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Question 1

Question Type: MultipleChoice

Which default GitHub environment variable indicates the owner and repository name?

Options:

- A- REPOSITORY NAME
- B- GITHUB REPOSITORY
- C- ENV REPOSITORY
- D- GITHUB WORKFLOW REPO



Answer:

A

Explanation:

The GITHUB_REPOSITORY environment variable contains the owner and repository name in the format owner/repository. It is automatically provided by GitHub Actions and can be used to reference the repository in workflows.

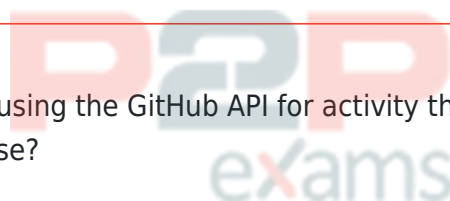
Question 2

Question Type: MultipleChoice

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

Options:

- 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.

Question 3

Question Type: MultipleChoice

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.)

Options:

- 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:

A, B, F

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.

Question 4

Question Type: MultipleChoice

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? (Select three.)

Options:

- 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:

A, C, D

Explanation:

First, the dataset should be encrypted before being stored. This ensures that the data is protected when stored in a repository.

The encrypted dataset can be stored in a GitHub secret, ensuring it is securely kept and not exposed publicly.

The encryption key needed to decrypt the dataset should also be stored in a GitHub secret to maintain security during the workflow, allowing access only when needed.

Question 5

Question Type: MultipleChoice

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?

Options:

- 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.

Question 6

Question Type: MultipleChoice

Which default GitHub environment variable indicates the name of the person or app that initiated a workflow?



Options:

- A- ENV_ACTOR
- B- GITHUB_WORKFLOW_ACTOR
- C- GITHUB_ACTOR
- D- GITHUB_USER

Answer:

C

Explanation:

The GITHUB_ACTOR environment variable indicates the name of the person or app that initiated the workflow. This variable is automatically provided by GitHub in the workflow and can be used to identify the user or application triggering the workflow.

Question 7

Question Type: MultipleChoice

Which option best commands will set the \$FOO environment variable within a script, so that it may be used in subsequent workflow job steps?

Options:

- A- run: echo '::set-env name=FOO::bar'
- B- run: echo 'FOO=bar' >> \$GITHUB_ENV
- C- run: echo \${{ \$FOO=bar }}
- D- run: export FOO=bar

Answer:

B

Explanation:

The \$GITHUB_ENV environment variable is used to set environment variables that persist across steps in a workflow job. By echoing FOO=bar into \$GITHUB_ENV, the variable FOO will be available in subsequent steps within the same job.

Question 8

Question Type: MultipleChoice

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.)

Options:

- 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:

B, C, F



Explanation:

Actions stored in private repositories within the organization can be reused across all repositories by referencing them in workflows. This ensures a centralized way of maintaining custom actions.

Encrypted secrets can be accessed across repositories in the same organization, making it easy to store sensitive data (like API keys or tokens) securely while allowing multiple workflows to access them.

Workflow templates allow you to create reusable templates for workflows that can be shared across repositories within the organization. This makes it easier to standardize processes and automate them across multiple projects.

Question 9

Question Type: MultipleChoice

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



Options:

- 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:

A, C, D

Explanation:

Actions can be stored in a separate public repository and referenced in workflows by specifying the repository and action name.

Actions can also be stored in the same repository as the workflow and referenced directly by their path (e.g., `./github/actions/my-action`).

Actions can be packaged as Docker container images and published to Docker Hub. These can then be referenced in workflows by specifying the Docker image.



Question 10

Question Type: MultipleChoice

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 }}
```

Options:

- 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:

A, D

Explanation:

The publish-npm job includes the JS-DevTools/npm-publish action, which is used to publish an npm package to an npm registry.

The publish-npm job has the needs: build directive, meaning it will only run after the build job successfully completes.

Question 11

Question Type: MultipleChoice

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
```

Options:

- 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.

Question 12

Question Type: MultipleChoice

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

Options:

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

Answer:

A

Explanation:

The needs context is used to reference the outputs of jobs that are dependencies of the current job. In this case, `needs.job1.outputs.output1` correctly accesses the output of `output1` from the job `job1` in the dependent job.

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