

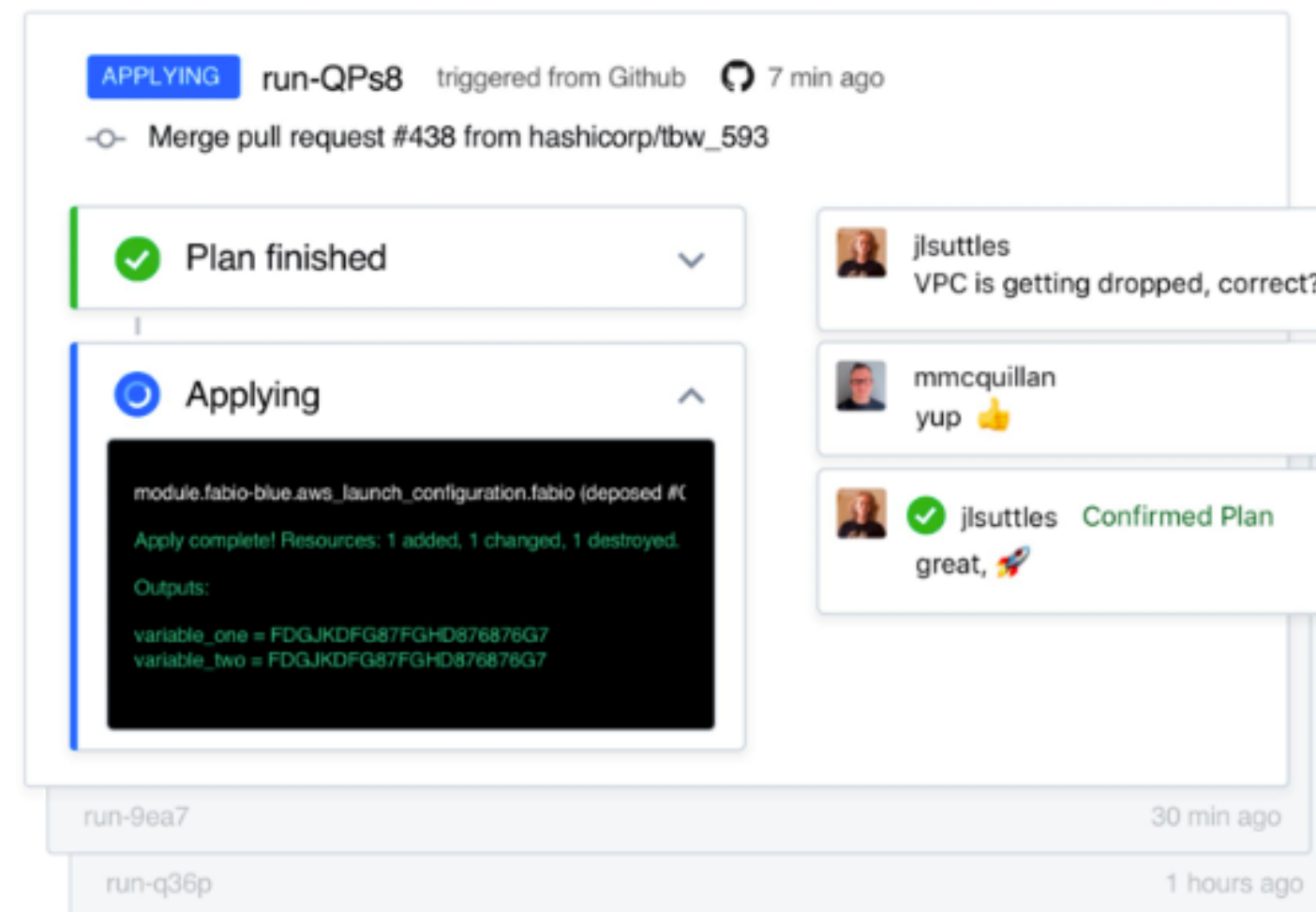
Terraform - DAY-5

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Terraform Cloud

Basics of Backends

Terraform Cloud manages Terraform runs in a consistent and reliable environment with various features like access controls, private registry for sharing modules, policy controls and others.



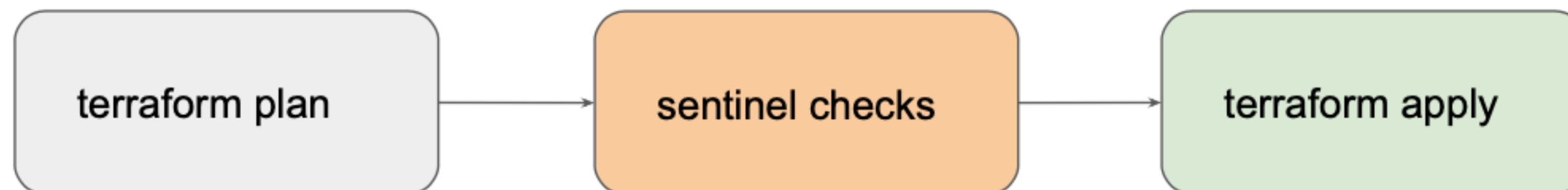
Sentinel

Overview of the Sentinel

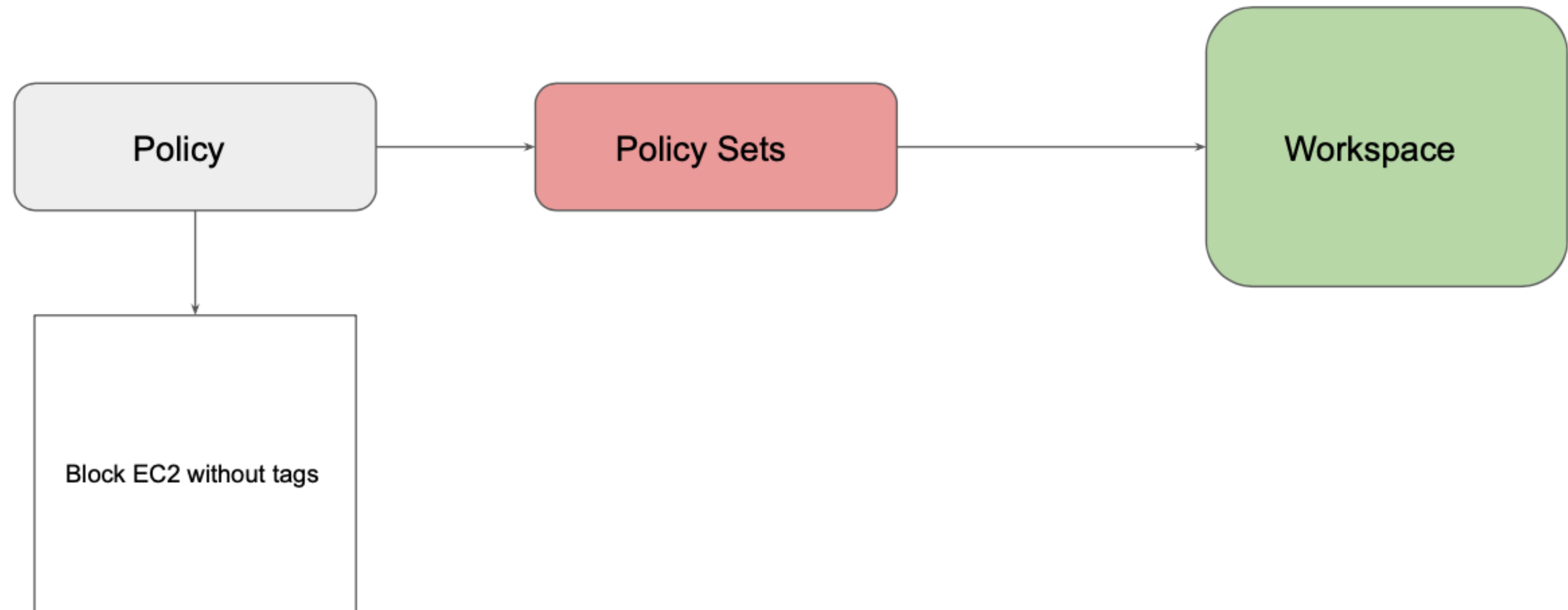
Sentinel is a policy-as-code framework integrated with the HashiCorp Enterprise products.

It enables fine-grained, logic-based policy decisions, and can be extended to use information from external sources.

Note: Sentinel policies are paid feature



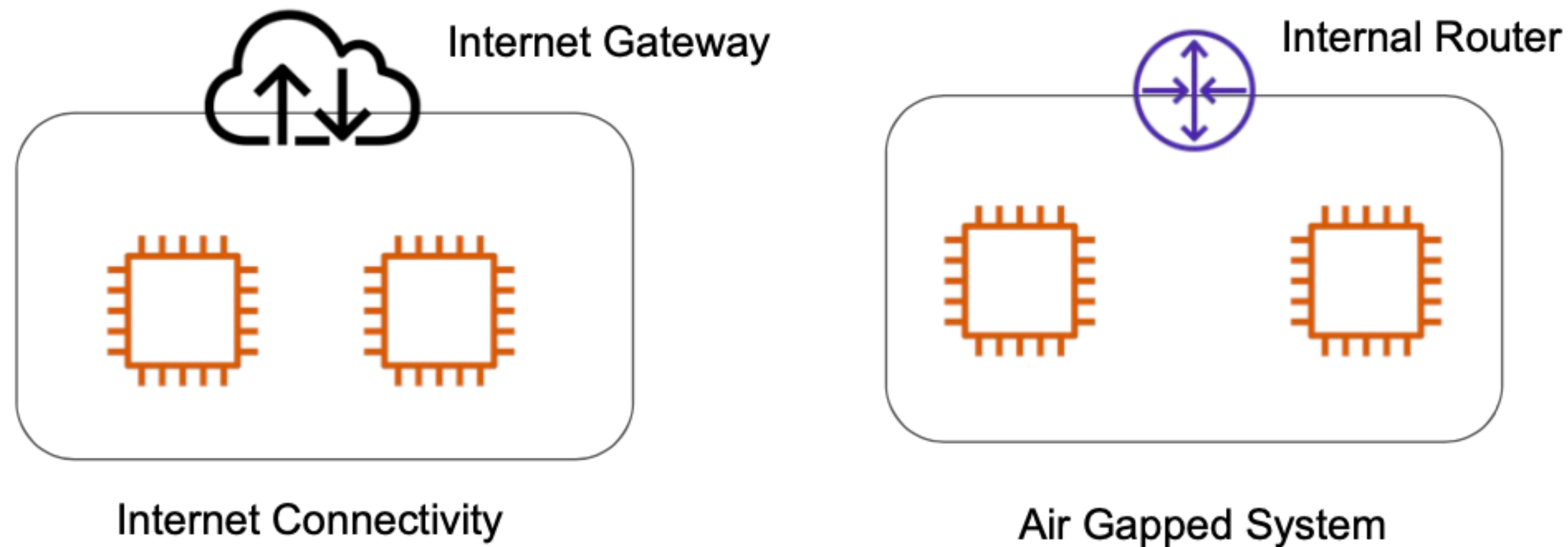
High Level Structure



Air-Gapped Environments

Understanding Concept of Air Gap

An air gap is a network security measure employed to ensure that a secure computer network is physically isolated from unsecured networks, such as the public Internet.



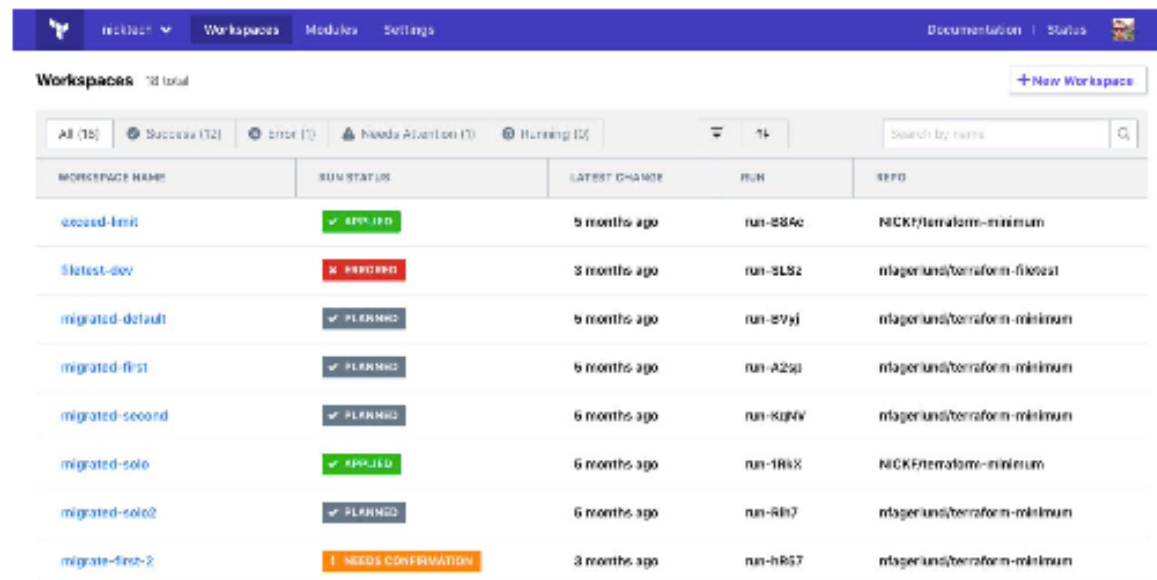
Usage of Air-Gapped Systems

Air Gapped Environments are used in various areas. Some of these include:

- Military/governmental computer networks/systems
- Financial computer systems, such as stock exchanges
- Industrial control systems, such as SCADA in Oil & Gas fields

Terraform Enterprise Installation Methods

Terraform Enterprise installs using either an online or air gapped method and as the names infer, one requires internet connectivity, the other does not



The screenshot shows the Terraform Enterprise web interface. At the top is a navigation bar with 'Workspace', 'Module', and 'Settings' tabs. Below the navigation bar, there's a 'Workspaces' section with a '+ New Workspace' button. A table lists various workspaces with columns for 'Workspace Name', 'Run Status', 'Latest Change', 'Run', and 'Repo'. The workspaces include 'seced-lint', 'latest-dev', 'migrated-default', 'migrated-first', 'migrated-second', 'migrated-sole', 'migrated-sole2', and 'migrate-first-2'. Each workspace has a corresponding status icon (green for 'APPLIED', red for 'ABORTED', grey for 'PLANNED', and orange for 'NEEDS CONFIRMATION').

WORKSPACE NAME	RUN STATUS	LATEST CHANGE	RUN	REPO
seced-lint	APPLIED	5 months ago	run-284c	NICKP/terraform-minimum
latest-dev	ABORTED	3 months ago	run-5L52	magerius/terraform-fixture
migrated-default	PLANNED	5 months ago	run-2Vyl	magerius/terraform-minimum
migrated-first	PLANNED	5 months ago	run-A293	magerius/terraform-minimum
migrated-second	PLANNED	6 months ago	run-K9Hv	magerius/terraform-minimum
migrated-sole	APPLIED	6 months ago	run-1R6X	NICKP/terraform-minimum
migrated-sole2	PLANNED	6 months ago	run-8h7	magerius/terraform-minimum
migrate-first-2	NEEDS CONFIRMATION	3 months ago	run-h857	magerius/terraform-minimum

Terraform Enterprise

Air Gap Install



Isolated Server

Choose your installation type



Online



Airgapped

Please choose an installation type to continue.

Continue »

Provide path or upload airgap bundle

Provide absolute path on this server to archive file

e.g. /mnt/installers/package.airgap

Continue »

Select file for upload

 Upload Airgap Bundle

To upload an app bundle, file must have a **.airgap** extension.

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How to structure your terraform projects?

Overview of HashiCorp Exams

Overview of HashiCorp Associate Exams

Overview of the basic exam related information.

Assessment Type	Description
Type of Exams	Multiple Choice
Format	Online Proctored
Duration	1 hour
Questions	57
Price	70.50 USD + Taxes
Language	English
Expiration	2 years

Multiple Choice

This includes various sub-formats, including:

- True or False
- Multiple Choice
- Fill in the blank

Format - Online Proctored

Important Rules to be followed:

- You are alone in the room
- Your desk and work area are clear
- You are connected to a power source
- No phones or headphones
- No dual monitors
- No leaving your seat
- No talking
- Webcam, speakers, and microphone must remain on throughout the test.
- The proctor must be able to see you for the duration of the test.

Registration Process

The high-level steps for registering for the exams are as follows:

1. Login to the HashiCorp Certification Page.
2. Register for Exams.
3. Check System Requirements
4. Download PSI Software
5. Best of Luck & Good Luck!

Questions?