

Free PDF 2026 GH-500: Efficient Free GitHub Advanced Security Vce Dumps



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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 3	<ul style="list-style-type: none"> • 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 4	<ul style="list-style-type: none"> • 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 5	<ul style="list-style-type: none"> • 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.

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Microsoft GitHub Advanced Security Sample Questions (Q115-Q120):

NEW QUESTION # 115

Which of the following is NOT an action a user can take when they receive an alert from GitHub Advanced Security (GHAS)?

- A. Report the alert to GitHub.
- B. Ignore the alert.
- C. Dismiss the alert.
- D. Investigate the alert and take appropriate action.

Answer: A

NEW QUESTION # 116

What happens when you enable secret scanning on a private repository?

- A. Dependency review, secret scanning, and code scanning are enabled.
- B. Your team is subscribed to security alerts.
- C. Repository administrators can view Dependabot alerts.
- D. GitHub performs a read-only analysis on the repository.

Answer: C

Explanation:

GitHub secret scanning detects and alerts on sensitive data exposure, such as API keys and credentials, in your code repositories. Use it to protect your secrets, ensure secure and compliant development practices, and reduce the risk of data breaches and unauthorized access.

GitHub has scanned public repositories for secrets (like API keys and tokens) for several years.

Secret scanning protects our partners and our customers from unauthorized use of the services protected by those secrets. Just this month, 8% of active GitHub repositories committed a secret that was caught by secret scanning.

At GitHub Satellite, we announced secret scanning for private repositories, part of GitHub Advanced Security. We're bringing the same lightning-fast scanning engine and broad set of 24 partners (including all the major cloud providers and many common SaaS providers) to your private repository, so you can catch secrets as soon as they're checked in. Repository admins will be notified about any commit that contains a secret, and can quickly view all detected secrets in the repo's Security tab.

NEW QUESTION # 117

When secret scanning detects a set of credentials on a public repository, what does GitHub do?

- A. It sends a notification to repository members.
- B. It displays a public alert in the Security tab of the repository.
- C. It scans the contents of the commits for additional secrets.
- D. It notifies the service provider who issued the secret.

Answer: B

Explanation:

When a supported secret is leaked, GitHub generates a secret scanning alert. Alerts are reported on the Security tab of repositories on GitHub, where you can view, evaluate, and resolve them.

NEW QUESTION # 118

How many alerts are created when two instances of the same secret value are in the same repository?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

Explanation:

When two instances of the same secret value are present in the same repository, a secret scanning tool will typically generate one alert for each instance, but will likely deduplicate them to avoid redundant notifications. While the tool might detect both instances and generate two separate alerts, it will likely combine them into a single, consolidated alert to prevent clutter and ensure the user is aware of the potential security risk without being overwhelmed by multiple identical alerts.

Note:

De-duplication:

This logic ensures that if multiple alerts are generated for the same secret (e.g., same value, same rule, same location), they are grouped together and presented as a single, consolidated alert. This helps reduce alert fatigue and makes it easier for developers to manage and address security issues.

Example:

Imagine a scenario where the same API key is accidentally committed twice in the same file. The secret scanning tool will detect

both instances. Instead of generating two separate alerts, the tool will likely consolidate them into a single alert, indicating the presence of the API key and its multiple occurrences.

NEW QUESTION # 119

How does GitHub Advanced Security (GHAS) help integrate security into each step of the software development life cycle?

- A. By generating alerts for outdated dependencies in a project.
- B. By providing access to curated security intelligence from millions of developers and security researchers around the world.
- C. By providing a comprehensive dashboard summarizing the security status of the repository.
- D. By automating security checks with every pull request, surfacing issues in the context of the development workflow.

Answer: D

NEW QUESTION # 120

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