Free Questions for GitHub-Foundations

Shared by Hale on 04-10-2024

Question 1

Workflows can reference actions in:

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

Options:

A- Any public repository.

B- The same repository as your workflow file.

C- GitHub Packages.

D- An enterprise marketplace.

E- A published Docker container image on Docker Hub.

Answer:

A, B, E

Explanation:

In GitHub Actions workflows, actions can be referenced from various sources depending on the needs of the workflow.

Any Public Repository:

Option A is correct. Actions can be referenced from any public GitHub repository, allowing the reuse of shared actions across multiple projects.

The Same Repository as Your Workflow File:

Option B is correct. Actions stored in the same repository as the workflow file can be referenced directly, which is common for custom actions specific to that project.

A Published Docker Container Image on Docker Hub:

Option E is correct. Workflows can reference actions that are provided as Docker container images hosted on Docker Hub, allowing integration of complex tools and environments.

Incorrect Options:

Option C (GitHub Packages) is incorrect as it is more commonly used for storing and managing dependencies, not actions.

Option D (An enterprise marketplace) is incorrect because GitHub Actions are not directly referenced from an enterprise marketplace but rather from public repositories or Docker images.

GitHub Docs: Reusing Workflows

Question 2

Which of the following are available statuses of a pull request?

(Each answer presents a complete solution. Choose four.)

Options:

A- Draft

B- Closed

C- Rebasing

D- Merged

E- Modified

F- Open

Answer:

A, B, D, F

Explanation:

Pull requests (PRs) on GitHub can have several statuses that indicate their current state in the development and review process:

Draft:

Option A is correct. A pull request can be in a 'Draft' status, indicating that it is a work in progress and not yet ready for review.

Closed:

Option B is correct. A pull request can be 'Closed' without being merged, which might happen if the proposed changes are not needed or are incorporated differently.

Merged:

Option D is correct. A pull request that has been reviewed and approved can be 'Merged' into the target branch, indicating that the changes have been successfully incorporated.

Open:

Option F is correct. An 'Open' pull request is one that is active and awaiting review or further action.

Incorrect Options:

Option C (Rebasing) is incorrect because 'Rebasing' is not a status; it's an operation that can be performed on branches.

Option E (Modified) is incorrect because there is no 'Modified' status for pull requests.

GitHub Docs: About Pull Requests

Question 3

Which of the following two-factor authentication (2FA) methods can you use to secure a GitHub account?

(Each answer presents a complete solution. Choose three.)

Options:

A- Authenticator app

B- Security questions

C- GitHub mobile

D- Security keys

E- Single sign-on

Answer:

A, C, D

Explanation:

The following two-factor authentication (2FA) methods can be used to secure a GitHub account:

A . Authenticator app: You can use an authenticator app (like Google Authenticator or Authy) to generate time-based one-time passwords (TOTP) for logging in.

C . GitHub mobile: The GitHub mobile app can also be used to receive 2FA codes, adding convenience for users who prefer to manage everything from their mobile devices.

D . Security keys: Physical security keys (such as YubiKeys) can be used as a strong form of 2FA, requiring physical access to the key to authenticate.

Security questions and Single sign-on (SSO) are not considered 2FA methods in the context of GitHub account security.

Question 4

Question Type: **MultipleChoice**

As a GitHub user, where in the UI can you configure two-factor authentication (2FA) to further secure your account?

Options:

A- Profile -> Account -> 2FA

B- Repository Settings -> Secrets and Variables -> 2FA

C- Organization Settings -> Authentication Security -> 2FA

D- Settings -> Password and Authentication -> 2FA

Answer:

D

Explanation:

As a GitHub user, you can configure two-factor authentication (2FA) to secure your account by navigating to Settings -> Password and Authentication -> 2FA. This section in the GitHub user interface allows you to set up and manage your 2FA methods, which provide an additional layer of security beyond just your password.

Question 5

Question Type: MultipleChoice

How can a user highlight a post to the top of the Discussions page?

Options:

A- Save the discussion.

B- Pin the discussion.

C- Create an issue from the discussion.

D- Star the discussion.

Answer:

B

Explanation:

To highlight a post at the top of the Discussions page on GitHub, you can Pin the discussion. Pinning a discussion ensures it remains prominently visible at the top of the list, making it easier for others to find and participate in that discussion. This is particularly useful for important announcements or frequently referenced topics.

Question 6

Question Type: **MultipleChoice**

Which of the following is a primary goal of GitHub's community?

Options:

A- Exclusively supporting experienced developers

B- Creating a competitive environment for developers

C- Facilitating collaboration and creativity

D- Enforcing strict code quality standards

Answer:

C

Explanation:

GitHub's community is centered around enabling developers to collaborate and innovate together. The platform provides tools and environments that foster open communication, sharing of ideas, and collective problem-solving.

Facilitating Collaboration and Creativity:

Option C is correct because GitHub is designed to be a collaborative platform where developers can work together on projects, share code, and contribute to open source initiatives, all in an environment that encourages creativity.

Incorrect Options:

Option A is incorrect because GitHub is inclusive of developers of all skill levels, not just experienced ones.

Option B is incorrect because GitHub is not about creating a competitive environment; rather, it focuses on collaboration.

Option D is incorrect because while code quality is important, enforcing strict code quality standards is not the primary goal of the GitHub community.

GitHub Docs: Building a Strong Community

Question 7

Question Type: **MultipleChoice**

What are some scenarios that can automatically subscribe you to conversations on GitHub?

(Each answer presents a complete solution. Choose three.)

Options:

A- Pushing a commit to the default branch

B- Being added as a repo admin

C- Opening a pull request or issue

D- Commenting on a thread

E- Being assigned to an issue or pull request

Answer:

C, D, E

Explanation:

On GitHub, certain actions automatically subscribe you to conversations so that you receive notifications about further activity in that thread.

Opening a Pull Request or Issue:

Option C is correct because when you open a pull request or issue, you are automatically subscribed to the conversation and will receive notifications for any updates.

Commenting on a Thread:

Option D is correct because commenting on an issue or pull request automatically subscribes you to that thread, ensuring you are notified of further comments or changes.

Being Assigned to an Issue or Pull Request:

Option E is correct because when you are assigned to an issue or pull request, you are automatically subscribed to notifications related to it.

Incorrect Options:

Option A is incorrect because pushing a commit to the default branch does not automatically subscribe you to conversations.

Option B is incorrect because being added as a repo admin does not automatically subscribe you to specific conversations unless you engage with them.

GitHub Docs: Subscribing to Notifications

Question 8

Question Type: MultipleChoice

An employee needs to find all issues within organization "Avocado" containing text "404 error" and a "guacamole" label. Which of the following steps would be best to search for these results?

Options:

A- Enter query org:Avocado is:issue label:guacamole '404 error' in the search bar.

B- Go to 'Avocado' organization. Select Issues under a repository. Filter issues with a 'guacamole' label.

C- Enter query org:Avocado label:guacamole '404 error' in the search bar. Select 'Issues' in the Filter by section.

D- Go to the Avocado organization settings. Select Repository defaults under Repository. Scroll to Repository labels and select the 'guacamole' label.

Answer:

A

Explanation:

GitHub provides a powerful search syntax to filter and find specific issues across repositories in an organization.

Search Query Syntax:

Option A is correct because the query org:Avocado is:issue label:guacamole '404 error' is the best way to search for all issues within the 'Avocado' organization that contain the text '404 error' and are labeled with 'guacamole'. This query is precise and leverages GitHub's advanced search capabilities.

Incorrect Options:

Option B is incorrect because it requires manual filtering in a specific repository rather than searching across the entire organization.

Option C is incorrect because selecting 'Issues' in the filter by section is redundant when using the query is:issue.

Option D is incorrect because accessing organization settings to look for repository labels is not relevant to searching for issues.

GitHub Docs: Searching Issues and Pull Requests

Question 9

Question Type: **MultipleChoice**

What should be done to locate an existing action that was provided by a GitHub-approved vendor?

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

Options:

A- Create a new workflow file.

B- Search the vendor's website for a github.yaml index.

C- Confirm that the action has a verification badge.

D- Install the GitHub App that was provided by the vendor.

E- Add the vendor as an allowed Actions Source.

F- Search the GitHub Marketplace for Actions by the vendor.

Answer:

C, F

Explanation:

To locate an existing GitHub Action provided by a GitHub-approved vendor, you can use the following methods:

Verification Badge:

Option C is correct because actions provided by GitHub-approved vendors will typically have a verification badge. This badge indicates that the action is from a trusted source, giving users confidence in its security and reliability.

Search the GitHub Marketplace:

Option F is correct because GitHub Marketplace is the official location to find and install actions, including those provided by third-party vendors. You can search for actions by the vendor's name to find the specific one you need.

Incorrect Options:

Option A is not necessary to locate an existing action; creating a workflow file is for implementing the action, not locating it.

Option B is incorrect because searching the vendor's website for a github.yaml index is not a standard practice for finding actions.

Option D is incorrect because installing a GitHub App is unrelated to finding an existing action.

Option E is incorrect because adding a vendor as an allowed Actions Source is a configuration step for using the action, not for locating it.

GitHub Marketplace: Verified Actions