

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 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 9

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

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 10

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?

Use workflow from

Branch: main ▼

Test suite

functional

Run workflow

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 14**

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 19**

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 21

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 25

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 26

Disabling a workflow allows you to stop a workflow from being triggered without having to delete the file from the repo. In which scenarios would temporarily disabling a workflow be most useful? (Choose two.)

- A. A workflow sends requests to a service that is down.
- B. A workflow error produces too many, or wrong, requests, impacting external services negatively.
- C. A workflow is configured to run on self-hosted runners
- D. A workflow needs to be changed from running on a schedule to a manual trigger
- E. A runner needs to have diagnostic logging enabled.

Answer: AB

NEW QUESTION 29

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 34

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 36

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 39

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 44

Which workflow commands send information from the runner? (Choose two.)

- A. reading from environment variables
- B. setting a debug message
- C. populating variables in a Dockerfile
- D. setting output parameters

Answer: BD

NEW QUESTION 45

A development team has been using a Powershell script to compile and package their solution using existing tools on a Linux VM, which has been configured as a self-hosted runner. They would like to use the script as-is in an automated workflow. Which of the following should they do to invoke their script within a workflow step?

- A. Configure a self-hosted runner on Windows with the requested tools.
- B. Use the YAML powershell: step.
- C. Run the pwsh2bash command to convert the script so it can be run on Linux.
- D. Use the YAML shell: pwsh in a run step.
- E. Use the actions/run-powershell action to invoke the script.

Answer: D

Explanation:

Since the self-hosted runner is configured on a Linux VM and the script is written in PowerShell, you can invoke the script using the pwsh (PowerShell Core) shell in a run step in the workflow. This ensures that the script runs as-is on the Linux runner, as PowerShell Core (pwsh) is cross-platform and supports Linux.

NEW QUESTION 48

You installed specific software on a Linux self-hosted runner. You have users with workflows that need to be able to select the runner based on the identified custom software. Which steps should you perform to prepare the runner and your users to run these workflows? (Choose two.)

- A. Create the group custom-software-on-linux and move the runner into the group.
- B. Inform users to identify the runner based on the group.
- C. Add the label custom-software to the runner.
- D. Configure the webhook and network to enable GitHub to trigger workflow.
- E. Add the label linux to the runner.

Answer: BC

NEW QUESTION 53

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 57

You need to trigger a workflow using the GitHub API for activity that happens outside of GitHub. Which workflow event do you use?

- A. check_suite
- B. workflow_run
- C. deployment
- D. repository_dispatch

Answer: D

Explanation:

The repository_dispatch event allows you to trigger a workflow in response to external activity. It is commonly used when you need to trigger a workflow from outside GitHub, such as from another system or service, by sending a request to the GitHub API. This event provides flexibility to integrate with various external systems and trigger workflows in a GitHub repository.

NEW QUESTION 61

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

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 65

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 70

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