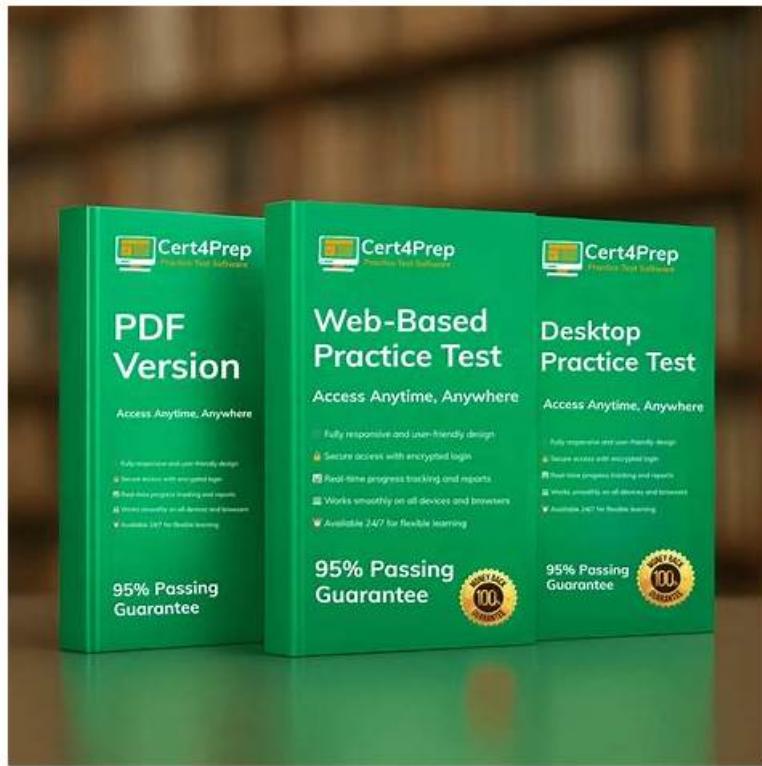


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Microsoft GH-200 Exam Syllabus Topics:

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"> 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	<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.

Microsoft GitHub Actions Sample Questions (Q31-Q36):

NEW QUESTION # 31

You need to create new workflows to deploy to an unfamiliar cloud provider. What is the fastest and safest way to begin?

- A. Use the actions/jenkins-plugin action to utilize an existing Jenkins plugin for the cloud provider.
- B. Search GitHub Marketplace for verified actions published by the cloud provider.**
- C. Download the CLI for the cloud provider and review the associated documentation.
- D. Search GitHub Marketplace for actions created by GitHub.
- E. Create a custom action to wrap the cloud provider's CLI.

Answer: B

Explanation:

Searching the GitHub Marketplace for verified actions published by the cloud provider is the quickest and safest approach. Many cloud providers offer verified GitHub Actions that are maintained and optimized to interact with their services. These actions typically come with the correct configurations and best practices, allowing you to get started quickly without reinventing the wheel.

Note: About GitHub Marketplace for apps

GitHub Marketplace where you can share your apps with everyone.

GitHub Marketplace connects you to developers who want to extend and improve their GitHub workflows. You can list free and paid tools for developers to use in GitHub Marketplace. GitHub Marketplace offers developers two types of tools: GitHub Actions and Apps, and each tool requires different steps for adding it to GitHub Marketplace.

GitHub Actions

Anyone can publish an action in GitHub Marketplace. GitHub verifies some partner organizations and these are shown as verified creators.

Reference:

<https://docs.github.com/en/enterprise-cloud@latest/apps/github-marketplace/github-marketplace-overview/about-github-marketplace-for-apps>

NEW QUESTION # 32

In a workflow triggered by a pull request comment, which GitHub Actions context property contains the event payload used to access the comment text and the pull request number?

- A. `github.repository`
- B. `github.event_path`
- C. `github.job`
- D. `github.event`

Answer: D

Explanation:

In a workflow that runs on a pull request comment the event context contains the webhook payload. With `github.event` you can read the structured fields for the comment text and the pull request number. The comment text is available under the `comment.body` field and the pull request number is available under the `issue.number` for comment events or under the `pull_request.number` for pull request events. This makes `github.event` the direct and convenient source for these values.

NEW QUESTION # 33

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 QUESTION # 34

As a developer, your Actions workflow often reuses the same outputs or downloaded dependencies from one run to another. To cache dependencies for a job, you are using the GitHub cache action. Which input parameters are required for this action? (Choose two.)

- A. dependency: the name and version of a package to cache or restore
- B. restore-keys: the copy action key used with `cache` parameter to cache the data
- C. key: the key created when saving a cache and the key used to search for a cache
- D. ref: the ref name of the branch to access and restore a cache created
- E. cache-hit: the copy action key used with `restore` parameter to restore the data from the cache
- F. path: the file path on the runner to cache or restore

Answer: C,F

Explanation:

The key is required because it uniquely identifies the cache. It is used to store and retrieve cached data. When creating or restoring a cache, you need to define a key that will be used to identify the cache.

The path is the file path on the runner that you want to cache. This is where the cached files or dependencies are located and should be specified to tell GitHub where to store or retrieve the cache from.

NEW QUESTION # 35

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. passing the `GITHUB_TOKEN` secret to an action that requires a token as an input

- C. checking out source code with the actions/checkout@v3 action
- D. making an authenticated GitHub API request

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 # 36

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