

Valid Test GH-200 Format, New GH-200 Study Materials



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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
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">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.

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Microsoft GitHub Actions Sample Questions (Q24-Q29):

NEW QUESTION # 24

As a developer, you created a JavaScript action. What is the best way to test your JavaScript action?

- A. Package your JavaScript action inside a docker container image and run it.
- B. **Create a workflow that only executes your specific JavaScript action.**
- C. Create a workflow that includes the actions/debug-javascript action.
- D. Use a tool called @vercel/ncc to compile your code.

Answer: B

Explanation:

Testing out your JavaScript action in a workflow

You can test your action out in a workflow.

Public actions can be used by workflows in any repository. When an action is in a private repository, the repository settings dictate whether the action is available only within the same repository or also to other repositories owned by the same user or organization.

Reference:

<https://docs.github.com/en/actions/tutorials/create-actions/create-a-javascript-action>

NEW QUESTION # 25

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

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

Answer: B

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 # 26

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/artifacts/logs
- C. **GET /repos/:owner/:repo/actions/runs/:run_id/logs**
- D. POST /repos/:owner/:repo/actions/runs/:run_id

Answer: C

Explanation:

REST API endpoints for workflow jobs

You can use the REST API to view logs and workflow jobs in GitHub Actions.

Download job logs for a workflow run

Gets a redirect URL to download a plain text file of logs for a workflow job.

Code samples for "Download job logs for a workflow run"

Request example

Get /repos/{owner}/{repo}/actions/jobs/{job_id}/logs

Reference:

<https://docs.github.com/en/rest/actions/workflow-jobs>

NEW QUESTION # 27

As a developer, how can you identify a Docker container action on GitHub?

- A. The action.yml metadata file has the runs.using value set to Docker.
- B. The action's repository includes @actions/core in the root directory.
- C. The action's repository name includes the keyword "Docker."
- D. The action.yml metadata file references a Dockerfile file.

Answer: A

Explanation:

In a Docker container action, the action.yml file includes the runs.using field, which is set to docker to specify that the action runs inside a Docker container. This is the key indicator that the action is a Docker container action.

NEW QUESTION # 28

Which of the following scenarios would require the use of self-hosted runners instead of GitHub-hosted runners?

- A. using specialized hardware configurations required for workflows
- B. running more than the three concurrent workflows supported by GitHub-hosted runners
- C. using Docker containers as part of the workflow
- D. performing builds on macOS
- E. exceeding 50,000 monthly minutes of build time

Answer: A,B

Explanation:

GitHub-hosted runners have a limit on the number of concurrent workflows (typically 20 for free-tier accounts and 5 for enterprise). If your organization needs to run more workflows simultaneously, you would need to use self-hosted runners to increase the available concurrency.

Self-hosted runners allow you to configure specialized hardware or software setups that are necessary for certain workflows.

GitHub-hosted runners may not have access to custom hardware configurations like GPUs or other specialized resources, so self-hosted runners are required in such cases.

NEW QUESTION # 29

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