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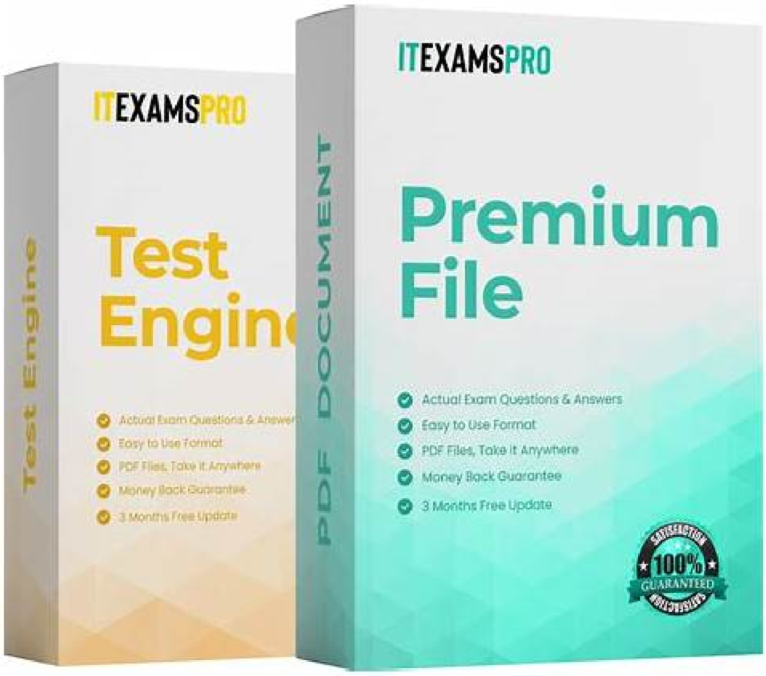

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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	- 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.
Topic 3	- 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 4	- 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 5	- 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.

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Microsoft GitHub Advanced Security Sample Questions (Q63-Q68):

NEW QUESTION # 63
Which of the following features helps to prioritize secret scanning alerts that present an immediate risk?

- A. Secret validation
- B. Non-provider patterns
- C. Push protection
- D. Custom pattern dry runs

Answer: A

Explanation:
Secret validation checks whether a secret found in your repository is still valid and active with the issuing provider (e.g., AWS, GitHub, Stripe). If a secret is confirmed to be active, the alert is marked as verified, which means it's considered a high-priority issue because it presents an immediate security risk.
This helps teams respond faster to valid, exploitable secrets rather than wasting time on expired or fake tokens.

NEW QUESTION # 64
Which alerts do you see in the repository's Security tab? (Each answer presents part of the solution. Choose three.)

- A. Secret scanning alerts
- B. Security status alerts
- C. Code scanning alerts
- D. Repository permissions
- E. Dependabot alerts

Answer: A,C,E

Explanation:
In a repository's Security tab, you can view:
Secret scanning alerts: Exposed credentials or tokens
Dependabot alerts: Vulnerable dependencies from the advisory database
Code scanning alerts: Vulnerabilities in code detected via static analysis (e.g., CodeQL) You won't see general "security status alerts" (not a formal category) or permission-related alerts here.

NEW QUESTION # 65
Who can fix a code scanning alert on a private repository?

- A. Users who have Read permissions within the repository
- B. Users who have Write access to the repository
- C. Users who have the security manager role within the repository
- D. Users who have the Triage role within the repository

Answer: B

Explanation:
Comprehensive and Detailed Explanation:
In private repositories, users with write access can fix code scanning alerts. They can do this by committing changes that address the issues identified by the code scanning tools. This level of access ensures that only trusted contributors can modify the code to resolve potential security vulnerabilities.
GitHub Docs
Users with read or triage roles do not have the necessary permissions to make code changes, and the security manager role is primarily focused on managing security settings rather than directly modifying code.
Reference:
GitHub Docs

NEW QUESTION # 66
Which syntax in a query suite tells CodeQL to look for one or more specified .ql files?

- A. query
- B. qls
- C. qlpack

Answer: A

Explanation:
In a query suite (a .qls file), the **query** key is used to specify the paths to one or more .ql files that should be included in the suite.
Example:
- query: path/to/query.ql
qls is the file format.
qlpack is used for packaging queries, not in suite syntax.

NEW QUESTION # 67
What is the purpose of the SECURITY.md file in a GitHub repository?

- A. readme.md
- B. security.md
- C. support.md
- D. contributing.md

Answer: B

Explanation:
The correct place to look is the SECURITY.md file. This file provides contributors and security researchers with instructions on how to responsibly report vulnerabilities. It may include contact methods, preferred communication channels (e.g., security team email), and disclosure guidelines.
This file is considered a GitHub best practice and, when present, activates a "Report a vulnerability" button in the repository's Security tab.

NEW QUESTION # 68
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With the GitHub Advanced Security GH-500 exam, you will have the chance to update your knowledge while obtaining dependable evidence of your proficiency. You can benefit from a number of additional benefits after completing the GitHub Advanced Security GH-500 Certification Exam. But keep in mind that the GH-500 certification test is a worthwhile and challenging certificate.

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