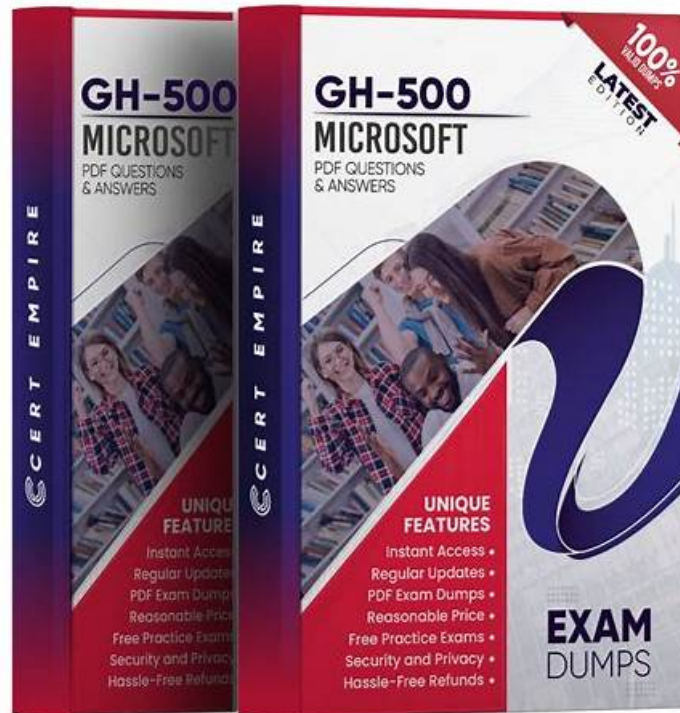


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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.

Topic 2	<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 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"> • 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 5	<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.

>> GH-500 Certification Practice <<

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Our aim is to provide customers with actual Microsoft GH-500 questions so they pass their GitHub Advanced Security (GH-500) exams with confidence. We offer a free demos and up to 365 days of free Microsoft Dumps updates. One of the key elements of our approach is following the current exam content. Our GH-500 product is designed by experienced industry professionals and is regularly updated to reflect the latest changes in the GH-500 test content.

Microsoft GitHub Advanced Security Sample Questions (Q82-Q87):

NEW QUESTION # 82

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. When a pull request adding a vulnerable dependency is opened
- C. As soon as a pull request is opened by a contributor
- **D. As soon as a vulnerable dependency is detected**

Answer: D

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 # 83

Assuming that default security and analysis settings have not been changed at the repository, organization, or enterprise level, which scenario would generate a dependency graph for the repository?

- A. when a public repository has a new dependency added to its manifest file
- B. when a private repository is forked to be used as a dependent
- **C. when a private repository has a new dependency added to its manifest file**
- D. when a public repository is forked to be used as a dependent

Answer: C

Explanation:

A dependency graph for a private repository on platforms like GitHub is generated or updated when a new dependency is added to its manifest file and this change is pushed to the repository's default branch, How it Works:

1. Manifest File Update: You add a new dependency to a manifest file (e.g., package.json for npm).
2. Push to Default Branch: You then push the changes to your repository's default branch.
3. Automated Parsing: The platform automatically scans the manifest and lock files in the repository.
4. Graph Generation: It uses this information to construct the dependency graph, which shows direct and transitive dependencies, their versions, and any known vulnerabilities.

NEW QUESTION # 84

What action do you need to include in your workflow to upload a third-party Static Analysis Results Interchange Format (SARIF) file to a repository?

- A. partialFingerprints
- B. dependency-review
- **C. upload-sarif**
- D. scheduled

Answer: C

Explanation:

Uploading a SARIF file to GitHub

You can upload SARIF files generated outside GitHub and see code scanning alerts from third-party tools in your repository

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 main input parameters you'll use are:

`sarif_file`, which configures the file or directory of SARIF files to be uploaded. The directory or file path is relative to the root of the repository.

`category` (optional), which assigns a category for results in the SARIF file. This enables you to analyze the same commit in multiple

ways and review the results using the code scanning views in GitHub. For example, you can analyze using multiple tools, and in mono-repos, you can analyze different slices of the repository based on the subset of changed files.

NEW QUESTION # 85

What does a CodeQL database of your repository contain?

- A. a representation of all of the source code
- B. a build for Go projects to set up the project
- **C. a build of the code and extracted data**
- D. build commands for C/C++, C#, and Java

Answer: C

Explanation:

CodeQL databases contain queryable data extracted from a codebase, for a single language at a particular point in time. The database contains a full, hierarchical representation of the code, including a representation of the abstract syntax tree, the data flow graph, and the control flow graph.

Each language has its own unique database schema that defines the relations used to create a database. The schema provides an interface between the initial lexical analysis during the extraction process, and the actual complex analysis using CodeQL. The schema specifies, for instance, that there is a table for every language construct.

For each language, the CodeQL libraries define classes to provide a layer of abstraction over the database tables. This provides an object-oriented view of the data which makes it easier to write queries.

NEW QUESTION # 86

What are the permissions and roles required to enable Dependabot alerts on GitHub?

- A. Only repository maintainers can enable Dependabot alerts.
- **B. Only users with admin access to a repository can enable Dependabot alerts.**
- C. Any user with access to a repository can enable Dependabot alerts.
- D. Only users with write access to a repository can enable Dependabot alerts.

Answer: B

NEW QUESTION # 87

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