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Prep 3 – General Exam (1)
سلسلة امتحانات من كتاب الطالب والتقديرات

1. Choose the correct answer from a, b, c, or d: (2 M)

1. means to change something a little to make it better.
a. adjust b. guess c. refuse d. damage
2. A strong connection between people is a/an
a. bond b. storm c. limit d. device
3. The prefix "mis—" gives the opposite of the verb ".....".
a. understand b. support c. improve d. create
4. The word "....." has the same meaning as "silence".
a. peace b. noise c. gesture d. fight

2. Read and complete the text with words in the box: (2 M)

confidence – social media – distracted – face-to-face – resolve

Good communication helps us build strong relationships. When we talk (1)....., we understand feelings better. However, some people become (2)..... when they spend too much time on (3)..... To (4)..... problems, we should listen carefully and speak politely. This also increases our confidence.

3. Read the following text, then answer the questions: (6 M)

Salma was preparing for her final exams, but she couldn't focus. Every few minutes, she checked her phone and scrolled through social media. Soon, she felt stressed because the time was passing quickly. Her brother Omar noticed this distraction and suggested a simple plan. First, Salma turned off notifications. Then, she studied for thirty minutes and took a short five-minute break. She also wrote a small list of **tasks** for the day. After two hours, she finished her homework and felt proud. Salma learned that technology can help, but only if we use it wisely.

a. Choose the correct answer from a, b, c, or d:

1. Salma felt stressed because she was
a. studying too hard b. wasting time on her phone
c. sleeping a lot d. playing sports
2. The best title for the passage is
a. How to Use Time Wisely b. A Dangerous Stranger
c. The Story of a Garden d. A Trip to Luxor

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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 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 4	<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 5	<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.
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Microsoft GitHub Advanced Security Sample Questions (Q41-Q46):

NEW QUESTION # 41

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

- A. paths-ignore:
- B. branches-ignore:
- C. secret scanning.yml
- D. decrypt_secret.sh

Answer: A

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 # 42

What filter or sort settings can be used to prioritize the secret scanning alerts that present the most risk?

- A. Sort to display the oldest first
- B. Sort to display the newest first
- C. Select only the custom patterns
- D. **Filter to display active secrets**

Answer: D

Explanation:

The best way to prioritize secret scanning alerts is to filter by active secrets - these are secrets GitHub has confirmed are still valid and could be exploited. This allows security teams to focus on high-risk exposures that require immediate attention.

Sorting by time or filtering by custom patterns won't help with risk prioritization directly.

NEW QUESTION # 43

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

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

Answer: A,D,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 # 44

Which of the following information can be found in a repository's Security tab?

- A. GHAS settings
- B. Access management
- C. Two-factor authentication (2FA) options
- D. Number of alerts per GHAS feature

Answer: D

Explanation:

The Security tab in a GitHub repository provides a central location for viewing security-related information, especially when GitHub Advanced Security is enabled. The following can be accessed:

Number of alerts related to:

Code scanning

Secret scanning

Dependency (Dependabot) alerts

Summary and visibility into open, closed, and dismissed security issues.

It does not show 2FA options, access control settings, or configuration panels for GHAS itself. Those belong to account or organization-level settings.

NEW QUESTION # 45

What is a prerequisite to define a custom pattern for a repository?

- A. Close other secret scanning alerts
- B. Specify additional match criteria
- C. Change the repository visibility to Internal
- D. Enable secret scanning

Answer: D

Explanation:

You must enable secret scanning before defining custom patterns. Secret scanning provides the foundational capability for detecting exposed credentials, and custom patterns build upon that by allowing organizations to specify their own regex-based patterns for secrets unique to their environment.

Without enabling secret scanning, GitHub will not process or apply custom patterns.

NEW QUESTION # 46

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