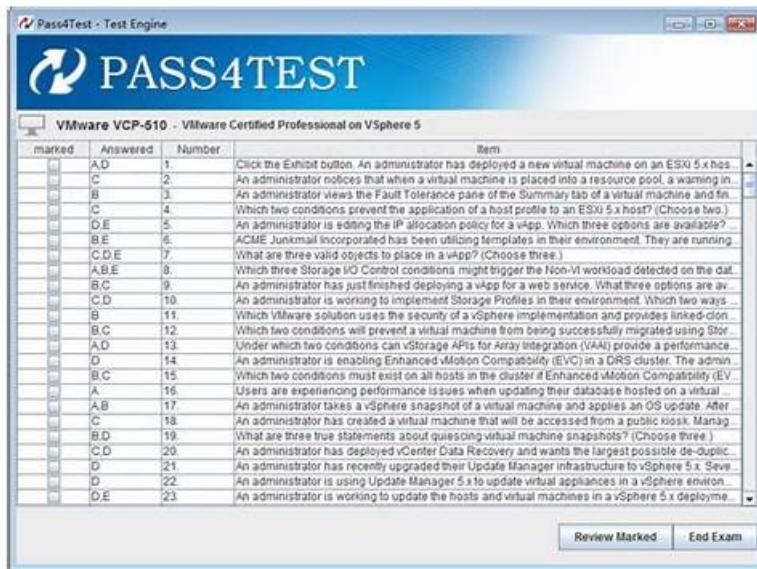


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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Manage GitHub Actions in the Enterprise: This section measures the expertise of Enterprise Administrators and Platform Engineers in distributing and managing GitHub Actions and workflows at the organizational level. It includes reuse and sharing of templates, strategies for managing reusable components via repositories and naming conventions, controlling access to actions, setting organization-wide usage policies, and planning maintenance to ensure efficient enterprise-wide deployment of GitHub Actions.

Topic 2	<ul style="list-style-type: none"> Author and Maintain Actions: This domain evaluates the abilities of Action Developers and Automation Engineers to select and create suitable types of GitHub Actions, such as JavaScript, Docker containers, or run steps. It emphasizes troubleshooting action code, understanding the components and file structures of actions, and using workflow commands within actions to communicate with runners, including exit code management.
Topic 3	<ul style="list-style-type: none"> Author and Maintain Workflows: This section of the exam measures skills of DevOps Engineers and Automation Specialists and covers building and managing workflows triggered by events such as pushes, scheduled times, manual triggers, and webhooks. It includes understanding workflow components like jobs, steps, actions, and runners, syntax correctness, environment variables, secrets management, and dependencies between jobs. Candidates will also demonstrate practical abilities to create workflows for various purposes, including publishing packages, using service containers, routing jobs, and deploying releases to cloud providers.
Topic 4	<ul style="list-style-type: none"> Consume Workflows: This domain targets Software Developers and Quality Assurance Engineers and focuses on interpreting workflow runs and their outcomes. It covers identifying triggering events, reading workflow configurations, troubleshooting failures by analyzing logs, enabling debug logging, managing environment variables, caching dependencies, and passing data between jobs. Candidates also manage workflow runs, artifacts, approvals, and status badges, as well as locating workflows within repositories and leveraging organizational templated workflows.

Microsoft GitHub Actions Sample Questions (Q76-Q81):

NEW QUESTION # 76

Which command can you include in your workflow file to set the output parameter for an action?

- A. echo "action_color=purple">>> \$GITHUB_OUTPUT
- B. echo "::add-mask::\$ACTION_COLOR"
- C. echo "::debug:action_color=purple"
- D. echo "action_color=purple">>> \$GITHUB_ENV

Answer: A

Explanation:

Setting an output parameter

Sets a step's output parameter. Note that the step will need an id to be defined to later retrieve the output value. You can set multi-line output values with the same technique used in the Multiline strings section to define multi-line environment variables.

echo "{name}={value}">> "\$GITHUB_OUTPUT"

Example of setting an output parameter

This example demonstrates how to set the SELECTED_COLOR output parameter and later retrieve it:

```
- name: Set color
id: color-selector
run: echo "SELECTED_COLOR=green">> "$GITHUB_OUTPUT"
- name: Get color
env:
  SELECTED_COLOR: ${{ steps.color-selector.outputs.SELECTED_COLOR }}
run: echo "The selected color is $SELECTED_COLOR"
```

Reference:

<https://docs.github.com/en/actions/reference/workflows-and-actions/workflow-commands>

NEW QUESTION # 77

Which configuration lines correctly set the workflow name in a GitHub Actions workflow file?

(Choose 2)

- A. run-name: release-flow-42
- B. name: \${'release-flow-42'}
- C. name: release-flow-42

- D. name: \${{ "release-flow-42" }}

Answer: B,C

Explanation:

The correct options are name: release-flow-42 and name: \${{ 'release-flow-42' }}. Both set the workflow name that appears in the Actions interface and on the workflow page.

The plain static name key with a simple string sets the workflow name clearly and predictably. It is the most straightforward way to define the workflow title.

The expression form with a single quoted string evaluates to the same literal value. GitHub Actions accepts a string result for the workflow name, so this produces a valid name while keeping consistency with other places where expressions are used.

NEW QUESTION # 78

Which statement is true about using default environment variables?

- A. The environment variables can be set in the defaults: sections of the workflow
- **B. The GITHUB_WORKSPACE environment variable should be used to access files from within the runner.**
- C. The environment variables can be read in workflows using the ENV: variable_name syntax.
- D. The environment variables created should be prefixed with GITHUB_ to ensure they can be accessed in workflows

Answer: B

Explanation:

GITHUB_WORKSPACE is a default environment variable in GitHub Actions that points to the directory on the runner where your repository is checked out. This variable allows you to access files within your repository during the workflow.

NEW QUESTION # 79

Which choices represent best practices for publishing actions so that they can be consumed reliably? (Each correct answer presents a complete solution. Choose two.)

- A. repo name
- **B. commit SHA**
- C. default branch
- D. organization name
- **E. tag**

Answer: B,E

Explanation:

Security practices for writing workflows and using GitHub Actions features.

You can help mitigate this risk by following these good practices:

[B] Pin actions to a full-length commit SHA

Pinning an action to a full-length commit SHA is currently the only way to use an action as an immutable release. Pinning to a particular SHA helps mitigate the risk of a bad actor adding a backdoor to the action's repository, as they would need to generate a SHA-1 collision for a valid Git object payload. When selecting a SHA, you should verify it is from the action's repository and not a repository fork.

[D] Pin actions to a tag only if you trust the creator

Although pinning to a commit SHA is the most secure option, specifying a tag is more convenient and is widely used. If you'd like to specify a tag, then be sure that you trust the action's creators.

The 'Verified creator' badge on GitHub Marketplace is a useful signal, as it indicates that the action was written by a team whose identity has been verified by GitHub. Note that there is risk to this approach even if you trust the author, because a tag can be moved or deleted if a bad actor gains access to the repository storing the action.

Reference:

<https://docs.github.com/en/actions/reference/security/secure-use>

NEW QUESTION # 80

Which of the following statements are true regarding the use of GitHub Actions on a GitHub Enterprise Server instance? (Choose three.)

- A. Third party actions can be manually synchronized for use on GitHub Enterprise Server
- B. Actions must be defined in the .github repository
- C. Most GitHub authored actions are automatically bundled for use on GitHub Enterprise Server
- D. Use of GitHub Actions on GitHub Enterprise Server requires a persistent internet connection
- E. Third party actions can be used on GitHub Enterprise Server by configuring GitHub Connect
- F. Actions created by GitHub are automatically available and cannot be disabled

Answer: A,D,E

Explanation:

GitHub Actions on GitHub Enterprise Server often requires an internet connection, especially for accessing actions from the GitHub Marketplace or third-party actions unless they are manually synced to the server.

To use third-party actions on GitHub Enterprise Server, GitHub Connect can be used to establish a connection between the server and GitHub.com, enabling access to third-party actions.

Third-party actions can also be manually synchronized to the GitHub Enterprise Server, making them available for use in workflows.

NEW QUESTION # 81

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