

100% Pass Quiz 2026 Microsoft GH-500: Marvelous GitHub Advanced Security Reliable Test Practice



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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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.
Topic 5	<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.

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Microsoft GitHub Advanced Security Sample Questions (Q91-Q96):

NEW QUESTION # 91

As a developer, you need to configure a code scanning workflow for a repository where GitHub Advanced Security is enabled. What minimum repository permission do you need?

- A. Admin
- B. None
- C. Read
- D. Write

Answer: D

Explanation:

Configuring advanced setup for code scanning with CodeQL

You can customize your CodeQL analysis by creating and editing a workflow file. Selecting advanced setup generates a basic workflow file for you to customize using standard workflow syntax and specifying options for the CodeQL action. See [Workflows and Customizing your advanced setup for code scanning](#).

Using actions to run code scanning will use minutes.

Note:

You can configure code scanning for any public repository where you have write access.

NEW QUESTION # 92

Where can you find a deleted line of code that contained a secret value?

- A. Insights
- **B. Commits**
- C. Issues
- D. Dependency graph

Answer: B

Explanation:

Secrets committed and then deleted are still accessible in the repository's Git history. To locate them, navigate to the Commits tab. GitHub's secret scanning can detect secrets in both current and historical commits, which is why remediation should also include revoking the secret, not just removing it from the latest code.

NEW QUESTION # 93

Where can you view code scanning results from CodeQL analysis?

- A. a CodeQL query pack
- B. at Security advisories
- C. a CodeQL database
- **D. the repository's code scanning alerts**

Answer: D

Explanation:

You can use CodeQL to identify vulnerabilities and errors in your code. The results are shown as code scanning alerts in GitHub.

Note:

Viewing the alerts for a repository

You need write permission to view a summary of all the alerts for a repository on the Security tab.

By default, the code scanning alerts page is filtered to show alerts for the default branch of the repository only.

1. On GitHub, navigate to the main page of the repository.

2. Under the repository name, click Security. If you cannot see the "Security" tab, select the dropdown menu, and then click Security.

3. In the left sidebar, click Code scanning.

4. Optionally, use the free text search box or the dropdown menus to filter alerts. For example, you can filter by the tool that was used to identify alerts.

5. Etc.

NEW QUESTION # 94

What does a CodeQL database of your repository contain?

- A. a representation of all of the source code
- **B. a build of the code and extracted data**
- C. a build for Go projects to set up the project
- D. build commands for C/C++, C#, and Java

Answer: B

Explanation:

CodeQL databases contain queryable data extracted from a codebase, for a single language at a particular point in time. The database contains a full, hierarchical representation of the code, including a representation of the abstract syntax tree, the data flow graph, and the control flow graph.

Each language has its own unique database schema that defines the relations used to create a database. The schema provides an interface between the initial lexical analysis during the extraction process, and the actual complex analysis using CodeQL. The schema specifies, for instance, that there is a table for every language construct.

For each language, the CodeQL libraries define classes to provide a layer of abstraction over the database tables. This provides an object-oriented view of the data which makes it easier to write queries.

NEW QUESTION # 95

If default code security settings have not been changed at the repository, organization, or enterprise level, which repositories receive Dependabot alerts?

- A. private repositories
- B. repositories owned by an organization
- C. none
- D. repositories owned by an enterprise account

Answer: C

Explanation:

When Dependabot detects vulnerable dependencies in your repositories, we generate a Dependabot alert and display it on the Security tab for the repository. GitHub notifies the maintainers of affected repositories about the new alert according to their notification preferences.

Dependabot is enabled by default on all public repositories, and needs to be enabled on private repositories.

Note:

By default, no repositories receive Dependabot alerts unless configuration is explicitly enabled.

GitHub does not enable Dependabot alerts automatically for any repositories unless:

The feature is turned on manually

It's configured at the organization or enterprise level via security policies This includes public, private, and enterprise-owned repositories -manual activation is required.

NEW QUESTION # 96

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