

Question 1 **Correct**

Based on the following configuration file, will the `data` block request that Terraform must read from a given data source and export the result so that they can be used as part of resource creation?

```
resource "aws_instance" "web" {  
  ami           = data.aws_ami.windows.id  
  instance_type = "t3.micro"  
  
  tags = {  
    Name = "HelloWorld"  
  }  
}
```

Your answer is correct

True

False

Overall explanation

<https://www.terraform.io/language/data-sources>

Question 2Correct

AWS EC2 instance is created with instance type `t2.micro` through your terraform configuration file `myec2.tf`

Now instance type needs to be updated to `t2.medium`.

You have changed your configuration file and ran `terraform plan`. After running terraform plan you check the output and saw one instance will be updated from `t2.micro` --> `t2.medium`.

The next day, you decide to run `terraform apply` command. Between this interval, a team member manually changed the instance type to `t2.medium` manually from AWS.

When you run terraform apply, what can happen?

**The instance type will be changed to `t2.micro` and again will be changed to `t2.medium`
1 resource will be updated and you will see the message : Apply Complete ! Resources : 0 added, 1 changed, 0 destroyed**

Your answer is correct

**No resource will be updated and you will see the message: Apply Complete !
Resources : 0 added, 0 changed, 0 destroyed
terraform apply will through an error**

Question 3Incorrect

In the following terraform setting, which of the following provider version that satisfies the version constraint of the AWS provider?

```
terraform {  
  required_providers {  
    aws = "~> 1.1.0"  
  }  
}
```

Correct selection

1.1.1

1.2.4

Your selection is correct

1.1.6

1.2.2

Question 4Correct

The Terraform documentation states that Terraform also automatically loads a number of variable definitions files if they are present.

Which of the files will be loaded automatically?

terraform.tfvar

Your selection is correct

Any files with names ending in .auto.tfvars.json

Your selection is correct

terraform.tfvars

Your selection is correct

terraform.tfvars.json

Overall explanation

<https://www.terraform.io/language/values/variables#variable-definitions-tfvars-files>

Question 5 **Incorrect**

Enterprise Corp has different environment running in different AWS regions.

Every region in AWS has a different AMI ID for Linux OS and these AMI IDs keeps on changing at regular intervals from AWS side.

What is the best approach to create the EC2 instances that can deal with different AMI IDs based on regions?

Correct answer

Use data source aws_ami.

Your answer is incorrect

Create a map of the region to ami id.

Create different configuration files for different regions.

None of the above

Resources

Question 6 **Correct**

Enterprise Corp has 3 environments named DEV, QA, and PROD

The Security team has asked for complete segregation between these environments including the backend, and also configurations since there will be different set of resources in each environments.

What is the approach to architect the terraform code to facilitate that

Make use of terraform workspaces

Your answer is correct

Create a separate set of folders. Each one will be associated with a specific environment.

Make use of Remote Backends.

None of the Above.

Question 7 **Incorrect**

What are the OS that are supported by Terraform Enterprise?

Your selection is correct

Ubuntu

Correct selection

Oracle Linux

Your selection is correct

Red Hat Enterprise Linux

Your selection is correct

CentOS

Correct selection

Amazon Linux

Correct selection

Debian

Overall explanation

<https://www.terraform.io/enterprise/requirements/os-specific/supported-os>

Question 8 **Incorrect**

Matthew wants to import a local module named `database`.

Which of the following configuration parameter can be used?

```
module "db" { source = "database"}
```

Your selection is correct

```
module "db" { source = "../database"}
```

Correct selection

```
module "db" { source = "../database"}
```

```
module "db" { source = "ftp:/database"}
```

Question 9 **Incorrect**

Matthew is a DevOps engineer and he has deployed the production infrastructure using Terraform.

He is using a very large configuration file to maintain and update the actual infrastructure.

As the infrastructure has grown to a very complex and large, he has started experiencing slowness when he run runs terraform plan.

What are the options for him to resolve this slowness?

Your selection is correct

Break large configurations into several smaller configurations that can each be independently applied.

Run terraform refresh every time before running terraform plan.

Correct selection

Use -refresh=false flag as well as the -target flag with terraform plan in order to work around this

None of the Above.

Question 10Correct

Which among the following Terraform backends support State locking functionality?

Your selection is correct

S3

artifactory

Your selection is correct

azurerm

Your selection is correct

consul

Active Directory

Overall explanation

<https://www.terraform.io/language/state/locking>

Question 11Correct

Which data storage among these is supported in Terraform Enterprise?

DynamoDB

Excel

Your answer is correct

PostgreSQL

MYSQL

Overall explanation

<https://www.terraform.io/enterprise/install/pre-install-checklist>

Question 12Correct

Which of the following VCS Providers are supported in Terraform Cloud? (Choose 4)

Your selection is correct

GitHub.com

Your selection is correct

Bitbucket Cloud

Your selection is correct

Azure DevOps Server

Your selection is correct

Azure DevOps Services

ECR

Overall explanation

<https://www.terraform.io/docs/cloud/vcs/index.html>

Question 13 **Correct**

Matt intends to add a set of comments in Terraform code to provide a description about the functionality of various terraform blocks in this project.

Which among these can be used to add comments in Terraform code?

<*>

Your selection is correct

#

Your selection is correct

/* and */

Your selection is correct

//

Overall explanation

<https://www.terraform.io/language/syntax/configuration#comments>

Question 14 **Incorrect**

Which of the following files are recommended to be excluded while committing Terraform Code to a Git Repository?

resources.tf

variables.tf

Correct selection

terraform.tfvars

Your selection is correct

terraform.tfstate

Overall explanation

Exclude all .tfvars files, which are likely to contain sensitive data, such as password, private keys, and other secrets.

These should not be part of version control as they are data points which are potentially sensitive and subject to change depending on the environment.

Question 15Correct

In a Terraform project, before using a new provider, what are the actions that needs to be performed?

Provider Plugins must be available in the Terraform Registry.

Provider Plugins must be approved by HashiCorp Team

Your selection is correct

Provider must first be initialized.

Your selection is correct

Provider details must be declared within the terra

Question 16Correct

There are certain EC2 instances that were created manually in AWS.

Matt is tasked to import these EC2 instances so that they can be managed via Terraform henceforth.

What tasks does Matt need to perform to ensure this?

Run terraform plan command so that existing resources will be updated.

Your answer is correct

Write the resource configuration block to which the imported object can be mapped with.

Run the terraform refresh command.

None of the above

Overall explanation

Because of this, prior to running terraform import it is necessary to write manually a resource configuration block for the resource, to which the imported object will be mapped.

Question 17Correct

Which of the following approach can be used to call a child module?

```
module "vms" {  
  sources = "./vm-config"  
}
```

Your answer is correct

```
module "vms" {  
  source = "./vm-config"  
}
```

None of the Above

Overall explanation

<https://www.terraform.io/docs/configuration/blocks/modules/syntax.html>

Question 18Correct

Enterprise Corp needs encryption at rest functionality as part of compliance requirements.

Currently, all the state files are stored in S3 backends.

Is this use-case supported?

Your answer is correct

True

False

Overall explanation

`encrypt` - (Optional) Enable server-side encryption of the state file.

<https://www.terraform.io/docs/backends/types/s3.html>

Question 19Correct

Can the Terraform Version be different from the Provider version?

Your answer is correct

Yes

No

Question 20Correct

If HashiCorp Vault is integrated with Terraform, can it hide the secrets from the State files?

True

Your answer is correct

False

Overall explanation

As of now, there is no mechanism to protect secrets in Terraform.

Question 21Correct

Which of the following OS is Terraform supported in? (Choose 3)

Your selection is correct

Linux

Your selection is correct

macOS

Unix

Solaris

Android

Your selection is correct

Windows

Overall explanation

<https://developer.hashicorp.com/terraform/enterprise/replicated/requirements/os-specific/supported-os>