



Microsoft

Exam Questions GH-200

GitHub Actions Exam

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NEW QUESTION 1

A. Scheduled workflows run on the:

- A. latest commit and branch on which the workflow was triggered,
- B. latest commit from the branch named schedule,
- C. latest commit from the branch named main,
- D. specified commit and branch from the workflow YAML file,
- E. latest commit on the default or base branch

Answer: A

NEW QUESTION 2

What will the output be for the following event trigger block in a workflow?

```
on:
  issues:
    types: [opened, edited]
  issue_comment:
    types:
      - created
```

- A. It throws a workflow syntax error, pointing to the types definition in issue_comment event.
- B. It throws a workflow syntax error, pointing to the types definition in issues event.
- C. It runs the workflow when an issue is edited or when an issue comment created.
- D. It runs the workflow when an issue or issue comment in the workflow's repository is created or modified.
- E. It runs the workflow when an issue is created or edited, or when an issue or pull request comment is created.

Answer: C

NEW QUESTION 3

As a developer, you need to integrate a GitHub Actions workflow with a third-party code quality provider that uses the Checks API. How should you trigger a follow-up workflow?

- A. Add the workflow_run webhook event as a trigger for the workflow for the code quality integration name
- B. Add the check_run webhook event as a trigger for the workflow when the code quality integration is completed
- C. Add the pull_request webhook event as a trigger for the workflow when the code quality integration is synchronized
- D. Add the deployment webhook event as a trigger for the workflow when the code quality integration is completed

Answer: B

NEW QUESTION 4

You are reaching your organization's storage limit for GitHub artifacts and packages. What should you do to prevent the storage limit from being reached? (Choose two.)

- A. Delete artifacts from the repositories manually
- B. Disable branch protections in the repository.
- C. Use self-hosted runners for all workflow runs.
- D. Configure the artifact and log retention period.
- E. Configure the repo to use Git Large File Storage.

Answer: AD

Explanation:

Deleting artifacts from repositories manually will free up storage space. Artifacts are typically stored for a limited time by default, but manual cleanup can help manage space.

Configuring the artifact and log retention period allows you to control how long artifacts and logs are retained in your repository. By shortening the retention period, you can prevent unnecessary accumulation of data and manage storage more effectively.

NEW QUESTION 5

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 6

What are the two types of environment protection rules you can configure? (Choose two.)

- A. required reviewers
- B. branch protections
- C. wait timer
- D. artifact storage

Answer: AC

NEW QUESTION 7

As a developer, you need to make sure that only actions from trusted sources are available for use in your GitHub Enterprise Cloud organization. Which of the following statements are true? (Choose three.)

- A. Specific actions can individually be enabled for the organization, including version information.
- B. GitHub-verified actions can be collectively enabled for use in the enterprise.
- C. Actions can be restricted to only those available in the enterprise.
- D. Actions created by GitHub are automatically enabled and cannot be disabled.
- E. Individual third-party actions enabled with a specific tag will prevent updated versions of the action from introducing vulnerabilities.
- F. Actions can be published to an internal marketplace.

Answer: ABF

Explanation:

You can enable specific actions for the organization by identifying them and providing version control, ensuring only trusted versions are used in workflows. GitHub-verified actions can be enabled at the enterprise level, providing an extra layer of security by ensuring that only trusted actions are available to workflows. Actions can be published to an internal marketplace, allowing organizations to share reusable actions securely within their enterprise without exposing them to the public.

NEW QUESTION 8

What is the smallest scope for an environment variable?

- A. the workflow settings
- B. a step
- C. a job
- D. the workflow env mapping

Answer: B

Explanation:

The smallest scope for an environment variable is within a step . Environment variables defined within a step are only accessible to that particular step, which makes it the smallest scope for a variable in a GitHub Actions workflow.

NEW QUESTION 9

Which syntax correctly accesses a job output (output1) of an upstream job (job1) from a dependent job within a workflow?

- A. `${{needs.job1.outputs.output1}}`
- B. `${{needs.job1.output1}}`
- C. `${{depends.job1.output1}}`
- D. `${{job1.outputs.output1}}`

Answer: A

NEW QUESTION 10

As a developer, you want to review the step that caused a workflow failure and the failed step's build logs. First navigate to the main page of the repository on GitHub. Which section contains the step failure information?

- A. Insights
- B. Code
- C. Actions
- D. Pull requests
- E. Issues

Answer: C

NEW QUESTION 10

As a developer, your self-hosted runner sometimes loses connection while running jobs. How should you troubleshoot the issue affecting your self-hosted runner?

- A. Set the DEBUG environment variable to true before starting the self-hosted runner to produce more verbose console output.
- B. Locate the self-hosted runner in your repository's settings page and download its log archive.
- C. Access the self-hosted runner's installation directory and look for log files in the `_diag` folder.
- D. Start the self-hosted runner with the `--debug` flag to produce more verbose console output.

Answer: C

NEW QUESTION 11

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

What is the right method to ensure users approve a workflow before the next step proceeds?

- A. creating a branch protection rule and only allow certain users access
- B. granting users workflow approval permissions
- C. adding users as required reviewers for an environment
- D. granting users repository approval permissions

Answer: C

Explanation:

GitHub Actions allows you to configure environment protection rules, where you can require specific users or teams to approve the deployment before the workflow proceeds to the next step. This ensures that the required reviewers approve the workflow before any sensitive actions (such as deployment) occur.

NEW QUESTION 20

In which locations can actions be referenced by workflows? (Choose three.)

- A. a separate public repository
- B. an .action extension file in the repository
- C. the same repository as the workflow
- D. a published Docker container image on Docker Hub
- E. the runs-on: keyword of a workflow file
- F. the repository's Secrets settings page
- G. a public NPM registry

Answer: ACD

NEW QUESTION 23

You need to create new workflows to deploy to an unfamiliar cloud provider. What is the fastest and safest way to begin?

- A. Create a custom action to wrap the cloud provider's CLI.
- B. Search GitHub Marketplace for verified actions published by the cloud provider.
- C. Use the actions/jenkins-plugin action to utilize an existing Jenkins plugin for the cloud provider.
- D. Search GitHub Marketplace for actions created by GitHub.
- E. Download the CLI for the cloud provider and review the associated documentation.

Answer: B

NEW QUESTION 24

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

- A. Set the encrypted secret as a job-level environment variable and then reference the environment variable within the conditional statement.
- B. Create a job dependency that exposes the encrypted secret as a job output, which can then be leveraged in a subsequent dependent job.
- C. Use the secrets context within the conditional statement, e.
- D. `${{ secrets.MySuperSecret }}`.
- E. 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.

Answer: C

NEW QUESTION 25

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 30

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 34

As a developer, you are using a Docker container action in your workflow. What is required for the action to run successfully?

- A. The job env must be set to a Linux environment.
- B. The job runs-on must specify a Linux machine with Docker installed.
- C. The referenced action must be hosted on Docker Hub.
- D. The action must be published to the GitHub Marketplace.

Answer: B

Explanation:

For a Docker container action to run in a GitHub Actions workflow, the runner must have Docker installed. The runs-on attribute of the job should specify an environment that supports Docker, typically a Linux environment (e.g., ubuntu-latest), since Docker is widely supported and commonly used in Linux-based environments.

NEW QUESTION 37

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