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HashiCorp Terraform-Associate-004 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Terraform state management: This domain focuses on managing Terraform's state file, understanding local and remote backends, implementing state locking, and handling resource drift.
Topic 2	<ul style="list-style-type: none"> Terraform modules: This domain explains organizing and reusing code through modules, understanding variable scope between modules, implementing modules in configurations, and managing module versions.

Topic 3	<ul style="list-style-type: none"> • HCP Terraform: This domain covers using HashiCorp Cloud Platform Terraform for infrastructure provisioning, collaboration and governance features, organizing workspaces and projects, and configuring integrations.
Topic 4	<ul style="list-style-type: none"> • Terraform configuration: This domain covers writing Terraform code including resources and data blocks, using variables and outputs, handling complex types, creating dynamic configurations with expressions and functions, managing dependencies, implementing validation, and handling sensitive data.
Topic 5	<ul style="list-style-type: none"> • Infrastructure as Code (IaC) with Terraform: This domain covers the foundational concept of Infrastructure as Code and how Terraform enables managing resources across multiple cloud providers and services through a unified workflow.

HashiCorp Certified: Terraform Associate (004) (HCTA0-004) Sample Questions (Q44-Q49):

NEW QUESTION # 44

Why does this backend configuration not follow best practices?

- **A. You should not store credentials in Terraform configuration**
- B. You should use the local enhanced storage backend whenever possible
- C. The backend configuration should contain multiple credentials so that more than one user can execute terraform plan and terraform apply
- D. An alias meta-argument should be included in backend blocks whenever possible

Answer: A

Explanation:

This is a bad practice, as it exposes your credentials to anyone who can access your configuration files or state files. You should use environment variables, credential files, or other mechanisms to provide credentials to Terraform.

NEW QUESTION # 45

A Terraform local value can reference other Terraform local values.

- A. False
- **B. True**

Answer: B

Explanation:

Rationale for Correct Answer: Locals are evaluated as expressions, and one local can reference another using local. < name > . This supports building up derived values cleanly:

```
locals {
  env = "prod "
  app_name = "api-${local.env} "
}
```

Analysis of Incorrect Options (Distractors):

B (False): Incorrect-Terraform explicitly supports local-to-local references.

Key Concept: Local values (locals) and expression references.

Reference: Terraform Objectives - Read, Generate, and Modify Configurations (locals, expressions, references).

NEW QUESTION # 46

Which of these are benefits of using Sentinel with HCP Terraform/Terraform Cloud? (Pick the 3 correct responses)

- **A. You can enforce a list of approved AWS AMIs.**
- **B. Policy-as-code can enforce security best practices.**
- C. Sentinel Policies can be written in HashiCorp Configuration Language (HCL).

- **D. You can check out and check in cloud access keys.**

Answer: A,B,D

Explanation:

Sentinel is a policy-as-code framework that integrates with Terraform Cloud to enforce security, compliance, and governance rules. You can enforce rules such as approved AMIs and ensure security best practices.

Policies are written in the Sentinel language, not HCL.

References:

Sentinel Policies

NEW QUESTION # 47

Which of the following is not true of Terraform providers?

- A. Cloud providers and infrastructure vendors can write, maintain, or collaborate on Terraform
- B. HashiCorp maintains some providers
- C. An individual person can write a Terraform Provider
- D. A community of users can maintain a provider
- E. providers
- **F. None of the above**

Answer: F

Explanation:

All of the statements are true of Terraform providers. Terraform providers are plugins that enable Terraform to interact with various APIs and services¹. Anyone can write a Terraform provider, either as an individual or as part of a community². HashiCorp maintains some providers, such as the AWS, Azure, and Google Cloud providers³. Cloud providers and infrastructure vendors can also write, maintain, or collaborate on Terraform providers, such as the VMware, Oracle, and Alibaba Cloud providers. References =

*1: Providers - Configuration Language | Terraform | HashiCorp Developer

*2: Plugin Development - How Terraform Works With Plugins | Terraform | HashiCorp Developer

*3: Terraform Registry

*: Terraform Registry

NEW QUESTION # 48

Your team adopts AWS CloudFormation as the standardized method for provisioning public cloud resources.

Which scenario presents a challenge for your team?

- **A. Deploying new infrastructure into Microsoft Azure.**
- B. Automating a manual, web console-based provisioning process.
- C. Managing a new application stack built on AWS-native services.
- D. Building a reusable code base that can deploy resources into any AWS region.

Answer: A

Explanation:

Rationale for Correct Answer: AWS CloudFormation is AWS-specific. If your standardized provisioning tool is CloudFormation, deploying infrastructure into Microsoft Azure becomes a challenge because CloudFormation does not natively provision Azure resources. This highlights a core IaC concept: tool /platform scope and portability across clouds.

Analysis of Incorrect Options (Distractors):

A (Reusable code base for any AWS region): CloudFormation templates are commonly reusable across AWS regions; region differences are typically handled via parameters, mappings, and region-specific resource availability-not a fundamental challenge.

B (Managing a new stack on AWS-native services): This is CloudFormation's strength: managing AWS-native services with declarative templates and stack updates.

C (Automating manual console provisioning): Another core use case for IaC-CloudFormation is designed to replace manual provisioning with repeatable automation.

Key Concept: IaC tool scope and portability-AWS CloudFormation is tightly coupled to AWS, limiting multi-cloud provisioning.

Reference: Terraform Objectives - Understand Infrastructure as Code (IaC) Concepts (automation, repeatability, portability)

