

GH-200 PDF & GH-200 Latest Exam Preparation



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In addition to the comprehensive Microsoft GH-200 practice exams, our product also includes GitHub Actions (GH-200) PDF questions developed by our team to help you get prepared in a short time. Our Prepare for your GitHub Actions (GH-200) PDF format works on all smart devices without limits of time and place.

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	• 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	• 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 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 (Q65-Q70):

NEW QUESTION # 65

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

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

Answer: A,B,C

Explanation:

You can define environment variables for the entire workflow by using the `env` key at the top level of the workflow file. These environment variables will be available to all jobs and steps within the workflow.

Environment variables can also be set within the run attribute of a job step, and these variables will be scoped only to that specific step.

You can set environment variables for specific steps within a job by using `jobs.<job_id>.steps[*].env`, which allows you to define variables that will only be available to that step.

NEW QUESTION # 66

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

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

Answer: C

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 # 67

While writing a custom action, some behavior within the runner must be changed. Which workflow commands would set an error message in the runner's output? (Each correct answer presents a complete solution. Choose two.)

- A. `echo "::error=There was an error::"`
- B. `echo "::error message=There was an error::"`
- C. `echo "::error::There was an error"`
- D. `echo "::error file=main.py,line=10,col=15::There was an error"`

Answer: C,D

Explanation:

To set an error message in a GitHub Actions runner's output, you should use the command `echo "::error::Your error message"` in your workflow's run step. This workflow command creates an error annotation that will appear in the logs, and you can optionally include file and line number information, such as `echo "::error file=app.js,line=5::Error message"`.
Reference:
<https://docs.github.com/en/actions/reference/workflows-and-actions/workflow-commands>

NEW QUESTION # 68

Which of the following scenarios requires a developer to explicitly use the `GITHUB_TOKEN` or `github.token` secret within a workflow? (Choose two.)

- A. assigning non-default permissions to the `GITHUB_TOKEN`
- **B. making an authenticated GitHub API request**
- C. checking out source code with the `actions/checkout@v3` action
- **D. passing the `GITHUB_TOKEN` secret to an action that requires a token as an input**

Answer: B,D

Explanation:

[A] Some actions may require a `GITHUB_TOKEN` as an input to authenticate and perform specific tasks, such as creating issues, commenting on pull requests, or interacting with the GitHub API. In such cases, you would need to explicitly pass the token to the action.

[B] When making an authenticated GitHub API request, the `GITHUB_TOKEN` is required to authenticate the request. This token is automatically provided by GitHub in the workflow, and it must be explicitly used when interacting with the GitHub API.

Note: You can use the `GITHUB_TOKEN` to make authenticated API calls. This example workflow creates an issue using the GitHub REST API:

Reference:

https://docs.github.com/en/actions/tutorials/authenticate-with-github_token

NEW QUESTION # 69

Which of the following is the proper syntax to specify a custom environment variable named `MY_VARIABLE` with the value `my-value`?

- A. environment:
`MY_VARIABLE = my-value`
- B. var:
`MY_VARIABLE: my-value`
- C. environment:
`MY_VARIABLE: my-value`
- D. var:
`MY_VARIABLE = my-value`
- E. env:
`MY_VARIABLE = my-value`
- **F. env:
`MY_VARIABLE: my-value`**

Answer: F

Explanation:

To set a custom environment variable for a single workflow, you can define it using the `env` key in the workflow file.

Example:

`env:`

`DAY_OF_WEEK: Monday`

Note: 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:

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

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

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

Reference:

<https://docs.github.com/en/actions/how-tos/write-workflows/choose-what-workflows-do/use-variables>

NEW QUESTION # 70

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