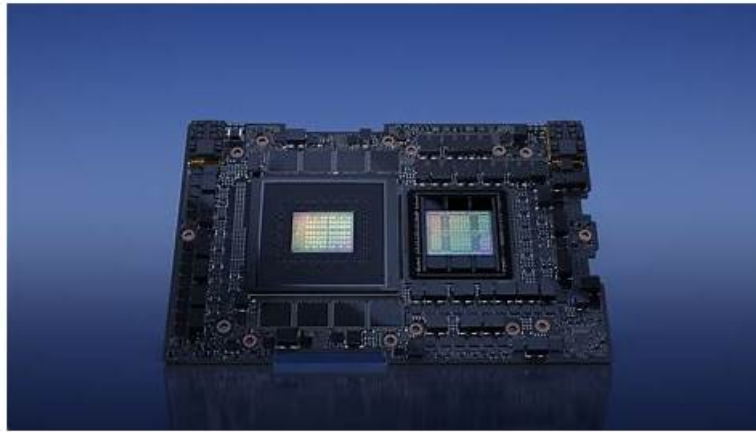


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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Author and Maintain Actions: This domain evaluates the abilities of Action Developers and Automation Engineers to select and create suitable types of GitHub Actions, such as JavaScript, Docker containers, or run steps. It emphasizes troubleshooting action code, understanding the components and file structures of actions, and using workflow commands within actions to communicate with runners, including exit code management.
Topic 2	<ul style="list-style-type: none">• Manage GitHub Actions in the Enterprise: This section measures the expertise of Enterprise Administrators and Platform Engineers in distributing and managing GitHub Actions and workflows at the organizational level. It includes reuse and sharing of templates, strategies for managing reusable components via repositories and naming conventions, controlling access to actions, setting organization-wide usage policies, and planning maintenance to ensure efficient enterprise-wide deployment of GitHub Actions.
Topic 3	<ul style="list-style-type: none">• Author and Maintain Workflows: This section of the exam measures skills of DevOps Engineers and Automation Specialists and covers building and managing workflows triggered by events such as pushes, scheduled times, manual triggers, and webhooks. It includes understanding workflow components like jobs, steps, actions, and runners, syntax correctness, environment variables, secrets management, and dependencies between jobs. Candidates will also demonstrate practical abilities to create workflows for various purposes, including publishing packages, using service containers, routing jobs, and deploying releases to cloud providers.
Topic 4	<ul style="list-style-type: none">• Consume Workflows: This domain targets Software Developers and Quality Assurance Engineers and focuses on interpreting workflow runs and their outcomes. It covers identifying triggering events, reading workflow configurations, troubleshooting failures by analyzing logs, enabling debug logging, managing environment variables, caching dependencies, and passing data between jobs. Candidates also manage workflow runs, artifacts, approvals, and status badges, as well as locating workflows within repositories and leveraging organizational templated workflows.

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Microsoft GitHub Actions Sample Questions (Q96-Q101):

NEW QUESTION # 96

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? (Each correct answer presents a complete solution. Choose two.)

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

Answer: A,C

Explanation:

[B] Using a corporate secret store like HashiCorp Vault provides a secure, centralized location for sensitive information. GitHub Actions can then retrieve and store the token securely during deployment by setting it as an environment variable, ensuring the token remains secure and accessible at runtime.

[C] Storing the token as an organizational-level encrypted secret in GitHub ensures it is accessible across multiple repositories, minimizing management overhead. GitHub Actions can then use this secret during deployment by setting it as an environment variable, allowing the microservice to access it securely at runtime.

NEW QUESTION # 97

As a developer, which of the following snippets will enable you to run the commands `npm ci` and `npm run build` as part of a workflow?

- A. - shell: |
npm ci
npm run build
- B. - shell:
npm ci
npm run build
- C. - run: |
npm ci
npm run build
- D. - run: |
npm ci
npm run build
shell: nodejs
- E. - run:

```
npm ci
npm run build
```

Answer: C

Explanation:

Use the run: keyword only, not the shell keyword.

Use the special character |.

Note: There are two ways to run commands one after another on Github Actions.

Reference:

<https://stackoverflow.com/questions/71047777/how-to-run-two-commands-on-github-actions-instance-one-after-another>

NEW QUESTION # 98

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 enterprise level.
- B. The Codespace secret doesn't match the expected value.
- C. There is a different value specified at the repo level.
- D. The Encrypt Secret setting was not configured for the secret.
- E. There is a different value specified at the workflow level.

Answer: C

Explanation:

GitHub secrets are defined at different levels: organization, repository, and sometimes at the workflow level. If a secret is defined at both the organization level and the repository level, the repository-level secret will take precedence. So, if the value of the secret differs between these levels, the workflow will use the value from the repository level instead of the organization level.

NEW QUESTION # 99

As a developer, which workflow steps should you perform to publish an image to the GitHub Container Registry? (Each correct answer represents part of the solution. Choose three).

- A. Build the container image.
- B. Authenticate to the GitHub Container Registry.
- C. Use the actions/setup-docker action.
- D. Push the image to the GitHub Container Registry.
- E. Pull the image from the GitHub Container Registry.

Answer: A,B,D

Explanation:

Publishing Docker images

The below workflow checks out the GitHub repository, uses the login-action to log in to the registry [B], and then uses the build-push-action action to: build a Docker image based on your repository's Dockerfile [E]; push the image to Docker Hub [A], and apply a tag to the image.

Note:

This workflow uses actions that are not certified by GitHub.

They are provided by a third-party and are governed by

separate terms of service, privacy policy, and support

documentation.

GitHub recommends pinning actions to a commit SHA.

To get a newer version, you will need to update the SHA.

You can also reference a tag or branch, but the action may change without warning.

Reference:

<https://docs.github.com/en/actions/tutorials/publish-packages/publish-docker-images>

NEW QUESTION # 100

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. ☐
- B. ☐
- C. ☐
- D. ☐

Answer: B

Explanation:

The first image shows a workflow trigger with an option for the test suite, and the chosen YAML configuration matches this interface. Specifically, the test suite input is defined with `type: choice` and includes the option `value: functional`, which aligns with the visible UI elements in the first image.

NEW QUESTION # 101

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