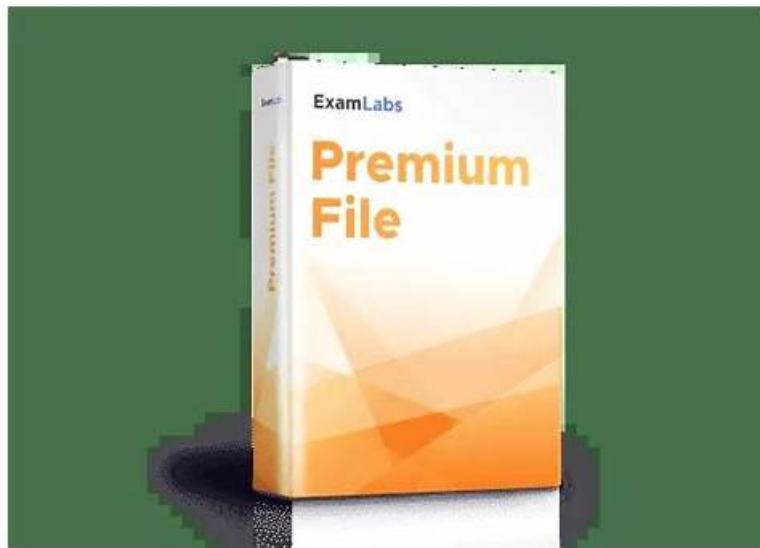


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The FreePdfDump is a revolutionary platform for professionals and students looking to pass the Prepare for your GitHub Actions (GH-200) exam and advance their careers. Our mission is to provide a comprehensive, convenient, and cost-effective preparation material for individuals to prepare for the GH-200 Certification Exam.

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">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	<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 (Q63-Q68):

NEW QUESTION # 63

You need to trigger a workflow using the GitHub API for activity that happens outside of GitHub.
Which workflow event do you use?

- A. deployment
- B. **repository_dispatch**
- C. workflow_run
- D. check_suite

Answer: B

Explanation:

You can use the GitHub API to trigger a webhook event called repository_dispatch when you want to trigger a workflow for activity that happens outside of GitHub .

Reference:

<https://docs.github.com/en/actions/reference/workflows-and-actions/events-that-trigger-workflows>

NEW QUESTION # 64

GitHub-hosted runners support which capabilities? (Each correct answer presents a complete solution. Choose two.)

- A. **support for Linux, Windows, and macOS**
- B. automatic file-system caching between workflow runs
- C. **automatic patching of both the runner and the underlying OS**
- D. support for a variety of Linux variations including CentOS, Fedora, and Debian
- E. requiring a payment mechanism (e.g., credit card) to use for private repositories

Answer: A,C

Explanation:

[A, not B] Each GitHub-hosted runner is a new virtual machine (VM) hosted by GitHub with the runner application and other tools preinstalled, and is available with Ubuntu Linux, Windows, or macOS operating systems.

[E] When you use a GitHub-hosted runner, machine maintenance and upgrades are taken care of for you.

Reference:

<https://docs.github.com/en/enterprise-server@3.17/actions/concepts/runners/github-hosted-runners>

NEW QUESTION # 65

An organization's policies specify only local actions are allowed. How should actions be distributed for this organization?

- 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:

Local GitHub Actions refer to two concepts: custom actions developed within your own repository and the process of running any GitHub Action locally on your machine for faster testing and debugging.

1. Local Actions (within your repository)

Definition:

These are custom actions that you define and store directly in your repository under the `.github/actions/` directory. They are not publicly shared, unlike actions from the GitHub Marketplace.

Purpose:

They are used for project-specific, repetitive tasks that you want to reuse within your workflows without publishing them globally.

How it works:

You can call these local actions in your workflow files as if they were standard published actions.

2. Running Actions Locally (on your development machine)

Note:

Pinned repositories

You can give users easy access to important or frequently used repositories, by choosing up to six repositories for public users and six repositories for members of the organization. Once you pin repositories to your organization profile, the "Pinned" section is shown above the

"Repositories" section of the profile page.

Reference:

<https://dev.to/codenamegrant/supercharging-your-workflows-with-local-github-actions-2o23>

<https://docs.github.com/en/organizations/collaborating-with-groups-in-organizations/customizing-your-organizations-profile>

NEW QUESTION # 66

As a developer, one of your workflows will require XCode version 11.2 hosted on macOS Catalina (i.e., v10.15). You've already created and configured a self-hosted runner to conform to those requirements and registered it with your organization. What else should you do to ensure that the workflow accesses the correct runner instance? (Each answer presents a complete solution. Choose three.)

- A. Create runner groups named macos-10.15 and xcode-11.2.
- B. In the workflow, specify:
`runs-on: [self-hosted, macos-10.15, xcode-11.2].`
- C. Assign the custom labels to the self-hosted runner.
- D. Create custom runner labels for macos-10.15 and xcode-11.2.
- E. In the workflow, specify:
`runs-on: [${groups.macos-10.15}], ${groups.xcode-11.2}].`
- F. Add your runner to the appropriate runner groups.

Answer: B,C,D

Explanation:

[C, F] Using custom labels to route jobs

You can create custom labels and assign them to your self-hosted runners at any time. Custom labels let you send jobs to particular types of self-hosted runners, based on how they're labeled.

[E] Using default labels to route jobs

A self-hosted runner automatically receives certain labels when it is added to GitHub Actions.

These are used to indicate its operating system and hardware platform:

self-hosted: Default label applied to self-hosted runners.

linux, windows, or macOS: Applied depending on operating system

x64, ARM, or ARM64: Applied depending on hardware architecture.

You can use your workflow's YAML to send jobs to a combination of these labels. In this example, a self-hosted runner that matches all three labels will be eligible to run the job:

`runs-on: [self-hosted, linux, ARM64]`

self-hosted - Run this job on a self-hosted runner.

linux - Only use a Linux-based runner.

ARM64 - Only use a runner based on ARM64 hardware.

Reference:

<https://docs.github.com/en/actions/how-tos/manage-runners/self-hosted-runners/use-in-a-workflow>

NEW QUESTION # 67

Disabling a workflow allows you to stop a workflow from being triggered without having to delete the file from the repo. In which scenarios would temporarily disabling a workflow be most useful?

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

- A runner needs to have diagnostic logging enabled.
- A workflow needs to be changed from running on a schedule to a manual trigger.
- C. A workflow is configured to run on self-hosted runners.
- D. A workflow error produces too many, or wrong, requests, impacting external services negatively.
- E. A workflow sends requests to a service that is down.

Answer: D,E

Explanation:

Temporarily disabling a workflow can be useful in many scenarios. These are a few examples where disabling a workflow might be helpful:

[B] A workflow error that produces too many or wrong requests, impacting external services negatively.

A workflow that is not critical and is consuming too many minutes on your account.

[D] A workflow that sends requests to a service that is down.

Workflows on a forked repository that aren't needed (for example, scheduled workflows).

Reference:

<https://docs.github.com/en/actions/how-tos/manage-workflow-runs/disable-and-enable-workflows>

NEW QUESTION # 68

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