

TA-002-P^{Q&As}

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QUESTION 1

Terraform Enterprise currently supports running under which the following operating systems?

- A. Ubuntu
- B. Amazon Linux
- C. Debian
- D. CentOS
- E. Red Hat Enterprise Linux
- F. Oracle Linux

Correct Answer: ABCDEF

A,B,C,D,E,F Terraform Enterprise runs on Linux instances, and you must prepare a running Linux instance for Terraform Enterprise before running the installer. You will start and manage this instance like any other server. Terraform Enterprise currently supports running under the following operating systems: Standalone deployment: Debian 7.7+ Ubuntu 14.04.5 / 16.04 / 18.04 Red Hat Enterprise Linux 7.4-7.8 CentOS 6.x / 7.4-7.8 Amazon Linux 2014.03 / 2014.09 / 2015.03 / 2015.09 / 2016.03 / 2016.09 / 2017.03 / 2017.09 / 2018.03 / 2.0 Oracle Linux 7.4-7.8 <https://www.terraform.io/docs/enterprise/before-installing/index.html>

QUESTION 2

Provisioners should only be used as a last resort.

- A. False
- B. True

Correct Answer: B

Provisioners are a Last Resort Terraform includes the concept of provisioners as a measure of pragmatism, knowing that there will always be certain behaviors that can't be directly represented in Terraform's declarative model. However, they also add a considerable amount of complexity and uncertainty to Terraform usage. Firstly, Terraform cannot model the actions of provisioners as part of a plan because they can in principle take any action. Secondly, successful use of provisioners requires coordinating many more details than Terraform usage usually requires: direct network access to your servers, issuing Terraform credentials to log in, making sure that all of the necessary external software is installed, etc. The following sections describe some situations which can be solved with provisioners in principle, but where better solutions are also available. We do not recommend using provisioners for any of the use-cases described in the following sections. Even if your specific use-case is not described in the following sections, we still recommend attempting to solve it using other techniques first, and use provisioners only if there is no other option. <https://www.terraform.io/docs/provisioners/index.html>

QUESTION 3

Where in your Terraform configuration do you specify a state backend?

- A. The terraform block
- B. The resource block
- C. The provider block
- D. The datasource block

Correct Answer: A

Backends are configured with a nested backend block within the top-level terraform block.

Reference: <https://www.terraform.io/docs/language/settings/backends/configuration.html>
<https://www.terraform.io/language/settings/backends/configuration#using-a-backend-block>

QUESTION 4

Your security team scanned some Terraform workspaces and found secrets stored in a plaintext in state files. How can you protect sensitive data stored in Terraform state files?

- A. Delete the state file every time you run Terraform
- B. Store the state in an encrypted backend
- C. Edit your state file to scrub out the sensitive data
- D. Always store your secrets in a secrets.tfvars file.

Correct Answer: B

QUESTION 5

Which of these is the best practice to protect sensitive values in state files?

- A. Blockchain
- B. Secure Sockets Layer (SSL)
- C. Enhanced remote backends
- D. Signed Terraform providers

Correct Answer: C

Use of remote backends and especially the availability of Terraform Cloud, there are now a variety of backends that will encrypt state at rest and will not store the state in cleartext on machines running. Reference: <https://www.terraform.io/docs/extend/best-practices/sensitive-state.html>