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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> • 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"> • 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.

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Microsoft GitHub Actions Sample Questions (Q37-Q42):

NEW QUESTION # 37

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

Answer: C

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 # 38

Which run: command will set a step's output?

- A. run: echo "MY_OUTPUT=foo">>> \$GITHUB_OUTPUT
- B. run: echo "::set-env name=MY OUTPUT::foo"
- C. run: echo \${{ \$GITHUB_OUTPUT=foo }}
- D. run: export MY_OUTPUT=foo

Answer: A

Explanation:

The \$GITHUB_OUTPUT file is used to pass data from one step to another in GitHub Actions. The echo command appends the key-value pair to this file, which sets the output variable (MY_OUTPUT) for the current step.

NEW QUESTION # 39

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

Answer: A,D

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 # 40

Which of the following statements are true regarding the use of GitHub Actions on a GitHub Enterprise Server instance? (Choose three.)

- A. Third party actions can be manually synchronized for use on GitHub Enterprise Server
- B. Actions must be defined in the .github repository
- C. Actions created by GitHub are automatically available and cannot be disabled
- D. Use of GitHub Actions on GitHub Enterprise Server requires a persistent internet connection
- E. Most GitHub authored actions are automatically bundled for use on GitHub Enterprise Server
- F. Third party actions can be used on GitHub Enterprise Server by configuring GitHub Connect

Answer: A,D,F

Explanation:

GitHub Actions on GitHub Enterprise Server often requires an internet connection, especially for accessing actions from the GitHub Marketplace or third-party actions unless they are manually synced to the server.

To use third-party actions on GitHub Enterprise Server, GitHub Connect can be used to establish a connection between the server and GitHub.com, enabling access to third-party actions.

Third-party actions can also be manually synchronized to the GitHub Enterprise Server, making them available for use in workflows.

NEW QUESTION # 41

As a developer, how can you identify a composite action on GitHub?

- A. The action.yml metadata file has the runs.using value set to composite.
- B. The action's repository includes Dockerfile and package.json files.

- Answer: A**

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

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