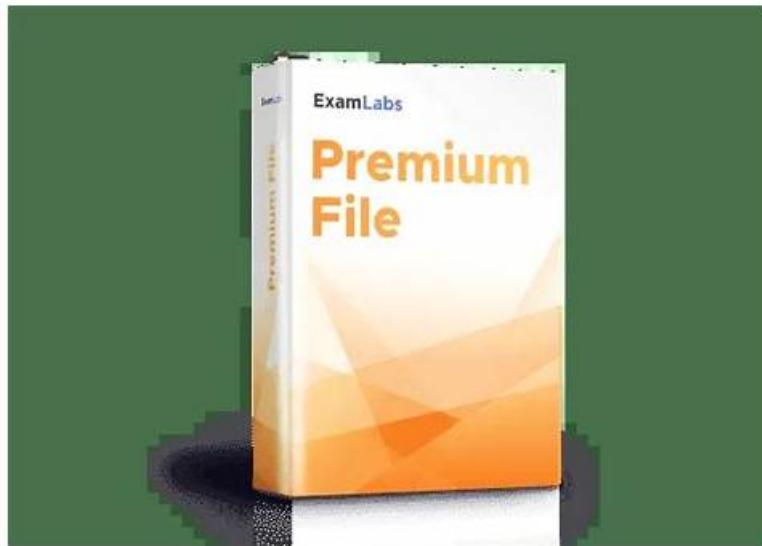


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## GH-200 - Professional Examcollection GitHub Actions Questions Answers

Customizable GitHub Actions (GH-200) practice tests allow users set the time and GH-200 questions according to their needs. GitHub Actions (GH-200) Practice exams simulate the real test so applicants can prepare as per the actual exam's pressure and handle it in the final test. Real4Prep has a team of professionals who update the GitHub Actions (GH-200) practice material daily so the user can get the full out of it and pass GitHub Actions (GH-200) certification exam pretty easily.

## Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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>

## Microsoft GitHub Actions Sample Questions (Q44-Q49):

### NEW QUESTION # 44

What metadata file in a custom action defines the main entry point?

- A. index.js
- B. action.js
- C. **action.yml**
- D. main.yml

**Answer: C**

Explanation:

The action.yml file is the metadata file in a custom GitHub Action that defines the main entry point, including information such as the inputs, outputs, description, and the runs key that specifies the main entry point (e.g., a script or a Docker container).

### NEW QUESTION # 45

As a developer, you need to use GitHub Actions to deploy a microservice that requires runtime access to a secure token. This token is used by a variety of other microservices managed by different teams in different repos. To minimize management overhead and ensure the token is secure, which mechanisms should you use to store and access the token? (Choose two.)

- A. Store the token as a GitHub encrypted secret in the same repo as the code. During deployment, use GitHub Actions to store the secret in an environment variable that can be accessed at runtime.
- B. Store the token as an organizational-level encrypted secret in GitHub. During deployment, use GitHub Actions to store the secret in an environment variable that can be accessed at runtime.**
- C. Use a corporate non-GitHub secret store (e.g., HashiCorp Vault) to store the token. During deployment, use GitHub Actions to store the secret in an environment variable that can be accessed at runtime.**
- D. Store the token as a GitHub encrypted secret in the same repo as the code. Create a reusable custom GitHub Action to access the token by the microservice at runtime.
- E. Store the token in a configuration file in a private repository. Use GitHub Actions to deploy the configuration file to the runtime environment.

**Answer: B,C**

Explanation:

Using a corporate secret store like HashiCorp Vault provides a secure, centralized location for sensitive information. GitHub Actions can then retrieve and store the token securely during deployment by setting it as an environment variable, ensuring the token remains

secure and accessible at runtime.

Storing the token as an organizational-level encrypted secret in GitHub ensures it is accessible across multiple repositories, minimizing management overhead. GitHub Actions can then use this secret during deployment by setting it as an environment variable, allowing the microservice to access it securely at runtime.

#### NEW QUESTION # 46

A workflow that had been working now stalls in a waiting state until failing. The workflow file process-ml.yaml has not changed and contains jobs specifying runs-on: [gpu]. Which of the following steps would troubleshoot the issue? (Each answer presents a complete solution.)

Choose two.)

- A. Review the contents of the Runner\_\* .log files in the \_diag folder.
- B. Update the org settings to enable GPU-based GitHub-hosted runners.
- C. Rotate the GITHUB\_TOKEN secret for the appropriate runners.
- D. Increase the usage limits for the GitHub-hosted runners.
- E. Check the "Set up job" step for the logs of the last successful run to determine the runner.

**Answer: A,B**

Explanation:

Monitoring and troubleshooting self-hosted runners

You can monitor your self-hosted runners to view their activity and diagnose common issues.

[A] Reviewing the self-hosted runner application log files

You can monitor the status of the self-hosted runner application and its activities. Log files are kept in the \_diag directory where you installed the runner application, and a new log is generated each time the application is started. The filename begins with Runner\_, and is followed by a UTC timestamp of when the application was started.

[D] You can choose one of the standard GitHub-hosted runner options or, if you are on the GitHub Team or GitHub Enterprise Cloud plan, you can provision a runner with more cores, or a runner that's powered by a GPU processor. These machines are referred to as "larger runner." Reference:

<https://docs.github.com/en/actions/how-tos/manage-runners/self-hosted-runners/monitor-and-troubleshoot>

<https://docs.github.com/en/actions/concepts/runners/github-hosted-runners>

#### NEW QUESTION # 47

You are a DevOps engineer working on deployment workflows. You need to execute the deploy job only if the current branch name is feature-branch. Which code snippet will help you to implement the conditional execution of the job?

- A. jobs:  
deploy:  
if: github.ref.name == 'feature-branch'  
runs-on: ubuntu-latest  
steps:  
- uses: actions/checkout@v3
- B. jobs:  
deploy:  
if: github.branch\_name == 'feature-branch'  
runs-on: ubuntu-latest  
steps:  
- uses: actions/checkout@v3
- C. jobs:  
deploy:  
if: github.ref\_name == 'feature-branch'  
runs-on: ubuntu-latest  
steps:  
- uses: actions/checkout@v3
- D. jobs:  
deploy:  
if: github.branch.name == 'feature-branch'  
runs-on: ubuntu-latest

steps:  
- uses: actions/checkout@v3

## Answer: C

Explanation:

"ref\_name" refers to the short name of a Git branch or tag, as seen on platforms like GitHub, and is often used in CI/CD workflows to specify which code to build or deploy. For example, when a workflow is triggered by a commit to the feature-branch-1 branch, the `github.ref_name` would be `feature-branch-1`.

In GitHub Actions:

Purpose:

`github.ref_name` is a read-only context variable that contains the short name of the branch or tag that triggered the workflow.

Examples:

If a workflow is triggered by a commit to the main branch, `github.ref_name` would be `main`.

If it's triggered by a new tag, such as `v1.2.3`, `github.ref_name` would be `v1.2.3`.

Reference:

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

## NEW QUESTION # 48

Custom environment variables can be defined at multiple levels within a workflow file including:

(Each answer presents a complete solution. Choose three.)

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

## Answer: D,E,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-tos/write-workflows/choose-what-workflows-do/use-variables>

## NEW QUESTION # 49

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You can practice all the difficulties and hurdles which could be faced in an actual Microsoft exam. It also assists you in boosting confidence and reducing problem-solving time. The Pass4future designs GH-200 desktop-based practice software for desktops, so you can install it from a website and then use it without an internet connection. You only need an internet connection to verify the license of the products. No other plugins are required to employ it.

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