



Microsoft

Exam Questions GH-200

GitHub Actions Exam

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NEW QUESTION 1

You need to make a script to retrieve workflow run logs via the API. Which is the correct API to download a workflow run log?

- A. POST /repos/:owner/:repo/actions/runs/:run_id
- B. GET /repos/:owner/:repo/actions/artifacts/logs
- C. GET /repos/:owner/:repo/actions/runs/:run_id/logs
- D. POST /repos/:owner/:repo/actions/runs/:run_id/logs

Answer: C

NEW QUESTION 2

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 3

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 4

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 5

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 6

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 7

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 8

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 9

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 10

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 10

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 13

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 15

As a developer, you need to create a custom action written in Python. Which action type should you choose?
As a developer, you need to create a custom action written in Python. Which action type should you choose?

- A. JavaScript action

- B. composite run step
- C. Python action
- D. Docker container action

Answer: D

NEW QUESTION 18

Your organization needs to simplify reusing and maintaining automation in your GitHub Enterprise Cloud. Which components can be directly reused across all repositories in an organization? (Choose three.)

- A. self-hosted runners
- B. actions stored in private repositories in the organization
- C. encrypted secrets
- D. custom Docker actions stored in GitHub Container Registry
- E. actions stored in an organizational partition in the GitHub Marketplace
- F. workflow templates

Answer: BCF

NEW QUESTION 23

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 28

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 29

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