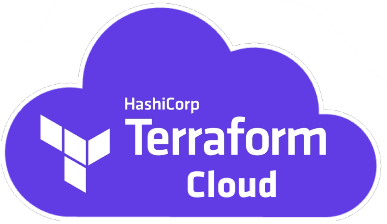
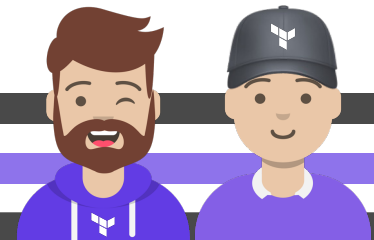
Terraform Cloud Workflows

How Your Team Works

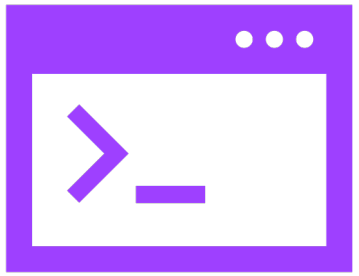


Terraform Cloud can be used as a part of your team's existing workflows, or you can evolve your team workflows to take advantage of Terraform Cloud features.

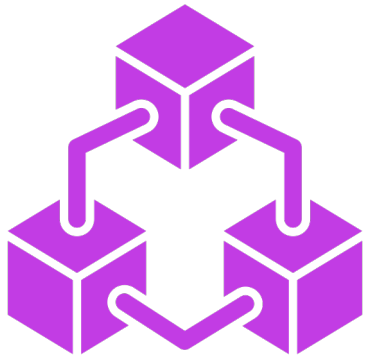
- Manual: Queue runs on demand
- Semi-auto: plan runs on VCS commit
- Continuous Infrastructure: apply on VCS commit



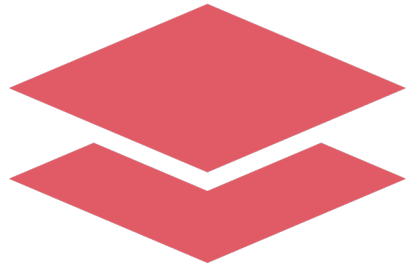
Types of Workflows



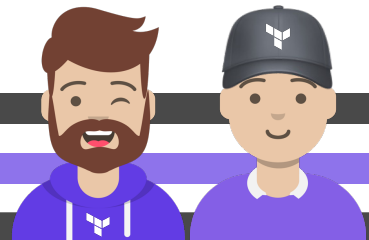
Command Line
(CLI)



Version Control Software
(VCS)

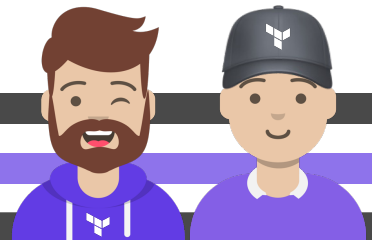


API



Terraform CLI Workflow

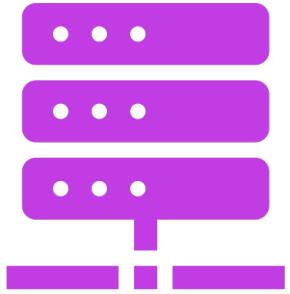
- Terraform Cloud's default Workflow
- Most familiar workflow for users who are already using Terraform OSS
- Brings Terraform Cloud's collaboration features into the familiar Terraform CLI workflow.



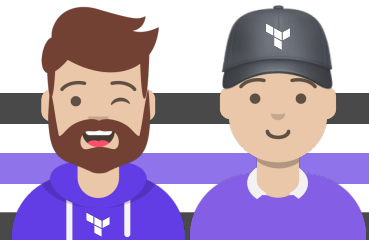
Terraform CLI Workflow

Cloud Engineer

State Stored in TFC / Both Local & Remote Executions Supported



Cloud Resources

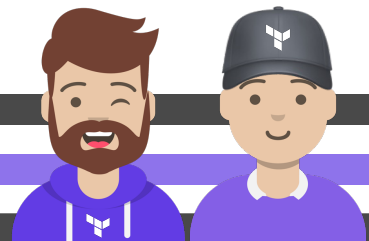


Terraform CLI Workflow

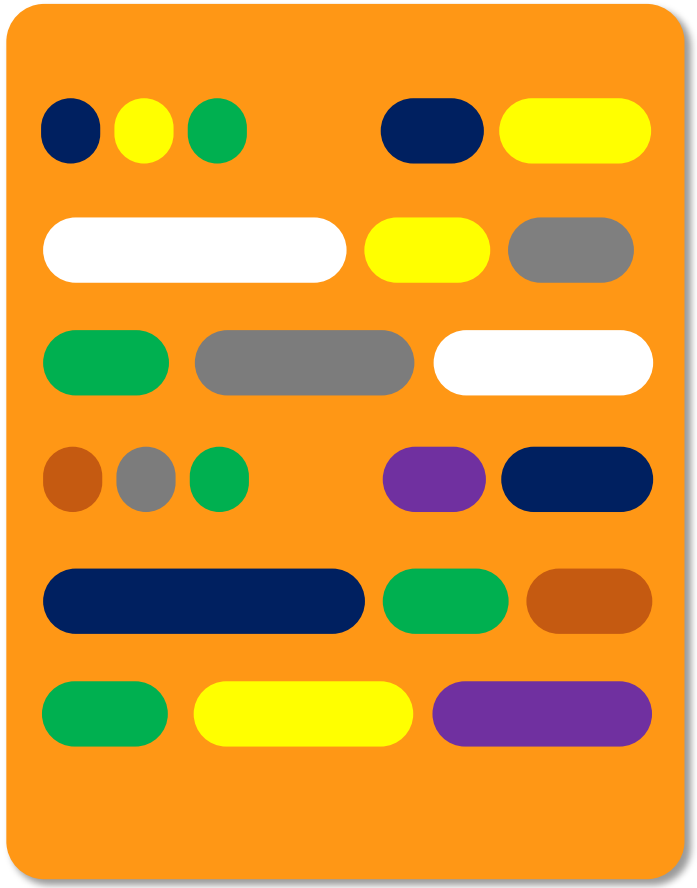
cloud.tf

```
# Terraform 1.1 and Later

terraform {
  cloud {
    hostname     = "app.terraform.io"
    organization = "my-organization"
    workspaces {
      name = "bagapp-web-aws-prod"
    }
  }
}
```



Version Control Workflow



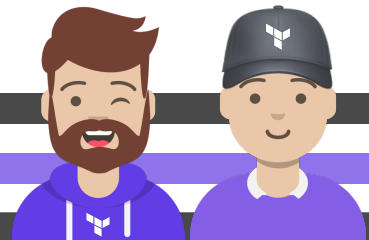
Code is now stored in a Repository

VCS Connections:

- GitHub, GitLab, BitBucket, Azure DevOps
- SSH Keys

Everything goes through Version Control now

- Developer commits code
- Gets commit hash in GitHub
- Triggers a Terraform run

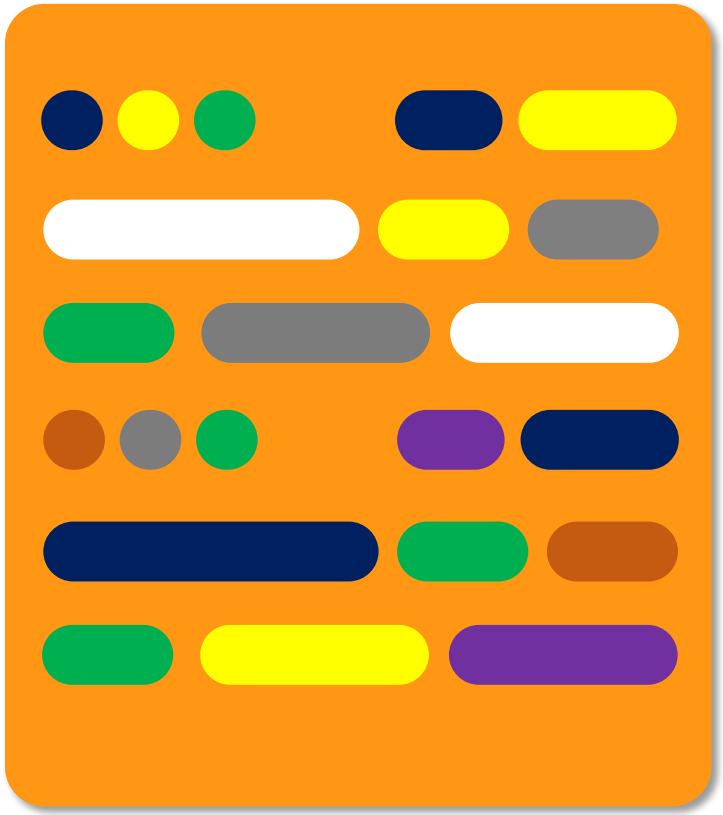


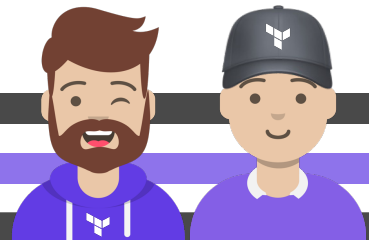
Version Control Workflow

Terraform Runs are integrated with Git operations:

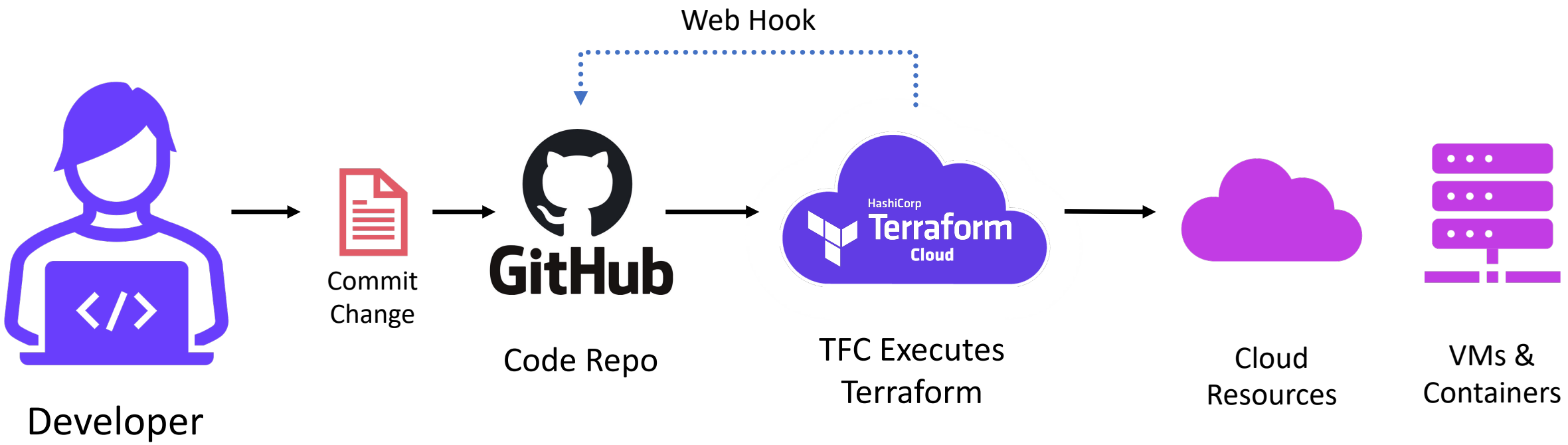
- VCS Branch
- Working Directory

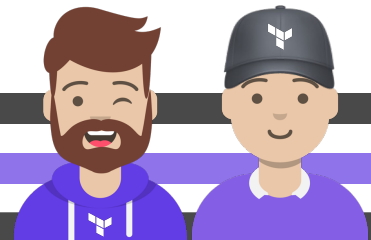
Dev workspaces are now listening for commits on your dev repo



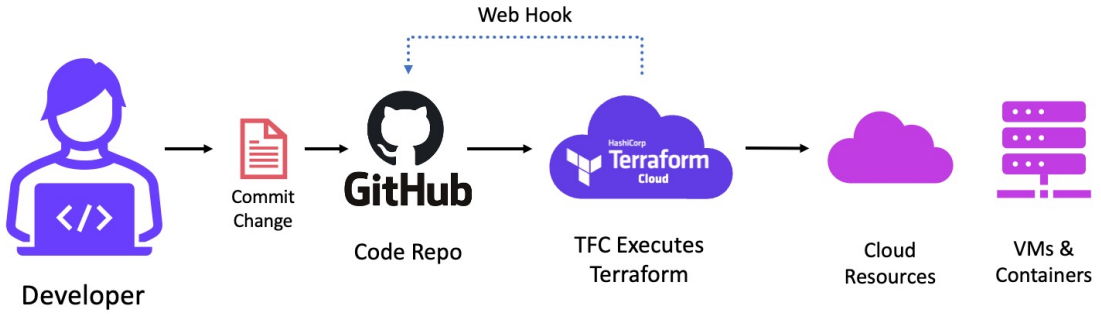


Version Control Workflow

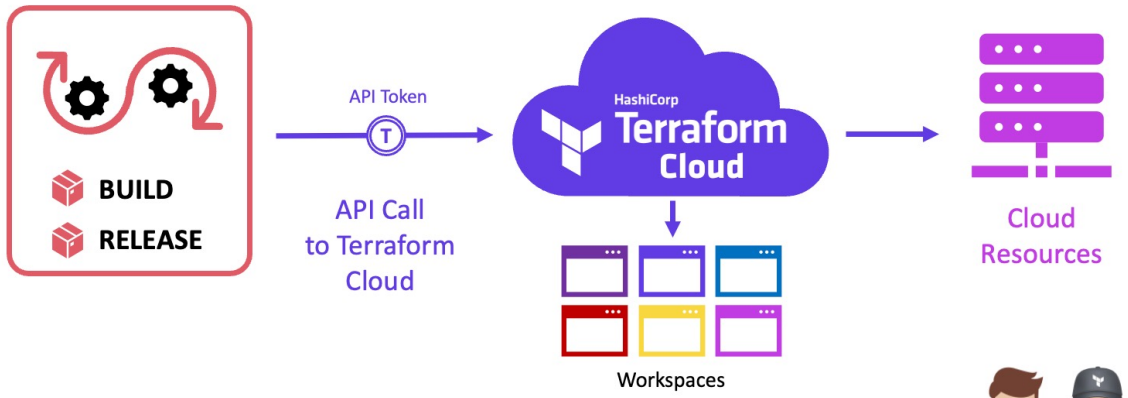




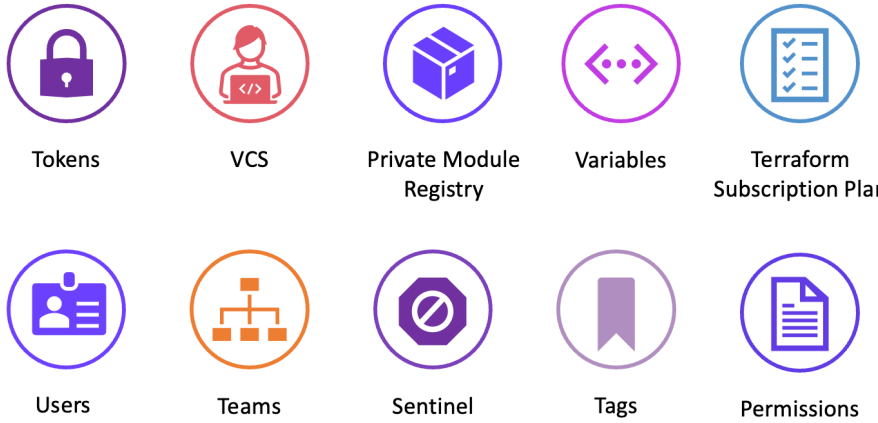
Version Control Workflow



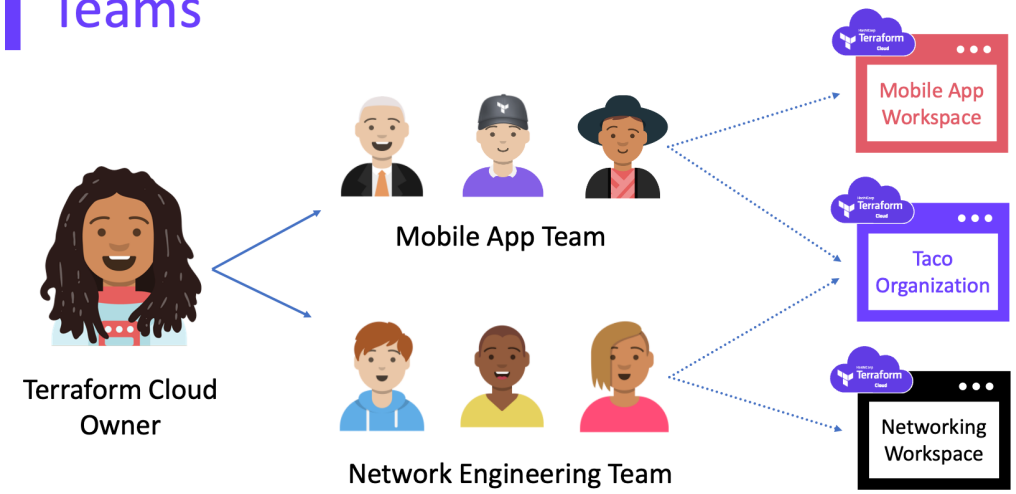
API Workflow



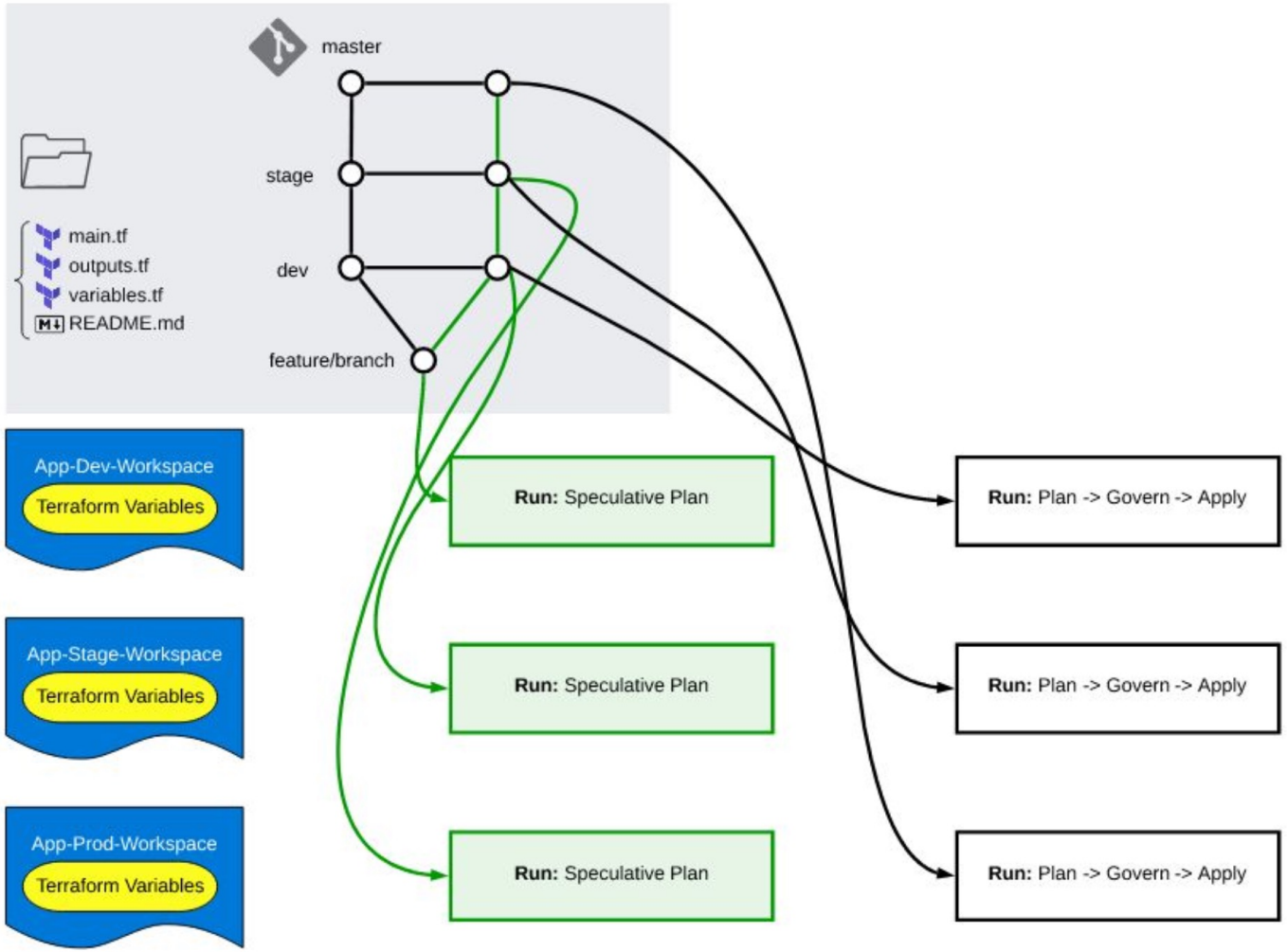
Organization Settings

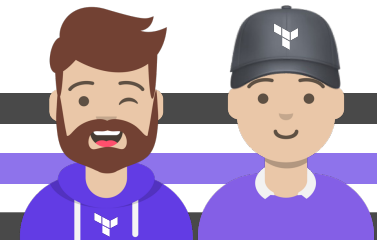


Teams

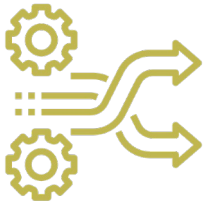


Version Control Workflow





API Workflow

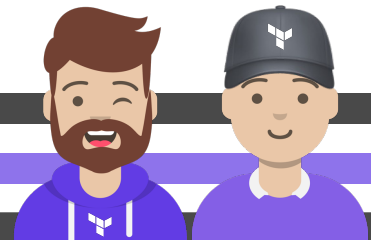


Often used for complex and automated workflows

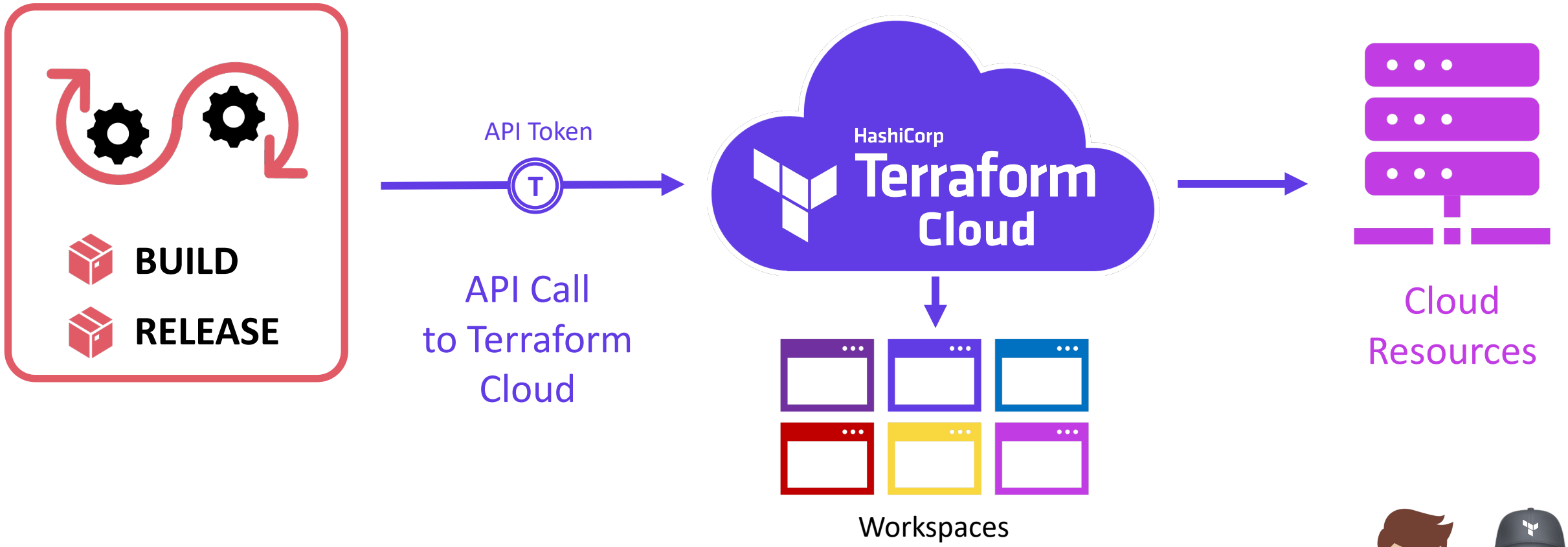
Requires tokens for authentication to systems

Trigger runs through an external system (CI/CD)

Configurations are bundled by an external system



API Workflow



END OF SECTION