

# Pass Guaranteed Microsoft - GH-200 - Efficient Valid GitHub Actions Exam Question



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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>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 3	<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 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 (Q78-Q83):

#### NEW QUESTION # 78

In GitHub Enterprise Cloud, where do you set the policy that allows only enterprise hosted actions and reusable workflows to run?

- A. Enterprise account Actions policy**
- B. Repository settings Actions general
- C. Organization settings Policies then Actions

**Answer: A**

Explanation:

The enterprise Actions policy is the centralized place where enterprise owners enforce which actions and reusable workflows are permitted across all organizations in GitHub Enterprise Cloud. From this scope you can require that only actions and reusable workflows hosted within the enterprise are allowed to run, and this policy flows down to organizations and repositories to ensure consistent enforcement.

#### NEW QUESTION # 79

As a developer, what options should you recommend to implement standards for automation reuse? (Choose two.)

- A. Create reusable actions and workflows that can be called from other workflows.**
- B. Create a marketplace partition to publish reusable automation for the company.
- C. Store shared corporate actions in subfolders in a defined and documented internally accessible repository.
- D. Create workflow templates and store them in the organization's .github repository.**

**Answer: A,D**

Explanation:

Creating workflow templates in the organization's .github repository allows the organization to standardize workflows and make them easily reusable across multiple repositories. This ensures consistency and simplifies maintenance.

Creating reusable actions and workflows that can be called from other workflows helps modularize and standardize automation tasks. These reusable components can be maintained centrally and called from different workflows across repositories.

#### NEW QUESTION # 80

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.event**
- B. github.job

- C. `github.event_path`
- D. `github.repository`

#### Answer: A

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 # 81

You have exactly one Windows x64 self-hosted runner, and it is configured with custom tools.

Which syntax could you use in the workflow to target that runner?

- A. self-hosted: [windows-x64]
- B. **runs-on: [self-hosted, windows, x64]**
- C. self-hosted: [windows, x64]
- D. runs-on: windows-latest

#### Answer: B

Explanation:

Using self-hosted runners in a workflow

To use self-hosted runners in a workflow, you can use labels or groups to specify the runner for a job.

Using default labels to route jobs

A self-hosted runner automatically receives certain labels when it is added to GitHub Actions.

These are used to indicate its operating system and hardware platform:

self-hosted: Default label applied to self-hosted runners.

linux, windows, or macOS: Applied depending on operating system.

x64, ARM, or ARM64: Applied depending on hardware architecture.

You can use your workflow's YAML to send jobs to a combination of these labels. In this example, a self-hosted runner that matches all three labels will be eligible to run the job:

`runs-on: [self-hosted, linux, ARM64]`

self-hosted - Run this job on a self-hosted runner.

linux - Only use a Linux-based runner.

ARM64 - Only use a runner based on ARM64 hardware.

Reference:

<https://docs.github.com/en/actions/how-tos/manage-runners/self-hosted-runners/use-in-a-workflow>

#### NEW QUESTION # 82

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

- **A. GITHUB\_ACTOR**
- B. ENV\_ACTOR
- C. GITHUB\_WORKFLOW\_ACTOR
- D. GITHUB\_USER

#### Answer: A

Explanation:

The `GITHUB_ACTOR` environment variable indicates the name of the person or app that initiated the workflow. This variable is automatically provided by GitHub in the workflow and can be used to identify the user or application triggering the workflow.

#### NEW QUESTION # 83

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