



API Driven Workflows

Hello!

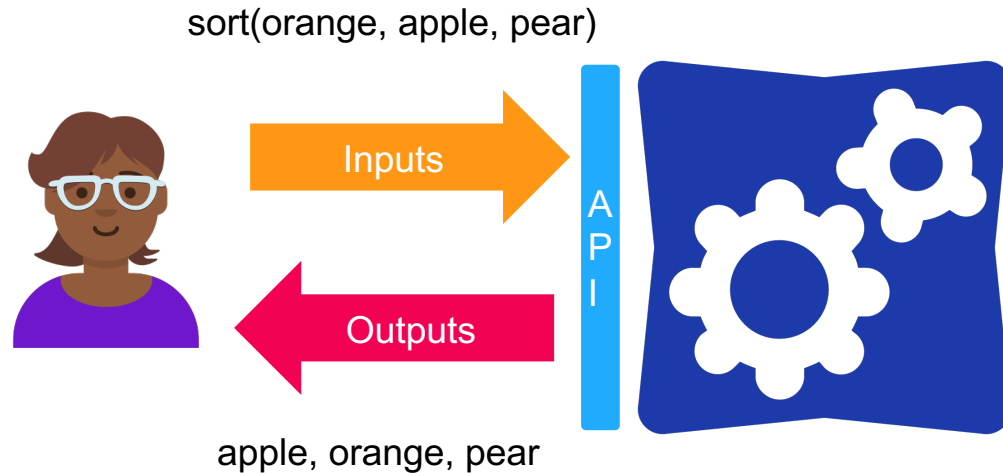
API Driven Workflows

Orchestrating the process of creating and maintaining infrastructure by leveraging APIs to perform actions.

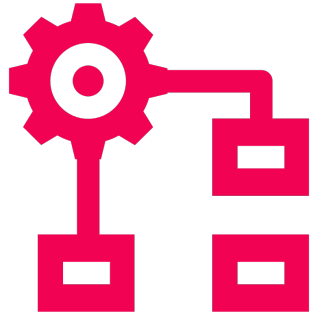


An Application Programming Interface is a way to interact with software using well-defined instructions. Using APIs enables the automation of manual tasks.

Application Programming Interfaces (APIs)



Types of APIs



RPC



REST



GraphQL

API Interaction



Direct access



Graphical Interface



Precompiled tools



Software development kits



Software Development Kits

Use Common Tools

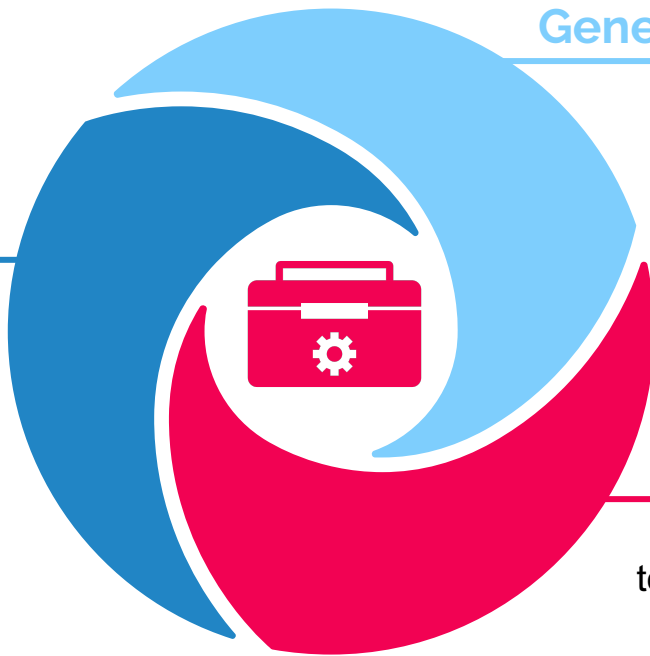
Leverage all the common programming tools like testing, linting, and scanning.

General Purpose Language

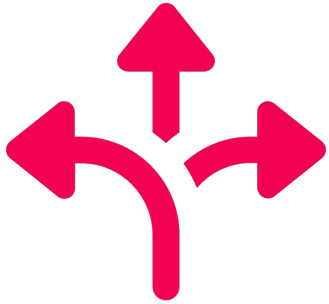
SDKs provide libraries for general purpose programming languages to use.

Multiple APIs

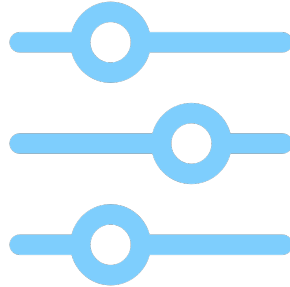
A single SDK can stitch together multiple APIs into a unified library.



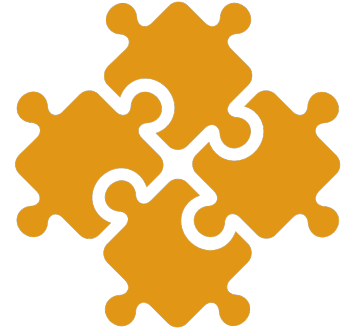
API Driven Workflow Benefits



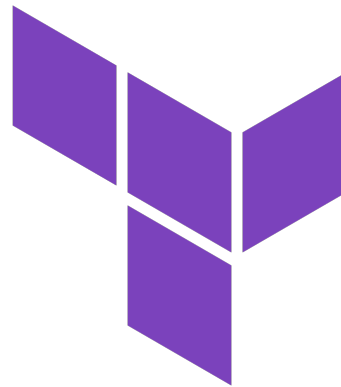
Flexibility



Customization



Integration



HashiCorp

Terraform

APIs in Terraform

Terraform Providers

Written in
Go

Target SDK
or API

Terraform Cloud

Public API

Provider in
Terraform

Web
Interface

Integrations

Terraform Cloud Workflows



Command line interface

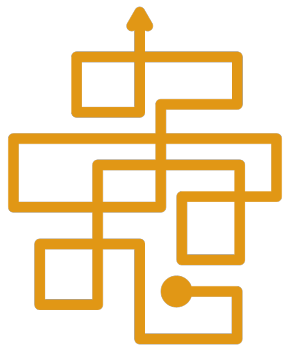


Version control system



Application programming interface

API Workflow



Most complicated and
flexible

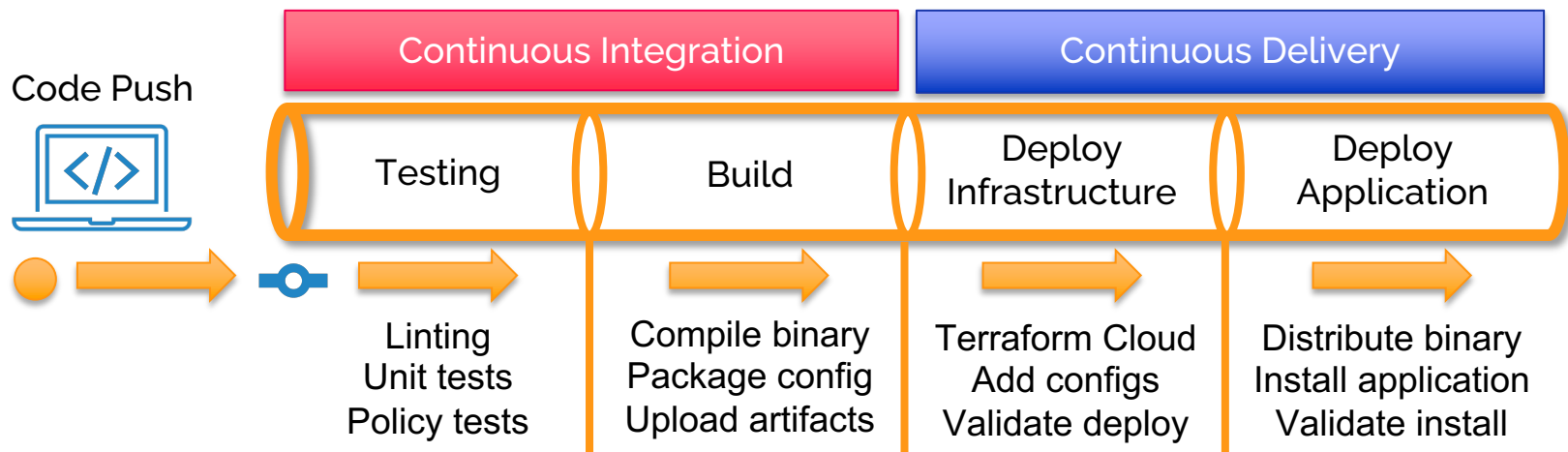


Bundle configurations
in tarball



Relies on external
orchestration

API Workflow



Summary

- ▷ Application programming interfaces are a contract between the client and the app
- ▷ APIs can be used in an automation workflow to interact with other services and applications
- ▷ Terraform Cloud and Enterprise have APIs that can integrate with your existing workflow



Diagrams and infographics

