

# Exam Questions GH-200

GitHub Actions Exam

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#### NEW QUESTION 1

You are a developer working on developing reusable workflows for your organization. What keyword should be included as part of the reusable workflow event triggers?

- A. check\_run
- B. workflow\_run
- C. workflow\_call
- D. pull\_request

**Answer:** C

#### NEW QUESTION 2

Which statement is true about using default environment variables?

- A. The environment variables can be read in workflows using the ENV: variable\_name syntax.
- B. The environment variables created should be prefixed with GITHUB\_ to ensure they can be accessed in workflows
- C. The environment variables can be set in the defaults: sections of the workflow
- D. The GITHUB\_WORKSPACE environment variable should be used to access files from within the runner.

**Answer:** D

#### NEW QUESTION 3

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

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

**Answer:** AB

#### NEW QUESTION 4

What menu options in a repository do you need to select in order to use a starter workflow that is provided by your organization?

- A. Actions > Load workflow
- B. Workflow > New workflow
- C. Workflow > Load workflow
- D. Actions > New workflow

**Answer:** D

#### NEW QUESTION 5

As a developer, which workflow steps should you perform to publish an image to the GitHub Container Registry? (Choose three.)

- A. Use the actions/setup-docker action
- B. Authenticate to the GitHub Container Registry.
- C. Build the container image.
- D. Push the image to the GitHub Container Registry
- E. Pull the image from the GitHub Container Registry.

**Answer:** ABD

#### NEW QUESTION 6

Without the need to use additional infrastructure, what is the simplest and most maintainable method for configuring a workflow job to provide access to an empty PostgreSQL database?

- A. Use service containers with a Postgres database from Docker hub.
- B. Run the actions/postgres action in a parallel job.
- C. It is currently impossible to access the database with GitHub Actions.
- D. Dynamically provision and deprovision an environment.

**Answer:** A

#### Explanation:

GitHub Actions supports the use of service containers, which allows you to spin up a PostgreSQL database (or any other service) in a Docker container during your workflow. You can pull a PostgreSQL image from Docker Hub, and the container will automatically be available to your workflow job. This method requires no additional infrastructure and is easy to configure and maintain, as you simply define the container in the workflow file.

#### NEW QUESTION 7

As a DevOps engineer, you are trying to leverage an organization secret in a repo. The value received in the workflow is not the same as that set in the secret. What is the most likely reason for the difference?

- A. There is a different value specified at the repo level.
- B. There is a different value specified at the workflow level.

- C. The Codespace secret doesn't match the expected value.
- D. The Encrypt Secret setting was not configured for the secret.
- E. There is a different value specified at the enterprise level.

**Answer:** A

#### NEW QUESTION 8

What are the two ways to pass data between jobs? (Choose two.)

- A. Use the copy action with restore parameter to restore the data from the cache
- B. Use the copy action to save the data that should be passed in the artifacts folder.
- C. Use the copy action with cache parameter to cache the data
- D. Use data storage.
- E. Use job outputs
- F. Use artifact storage.

**Answer:** EF

#### NEW QUESTION 9

How many jobs will result from the following matrix configuration?

```
strategy:
  matrix:
    color: [green, pink]
    animal: [owl, magpie]
  include:
    - color: blue
      animal: owl
    - color: pink
      animal: magpie
```

- A. 3 jobs
- B. 4 jobs
- C. 5 jobs
- D. 6 jobs

**Answer:** D

#### Explanation:

The matrix configuration specifies two variables: color and animal. The color variable has 2 values (green and pink), and the animal variable has 2 values (owl and magpie). This would result in 4 combinations (2 color values ?? 2 animal values). Additionally, the include section introduces two more combinations (color: blue and animal: owl; color: pink and animal: magpie).

#### NEW QUESTION 10

GitHub-hosted runners support which capabilities? (Choose two.)

- A. automatic patching of both the runner and the underlying OS
- B. automatic file-system caching between workflow runs
- C. support for Linux, Windows, and mac
- D. support for a variety of Linux variations including CentOS, Fedora, and Debian
- E. requiring a payment mechanism (e.g., credit card) to use for private repositories

**Answer:** CD

#### Explanation:

GitHub-hosted runners automatically handle patching, meaning they will be kept up to date with the latest security updates and software patches for both the runner environment and the underlying operating system.

GitHub-hosted runners support Linux, Windows, and macOS, giving you flexibility to run workflows on different operating systems without needing to manage your own self-hosted runners.

#### NEW QUESTION 10

When creating and managing custom actions in an enterprise setting, which of the following is considered a best practice?

- A. creating a separate repository for each action so that the version can be managed independently
- B. creating a separate branch in application repositories that only contains the actions
- C. creating a single repository for all custom actions so that the versions for each action are all the same
- D. including custom actions that other teams need to reference in the same repository as application code

**Answer:** A

#### NEW QUESTION 15

Which of the following statements are true regarding the use of GitHub Actions on a GitHub Enterprise Server instance? (Choose three.)

- A. Use of GitHub Actions on GitHub Enterprise Server requires a persistent internet connection
- B. Actions created by GitHub are automatically available and cannot be disabled
- C. Most GitHub authored actions are automatically bundled for use on GitHub Enterprise Server
- D. Third party actions can be used on GitHub Enterprise Server by configuring GitHub Connect
- E. Actions must be defined in the .github repository
- F. Third party actions can be manually synchronized for use on GitHub Enterprise Server

**Answer:** ADF

#### NEW QUESTION 16

Which of the following is the best way for an enterprise to prevent certain marketplace actions from running?

- A. Create a list of the actions that are restricted from being used as an enterprise polic
- B. Every other action can be run.
- C. It is not possible; if an action is in the marketplace, its use cannot be restricted.
- D. Create a list that is maintained as a . yml file in a . github repository specified in the enterpris
- E. Only these actions can be run.
- F. Create a list of the actions that are allowed to run as an enterprise polic
- G. Only these actions can be run.

**Answer:** D

#### NEW QUESTION 21

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

**Answer:** BD

#### NEW QUESTION 23

What are the advantages of using a matrix strategy in a job definition? (Choose two.)

- A. It can test code in multiple versions of a programming language.
- B. It can decrease the costs for running multiple combinations of programming language/operating systems.
- C. It can run up to 512 jobs per workflow run.
- D. It can test code in multiple operating systems.

**Answer:** AD

#### Explanation:

A matrix strategy allows you to define different versions of a programming language (or any other environment setting) and run tests on each version simultaneously. This is particularly useful for testing code compatibility across different versions of a language.

A matrix strategy can also be used to test code on multiple operating systems (e.g., Windows, macOS, Linux) by defining these operating systems as matrix variables. This enables cross-platform testing within the same workflow.

#### NEW QUESTION 24

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