AZ-400^{Q&As}

Designing and Implementing Microsoft DevOps Solutions

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QUESTION 1

You have an Azure subscription linked to an Azure Active Directory Premium Plan 1 tenant.

A security review indicates that too many users have privileged access to resources.

You need to deploy a privileged access management solution that meets the following requirements:

Enforces time limits on the use of privileged access Requires approval to activate privileged access Minimizes costs

What should you do first?

A. Configure notifications when privileged roles are activated.

B. Configure alerts for the activation of privileged roles.

C. Enforce Azure Multi-Factor Authentication (MFA) for role activation.

D. Upgrade the license of the Azure Active Directory (Azure AD) tenant.

Correct Answer: D

Explanation:

Privileged Identity Management (PIM) is a service in Azure Active Directory (Azure AD) that enables you to manage, control, and monitor access to important resources in your organization. These resources include resources in Azure AD,

Azure, and other Microsoft Online Services such as Microsoft 365 or Microsoft Intune.

Using this feature requires an Azure AD Premium P2 license.

Reference:

https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-configure

QUESTION 2

DRAG DROP

You have an Azure subscription that contains a project in Azure DevOps named Project1. You have three Azure Active Directory (Azure AD) users that require access to Project1 as shown in the following table.

Name	Title	Requirement
User1	Project Manager	View repositories.
User2	Development Lead	Create repositories and manage permissions.
User3	Developer	Create branches and tags.

You need to ensure that the users have the appropriate permissions. The solution must use the principle of least privilege.

To which permission group in Azure DevOps should you add each user? To answer, drag the appropriate permission groups to the correct users. Each permission group 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.

Select and Place:

Permission Groups

Build Administrators

Contributors

Project Administrators

Readers

Answer Area

User1:

User2:

User3:

Correct Answer:

Permission Groups

Build Administrators

Answer Area

User1:   Readers

User2:   Project Administrators

User3:   Contributors

QUESTION 3

You have a project in Azure DevOps named Project1.

You implement a Continuous Integration/Continuous Deployment (CI/CD) pipeline that uses PowerShell Desired State Configuration (DSC) to configure the application infrastructure.

You need to perform a unit test and an integration test of the configuration before Project1 is deployed.

What should you use?

A. the PSScriptAnalyzer tool

B. the Pester test framework

C. the PSCodeHealth module

D. the Test-DscConfiguration cmdlet

Correct Answer: B

Explanation:

Pester is a testing and mocking framework for PowerShell.

Pester provides a framework for writing and running tests. Pester is most commonly used for writing unit and integration tests, but it is not limited to just that. It is also a base for tools that validate whole environments, computer deployments,

database configurations and so on.

Example: Building a Continuous Integration and Continuous Deployment pipeline with DSC

This example demonstrates how to build a Continuous Integration/Continuous Deployment (CI/CD) pipeline by using PowerShell, DSC, and Pester.

IntegrationTests: Runs the Pester integration tests.

UnitTests: Runs the Pester unit tests.

Incorrect:

* PSScriptAnalyzer PSScriptAnalyzer is a static code checker for PowerShell modules and scripts. PSScriptAnalyzer checks the quality of PowerShell code by running a set of rules. The rules are based on PowerShell best practices identified by PowerShell Team and the community. It generates DiagnosticResults (errors and warnings) to inform users about potential code defects and suggests possible solutions for improvements.

PSScriptAnalyzer ships with a collection of built-in rules that check various aspects of PowerShell code such as:

The presence of uninitialized variables Use of PSCredential type Use of Invoke-Expression And many more

Reference: https://pester.dev/docs/quick-start/#what-is-pester https://learn.microsoft.com/en-us/azure/devops/pipelines/release/dsc-cicd https://github.com/PowerShell/PSScriptAnalyzer

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QUESTION 4

DRAG DROP

You have a GitHub repository that contains the source code for an app named App1.

You need to create process documentation for App1. The solution must include a diagram that displays the relationships between the phases of App1 as shown in the following exhibit.
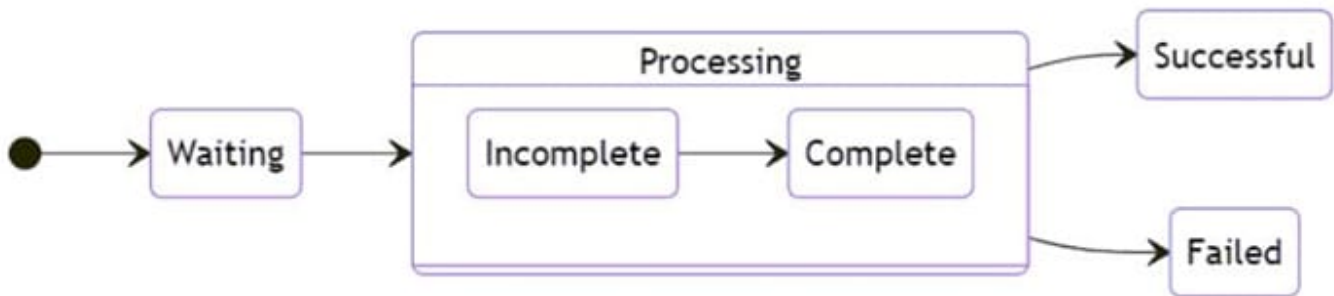
How should you complete the markdown code? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Values

- Failed
- flowChart
- Incomplete
- Processing
- sequenceDiagram
- stateDiagram
- Waiting

Answer Area

```mermaid
[          ]
   direction LR
   [*] --> Waiting
   Waiting --> Processing
   Processing --> Successful
   state [          ] {
       direction LR
       Incomplete --> Complete
   }
   Processing --> Failed
```

Correct Answer:

Values

Failed

flowChart

Incomplete

[ ]

sequenceDiagram

[ ]

Waiting

Answer Area

```mermaid
stateDiagram

    direction LR

    [*] --> Waiting

    Waiting --> Processing

    Processing --> Successful

    state       Processing                     {

        direction LR

        Incomplete --> Complete

    }

    Processing --> Failed

```

QUESTION 5

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

The lead developer at your company reports that adding new application features takes longer than expected due to a large accumulated technical debt.

You need to recommend changes to reduce the accumulated technical debt.

Solution: You recommend increasing the test coverage.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead reduce the code complexity.

Reference: https://dzone.com/articles/fight-through-the-pain-how-to-deal-with-technical

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