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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	 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	 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 3	 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.

Topic 4

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.

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Microsoft GitHub Actions Sample Questions (Q31-Q36):

NEW QUESTION #31

When reviewing an action for use, what file defines its available inputs and outputs?

- A. inputs.yml
- B. workflow.yml
- C. action.yml
- D. defaults.json
- E. config.json

Answer: C

Explanation:

A custom GitHub Action's inputs, outputs, and other configurations are defined in its metadata file, which must be named action.yml or action.yaml and placed at the root of the action's repository. This YAML file specifies how the action runs (e.g., using Docker or JavaScript) and provides the metadata for its inputs and outputs, which are then used by workflows that call the action.

Key aspects of the action.yml or action.yaml file

Format: It uses YAML syntax.

Location: It must be in the root directory of your action's repository.

Contents: It defines the action's name, description, inputs, outputs, and the runs configuration to specify the execution environment (like a Docker image or JavaScript file) and entrypoint.

Inputs and Outputs: The file includes inputs and outputs sections to declare the data the action accepts and produces, respectively. Reference:

https://docs.github.com/en/actions/reference/workflows-and-actions/metadata-syntax

NEW OUESTION #32

As a developer, you need to leverage Redis in your workflow. What is the best way to use Redis on a self-hosted Linux runner without affecting future workflow runs?

- A. Add a run step to your workflow, which dynamically installs and configures Redis as part of your job.
- B. Install Redis on the hosted runner image and place it in a runner group. Specify label: in your job to target the runner group.
- C. Set up Redis on a separate machine and reference that instance from your job.
- D. Specify container: and services: in your job definition to leverage a Redis service container.

Answer: D

Explanation:

Creating Redis service containers

You can use service containers to create a Redis client in your workflow. You can create a Redis service for jobs that run in containers or directly on the runner machine.

Configuring the runner job

The example uses the ubuntu-latest GitHub-hosted runner as the Docker host.

The workflow configures a service container with the label redis.

jobs:

Label of the runner job

runner-job:

You must use a Linux environment when using service containers or container jobs runs-on: ubuntu-latest

Service containers to run with `runner-job`

services:

Label used to access the service container

redis:

Docker Hub image

image: redis

Set health checks to wait until redis has started

options: >-

- --health-cmd "redis-cli ping"
- --health-interval 10s
- --health-timeout 5s
- --health-retries 5

ports:

Maps port 6379 on service container to the host

- 6379:6379

Reference:

https://docs.github.com/en/actions/tutorials/use-containerized-services/create-redis-service- containers

NEW QUESTION #33

Which of the following statements are true regarding the use of GitHub Actions on a GitHub Enterprise Server instance? (Each correct answer presents a complete solution. Choose three.)

- A. Third-party actions can be manually synchronized for use on GitHub Enterprise Server.
- B. Actions created by GitHub are automatically available and cannot be disabled.
- 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 must be defined in the .github repository.

Answer: A,C,E

Explanation:

[B] If you want your GitHub Enterprise Server instance to use third-party custom actions, you need to enable GitHub Connect.

[C] Most official GitHub-authored actions are automatically bundled with GitHub Enterprise Server, and are captured at a point in time from GitHub Marketplace.

[F] Third-party actions can be manually synchronized to GitHub Enterprise Server (GHES) to be used in workflows without requiring an internet connection to GitHub.com. This is done using the actions-sync tool to download actions from GitHub.com and transfer them to the GHES instance.

This manual method provides an alternative to using GitHub Connect, offering stricter control over which actions are available on the GHES instance.

Reference:

https://docs.github.com/en/enterprise-server@3.17/get-started/exploring-integrations/about- using-integrations https://docs.github.com/en/enterprise-server@3.17/admin/managing-github-actions-for-your- enterprise/managing-access-to-actions-from-githubcom/about-using-actions-in-your-enterprise

NEW QUESTION #34

How should you print a debug message in your workflow?

- A. echo "Set variable MyVariable to true">>> \$DEBUG_MESSAGE
- B. echo "::debug::Set variable myVariable to true"
- C. echo "debug message=Set variable myVariable to true">> &GITHUB OUTPUT

• D. echo "::add-mask::Set variable myVariable to true"

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 OUESTION #35

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 "FOO=bar">>> \$GITHUB ENV
- B. run: echo \${{ \$FOO=bar }}
- C. run: export FOO=bar
- D. run: echo "::set-env name=FOO::bar"

Answer: A

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 #36

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