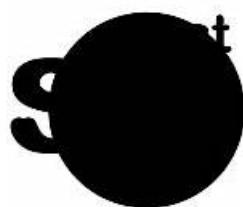


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ECCouncil 312-97 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">DevSecOps Pipeline - Build and Test Stage: This module explores integrating automated security testing into build and testing processes through CI pipelines. It covers SAST and DAST approaches to identify and address vulnerabilities early in development.
Topic 2	<ul style="list-style-type: none">DevSecOps Pipeline - Release and Deploy Stage: This module explains maintaining security during release and deployment through secure techniques and infrastructure as code security. It covers container security tools, release management, and secure configuration practices for production transitions.
Topic 3	<ul style="list-style-type: none">DevSecOps Pipeline - Code Stage: This module discusses secure coding practices and security integration within the development process and IDE. Developers learn to write secure code using static code analysis tools and industry-standard secure coding guidelines.
Topic 4	<ul style="list-style-type: none">Understanding DevOps Culture: This module introduces DevOps principles, covering cultural and technical foundations that emphasize collaboration between development and operations teams. It addresses automation, CICD practices, continuous improvement, and the essential communication patterns needed for faster, reliable software delivery.

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ECCouncil EC-Council Certified DevSecOps Engineer (ECDE) Sample Questions (Q10-Q15):

NEW QUESTION # 10

(Bruce Altman is a DevSecOps engineer at a web application development company named TechSoft Pvt. Ltd. Due to robust security features provided by Microsoft Azure, in January of 2020, his organization migrated all the workloads from on-prem to Azure. Using Terraform configuration management tool, Bruce created a resource group and virtual machine (VM) in Azure; he then deployed a web application in the VM. Within an hour, Bruce's team leader informed him that he detected various security issues in the application code and asked him to destroy the infrastructure that he has created in Microsoft Azure using Terraform. Which of the following commands can Bruce use to destroy the infrastructure created using Terraform?)

- A. `terraform destroy-infra`.
- B. `terraform kill`.
- C. `terraform destroy`.
- D. `terraform kill-infra`.

Answer: C

Explanation:

Terraform provides the `terraform destroy` command to remove all infrastructure resources defined in the Terraform configuration files. This command safely tears down resources such as virtual machines, networks, and resource groups by consulting the state file and executing destruction in the correct dependency order.

Commands like `terraform kill`, `terraform kill-infra`, and `terraform destroy-infra` do not exist in Terraform's CLI. Using `terraform destroy` during the Release and Deploy stage allows DevSecOps teams to quickly remediate risk by removing insecure or non-compliant infrastructure, reinforcing the importance of Infrastructure as Code and controlled lifecycle management.

NEW QUESTION # 11

(Brett Ryan has been working as a senior DevSecOps engineer in an IT company in Charleston, South Carolina. He is using `git-multimail` tool to send email notification for every push to git repository. By default, the tool will send one output email providing details about the reference change and one output email for every new commit due to a reference change. How can Brett ensure that `git-multimail` is set up appropriately?)

- A. Running the environmental variable `GIT_MULTIMAIL_CHECK_SETUP` by setting it to empty string.
- B. `Running the environmental variable GIT_MULTIMAIL_CHECK_SETUP by setting it to non-empty string.`
- C. Running the environmental variable `GITHUB_MULTIMAIL_CHECK_SETUP` by setting it to empty string.
- D. Running the environmental variable `GITHUB_MULTIMAIL_CHECK_SETUP` by setting it to non- empty string.

Answer: B

Explanation:

The `git-multimail` tool provides a mechanism to verify whether it has been installed and configured correctly before being relied upon for production notifications. This verification is done using an environment variable named `GIT_MULTIMAIL_CHECK_SETUP`. When this variable is set to an non-empty string, `git-multimail` performs a setup validation and outputs diagnostic information to confirm that configuration values, hooks, and parameters are correctly defined. This helps prevent silent failures where commits occur but email notifications are not sent. Options that reference `GITHUB_MULTIMAIL_CHECK_SETUP` are incorrect because `git-multimail` is not limited to GitHub and does not use that variable name. Additionally, setting the variable to an empty string does not trigger the setup check. Ensuring proper configuration during the Code stage is important because it supports auditability,

traceability, and timely communication among development and security teams. Therefore, Brett must run the environment variable `GIT_MULTIMAIL_CHECK_SETUP` with a non-empty value to ensure the tool is set up appropriately.

NEW QUESTION # 12

(Dave Allen is working as a DevSecOps engineer in an IT company located in Baltimore, Maryland. His team is working on the development of Ruby on Rails application. He integrated Brakeman with Jenkins to detect security vulnerabilities as soon as they are introduced; he then installed and configured Warnings Next Generation Plugin in Jenkins. What will be the use of Warnings Next Generation Plugin to Dave?.)

- A. It will regulate the function of Brakeman.
- B. It will inspect TypeScript code for readability, functionality, and maintainability issues.
- **C. It will gather and manage the results from Brakeman.**
- D. It will validate Jenkins compiler settings.

Answer: C

Explanation:

The Warnings Next Generation Plugin in Jenkins is designed to collect, aggregate, visualize, and manage static analysis results produced by various tools, including Brakeman. In this scenario, Dave uses Brakeman to scan Ruby on Rails applications for security vulnerabilities. Brakeman generates output files containing findings, and the Warnings Next Generation Plugin parses these results and presents them in a standardized, user-friendly format within Jenkins. This allows teams to track trends, enforce quality gates, and fail builds based on severity thresholds. The plugin does not inspect TypeScript code, validate compiler settings, or control Brakeman's execution logic. Its role is purely to manage and display analysis results. Using this plugin during the Code stage improves visibility into security issues, supports decision-making, and helps enforce security standards across the development lifecycle.

NEW QUESTION # 13

(Dustin Hoffman is a DevSecOps engineer at SantSol Pvt. Ltd. His organization develops software products and web applications related to mobile apps. Using Gauntlet, Dustin would like to facilitate testing and communication between teams and create actionable tests that can be hooked in testing and deployment process. Which of the following commands should Dustin use to install Gauntlet?.)

- **A. \$ gem install gauntlet.**
- B. \$ gems install Gauntlet.
- C. \$ gems install gauntlet.
- D. \$ gem install Gauntlet.

Answer: A

Explanation:

Gauntlet is a security testing framework written in Ruby and distributed as a Ruby gem. The correct way to install a Ruby gem is using the `gem install` command followed by the lowercase gem name. RubyGems are case-sensitive and standardized to lowercase naming conventions, which makes `gem install gauntlet` the correct command. The `gems` command does not exist in Ruby's package management ecosystem, and using uppercase names such as `Gauntlet` can lead to installation failures. Installing Gauntlet allows DevSecOps teams to write human-readable security tests and integrate them into CI/CD pipelines, enabling automated and collaborative security validation during the Build and Test stage.

NEW QUESTION # 14

(Cheryl Hines has been working as a senior DevSecOps engineer over the past 5 years in an IT company. Due to the robust features offered by Keywhiz secret management tool such as compatibility with all software, untraceable secrets, no impact of power cut or server outage, etc., Cheryl's organization is using it for managing and distributing secrets. To add a secret using Keywhiz CLI, which of the following commands should Cheryl use?)

- A. \$ keywhiz cli --devsecTrustStore --admin keywhizAdmin login
\$ keywhiz cli add secret --name mySecretName < mySecretFile.

- B. `$ keywhiz.cli --DevSecTrustStore --user keywhizAdmin login`
`$ keywhiz.cli add secret --name mySecretName < mySecretFile.`
- C. `$ keywhiz.cli --devTrustStore --admin keywhizAdmin login`
`$ keywhiz.cli add secret --name mySecretName < mySecretFile.`
- D. `$ keywhiz.cli --devTrustStore --user keywhizAdmin login`
`$ keywhiz.cli add secret --name mySecretName < mySecretFile.`

Answer: C

Explanation:

Keywhiz CLI requires authentication before secrets can be added. The correct process involves logging in using the `--devTrustStore` option and authenticating as an administrator using the `--admin` flag. Once authenticated, the `add secret` command is used with input redirection to securely store the secret. Options that use incorrect flag names, incorrect casing, or invalid trust store identifiers do not follow Keywhiz CLI syntax.

Adding secrets through Keywhiz instead of embedding them in code supports secure secret distribution and management, which is a fundamental aspect of DevSecOps culture. This approach ensures secrets remain protected, auditable, and available even during outages.

NEW QUESTION # 15

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