

# Microsoft GH-200 Latest Dumps Pdf, Latest GH-200 Test Prep



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## Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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>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>
Topic 4	<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>

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### Microsoft GitHub Actions Sample Questions (Q38-Q43):

#### NEW QUESTION # 38

What metadata file in a custom action defines the main entry point?

- A. `action.yml`
- B. `index.js`
- C. `action.js`
- D. `main.yml`

**Answer: A**

Explanation:

The `action.yml` file is the metadata file in a custom GitHub Action that defines the main entry point, including information such as the inputs, outputs, description, and the `runs` key that specifies the main entry point (e.g., a script or a Docker container).

#### NEW QUESTION # 39

Which scopes are available to define custom environment variables within a workflow file?  
(Choose three.)

- A. the entire workflow, by using `env` at the top level of the workflow file
- B. the entire stage, by using `env` at the top of the defined build stage
- C. all jobs being run on a single Actions runner, by using `runner.env` at the top of the workflow file
- D. a specific step within a job, by using `jobs..steps[*].env`
- E. within the `run` attribute of a job step
- F. the contents of a job within a workflow, by using `jobs.env`

**Answer: A,D,F**

Explanation:

Defining environment variables for a single workflow

To set a custom environment variable for a single workflow, you can define it using the `env` key in the workflow file. The scope of a custom variable set by this method is limited to the element in which it is defined. You can define variables that are scoped for:

[A] The entire workflow, by using `env` at the top level of the workflow file.

[E] The contents of a job within a workflow, by using `jobs.<job_id>.env`.

[F] A specific step within a job, by using `jobs.<job_id>.steps[*].env`.

Reference:

<https://docs.github.com/en/actions/learn-github-actions/variables>

#### NEW QUESTION # 40

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. composite run step
- E. JavaScript dist/ folder
- F. `@actions/github` toolkit

**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 # 41**

Which default environment variable specifies the branch or tag that triggered a workflow?

- A. `GITHUB_TAG`
- B. `GITHUB_BRANCH`
- C. `ENV_BRANCH`
- D. `GITHUB_REF`

**Answer: D**

Explanation:

The `GITHUB_REF` environment variable specifies the branch or tag that triggered the workflow. It contains the full reference to the branch or tag, such as `refs/heads/main` for a branch or `refs/tags/v1.0` for a tag.

**NEW QUESTION # 42**

Which GitHub Actions event configuration triggers only for pull requests targeting the release branch and not for push events?

- A. `on: pull_request: branches: - release`
- B. `on: pull_request: types: - opened`
- C. `on: pull_request_target: branches: - release`
- D. `on: push: branches: - release`

**Answer: A**

Explanation:

The correct option is `on: pull_request: branches: - release`. This configuration runs only when a pull request targets the release branch and it does not run on push events.

The `pull_request` event triggers on pull request activity and the `branches` filter matches the base branch of the pull request. By specifying the release branch, this configuration limits runs to pull requests that target that branch. Because it listens only for the `pull_request` event, pushes will not trigger the workflow.

**NEW QUESTION # 43**

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