AZ-400^{Q&As}

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Designing and Implementing Microsoft DevOps Solutions

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QUESTION 1

DRAG DROP

You have an Azure subscription that uses Azure Monitor and contains a Log Analytics workspace.

You have an encryption key.

You need to configure Azure Monitor to use the key to encrypt log data.

Which five actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:

Actions

Install a package.

Answer Area

Configure a self-hosted agent.

Create a new Azure Artifacts feed.

Publish a package.

Connect to an Azure Artifacts feed.

Correct Answer:

Components

A deployment group

A management group

A resource group

Application roles

Answer Area

Ten virtual machines hosted in Azure: [   ]

Ten virtual machines hosted in
an on-premises data center environment: [   ]

QUESTION 2

You have an Azure pipeline that is used to build and deploy an app named App1. The build job uses a Microsoft-hosted Windows agent.

The build job for App1 intermittently returns a timeout error.

You need to ensure that the build job completes successfully. The solution must minimize administrative effort.

What should you do?

A. Change the configuration of the build agent.

B. Deploy a self-hosted agent.

C. Change to a Microsoft-hosted Linux agent.

D. Purchase more parallel jobs.

Correct Answer: B

Job time-out A pipeline can run for a long time and then fail due to job time-out. Job timeout closely depends on the agent being used. Free Microsoft hosted agents have a max timeout of 60 minutes per job for a private repository and 360 minutes for a public repository. To increase the max timeout for a job, you can opt for any of the following.

Buy a Microsoft hosted agent which will give you 360 minutes for all jobs, irrespective of the repository used *-> Use a self-hosted agent to rule out any timeout issues due to the agent

Reference: https://learn.microsoft.com/en-us/azure/devops/pipelines/troubleshooting/troubleshooting

QUESTION 3

You have an existing project in Azure DevOps.

You plan to integrate GitHub as the repository for the project You need to ensure that Azure Pipelines runs under the Azure Pipelines identity Which authentication mechanism should you use?

A. GitHubApp

B. OAuth

C. personal access token (PAT)

D. Azure Active Directory (Azure AD)

Correct Answer: A

GitHub App uses the Azure Pipelines identity.

Reference: https://docs.microsoft.com/en-us/azure/devops/pipelines/repos/github

QUESTION 4

You have a free tier of an Azure DevOps organization named Contoso. Contoso contains 10 private projects. Each project has multiple jobs with no dependencies.

You frequently run the jobs on five self-hosted agents but experience long build times and frequently queued builds.

You need to minimize the number of queued builds and the time it takes to run the builds.

What should you do?

A. Purchase self-hosted parallel jobs.

B. Register additional self-hosted agents.

C. Purchase Microsoft-hosted parallel jobs.

D. Configure the pipelines to use the Microsoft-hosted agents.

Correct Answer: C

When the free tier is no longer sufficient, you can pay for additional capacity per parallel job.

Note: Microsoft-hosted CI/CD

If you want to run your jobs on machines that Microsoft manages, use Microsoft-hosted parallel jobs. Your jobs run on our pool of Microsoft-hosted agents.

We provide a free tier of service by default in every organization.

Reference:

https://docs.microsoft.com/en-us/azure/devops/pipelines/licensing/concurrent-jobs

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QUESTION 5

You have a project in Azure DevOps named Project1. Project1 contains a pipeline that builds a container image named Image1 and pushes Image1 to an Azure container registry named ACR1. Image1 uses a base image stored in Docker

Hub.

You need to ensure that Image1 is updated automatically whenever the base image is updated.

What should you do?

A. Enable the Azure Event Grid resource provider and subscribe to registry events.

B. Add a Docker Hub service connection to Azure Pipelines.

C. Create and run an Azure Container Registry task.

D. Create a service hook in Project1.

Correct Answer: C

ACR Tasks supports automated container image builds when a container\\'s base image is updated, such as when you patch the OS or application framework in one of your base images.

Reference: https://docs.microsoft.com/en-us/azure/container-registry/container-registry-tutorial-base-image-update

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