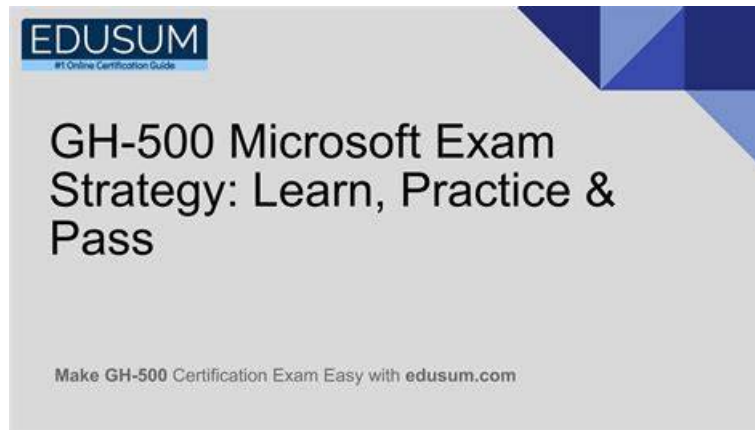


# GH-500 Exam Quizzes & Study GH-500 Plan



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To get prepared for the GitHub Advanced Security certification exam, applicants face a lot of trouble if the study material is not updated. They are using outdated materials resulting in failure and loss of money and time. So to solve all these problems, ExamTorrent offers actual GH-500 Questions to help candidates overcome all the obstacles and difficulties they face during GH-500 examination preparation.

## Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>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.</li> </ul>

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### Microsoft GitHub Advanced Security Sample Questions (Q19-Q24):

#### NEW QUESTION # 19

In the pull request, how can developers avoid adding new dependencies with known vulnerabilities?

- A. Enable Dependabot security updates.
- B. Enable Dependabot alerts.
- C. Add Dependabot rules.
- D. Add a workflow with the dependency review action.

**Answer: D**

Explanation:

To detect and block vulnerable dependencies before merge, developers should use the Dependency Review GitHub Action in their pull request workflows. It scans all proposed dependency changes and flags any packages with known vulnerabilities. This is a preventative measure during development, unlike Dependabot, which reacts after the fact.

#### NEW QUESTION # 20

What step is required to run a SARIF-compatible (Static Analysis Results Interchange Format) tool on GitHub Actions?

- A. Update the workflow to include a final step that uploads the results.
- B. The CodeQL action uploads the SARIF file automatically when it completes analysis.
- C. Use the CLI to upload results to GitHub.
- D. By default, the CodeQL runner automatically uploads results to GitHub on completion.

**Answer: A**

Explanation:

When using a SARIF-compatible tool within GitHub Actions, it's necessary to explicitly add a step in your workflow to upload the analysis results. This is typically done using the upload-sarif action, which takes the SARIF file generated by your tool and uploads it to GitHub for processing and display in the Security tab. Without this step, the results won't be available in GitHub's code scanning interface.

#### NEW QUESTION # 21

What filter or sort settings can be used to prioritize the secret scanning alerts that present the most risk?

- A. Select only the custom patterns.
- B. Sort to display the newest first.
- C. Sort to display the oldest first.
- D. Filter to display active secrets.

**Answer: D**

Explanation:

The best way to prioritize secret scanning alerts is to filter by active secrets --- these are secrets GitHub has confirmed are still valid and could be exploited. This allows security teams to focus on high-risk exposures that require immediate attention.

#### NEW QUESTION # 22

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

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

**Answer: A**

#### NEW QUESTION # 23

As a repository owner, you want to receive specific notifications, including security alerts, for an individual repository. Which repository notification setting should you use?

- A. Participating and @mentions
- B. Ignore
- C. All Activity
- D. Custom

**Answer: D**

Explanation:

Using the Custom setting allows you to subscribe to specific event types, such as Dependabot alerts or vulnerability notifications, without being overwhelmed by all repository activity. This is essential for repository maintainers who need fine-grained control over what kinds of events trigger notifications.

This setting is configurable per repository and allows users to stay aware of critical issues while minimizing notification noise.

## NEW QUESTION # 24

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