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On the basis of the current social background and development prospect, the GH-500 certifications have gradually become accepted prerequisites to stand out the most in the workplace. As far as we know, in the advanced development of electronic technology, lifelong learning has become more accessible, which means everyone has opportunities to achieve their own value and life dream. Our GH-500 Exam Materials are pleased to serve you as such an exam tool. You will have a better future with our GH-500 study braindumps!

Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	• Configure and use Dependabot and Dependency Review: Focused on Software Engineers and Vulnerability Management Specialists, this section describes tools for managing vulnerabilities in dependencies. Candidates learn about the dependency graph and how it is generated, the concept and format of the Software Bill of Materials (SBOM), definitions of dependency vulnerabilities, Dependabot alerts and security updates, and Dependency Review functionality. It covers how alerts are generated based on the dependency graph and GitHub Advisory Database, differences between Dependabot and Dependency Review, enabling and configuring these tools in private repositories and organizations, default alert settings, required permissions, creating Dependabot configuration files and rules to auto-dismiss alerts, setting up Dependency Review workflows including license checks and severity thresholds, configuring notifications, identifying vulnerabilities from alerts and pull requests, enabling security updates, and taking remediation actions including testing and merging pull requests.

Topic 2	• Configure and use Code Scanning with CodeQL: This domain measures skills of Application Security Analysts and DevSecOps Engineers in code scanning using both CodeQL and third-party tools. It covers enabling code scanning, the role of code scanning in the development lifecycle, differences between enabling CodeQL versus third-party analysis, implementing CodeQL in GitHub Actions workflows versus other CI tools, uploading SARIF results, configuring workflow frequency and triggering events, editing workflow templates for active repositories, viewing CodeQL scan results, troubleshooting workflow failures and customizing configurations, analyzing data flows through code, interpreting code scanning alerts with linked documentation, deciding when to dismiss alerts, understanding CodeQL limitations related to compilation and language support, and defining SARIF categories.
Topic 3	• Describe the GHAS security features and functionality: This section of the exam measures skills of Security Engineers and Software Developers and covers understanding the role of GitHub Advanced Security (GHAS) features within the overall security ecosystem. Candidates learn to differentiate security features available automatically for open source projects versus those unlocked when GHAS is paired with GitHub Enterprise Cloud (GHEC) or GitHub Enterprise Server (GHES). The domain includes knowledge of Security Overview dashboards, the distinctions between secret scanning and code scanning, and how secret scanning, code scanning, and Dependabot work together to secure the software development lifecycle. It also covers scenarios contrasting isolated security reviews with integrated security throughout the development lifecycle, how vulnerable dependencies are detected using manifests and vulnerability databases, appropriate responses to alerts, the risks of ignoring alerts, developer responsibilities for alerts, access management for viewing alerts, and the placement of Dependabot alerts in the development process.
Topic 4	• Configure and use secret scanning: This domain targets DevOps Engineers and Security Analysts with the skills to configure and manage secret scanning. It includes understanding what secret scanning is and its push protection capability to prevent secret leaks. Candidates differentiate secret scanning availability in public versus private repositories, enable scanning in private repos, and learn how to respond appropriately to alerts. The domain covers alert generation criteria for secrets, user role-based alert visibility and notification, customizing default scanning behavior, assigning alert recipients beyond admins, excluding files from scans, and enabling custom secret scanning within repositories.
Topic 5	• Describe GitHub Advanced Security best practices, results, and how to take corrective measures: This section evaluates skills of Security Managers and Development Team Leads in effectively handling GHAS results and applying best practices. It includes using Common Vulnerabilities and Exposures (CVE) and Common Weakness Enumeration (CWE) identifiers to describe alerts and suggest remediation, decision-making processes for closing or dismissing alerts including documentation and data-based decisions, understanding default CodeQL query suites, how CodeQL analyzes compiled versus interpreted languages, the roles and responsibilities of development and security teams in workflows, adjusting severity thresholds for code scanning pull request status checks, prioritizing secret scanning remediation with filters, enforcing CodeQL and Dependency Review workflows via repository rulesets, and configuring code scanning, secret scanning, and dependency analysis to detect and remediate vulnerabilities earlier in the development lifecycle, such as during pull requests or by enabling push protection.

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Microsoft GitHub Advanced Security Sample Questions (Q31-Q36):

NEW QUESTION # 31

A dependency has a known vulnerability. What does the warning message include?

- A. An easily understandable visualization of dependency change
- **B. A brief description of the vulnerability**
- C. The security impact of these changes
- D. How many projects use these components

Answer: B

Explanation:

When a vulnerability is detected, GitHub shows a warning that includes a brief description of the vulnerability. This typically covers the name of the CVE (if available), a short summary of the issue, severity level, and potential impact. The message also links to additional advisory data from the GitHub Advisory Database.

This helps developers understand the context and urgency of the vulnerability before applying the fix.

NEW QUESTION # 32

When using the advanced CodeQL code scanning setup, what is the name of the workflow file?

- A. codeql-workflow.yml
- B. codeql-scan.yml
- **C. codeql-analysis.yml**
- D. codeql-config.yml

Answer: C

Explanation:

Comprehensive and Detailed Explanation:

In the advanced setup for CodeQL code scanning, GitHub generates a workflow file named codeql-analysis.yml. This file is located in the .github/workflows directory of your repository. It defines the configuration for the CodeQL analysis, including the languages to analyze, the events that trigger the analysis, and the steps to perform during the workflow.

NEW QUESTION # 33

A repository's dependency graph includes:

- **A. Dependencies parsed from a repository's manifest and lock files.**
- B. Dependencies from all your repositories.
- C. A summary of the dependencies used in your organization's repositories.
- D. Annotated code scanning alerts from your repository's dependencies.

Answer: A

Explanation:

The dependency graph in a repository is built by parsing manifest and lock files (like package.json, pom.xml, requirements.txt). It helps GitHub detect dependencies and cross-reference them with known vulnerability databases for alerting.

It is specific to each repository and does not show org-wide or cross-repo summaries.

NEW QUESTION # 34

Assuming that no custom Dependabot behavior is configured, who has the ability to merge a pull request created via Dependabot security updates?

- **A. A user who has write access to the repository**
- B. A user who has read access to the repository
- C. An enterprise administrator
- D. A repository member of an enterprise organization

Answer: A

Explanation:

Comprehensive and Detailed Explanation:

By default, users with write access to a repository have the ability to merge pull requests, including those created by Dependabot for

security updates. This access level allows contributors to manage and integrate changes, ensuring that vulnerabilities are addressed promptly.

Users with only read access cannot merge pull requests, and enterprise administrators do not automatically have merge rights unless they have write or higher permissions on the specific repository.

NEW QUESTION # 35

Which of the following statements best describes secret scanning push protection?

- A. Secret scanning alerts must be closed before a branch can be merged into the repository.
- B. Buttons for sensitive actions in the GitHub UI are disabled.
- C. **Commits that contain secrets are blocked before code is added to the repository.**
- D. Users need to reply to a 2FA challenge before any push events.

Answer: C

Explanation:

Comprehensive and Detailed Explanation:

Secret scanning push protection is a proactive feature that scans for secrets in your code during the push process. If a secret is detected, the push is blocked, preventing the secret from being added to the repository. This helps prevent accidental exposure of sensitive information.

GitHub Docs

NEW QUESTION # 36

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