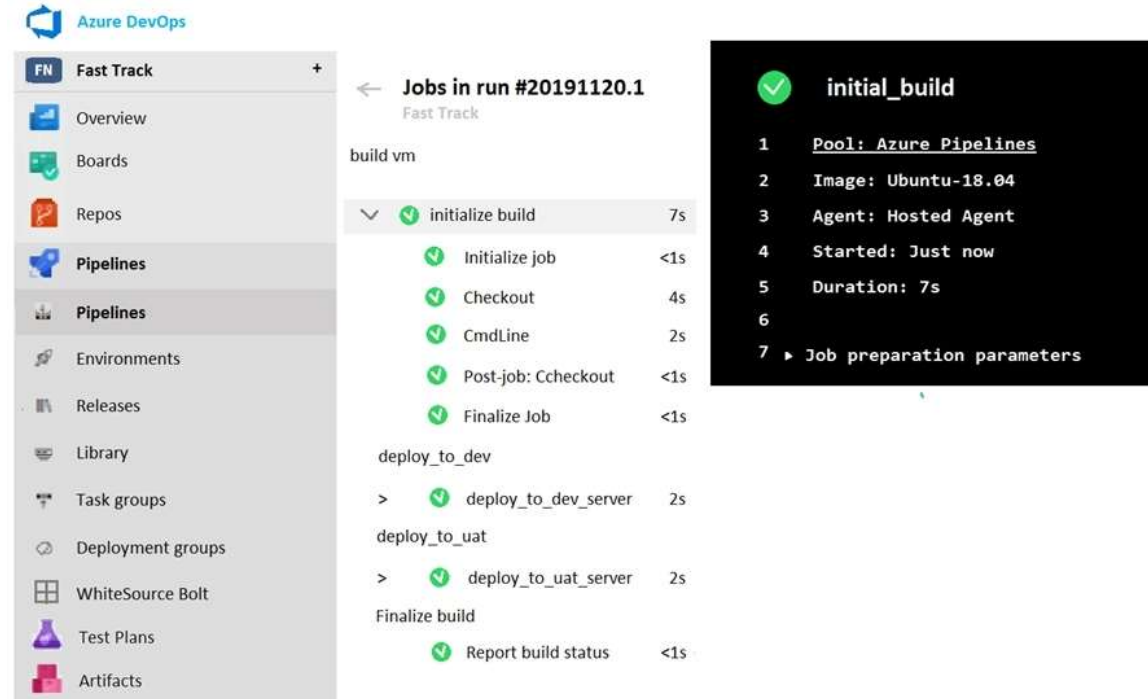
References:

https://gist.github.com/digitaljhelms/4287848

QUESTION 202

Hotspot Question

You company uses Azure DevOps to deploy infrastructures to Azure.

Pipelines are developed by using YAML.

You execute a pipeline and receive the results in the web portal for Azure Pipelines as shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Answer Area

The pipeline contains ▼
- one stage
- two stages
- three stages
- four stages
- five stages

Build_vm contains ▼
- one job
- two jobs
- three jobs
- four jobs
- five jobs

Answer:

Answer Area

The pipeline contains [▼]

one stage
two stages
three stages
four stages
five stages

Build_vm contains [▼]

one job
two jobs
three jobs
four jobs
five jobs

Explanation:
https://dev.to/rajikaimal/azure-devops-ci-cd-yaml-pipeline-4glj

QUESTION 203
Drag and Drop Question
Your company has an Azure subscription named Subscription1. Subscription1 is associated to an Azure Active
Directory tenant named contoso.com.
You need to provision an Azure Kubernetes Services (AKS) cluster in Subscription1 and set the permissions for the
cluster by using RBAC roles that reference the identities in contoso.com.
Which three objects should you create in sequence? To answer, move the appropriate objects from the list of objects to
the answer area and arrange them in the correct order.

Answer Area

Objects
a system-assigned managed identity
a cluster
an application registration in contoso.com
an RBAC binding

Answer:

Answer Area

Objects

| a cluster |

| a system-assigned managed identity |

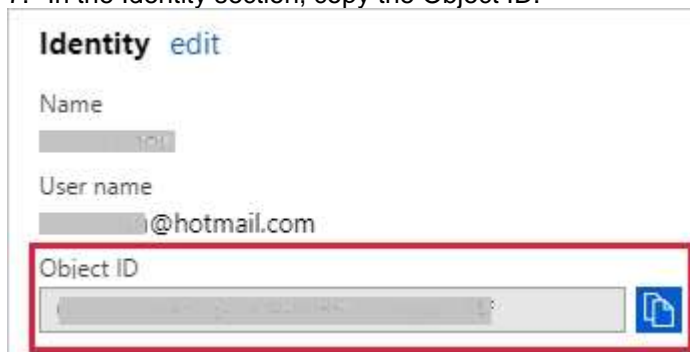| an application registration in contoso.com |

| an RBAC binding |

Explanation:
Step 1: Create an AKS cluster
Step 2: a system-assigned managed identity
To create an RBAC binding, you first need to get the Azure AD Object ID.
1. Sign in to the Azure portal.
2. In the search field at the top of the page, enter Azure Active Directory.
3. Click Enter.
4. In the Manage menu, select Users.
5. In the name field, search for your account.
6. In the Name column, select the link to your account.
7. In the Identity section, copy the Object ID.

Identity edit

Name

User name

@hotmail.com

Object ID

Step 3: a RBAC binding
Reference:
https://docs.microsoft.com/en-us/azure/developer/ansible/aks-configure-rbac

QUESTION 204
Hotspot Question
You manage build and release pipelines by using Azure DevOps. Your entire managed environment resides in Azure.
You need to configure a service endpoint for accessing Azure Key Vault secrets. The solution must meet the following requirements:
- Ensure that the secrets are retrieved by Azure DevOps.
- Avoid persisting credentials and tokens in Azure DevOps.
How should you configure the service endpoint? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

Service connection type:	▼
	Azure Resource Manager
	Generic service
	Team Foundation Server / Azure Pipelines service connection

Authentication/authorization method for the connection:	▼
	Azure Active Directory OAuth 2.0
	Grant authorization
	Managed Service Identity Authentication

Answer:

Answer Area

Service connection type:	▼
	Azure Resource Manager
	Generic service
	Team Foundation Server / Azure Pipelines service connection

Authentication/authorization method for the connection:	▼
	Azure Active Directory OAuth 2.0
	Grant authorization
	Managed Service Identity Authentication

Explanation:
Box 1: Azure Pipelines service connection
Box 2: Managed Service Identity Authentication
The managed identities for Azure resources feature in Azure Active Directory (Azure AD) provides Azure services with an automatically managed identity in Azure AD. You can use the identity to authenticate to any service that supports Azure AD authentication, including Key Vault, without any credentials in your code.
Reference:
https://docs.microsoft.com/en-us/azure/devops/pipelines/tasks/deploy/azure-key-vault
https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview

QUESTION 205
Drag and Drop Question
You are creating a container for an ASP.NET Core app.
You need to create a Dockerfile file to build the image. The solution must ensure that the size of the image is minimized.
How should you configure the file? To answer, drag the appropriate values to the correct targets. Each value must 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.

Answer Area

Values

dotnet publish -c Release -o out
dotnet restore
microsoft/dotnet:2.2-aspnetcore-runtime
Microsoft/dotnet:2.2-sdk

FROM [   ] As build-env
COPY . /app/
WORKDIR /app
RUN [   ]
FROM [   ]
COPY --from=build-env /app/out /app
WORKDIR /app
ENTRYPOINT ["dotnet", " MvcMovie.dll"]

Answer:

Answer Area

Values
dotnet publish -c Release -o out

```
FROM    Microsoft/dotnet:2.2-sdk                        As build-env

COPY  . /app/

WORKDIR /app

RUN     dotnet restore

FROM    microsoft/dotnet:2.2-aspnetcore-runtime

COPY --from=build-env /app/out /app

WORKDIR /app

ENTRYPOINT ["dotnet", " MvcMovie.dll"]
```

Explanation:
Box 1: microsoft.com/dotnet/sdk:2.3
The first group of lines declares from which base image we will use to build our container on top of. If the local system does not have this image already, then docker will automatically try and fetch it. The mcr.microsoft.com/dotnet/core/sdk:2.1 comes packaged with the .NET core 2.1 SDK installed, so it's up to the task of building ASP .NET core projects targeting version 2.1
Box 2: dotnet restore
The next instruction changes the working directory in our container to be /app, so all commands following this one execute under this context.
COPY *.csproj ./
RUN dotnet restore
Box 3: microsoft.com/dotnet/2.2-aspnetcore-runtime
When building container images, it's good practice to include only the production payload and its dependencies in the container image. We don't want the .NET core SDK included in our final image because we only need the .NET core runtime, so the dockerfile is written to use a temporary container that is packaged with the SDK called build-env to build the app.
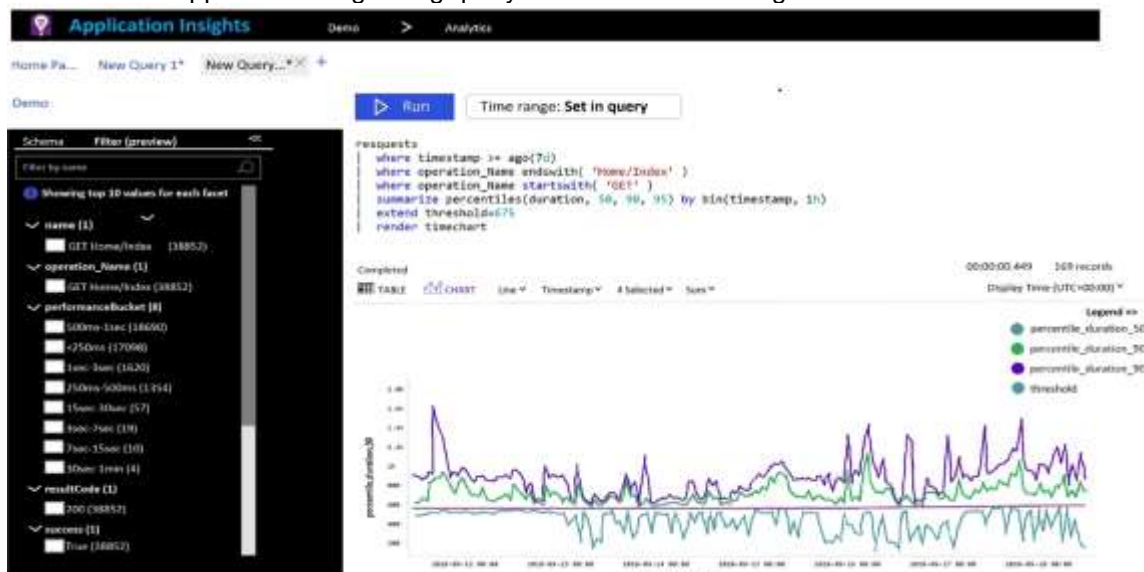Reference:
https://docs.microsoft.com/de-DE/virtualization/windowscontainers/quick-start/building-sample-app

QUESTION 206
Hotspot Question
You plan to create alerts that will be triggered based on the page load performance of a home page.
You have the Application Insights log query shown in the following exhibit.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.
NOTE: Each correct selection is worth one point.

Answer Area

To create an alert based on the page load experience of most users, the alerting level must be based on [answer choice].

	▼
percentile_duration_50	
percentile_duration_90	
percentile_duration_95	
threshold	

To only create an alert when authentication error occurs on the server, the query must be filtered on [answer choice].

	▼
item Type	
resultCode	
source	
success	

Answer:

Answer Area

To create an alert based on the page load experience of most users, the alerting level must be based on [answer choice].

	▼
percentile_duration_50	
percentile_duration_90	
percentile_duration_95	
threshold	

To only create an alert when authentication error occurs on the server, the query must be filtered on [answer choice].

	▼
item Type	
resultCode	
source	
success	

Explanation:
Box 1: percentile_duration_95
Box 2: success
For example –
requests
| project name, url, success
| where success == "False"
This will return all the failed requests in my App Insights within the specified time range.
Reference:
https://devblogs.microsoft.com/premier-developer/alerts-based-on-analytics-query-using-custom-log-search/

QUESTION 207
Drag and Drop Question
You are configuring the settings of a new Git repository in Azure Repos.
You need to ensure that pull requests in a branch meet the following criteria before they are merged:
- Committed code must compile successfully.
- Pull requests must have a Quality Gate status of Passed in SonarCloud.
Which policy type should you configure for each requirement? To answer, drag the appropriate policy types to the correct requirements. Each policy type 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.

Answer Area

Policy Types

A build policy

A check-in policy

A status policy

Committed code must compile successfully:

Pull requests must have a Quality Gate status of Passed in SonarCloud:

Answer:

Answer Area

Policy Types

Committed code must compile successfully: | A check-in policy |

Pull requests must have a Quality Gate status of Passed in SonarCloud: | A build policy |

A status policy

Explanation:
Box 1: A check-in policy
Administrators of Team Foundation version control can add check-in policy requirements. These check-in policies require the user to take actions when they conduct a check-in to source control. By default, the following check-in policy types are available:
Builds Requires that the last build was successful before a check-in.
Code Analysis Requires that code analysis is run before check-in.
Work Items Requires that one or more work items be associated with the check-in.
Box 2: Build policy
Reference:
https://docs.microsoft.com/en-us/azure/devops/repos/tfvc/add-check-policies
https://azuredevopslabs.com/labs/vstsextend/sonarcloud/