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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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">• 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 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.
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Exam GH-200 Duration, GH-200 Test Cram Review

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Microsoft GitHub Actions Sample Questions (Q31-Q36):

NEW QUESTION # 31

As a developer, you have a 10-MB data set that is required in a specific workflow. Which steps should you perform so the dataset is stored encrypted and can be decrypted during the workflow? (Choose three.)

- **A. Encrypt the dataset.**
- B. Create a GitHub encrypted secret with the Large object option selected and upload the dataset.
- C. Commit the encrypted dataset to the same repository as the workflow
- D. Compress the dataset
- E. Leverage the actions/download-secret action in the workflow.
- **F. Store the dataset in a GitHub encrypted secret.**
- **G. Store the encryption keys in a GitHub encrypted secret.**

Answer: A,F,G

Explanation:

First, the dataset should be encrypted before being stored. This ensures that the data is protected when stored in a repository.

The encrypted dataset can be stored in a GitHub secret, ensuring it is securely kept and not exposed publicly.

The encryption key needed to decrypt the dataset should also be stored in a GitHub secret to maintain security during the workflow, allowing access only when needed.

NEW QUESTION # 32

How should you print a debug message in your workflow?

- A. `echo "::add-mask::Set variable myVariable to true"`
- **B. `echo "::debug::Set variable myVariable to true"`**
- C. `echo "Set variable MyVariable to true" >> $DEBUG_MESSAGE`
- D. `echo "debug_message=Set variable myVariable to true" >> &GITHUB_OUTPUT`

Answer: B

Explanation:

Example: Setting a debug message

`echo "::debug::Set the Octocat variable"`

Reference:

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

NEW QUESTION # 33

Which of the following commands will set the \$FOO environment variable within a script, so that it may be used in subsequent workflow job steps?

- A. `run: echo "::set-env name=FOO:bar"`
- B. `run: export FOO=bar`
- C. `run: echo ${FOO=bar}`
- **D. `run: echo "FOO=bar" >> $GITHUB_ENV`**

Answer: D

Explanation:

The \$GITHUB_ENV environment variable is used to set environment variables that persist across steps in a workflow job. By echoing `FOO=bar` into \$GITHUB_ENV, the variable FOO will be available in subsequent steps within the same job.

Variables set in GITHUB_ENV apply only to the current job.

Example:

```
echo "PR_NUMBER=$pr_number" >> $GITHUB_ENV
```

Reference:

<https://github.com/orgs/community/discussions/56849>

NEW QUESTION # 34

What can be used to set a failed status of an action from its code?

- A. Dockerfile CMD
- **B. a non-zero exit code**
- C. output variable
- D. @actions/github toolkit
- E. composite run step
- F. JavaScript dist/ folder

Answer: B

Explanation:

A non-zero exit code is used to set the status of an action to "failed" in GitHub Actions. When the action's script or code exits with a non-zero status, it indicates failure, and GitHub will mark the action as failed.

NEW QUESTION # 35

Which default GitHub environment variable indicates the name of the person or app that initiated a workflow?

- A. GITHUB_USER
- B. ENV_ACTOR
- C. GITHUB_WORKFLOW_ACTOR
- **D. GITHUB_ACTOR**

Answer: D

Explanation:

GITHUB_ACTOR : The name of the person or app that initiated the workflow.

Reference:

<https://graphite.dev/guides/github-actions-variables>

GITHUB_ACTOR : The name of the person or app that initiated the workflow.

NEW QUESTION # 36

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