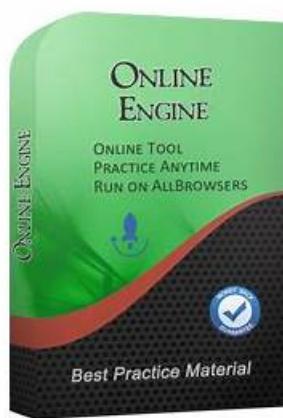


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## Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>

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### Microsoft GitHub Actions Sample Questions (Q46-Q51):

#### NEW QUESTION # 46

Which files are required for a Docker container action in addition to the source code? (Each correct answer presents a partial solution. Choose two.)

- A. metadata.yml
- B. Dockerfile
- C. Actionfile
- D. action.yml

**Answer: B,D**

Explanation:

Creating a Docker container action

Create a dockerfile

Dockerfile support for GitHub Actions

When creating a Dockerfile for a Docker container action, you should be aware of how some Docker instructions interact with GitHub Actions and an action's metadata file.

Creating an action metadata file

Create a new action.yml file.

Reference:

<https://docs.github.com/en/actions/tutorials/use-containerized-services/create-a-docker-container-action>

<https://docs.github.com/en/actions/reference/workflows-and-actions/dockerfile-support>

#### NEW QUESTION # 47

How many jobs will result from the following matrix configuration?

```
strategy:
  matrix:
    color: [green, pink]
    animal: [owl, magpie]
  include:
    - color: blue
      animal: owl
    - color: pink
      animal: magpie
```

- A. 5 jobs
- B. 3 jobs
- C. 6 jobs
- D. 4 jobs

**Answer: C**

Explanation:

The matrix configuration specifies two variables: color and animal. The color variable has 2 values (green and pink), and the animal variable has 2 values (owl and magpie). This would result in 4 combinations (2 color values  $\times$  2 animal values). Additionally, the include section introduces two more combinations (color: blue and animal: owl; color: pink and animal: magpie).

#### NEW QUESTION # 48

You need to make a script to retrieve workflow run logs via the API. Which is the correct API to download a workflow run log?

- A. POST /repos/:owner/:repo/actions/runs/:run\_id/logs
- B. GET /repos/:owner/:repo/actions/runs/:run\_id/logs
- C. POST /repos/:owner/:repo/actions/runs/:run\_id
- D. GET /repos/:owner/:repo/actions/artifacts/logs

**Answer: B**

Explanation:

The GET /repos/:owner/:repo/actions/runs/:run\_id/logs API endpoint is used to retrieve the logs of a specific workflow run identified by run\_id. This is the correct method for downloading logs from a workflow run.

#### NEW QUESTION # 49

Which of the following is the best way for an enterprise to prevent certain marketplace actions from running?

- A. Create a list that is maintained as a .yml file in a .github repository specified in the enterprise. Only these actions can be run.
- B. Create a list of the actions that are restricted from being used as an enterprise policy. Every other action can be run.
- C. It is not possible; if an action is in the marketplace, its use cannot be restricted.
- D. Create a list of the actions that are allowed to run as an enterprise policy. Only these actions can be run.

**Answer: D**

Explanation:

The best way for an enterprise to control which GitHub Actions run is by creating a list of approved actions as an enterprise policy. This approach restricts workflows to only use the actions that are explicitly allowed, ensuring security and compliance within the organization.

## NEW QUESTION # 50

Which files are required for a Docker container action in addition to the source code? (Choose two.)

- A. metadata.yml
- **B. Dockerfile**
- C. Actionfile
- D. action.yml

Answer: B,D

### Explanation:

**Dockerfile:** The Dockerfile is required for Docker container actions. It defines the environment for the action, specifying the base image, dependencies, and any commands to set up the action's runtime inside the container.

`action.yml`: The `action.yml` file is required for all GitHub Actions, including Docker container actions. It contains metadata about the action, including the inputs, outputs, and the runtime environment (which in this case is Docker, defined under `runs.using`).

## NEW QUESTION # 51

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