

# Quiz Microsoft - GH-500 - GitHub Advanced Security Updated Test Valid



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## Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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>
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 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>

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## Microsoft GitHub Advanced Security Sample Questions (Q34-Q39):

### NEW QUESTION # 34

What YAML syntax do you use to exclude certain files from secret scanning?

- A. decrypt\_secret.sh
- B. branches-ignore:
- C. paths-ignore:
- D. secret\_scanning.yml

**Answer: C**

Explanation:

To exclude specific files or directories from being scanned by secret scanning in GitHub Actions, you can use the paths-ignore: key within your YAML workflow file.

This tells GitHub to ignore specified paths when scanning for secrets, which can be useful for excluding test data or non-sensitive mock content.

Other options listed are invalid:

branches-ignore: excludes branches, not files.

decrypt\_secret.sh is not a YAML key.

secret\_scanning.yml is not a recognized filename for configuration.

### NEW QUESTION # 35

Which of the following secret scanning features can verify whether a secret is still active?

- A. Validity checks
- B. Push protection
- C. Branch protection
- D. Custom patterns

**Answer: A**

Explanation:

Validity checks, also called secret validation, allow GitHub to check if a detected secret is still active. If verified as live, the alert is marked as "valid", allowing security teams to prioritize the most critical leaks.

Push protection blocks secrets but does not check their validity. Custom patterns are user-defined and do not include live checks.

### NEW QUESTION # 36

Which of the following is the best way to prevent developers from adding secrets to the repository?

- A. Enable push protection
- B. Configure a security manager
- C. Create a CODEOWNERS file
- D. Make the repository public

**Answer: A**

Explanation:

The best proactive control is push protection. It scans for secrets during a git push and blocks the commit before it enters the repository.

Other options (like CODEOWNERS or security managers) help with oversight but do not prevent secret leaks.

Making a repo public would increase the risk, not reduce it.

### NEW QUESTION # 37

When using CodeQL, what extension stores query suite definitions?

- A. .yaml
- B. .qls
- C. .ql
- D. .qll

**Answer: B**

Explanation:

Query suite definitions in CodeQL are stored using the .qls file extension. A query suite defines a collection of queries to be run during an analysis and allows for grouping them based on categories like language, security relevance, or custom filters.

In contrast:

.ql files are individual queries.

.qll files are libraries used by .ql queries.

.yaml is used for workflows, not query suites.

### NEW QUESTION # 38

Which Dependabot configuration fields are required? (Each answer presents part of the solution. Choose three.)

- A. **schedule.interval**
- B. allow
- C. **package-ecosystem**
- D. milestone
- E. **directory**

Answer: A,C,E

Explanation:

Comprehensive and Detailed Explanation:

When configuring Dependabot via the dependabot.yml file, the following fields are mandatory for each update configuration:

directory: Specifies the location of the package manifest within the repository. This tells Dependabot where to look for dependency files.

package-ecosystem: Indicates the type of package manager (e.g., npm, pip, maven) used in the specified directory.

schedule.interval: Defines how frequently Dependabot checks for updates (e.g., daily, weekly). This ensures regular scanning for outdated or vulnerable dependencies.

The milestone field is optional and used for associating pull requests with milestones. The allow field is also optional and used to specify which dependencies to update.

GitLab

### NEW QUESTION # 39

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