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Microsoft GH-900 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Introduction to Git and GitHub: This section of the exam measures skills of Junior Developers and Platform Support Specialists and covers the basic understanding of Git and GitHub. It explains what Git is and why it is used, the fundamental Git workflow, and concepts related to repositories including their local and remote distinctions. Candidates learn essential Git commands such as initializing and cloning repositories, adding and committing changes, pushing and pulling updates, and branching and merging. It also covers navigating GitHub by creating accounts, managing repositories, understanding its interface, and working with issues and pull requests.
Topic 2	<ul style="list-style-type: none">• Privacy, Security, and Administration: This domain measures skills of Security Administrators and Organization Managers in securing and administering GitHub environments. It covers ensuring repository security through branch protection rules, using security tools like Dependabot, managing access and permissions at repository and organization levels, creating and managing organizations, setting up organization-level security, and overseeing teams and members.
Topic 3	<ul style="list-style-type: none">• Modern Development: This domain assesses abilities of DevOps Engineers and Continuous Integration Specialists in implementing modern development practices. It emphasizes understanding DevOps principles and leveraging GitHub Actions for automation and CI• CD pipeline implementation. Candidates also learn GitHub's tools and best practices for conducting and managing code reviews.
Topic 4	<ul style="list-style-type: none">• Collaboration Features: This section measures skills of Software Engineers and Team Leads and covers collaborative workflows using GitHub. It includes forking repositories, creating and managing pull requests, reviewing and merging code changes, and using GitHub Actions to support CI• CD pipelines. Candidates also explore project management features such as creating and managing issues, using labels, milestones, and project boards, and tracking progress through GitHub Projects.

Topic 5	<ul style="list-style-type: none"> • Project Management: This section is designed for Project Coordinators and Product Managers and focuses on using GitHub Projects for project management. Candidates learn to create and manage GitHub Projects, utilize project boards for organizing tasks, and integrate project workflows with issues and pull requests to maintain project visibility and progress.
Topic 6	<ul style="list-style-type: none"> • Benefits of the GitHub Community: This section targets Community Managers and Open Source Contributors, focusing on engaging with the GitHub community. Candidates learn to participate in open source projects, utilize GitHub Discussions for collaboration and support, and contribute meaningfully to community-driven projects.

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GH-900 Certification Exam Dumps & GH-900 Authorized Certification

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Microsoft GitHub Foundations Sample Questions (Q122-Q127):

NEW QUESTION # 122

What is the minimum access needed to contribute to a repository?

- A. Read
- B. Maintain
- **C. Write**
- D. Triage

Answer: C

Explanation:

To contribute to a GitHub repository, a user typically needs to be able to create branches, push changes, and open pull requests. These actions require Write access, which is the minimum level of access needed to contribute code directly to a repository.

Write Access:

Option D is correct because "Write" access allows users to contribute to the repository by pushing changes, creating branches, and opening pull requests. This is the minimum required access level for contributing code.

Incorrect Options:

Option A (Read) is incorrect because "Read" access only allows viewing the repository, not making changes.

Option B (Triage) is incorrect because while Triage access allows managing issues and pull requests, it does not allow pushing code.

Option C (Maintain) is incorrect because "Maintain" access includes additional permissions beyond those needed for basic contributions, such as managing repository settings.

Reference:

GitHub Docs: Repository Roles for an Organization

NEW QUESTION # 123

What are the defining features of Git?

- A. Sequential version control, cloud-based hosting service, and being designed for collaboration on large projects
- B. Centralized version control, proprietary software, and being designed for small projects
- **C. Distributed version control, open source software, and being designed for handling projects of any size with efficiency**
- D. Low-cost local branching, convenient staging areas, multiple workflows, and being designed for managing small projects

Answer: C

Explanation:

Git is a widely-used version control system that has several defining features:

Distributed Version Control:

Git is a distributed version control system, meaning that every developer has a full copy of the entire repository, including its history, on their local machine. This enables greater flexibility, as work can be done offline and each user has access to the full project history.

Open Source Software:

Git is open-source, meaning its source code is freely available for use, modification, and distribution. This fosters a large community of users and contributors who continuously improve the software.

Efficiency with Large Projects:

Git is designed to handle projects of any size with speed and efficiency. It can manage large codebases and many contributors without significant performance degradation, making it suitable for everything from small personal projects to large, complex software systems.

NEW QUESTION # 124

What is a benefit of using GitHub Enterprise Cloud with Enterprise Managed Users (EMU)?

- A. It offers additional collaboration and content creation capabilities for managed user accounts.
- B. It automatically validates user interactions using the identity provider (IdP) conditional access policy (CAP).
- **C. It provides centralized control and streamlined management of user accounts through their identity provider (IdP).**
- D. It enables GitHub user accounts access to protected resources using SAML SSO.

Answer: C

Explanation:

GitHub Enterprise Cloud with Enterprise Managed Users (EMU) integrates closely with an organization's identity provider (IdP), such as Azure Active Directory, to manage user accounts.

The primary benefit of this setup is centralized control and streamlined management. It allows organizations to enforce policies, manage user permissions, and provision or deprovision accounts directly through their IdP, ensuring consistency and security across the organization.

This approach is ideal for large enterprises that require tight control over their users and resources.

NEW QUESTION # 125

How can a user choose to receive ongoing updates about a specific activity on GitHub.com?

- A. By automatically watching all repositories you have push access to
- B. By customizing the types of notifications you will receive in the future
- **C. By subscribing to notifications for all activity in a repository**
- D. By upgrading from a free to a paid account

Answer: C

Explanation:

On GitHub, you can choose to receive ongoing updates about specific activities by subscribing to notifications for all activity in a repository. This allows you to stay informed about all changes, discussions, and updates related to a particular project. Additionally, GitHub provides the ability to customize notifications to suit your preferences.

NEW QUESTION # 126

Which of the following statements most accurately describes secret gists?

- **A. Anyone with the URL for the gist can view the gist.**
- B. Users with assigned access can view the gist.
- C. Secret gists require GitHub Enterprise.
- D. Anyone can see the gist from the gist Discover page.

Answer: A

Explanation:

Secret gists on GitHub are "unlisted" gists, meaning they are not publicly discoverable but can be viewed by anyone who has the URL.

