

2026 GH-500 Valid Exam Cost - Microsoft GitHub Advanced Security - High-quality Reliable GH-500 Test Camp



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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> 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 4	<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.
Topic 5	<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.

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Microsoft GitHub Advanced Security Sample Questions (Q75-Q80):

NEW QUESTION # 75

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 # 76

Which of the following features can be used to enforce passing status checks for code scanning and dependency review workflows?

- **A. repository rulesets**
- B. status enforcement
- C. security GuardRails
- D. Insights

Answer: A

NEW QUESTION # 77

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

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

Answer: B

Explanation:

About SARIF file uploads for code scanning

GitHub creates code scanning alerts in a repository using information from Static Analysis Results Interchange Format (SARIF) files. SARIF files can be uploaded to a repository using the API or GitHub Actions.

You can upload the results using GitHub Actions, the code scanning API, or the CodeQL CLI.

The best upload method will depend on how you generate the SARIF file, for example, if you use:

* GitHub Actions to run the CodeQL action, there is no further action required. The CodeQL action uploads the SARIF file automatically when it completes analysis.

* GitHub Actions to run a SARIF-compatible analysis tool, you could update the workflow to include a final step that uploads the results.

Uploading a code scanning analysis with GitHub Actions

To use GitHub Actions to upload a third-party SARIF file to a repository, you'll need a workflow.

Your workflow will need to use the upload-sarif action, which is part of the github/codeql-action repository. It has input parameters that you can use to configure the upload.

* The CodeQL CLI to run code scanning in your CI system, you can use the CLI to upload results to GitHub

NEW QUESTION # 78

When does Dependabot alert you of a vulnerability in your software development process?

- A. when Dependabot opens a pull request to update a vulnerable dependency
- **B. as soon as a vulnerable dependency is detected**
- C. when a pull request adding a vulnerable dependency is opened
- D. as soon as a pull request is opened by a contributor

Answer: B

Explanation:

Dependabot alerts are generated as soon as GitHub detects a known vulnerability in one of your dependencies. GitHub does this by analyzing your repository's dependency graph and matching it against vulnerabilities listed in the GitHub Advisory Database. Once a match is found, the system raises an alert automatically without waiting for a PR or manual action.

This allows organizations to proactively mitigate vulnerabilities as early as possible, based on real-time detection.

NEW QUESTION # 79

What is the purpose of push protection?

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

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 # 80

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