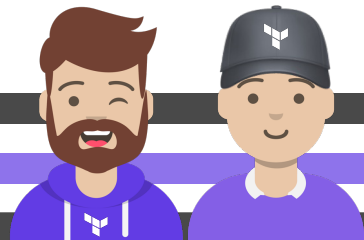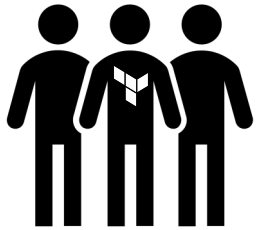# Terraform Cloud Organizations

What is an Organization?

- Shared spaces for teams to collaborate on workspaces, policies, and Terraform modules

- Organizations can have one to many teams

- Sentinel policies are defined and enforced at the organizational level across workspaces

- Organizations can be managed using the Organizations API, the UI, or the TFE Terraform provider using the `tfe_organization` resources
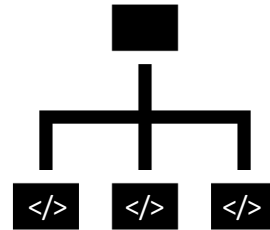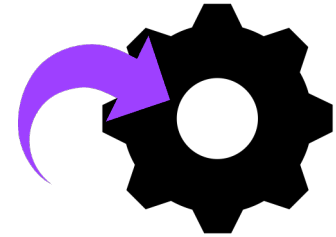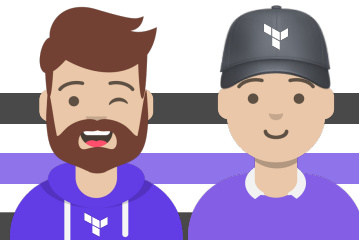
Organization Components

Users & Teams

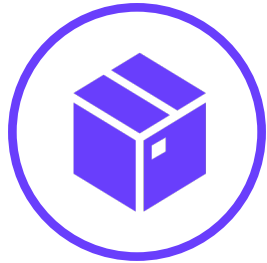Workspaces

Private Registry

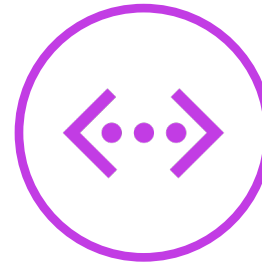Integrations

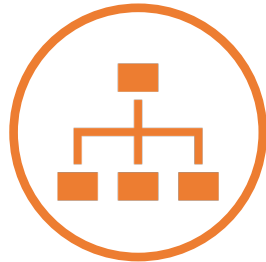# Organization Settings

Tokens

VCS

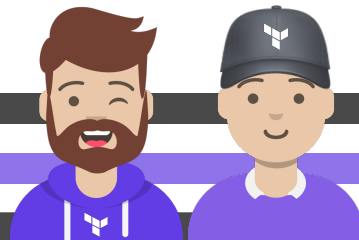Private Module Registry

Variables

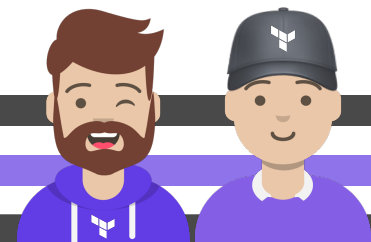Terraform Subscription Plan

Users
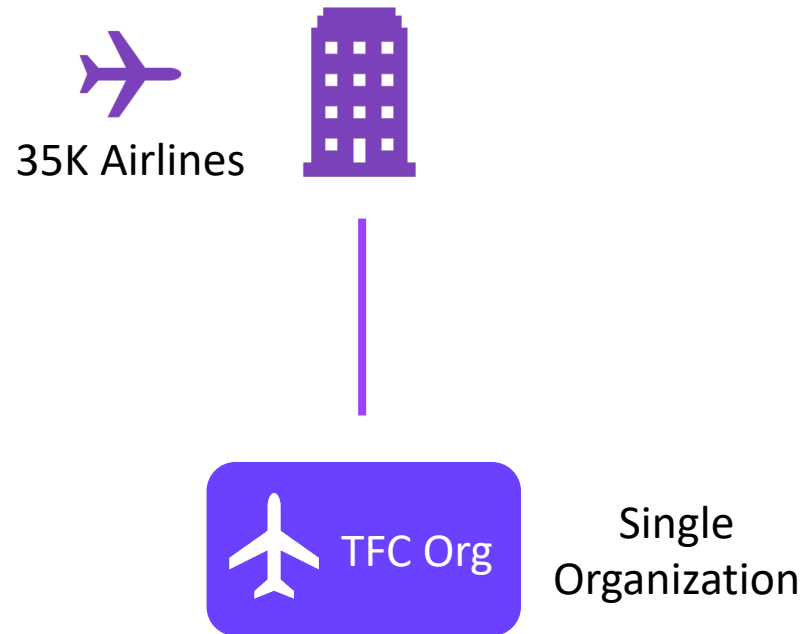
Teams

Sentinel

Tags

Permissions
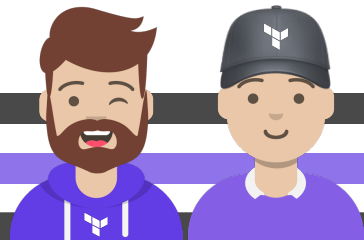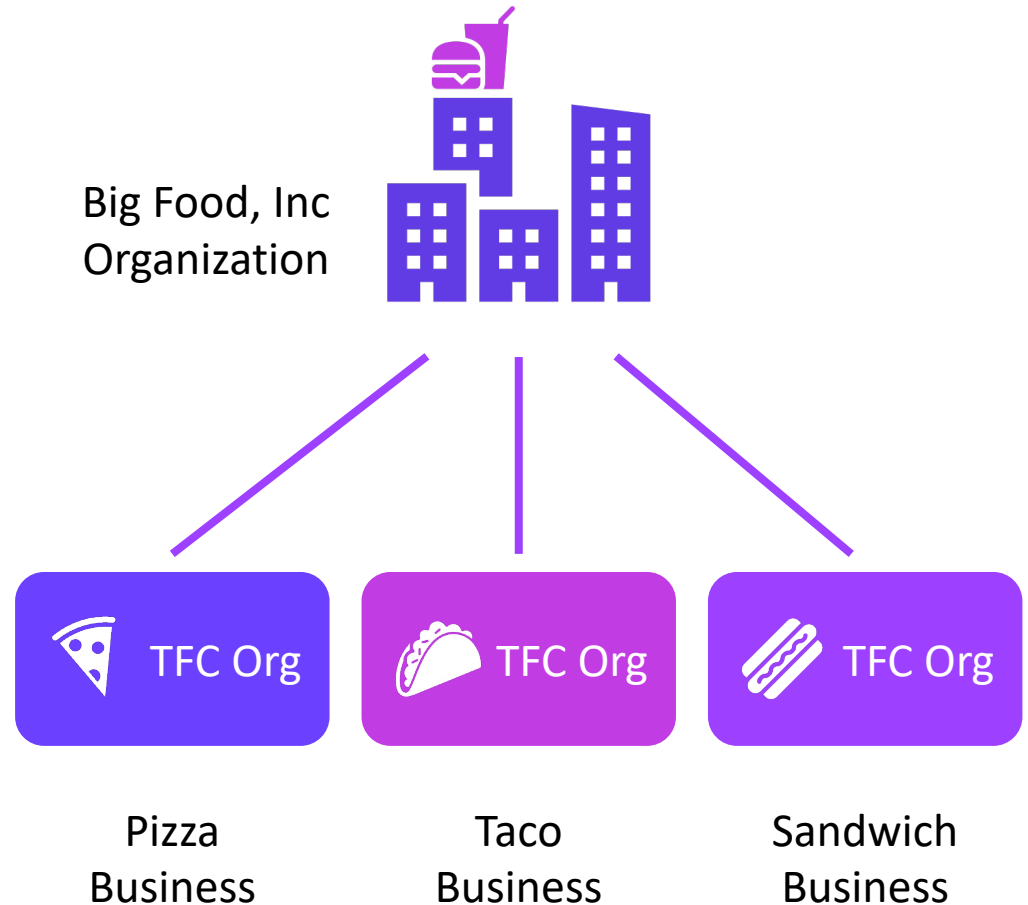
Creating an Organization

- You can create an organization, or you can be invited to one...

- Organizations are created when you sign up for Terraform Cloud

- You <u>must have</u> at least one organization to use TFC

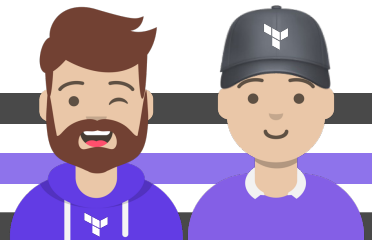- You can create additional organizations if you need

Organizing Your Organizations

35K Airlines

TFC Org

Single Organization

Most Common

Big Food, Inc Organization

TFC Org

TFC Org

TFC Org

Pizza Business

Taco Business

Sandwich Business

Users

gabe@training.com

Registry
Sentinel
Tokens
Teams

Pizza Organization

Taco Organization
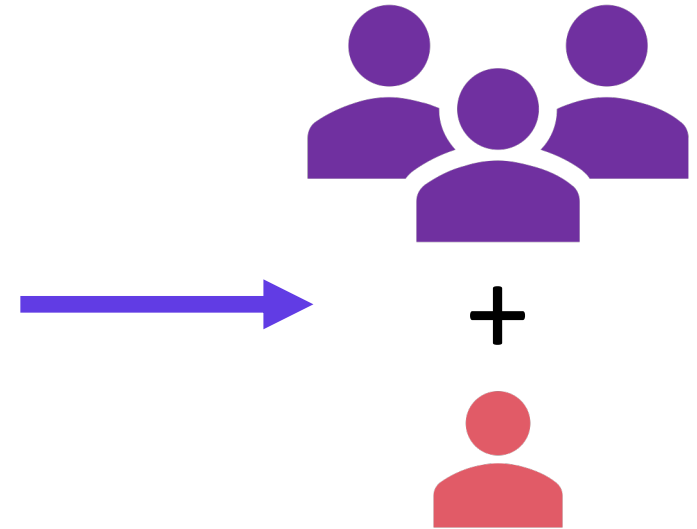
Sandwich Organization
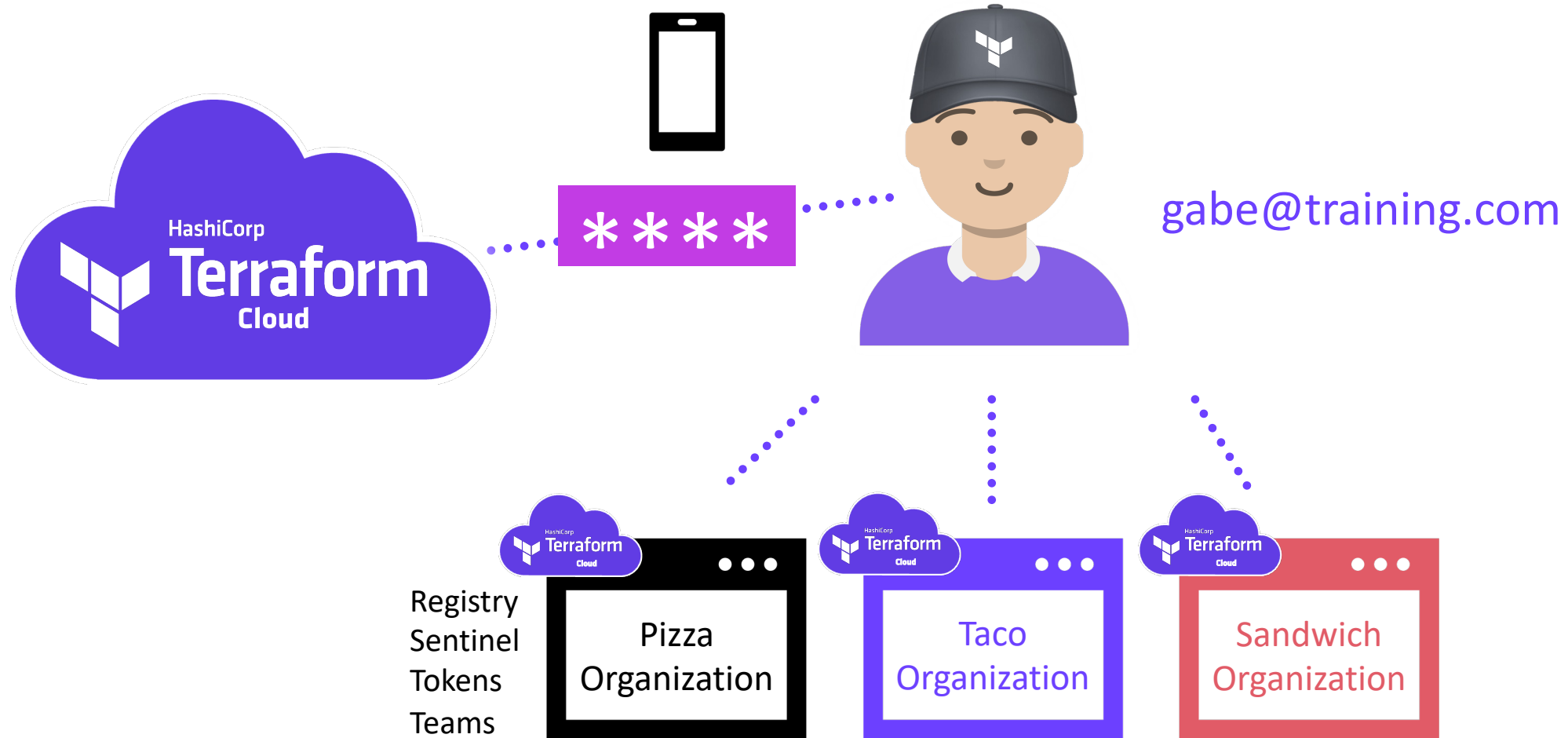
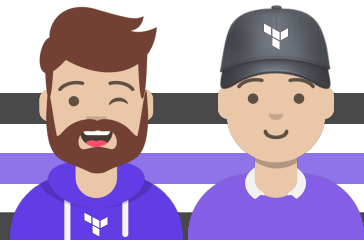# Adding Users to the Organization

Organization   Email Invite   Accept Invitation   Join Group

END OF SECTION

Authenticating to Terraform Cloud
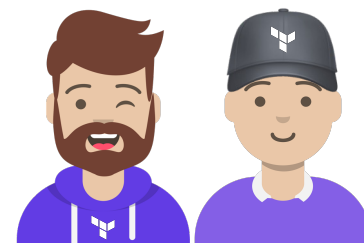
Web Interface

CLI

```
# Log in to Terraform Cloud or Enterprise

$ terraform login [hostname]


# Log out of Terraform Cloud or Enterprise

$ terraform logout [hostname]
```
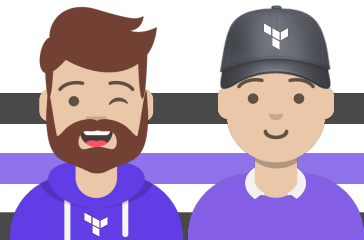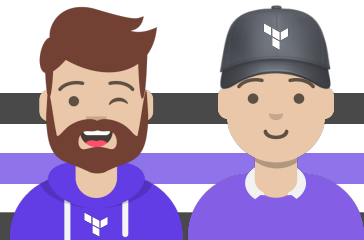
API

```
# Interact with Terraform Cloud API

$ curl \
  --header "Authorization: Bearer $TOKEN" \
  --header "Content-Type: application/vnd.api+json" \
  --request GET \
  https://app.terraform.io/api/v2/organizations\?page\[number\]\=1\&page
```

Token-Based Authentication

User Tokens

A user API token has the same permission level as your user account. It is the only type of token which can be granted access to multiple organizations. Generate user API tokens on your [user settings page](#).

Team Tokens

Team API tokens are used by services, for example, a CI/CD pipeline, to perform plans and applies on a workspace. To generate a team API token, go to the [Teams](#) page in your organization settings, select a team, and generate a new token at the bottom of its page.

Organization Tokens

The organization API token is used to manage teams, team membership and workspaces. This token does not have permission to perform plans and applies in workspaces. For more information, see the [organization service account documentation.](#)
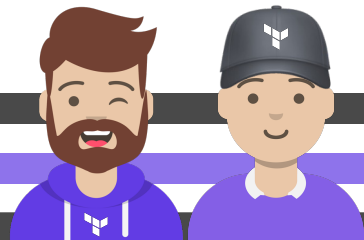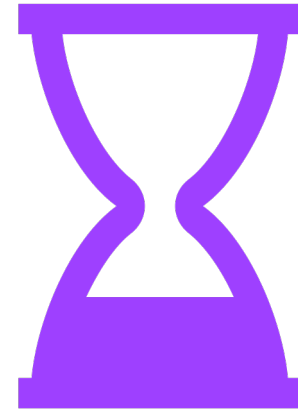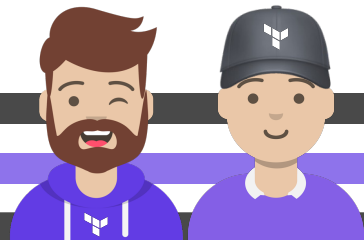
Managing Authentication

Multi-Factor
Authentication

SSH Keys

Session
Duration

END OF SECTION