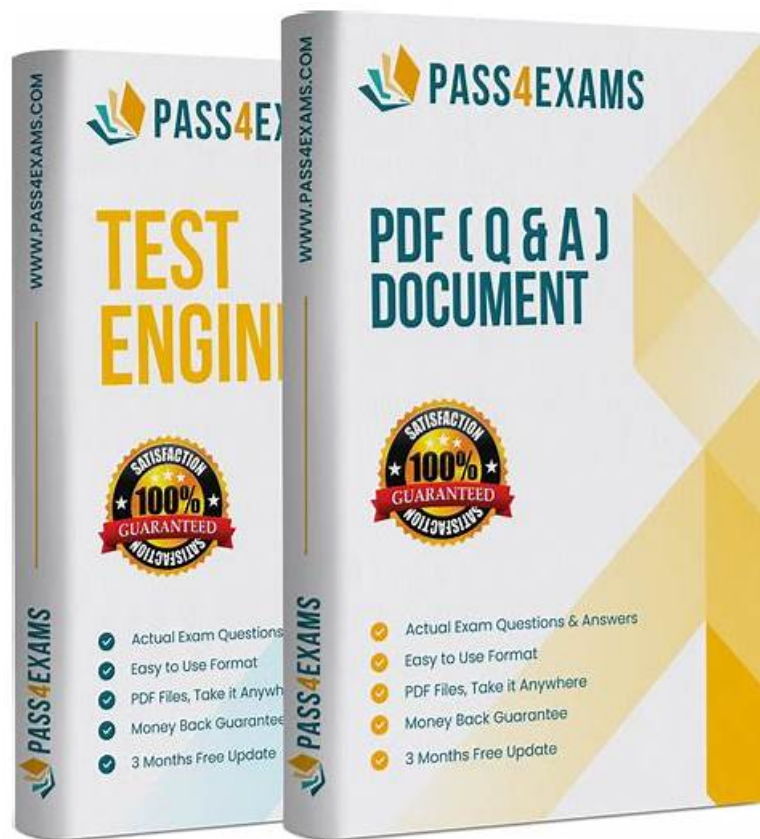


# GH-200 Online Exam, Exam GH-200 Preparation



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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>• <b>Manage GitHub Actions in the Enterprise:</b> 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>• <b>Consume Workflows:</b> 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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## Quiz 2025 GH-200: GitHub Actions Pass-Sure Online Exam

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### Microsoft GitHub Actions Sample Questions (Q69-Q74):

#### NEW QUESTION # 69

What is the proper syntax to reference the system-provided run number variable?

- A. `${{var.GITHUB_RUN_NUMBER}}`
- B. `$github.run_number`
- C. `${{GITHUB_RUN_NUMBER}}`
- D. `${{env.GITHUB_RUN_NUMBER}}`
- E. `$GITHUB_RUN_NUMBER`

**Answer: C**

Explanation:

Default environment variables

The default environment variables that GitHub sets are available to every step in a workflow.

Because default environment variables are set by GitHub and not defined in a workflow, they are not accessible through the env context [Not B]. However, most of the default variables have a corresponding, and similarly named, context property. For example, the value of the GITHUB\_REF variable can be read during workflow processing using the `${{ github.ref }}` context property.

Reference:

<https://docs.github.com/en/actions/reference/workflows-and-actions/variables>

#### NEW QUESTION # 70

How can GitHub Actions encrypted secrets be used in if: conditionals within a workflow job?

- A. Create a job dependency that exposes the encrypted secret as a job output, which can then be leveraged in a subsequent dependent job.
- B. Use the secrets context within the conditional statement, e.g. `${{ secrets.MySuperSecret }}`.
- C. Use a workflow command to expose the encrypted secret via a step's output parameter and then use the step output in the job's if: conditional.
- D. Set the encrypted secret as a job-level environment variable and then reference the environment variable within the conditional statement.

**Answer: B**

Explanation:

GitHub Actions encrypted secrets can be accessed in workflows using the secrets context. You can directly reference the secret within an if: conditional using `${{ secrets.MySuperSecret }}` to determine whether a job or step should run based on the secret's value.

#### NEW QUESTION # 71

How can a workflow deploy mitigate the risk of multiple workflow runs that are deploying to a single cloud environment simultaneously? (Each correct answer presents part of the solution. Choose two.)

- **A. Specify a concurrency scope in the workflow.**
- B. Reference the mutex in the task performing the deployment.
- C. Configure the mutex setting in the environment.
- **D. Specify a target environment in the deployment job.**
- E. Set the concurrency in the deployment job to 1.
- F. Pass the mutex into the deployment job.

**Answer: A,D**

Explanation:

[D] GitHub Actions now supports a concurrency key at both the workflow and job level that will ensure that only a single run or job is in progress.

concurrency

Use concurrency to ensure that only a single job or workflow using the same concurrency group will run at a time.

Example: Using concurrency and the default behavior

The default behavior of GitHub Actions is to allow multiple jobs or workflow runs to run concurrently. The concurrency keyword allows you to control the concurrency of workflow runs.

Reference:

<https://github.blog/changelog/2021-04-19-github-actions-limit-workflow-run-or-job-concurrency/>

<https://docs.github.com/en/actions/reference/workflows-and-actions/workflow-syntax#concurrency>

<https://github.com/marketplace/actions/actions-mutex>

#### NEW QUESTION # 72

As a developer, you need to leverage Redis in your workflow. What is the best way to use Redis on a self-hosted Linux runner without affecting future workflow runs?

- A. Set up Redis on a separate machine and reference that instance from your job.
- B. Add a run step to your workflow, which dynamically installs and configures Redis as part of your job.
- C. Install Redis on the hosted runner image and place it in a runner group. Specify label: in your job to target the runner group.
- **D. Specify container: and services: in your job definition to leverage a Redis service container.**

**Answer: D**

Explanation:

Creating Redis service containers

You can use service containers to create a Redis client in your workflow. You can create a Redis service for jobs that run in containers or directly on the runner machine.

Configuring the runner job

The example uses the ubuntu-latest GitHub-hosted runner as the Docker host.

The workflow configures a service container with the label redis.

jobs:

# Label of the runner job

runner-job:

# You must use a Linux environment when using service containers or container jobs runs-on: ubuntu-latest

# Service containers to run with `runner-job`

services:

# Label used to access the service container

```

redis:
# Docker Hub image
image: redis
# Set health checks to wait until redis has started
options: >-
--health-cmd "redis-cli ping"
--health-interval 10s
--health-timeout 5s
--health-retries 5
ports:
# Maps port 6379 on service container to the host
- 6379:6379
Reference:
https://docs.github.com/en/actions/tutorials/use-containerized-services/create-redis-service- containers

```

### NEW QUESTION # 73

Custom environment variables can be defined at multiple levels within a workflow file including:  
(Each answer presents a complete solution. Choose three.)

- A. job level.
- B. runner level.
- C. step level.
- D. default level.
- E. stage level.
- F. top level.

**Answer: A,C,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:

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-to/write-workflows/choose-what-workflows-do/use-variables>

### NEW QUESTION # 74

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