# GitHub-Actions Valid Test Practice - GitHub-Actions Latest Exam Practice



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# **GitHub GitHub-Actions Exam Syllabus Topics:**

Topic	Details
Topic 1	Automate development tasks by using GitHub Actions: This section of the exam measures the skills of DevOps Engineers and covers the fundamentals of GitHub Actions. It focuses on understanding action types, planning automation workflows, and creating container actions. One skill to be measured is creating workflows triggered by repository events.
Topic 2	Build continuous integration (CI) workflows by using GitHub Actions: This section of the exam measures the skills of Software Engineers and covers essential features for building robust CI workflows. It emphasizes building and testing projects, debugging failed tests, and customizing workflows. A skill to be measured is troubleshooting CI pipelines using GitHub Actions logs.
Topic 3	Build and deploy applications to Azure by using GitHub Actions: This section of the exam covers deploying applications to Azure using GitHub Actions. It focuses on continuous delivery workflows, environment protections, and Azure resource management.
Topic 4	Leverage GitHub Actions to publish to GitHub Packages: This section of the exam measures the skills of Software Engineers and Package Managers and covers the use of GitHub Actions for publishing to GitHub Packages. It focuses on setting up CI workflows for package publishing and authentication. One skill to be measured is configuring workflows to publish to package registries.
Topic 5	Create and publish custom GitHub actions: This section of the exam measures the skills of Software Engineers and covers the creation and publication of custom GitHub actions.

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## GitHub Actions Certificate Exam Sample Questions (Q38-Q43):

#### **NEW QUESTION #38**

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

#### Answer: A

#### Explanation:

Creating a separate repository for each custom action allows you to manage the versioning independently for each action. This approach provides flexibility, as each action can be updated, tested, and versioned separately, avoiding potential conflicts or dependencies between different actions.

#### **NEW QUESTION #39**

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

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

#### Answer: D,E

#### 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 #40**

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

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

#### Answer: C,D

#### 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 #41**

Based on the YAML below, which two statements are correct? (Choose two.)

```
build:
  runs-on: ubuntu-latest
    - uses: actions/checkout@v2
    - uses: actions/setup-node@v1
      with:
       node-version: 12
    - run: npm ci
    - run: npm test
publish-npm:
 needs: build
  runs-on: ubuntu-latest
  steps:
    - uses: actions/checkout@v2
    - uses: actions/setup-node@v1
      with:
       node-version: 12
    - run: npm ci
    uses: JS-DevTools/npm-publish@v1
      with:
        token: ${{ secrets.NPM TOKEN }}
```

- A. The workflow job publish-npm will only run after the build job passes.
- B. This workflow file is using a matrix strategy.
- C. This workflow will publish a package to an npm registry.
- D. This workflow will publish a package to GitHub Packages.

#### Answer: A,C

### Explanation:

The publish-npm job includes the JS-DevTools/npm-publish action, which is used to publish an npm package to an npm registry. The publish-npm job has the needs: build directive, meaning it will only run after the build job successfully completes.

#### **NEW QUESTION #42**

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:

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.

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.

#### **NEW QUESTION #43**

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