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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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 4	• 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.

Microsoft GitHub Actions Sample Questions (Q13-Q18):

NEW QUESTION # 13

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?

- A. via repositories owned by the organization
- B. via the .github repository owned by the organization
- C. via the GitHub Marketplace
- D. via a repository owned by a third party

Answer: A

Explanation:

To prevent reaching the storage limit for GitHub artifacts and packages, you should manage and clean up artifacts and packages stored in repositories owned by your organization. This includes deleting unnecessary artifacts and managing the lifecycle of packages, as they contribute directly to your organization's storage quota.

NEW QUESTION # 14

Which step is using the dbserver environment variable correctly?

- A. steps:
 - name: Hello world
 - run: echo \$dbserver
 - env:
 - dbserver: orgserver1
- B. steps:
 - name: Hello world
 - run: echo \$dbserver
 - environment:
 - dbserver: orgserver1
- C. steps:
 - name: Hello world
 - run: echo \$dbserver
 - env:
 - name: dbserver
 - value: orgserver1
- D. steps:

```
- name: Hello world
run: echo $dbserver
variables:
dbserver: orgserver1
```

Answer: A

Explanation:

Store information in variables

GitHub sets default variables for each GitHub Actions workflow run. You can also set custom variables for use in a single workflow or multiple workflows.

Defining environment variables for a single workflow

To set a custom environment variable for a single workflow, you can define it using the `env` key in the workflow file. The scope of a custom variable set by this method is limited to the element in which it is defined. You can define variables that are scoped for:

The entire workflow, by using `env` at the top level of the workflow file.

The contents of a job within a workflow, by using `jobs.<job_id>.env`.

A specific step within a job, by using `jobs.<job_id>.steps[*].env`.

Reference:

<https://docs.github.com/en/actions/how-to/write-workflows/choose-what-workflows-do/use-variables>

NEW QUESTION # 15

A workflow that had been working now stalls in a waiting state until failing. The workflow file `process-ml.yaml` has not changed and contains jobs specifying `runs-on: [gpu]`. Which of the following steps would troubleshoot the issue? (Each answer presents a complete solution.

Choose two.)

- A. Rotate the `GITHUB_TOKEN` secret for the appropriate runners.
- **B. Review the contents of the `Runner_*.log` files in the `_diag` folder.**
- C. Increase the usage limits for the GitHub-hosted runners.
- D. Check the "Set up job" step for the logs of the last successful run to determine the runner.
- **E. Update the org settings to enable GPU-based GitHub-hosted runners.**

Answer: B,E

Explanation:

Monitoring and troubleshooting self-hosted runners

You can monitor your self-hosted runners to view their activity and diagnose common issues.

[A] Reviewing the self-hosted runner application log files

You can monitor the status of the self-hosted runner application and its activities. Log files are kept in the `_diag` directory where you installed the runner application, and a new log is generated each time the application is started. The filename begins with `Runner_`, and is followed by a UTC timestamp of when the application was started.

[D] You can choose one of the standard GitHub-hosted runner options or, if you are on the GitHub Team or GitHub Enterprise Cloud plan, you can provision a runner with more cores, or a runner that's powered by a GPU processor. These machines are referred to as "larger runner." Reference:

<https://docs.github.com/en/actions/how-to/manage-runners/self-hosted-runners/monitor-and-troubleshoot>

<https://docs.github.com/en/actions/concepts/runners/github-hosted-runners>

NEW QUESTION # 16

How should you print a debug message in your workflow?

- A. `echo "::add-mask::Set variable myVariable to true"`
- B. `echo "debug_message=Set variable myVariable to true" >> &GITHUB_OUTPUT`
- **C. `echo "::debug::Set variable myVariable to true"`**
- D. `echo "Set variable MyVariable to true" >> $DEBUG_MESSAGE`

Answer: C

Explanation:

Example: Setting a debug message

echo "::debug::Set the Octocat variable"

Reference:

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

NEW QUESTION # 17

What is the simplest action type to run a shell script?

- A. Bash script action
- **B. JavaScript action**
- C. Docker container action
- D. Composite action

Answer: B

Explanation:

Types of actions

Docker container actions. Docker containers package the environment with the GitHub Actions code. ...

JavaScript actions. JavaScript actions can run directly on a runner machine, and separate the action code from the environment used to run the code. ...

Composite Actions.

Note:

JavaScript actions

JavaScript actions can run directly on a runner machine, and separate the action code from the environment used to run the code.

Using a JavaScript action simplifies the action code and executes faster than a Docker container action.

Reference:

<https://docs.github.com/en/actions/concepts/workflows-and-actions/custom-actions>

NEW QUESTION # 18

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