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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">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.
Topic 3	<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 4	<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.

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Microsoft GitHub Actions Sample Questions (Q53-Q58):

NEW QUESTION # 53

In GitHub Actions, where should you declare custom environment variables so they are accessible across all jobs and steps in a single workflow run?

- A. Environment secrets
- B. Runner command line arguments
- C. Repository variables
- D. Set env in the workflow YAML

Answer: D

Explanation:

The correct option is Set env in the workflow YAML because defining environment variables at the top level of a workflow makes them available to every job and step in that single run.

In a workflow file you can declare a top level mapping for environment variables with key value pairs. This top level scope propagates the values to all jobs and steps in the run and you can override them at job or step scope when necessary. This is the most direct way to share non secret configuration across the entire workflow execution.

NEW QUESTION # 54

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 service status of Kubernetes is "active".
- B. The self-hosted runner is running a Linux operating system.
- C. Docker is installed on the self-hosted runner.
- D. The self-hosted runner is running a Windows operating system.
- E. Kubernetes is installed on the self-hosted runner.

Answer: B,C

Explanation:

While Docker can run on various operating systems, Linux is often the most common and preferred OS for containerized workloads. Docker works well on Linux and is a widely-used platform for running containers.

For container jobs to run on a self-hosted runner, Docker must be installed and properly configured on the runner. Docker is required to build and run containerized workloads in a GitHub Actions workflow.

NEW QUESTION # 55

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? (Each correct answer presents part of the solution. Choose two.)

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

Answer: A,D

Explanation:

[F] Add a label for the custom software as required.

Note: Using labels with self-hosted runners

You can use labels to organize your self-hosted runners based on their characteristics.

Creating a custom label

You can create custom labels for runners at the repository and organization levels.

[C, not D] Linux is a default label and does not have to be created to be used.

Reference:

<https://docs.github.com/en/actions/how-tos/manage-runners/self-hosted-runners/apply-labels>

NEW QUESTION # 56

You need to create new workflows to deploy to an unfamiliar cloud provider. What is the fastest and safest way to begin?

- A. Search GitHub Marketplace for actions created by GitHub.
- B. Use the `actions/jenkins-plugin` action to utilize an existing Jenkins plugin for the cloud provider.
- C. Download the CLI for the cloud provider and review the associated documentation.
- D. Create a custom action to wrap the cloud provider's CLI.
- E. Search GitHub Marketplace for verified actions published by the cloud provider.

Answer: E

Explanation:

Searching the GitHub Marketplace for verified actions published by the cloud provider is the quickest and safest approach. Many cloud providers offer verified GitHub Actions that are maintained and optimized to interact with their services. These actions typically come with the correct configurations and best practices, allowing you to get started quickly without reinventing the wheel.

NEW QUESTION # 57

Which files are required for a Docker container action in addition to the source code? (Choose two.)

- A. `Actionfile`
- B. `metadata.yml`
- C. `action.yml`
- D. `Dockerfile`

Answer: C,D

Explanation:

`Dockerfile`: The `Dockerfile` is required for Docker container actions. It defines the environment for the action, specifying the base image, dependencies, and any commands to set up the action's runtime inside the container.

`action.yml`: The `action.yml` file is required for all GitHub Actions, including Docker container actions. It contains metadata about the action, including the inputs, outputs, and the runtime environment (which in this case is Docker, defined under `runs.using`).

NEW QUESTION # 58

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