

Microsoft

Exam Questions GH-200

GitHub Actions Exam



NEW QUESTION 1

As a developer, what is the safest way to reference an action to prevent modification of the underlying code?

- A. Use a commit hash.
- B. Use a branch name.
- C. Use a patch release tag.
- D. Use a major release tag.

Answer: A

Explanation:

Using a commit hash is the safest method because it references a specific point in time in the repository's history. This ensures that the action is locked to that exact version and will not be affected by any future changes or modifications to the codebase. Even if the action is updated later, your workflow will continue using the specific commit you referenced.

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

When reviewing an action for use, what file defines its available inputs and outputs?

- A. inputs.yml
- B. config.json
- C. defaults.json
- D. workflow.yml
- E. action.yml

Answer: E

NEW QUESTION 5

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 6

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 7

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 8

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 9

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 10

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 10

Your organization is managing secrets using GitHub encrypted secrets, including a secret named SuperSecret. As a developer, you need to create a version of that secret that contains a different value for use in a workflow that is scoped to a specific repository named MyRepo. How should you store the secret to access your specific version within your workflow?

- A. Create a duplicate entry for SuperSecret in the encrypted secret store and specify MyRepo as the scope.
- B. Create MyRepo_SuperSecret in GitHub encrypted secrets to specify the scope to MyRepo.
- C. Create a file with the SuperSecret
- D. information in the .qithub/secrets folder in MyRepo.
- E. Create and access SuperSecret from the secrets store in MyRepo.

Answer: B

NEW QUESTION 15

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.

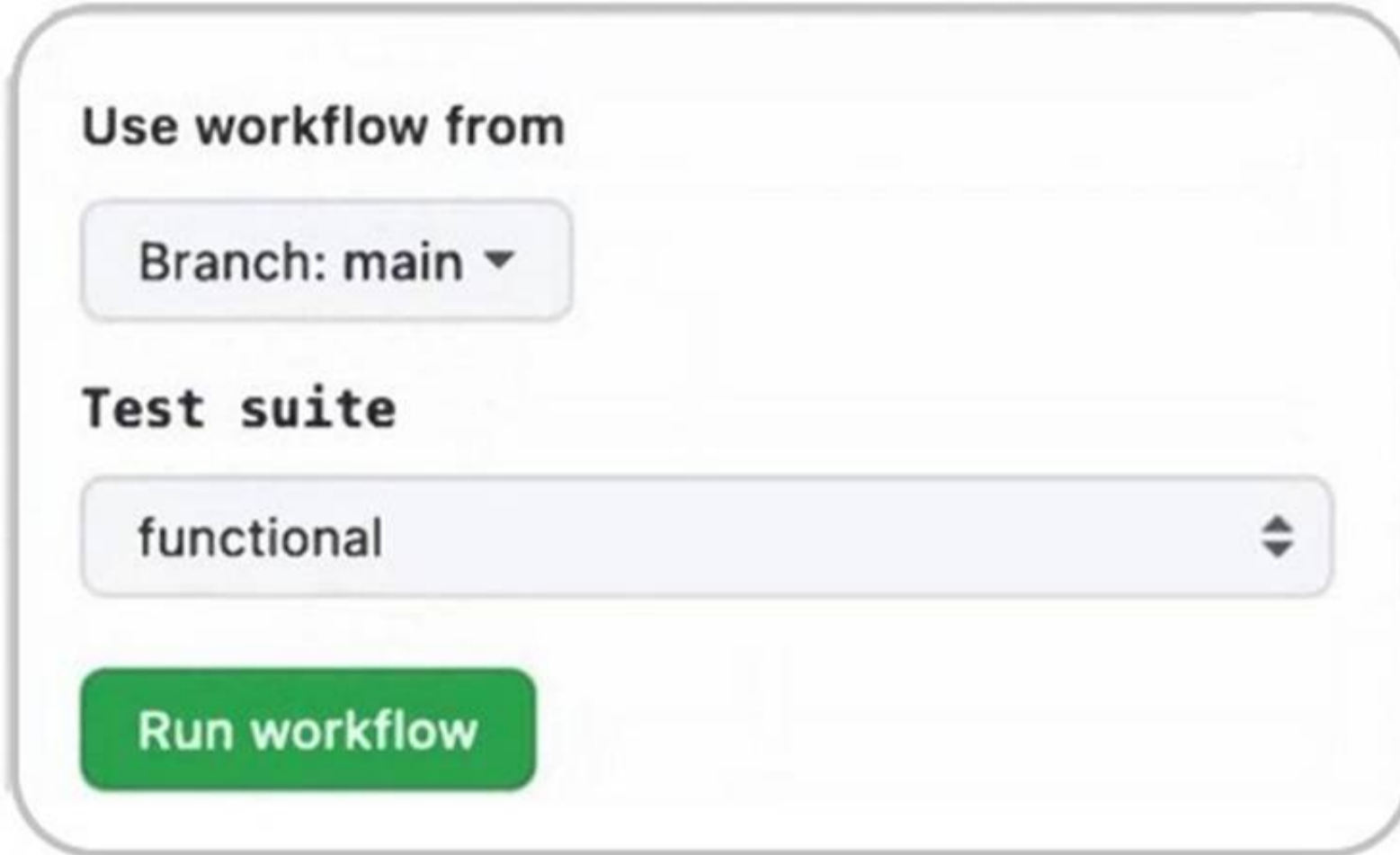
Answer: ABF

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 18

As a developer, you want to run a workflow from the Actions tab in GitHub. Which YAML snippet should you use to match the interface in this image?



A)

```
on:
  workflow_dispatch:
    inputs:
      test_suite:
        description: Test suite
        type: choice
        options:
          - functional
          - regression
```

B)

```
on:
  workflow_run:
    inputs:
      test_suite:
        description: Test suite
        type: string
        options:
          - functional
          - regression
```

C)

```
on:
  workflow_dispatch:
    inputs:
      test_suite:
        description: Test suite
        type: choice
        value: functional
        options:
          - regression
```

D)

```
on:
  workflow_run:
    inputs:
      test_suite:
        description: Test suite
        type: choice
        options:
          - functional
          - regression
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

NEW QUESTION 20

In which scenarios could the GITHUB_TOKEN be used? (Choose two.)

- A. to leverage a self-hosted runner
- B. to create a repository secret
- C. to publish to GitHub Packages
- D. to create issues in the repo
- E. to read from the file system on the runner
- F. to add a member to an organization

Answer: CD

NEW QUESTION 23

How should you install the bats NPM package in your workflow?

A)

```
jobs:
  example-job:
    steps:
      - npm install -g bats
```

B)

```
jobs:
  steps:
    - run: npm install -g bats
```

C)

```
jobs:
  runs-on: ubuntu-latest
  - run: npm install -g bats
```

D)

```
jobs:
  example-job:
    runs-on: ubuntu-latest
    steps:
      - run: npm install -g bats
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D

Explanation:

The correct syntax includes specifying the job (example-job), the runner (ubuntu-latest), and the necessary step (npm install -g bats) within the workflow. This ensures that the package is installed properly during the execution of the job.

NEW QUESTION 28

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 30

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 35

Which workflow event is used to manually trigger a workflow run?

- A. create
- B. workflow_dispatch
- C. workflow_run
- D. status

Answer: B

NEW QUESTION 37

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 39

You are a developer, and your container jobs are failing on a self-hosted runner. Which requirements must you check to ensure that the self-hosted runner is properly configured? (Choose two.)

- A. The self-hosted runner is running a Linux operating system.
- B. The self-hosted runner is running a Windows operating system.
- C. Docker is installed on the self-hosted runner.
- D. Kubernetes is installed on the self-hosted runner.
- E. The service status of Kubernetes is "active".

Answer: AC

NEW QUESTION 42

What can be used to set a failed status of an action from its code?

- A. @actions/github toolkit
- B. JavaScript dist/ folder
- C. Dockerfile CMD
- D. a non-zero exit code
- E. output variable
- F. composite run step

Answer: D

Explanation:

A non-zero exit code is used to set the status of an action to " failed " in GitHub Actions. When the action ' s script or code exits with a non-zero status, it indicates failure, and GitHub will mark the action as failed.

NEW QUESTION 45

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 46

Which scopes are available to define custom environment variables within a workflow file? (Choose three.)

- A. the entire workflow, by using env at the top level of the workflow file
- B. all jobs being run on a single Actions runner, by using runner.env at the top of the workflow file
- C. the entire stage, by using env at the top of the defined build stage
- D. within the run attribute of a job step
- E. the contents of a job within a workflow, by using jobs.<job_id>.env
- F. a specific step within a job, by using jobs.<job_id>.steps[*].env

Answer: ADF

NEW QUESTION 47

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 policy
- 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 enterprise
- E. Only these actions can be run.
- F. Create a list of the actions that are allowed to run as an enterprise policy
- G. Only these actions can be run.

Answer: D

NEW QUESTION 48

Which action type should be used to bundle a series of run steps into a reusable custom action?

- A. Composite action
- B. Bash script action
- C. Docker container action
- D. JavaScript action

Answer: A

Explanation:

A composite action allows you to bundle multiple steps into a single reusable action within a workflow. It is composed of multiple run steps or other actions and can be reused across workflows, making it the perfect choice for bundling a series of steps.

NEW QUESTION 49

Which choices represent best practices for publishing actions so that they can be consumed reliably? (Choose two.)

- A. repo name
- B. tag
- C. commit SHA
- D. organization name
- E. default branch

Answer: BC

NEW QUESTION 52

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 57

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 60

Which default environment variable specifies the branch or tag that triggered a workflow?

- A. GITHUB_TAG
- B. GITHUB_REF
- C. ENV_BRANCH
- D. GITHUB_BRANCH

Answer: B

NEW QUESTION 61

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?

- A. via the .github repository owned by the organization
- B. via repositories owned by the organization
- C. via the GitHub Marketplace
- D. via a repository owned by a third party

Answer: B

NEW QUESTION 64

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