

GH-500 Schulungsangebot, GH-500 Testing Engine, GitHub Advanced Security Trainingsunterlagen



Zertpruefung ist eine Website, die kurze aber effiziente Ausbildung zur Microsoft GH-500 Zertifizierungsprüfung bietet. Die Microsoft GH-500 Zertifizierungsprüfung kann Ihr Leben verändern. Die IT-Fachleut mit Microsoft GH-500 Zertifikat haben höheres Gehalt, bessere Beförderungsmöglichkeiten und bessere Berufsaussichten in der IT-Branche.

Microsoft GH-500 Prüfungsplan:

Thema	Einzelheiten
Thema 1	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.
Thema 2	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.

Thema 3	• 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.
Thema 4	• 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.
Thema 5	• 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.

>> GH-500 Prüfung <<

GH-500 Deutsch & GH-500 Lernhilfe

Wir Zertprüfung bieten Ihnen verschiedene Unterlagensversionen, die Ihre Nutzung erleichtern können. Die PDF-Versionen können das Lesen erleichtern und Ihnen die aktuellen Microsoft GH-500 Prüfungsfragen zeigen, Die Software-Versionen sind die Simulationssoftwares, die Ihre Vorbereitungssituation auf jeden Fall testen. Wenn Sie wissen wollen, ob Sie sich für Microsoft GH-500 Prüfung gut bereit sind, können Sie helfen, Ihre Stärke und Schwäche ganz schnell finden, um Ihren nächsten Lernplan zu erstellen.

Microsoft GitHub Advanced Security GH-500 Prüfungsfragen mit Lösungen (Q32-Q37):

32. Frage

What is the first step you should take to fix an alert in secret scanning?

- A. Revoke the alert if the secret is still valid.
- B. Remove the secret in a commit to the main branch.
- C. Archive the repository.
- D. Update your dependencies.

Antwort: A

Begründung:

The first step when you receive a secret scanning alert is to revoke the secret if it is still valid. This ensures the secret can no longer be used maliciously. Only after revoking it should you proceed to remove it from the code history and apply other mitigation steps. Simply deleting the secret from the code does not remove the risk if it hasn't been revoked - especially since it may already be

exposed in commit history.

33. Frage

Which patterns are secret scanning validity checks available to?

- A. Partner patterns
- B. Custom patterns
- C. Push protection patterns
- D. High entropy strings

Antwort: A

Begründung:

Validity checks - where GitHub verifies if a secret is still active - are available for partner patterns only. These are secrets issued by GitHub's trusted partners (like AWS, Slack, etc.) and have APIs for GitHub to validate token activity status. Custom patterns and high entropy patterns do not support automated validity checks.

34. Frage

What combination of security measures helps to mitigate risks throughout the SDLC (Software Development Life Cycle)?

- A. View alerts about dependencies that are known to contain security vulnerabilities
- B. Confidentially report security vulnerabilities and privately discuss and fix security vulnerabilities in your repository's code
- C. Search for potential security vulnerabilities, detect secrets, and show the full impact of changes to dependencies
- D. Automatically raise pull requests, which reduces your exposure to older versions of dependencies

Antwort: C

Begründung:

These three features provide a complete layer of defense:

Code scanning identifies security flaws in your source code

Secret scanning detects exposed credentials

Dependency review shows the impact of package changes during a pull request Together, they give developers actionable insight into risk and coverage throughout the SDLC.

35. Frage

A dependency has a known vulnerability. What does the warning message include?

- A. The security impact of these changes
- B. A brief description of the vulnerability
- C. An easily understandable visualization of dependency change
- D. How many projects use these components

Antwort: B

Begründung:

When a vulnerability is detected, GitHub shows a warning that includes a brief description of the vulnerability. This typically covers the name of the CVE (if available), a short summary of the issue, severity level, and potential impact. The message also links to additional advisory data from the GitHub Advisory Database.

This helps developers understand the context and urgency of the vulnerability before applying the fix.

36. Frage

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

- A. schedule.interval
- B. milestone
- C. package-ecosystem

- D. allow
- E. directory

Antwort: A,C,E

Begründung:

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

37. Frage

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GH-500 Deutsch: https://www.zertpruefung.de/GH-500_exam.html

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