

# Reliable GH-500 Guide Files | New GH-500 Test Syllabus



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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>• 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 3	<ul style="list-style-type: none"> <li>• <b>Configure and use Code Scanning with CodeQL:</b> 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>• <b>Describe the GHAS security features and functionality:</b> 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 5	<ul style="list-style-type: none"> <li>• <b>Describe GitHub Advanced Security best practices, results, and how to take corrective measures:</b> 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>

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### Microsoft GitHub Advanced Security Sample Questions (Q36-Q41):

#### NEW QUESTION # 36

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

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

**Answer: C**

**Explanation:**

You can use the dependency review action to help enforce dependency reviews on pull requests in your repository. The dependency

review action scans your pull requests for dependency changes and raises an error if any new dependencies have known vulnerabilities.

Note: About dependency review

Dependency review helps you understand dependency changes and the security impact of these changes at every pull request. It provides an easily understandable visualization of dependency changes with a rich diff on the "Files Changed" tab of a pull request. Dependency review informs you of:

Which dependencies were added, removed, or updated, along with the release dates How many projects use these components Vulnerability data for these dependencies Dependency review allows you to "shift left". You can use the provided predictive information to catch vulnerable dependencies before they hit production.

### NEW QUESTION # 37

When configuring code scanning with CodeQL, what are your options for specifying additional queries? (Each answer presents part of the solution. Choose two.)

- A. github/codeql
- B. Packs
- C. Queries
- D. Scope

**Answer: B,C**

Explanation:

You can customize CodeQL scanning by including additional query packs or by specifying individual queries:

Packs: These are reusable collections of CodeQL queries bundled into a single package.

Queries: You can point to specific files or directories containing .ql queries to include in the analysis.

github/codeql refers to a pack by name but is not a method or field. Scope is not a valid field used for configuration in this context.

### NEW QUESTION # 38

What is the purpose of push protection?

- A. to scan and block the code that contains secrets before it reaches the repository
- B. to define license requirements for the repository
- C. to validate the push by the code owner
- D. to scan and block the code that contains vulnerabilities before it reaches the repository

**Answer: A**

Explanation:

When you upload, create, or edit files from the GitHub UI, push protection prevents you from accidentally committing secrets to a repository by blocking commits containing supported secrets.

GitHub will also block the commit if you attempt to upload files containing supported secrets.

### NEW QUESTION # 39

Which of the following is the most complete method for Dependabot to find vulnerabilities in third-party dependencies?

- A. Dependabot reviews manifest files in the repository
- B. The build tool finds the vulnerable dependencies and calls the Dependabot API
- C. CodeQL analyzes the code and raises vulnerabilities in third-party dependencies
- D. A dependency graph is created, and Dependabot compares the graph to the GitHub Advisory database

**Answer: D**

Explanation:

Dependabot builds a dependency graph by analyzing package manifests and lockfiles in your repository. This graph includes both direct and transitive dependencies. It then compares this graph against the GitHub Advisory Database, which includes curated, security-reviewed advisories.

This method provides a comprehensive and automated way to discover all known vulnerabilities across your dependency tree.

### NEW QUESTION # 40

Which of the following Watch settings could you use to get Dependabot alert notifications? (Each answer presents part of the solution. Choose two.)

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

**Answer: C,D**

Explanation:

Comprehensive and Detailed Explanation:

To receive Dependabot alert notifications for a repository, you can utilize the following Watch settings:

Custom setting: Allows you to tailor your notifications, enabling you to subscribe specifically to security alerts, including those from Dependabot.

All Activity setting: Subscribes you to all notifications for the repository, encompassing issues, pull requests, and security alerts like those from Dependabot.

The Participating and @mentions setting limits notifications to conversations you're directly involved in or mentioned, which may not include security alerts. The Ignore setting unsubscribes you from all notifications, including critical security alerts.

GitHub Docs

+1

GitHub Docs

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### NEW QUESTION # 41

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