

Microsoft

Exam Questions GH-200

GitHub Actions Exam



NEW QUESTION 1

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

Answer: CE

NEW QUESTION 2

Where should workflow files be stored to be triggered by events in a repository?

- A. .github/workflows/
- B. .github/actions/
- C. Nowhere; they must be attached to an act on in the GitHub user interface
- D. anywhere
- E. .workflows/

Answer: A

NEW QUESTION 3

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 4

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 5

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 6

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 7

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 8

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 9

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 10

As a developer, what options should you recommend to implement standards for automation reuse? (Choose two.)

- A. Create workflow templates and store them in the organization's .github repository.
- B. Create reusable actions and workflows that can be called from other workflows.
- C. Create a marketplace partition to publish reusable automation for the company.
- D. Store shared corporate actions in subfolders in a defined and documented internally accessible repository.

Answer: AB

NEW QUESTION 10

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 12

What is the minimal syntax for declaring an output named foo for an action?

A)

```
outputs:
  foo:
    description: Some value
```

B)

```
outputs:
  - key: foo
    description: Some value
```

C)

```
outputs:
  foo:
    value: Some value
```

D)

```
outputs:
  - key: foo
    value: Some value
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: C**NEW QUESTION 15**

As a DevOps engineer developing a JavaScript action, you need to include annotations to pass warning messages to workflow runners. Which code snippet can you use to implement an annotation in your Actions?

As a DevOps engineer developing a JavaScript action, you need to include annotations to pass warning messages to workflow runners. Which code snippet can you use to implement an annotation in your Actions?

- A. `core.info('Something went wrong, but it's not bad enough to fail the build.')`
- B. `core.notice('Something went wrong, but it's not bad enough to fail the build.')`
- C. `core.warning('Something went wrong, but it's not bad enough to fail the build.')`
- D. `core.warn('Something went wrong, but it's not bad enough to fail the build.')`

Answer: C**NEW QUESTION 17**

As a developer, you have a 10-MB data set that is required in a specific workflow. Which steps should you perform so the dataset is stored encrypted and can be decrypted during the workflow? (Choose three.)

- A. Encrypt the dataset.
- B. Leverage the actions/download-secret action in the workflow.
- C. Store the dataset in a GitHub encrypted secret.
- D. Store the encryption keys in a GitHub encrypted secret.
- E. Compress the dataset
- F. Commit the encrypted dataset to the same repository as the workflow
- G. Create a GitHub encrypted secret with the Large object option selected and upload the dataset.

Answer: ACD**NEW QUESTION 21**

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 22

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 24

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 26

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 28

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 31

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 35

As a developer, you are designing a workflow and need to communicate with the runner machine to set environment variables, output values used by other actions, add debug messages to the output logs, and other tasks. Which of the following options should you use?

- A. environment variables
- B. workflow commands
- C. self-hosted runners
- D. enable debug logging E composite run step

Answer: B

Explanation:

Workflow commands are special commands that allow you to interact with the runner, set environment variables, output values, add debug messages, and perform

other tasks within the workflow. These commands are used to modify the environment or influence the behavior of the GitHub Actions runner.

NEW QUESTION 37

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 38

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 theenterpris
- 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 40

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 43

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 48

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

```
jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - 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. This workflow will publish a package to an npm registry.
- B. This workflow will publish a package to GitHub Packages.
- C. This workflow file is using a matrix strategy.
- D. The workflow job publish-npm will only run after the build job passes.

Answer: AD

NEW QUESTION 53

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 54

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

- A. action.js
- B. index.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 55

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 58

As a developer, how can you identify a Docker container action on GitHub?

- A. The action's repository includes @actions/core in the root directory.
- B. The action's repository name includes the keyword "Docker."
- C. The action.yml metadata file references a Dockerfile file.
- D. The action.yml metadata file has the runs.using value set to Docker.

Answer: D

NEW QUESTION 62

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 63

Which workflow command would output the debug message "action successfully debugged"?

- A. echo :debug::message=action successfully debugged"
- B. echo "debug-action successfully debugged"
- C. echo "::debug::action successfully debugged"
- D. echo ":debug:action successfully debugged:"

Answer: C

NEW QUESTION 64

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 67

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