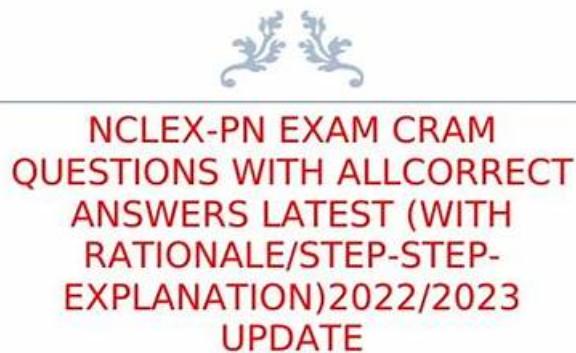


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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 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 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 (Q18-Q23):

NEW QUESTION # 18

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

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

Answer: B

Explanation:

The ::debug: syntax is used to output debug messages in GitHub Actions workflows. This command will print the message "action successfully debugged" in the debug logs when the workflow runs.

NEW QUESTION # 19

When reviewing an action for use, what file defines its available inputs and outputs?

- A. defaults.json
- B. config.json
- C. action.yml**
- D. inputs.yml
- E. workflow.yml

Answer: C

Explanation:

A custom GitHub Action's inputs, outputs, and other configurations are defined in its metadata file, which must be named action.yml

or `action.yaml` and placed at the root of the action's repository. This YAML file specifies how the action runs (e.g., using Docker or JavaScript) and provides the metadata for its inputs and outputs, which are then used by workflows that call the action.

Key aspects of the `action.yml` or `action.yaml` file

Format: It uses YAML syntax.

Location: It must be in the root directory of your action's repository.

Contents: It defines the action's name, description, inputs, outputs, and the runs configuration to specify the execution environment (like a Docker image or JavaScript file) and entrypoint.

Inputs and Outputs: The file includes inputs and outputs sections to declare the data the action accepts and produces, respectively.

Reference:

<https://docs.github.com/en/actions/reference/workflows-and-actions/metadata-syntax>

NEW QUESTION # 20

Which of the following scenarios requires a developer to explicitly use the `GITHUB_TOKEN` or `github.token` secret within a workflow? (Choose two.)

- A. checking out source code with the `actions/checkout@v3` action
- B. making an authenticated GitHub API request
- C. passing the `GITHUB_TOKEN` secret to an action that requires a token as an input
- D. assigning non-default permissions to the `GITHUB_TOKEN`

Answer: B,C

Explanation:

[A] Some actions may require a `GITHUB_TOKEN` as an input to authenticate and perform specific tasks, such as creating issues, commenting on pull requests, or interacting with the GitHub API. In such cases, you would need to explicitly pass the token to the action.

[B] When making an authenticated GitHub API request, the `GITHUB_TOKEN` is required to authenticate the request. This token is automatically provided by GitHub in the workflow, and it must be explicitly used when interacting with the GitHub API.

Note: You can use the `GITHUB_TOKEN` to make authenticated API calls. This example workflow creates an issue using the GitHub REST API:

Reference:

https://docs.github.com/en/actions/tutorials/authenticate-with-github_token

NEW QUESTION # 21

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

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

Answer: A,D

Explanation:

Creating workflow templates in the organization's `.github` repository allows the organization to standardize workflows and make them easily reusable across multiple repositories. This ensures consistency and simplifies maintenance.

Creating reusable actions and workflows that can be called from other workflows helps modularize and standardize automation tasks. These reusable components can be maintained centrally and called from different workflows across repositories.

NEW QUESTION # 22

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

- A. `REPOSITORY_NAME`
- B. `GITHUB_WORKFLOW_REPO`
- C. `ENV_REPOSITORY`
- D. `GITHUB_REPOSITORY`

Answer: D

Explanation:

Variables reference

Find information for supported variables, naming conventions, limits, and contexts in GitHub Actions workflows.

Variables include:

* GITHUB_REPOSITORY

The owner and repository name. For example, octocat/Hello-World

* Etc.

Reference:

<https://docs.github.com/en/actions/reference/workflows-and-actions/variables>

NEW QUESTION # 23

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