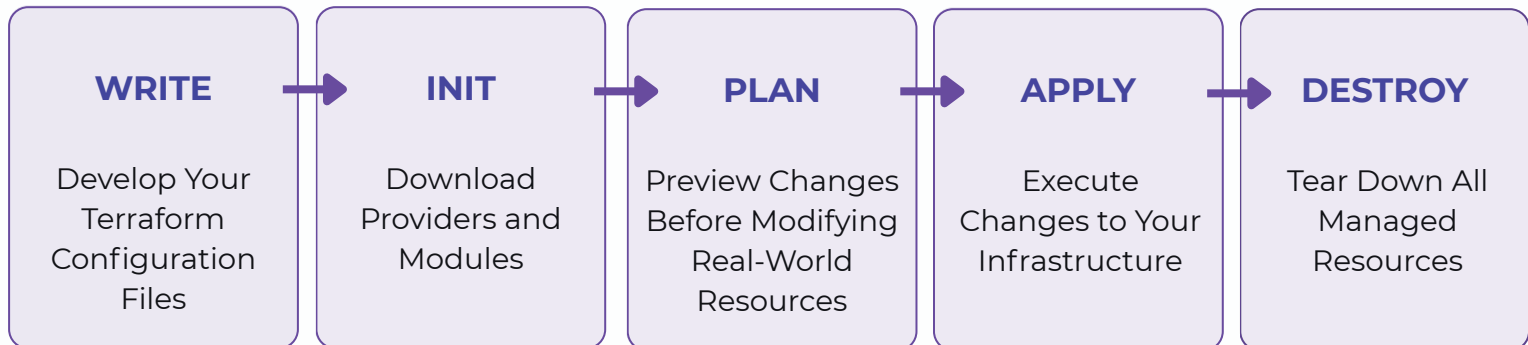


Terraform CLI & Core Workflow

Essential Commands, Block Types & Developer Workflow - from Write to Apply

WORKFLOW

Core Terraform Workflow - Write, Plan, Apply



BLOCKS

HCL Block Types

resource **data** **variable** **output**

locals **module** **provider** **terraform**

resource - creates & manages infra objects

data - reads existing external data

variable - parameterizes configuration

output - exposes values after apply

locals - computed intermediate values

terraform - settings, backend & required_providers

module - consume repeatable packages

CLI

Essential Commands

terraform init Initialize working directory

terraform fmt Format files to canonical style

terraform validate Check config syntax & logic

terraform plan Preview execution plan

terraform apply Apply changes to infrastructure

terraform destroy Destroy managed resources

terraform output Read output values

terraform console Interactive expression evaluation

terraform graph Generate dependency graph

terraform providers Show required providers

VARS

Variable Definition Precedence

ENV (TF_VAR_) → **terraform.tfvars** → ***.auto.tfvars** → **-var-file flag** → **-var flag**

CLI **-var** and **-var-file** always override file-based and environment definitions. Auto-loaded files are processed in alphabetical order.

FLAGS

Useful Flags

-auto-approve Skip confirmation prompt

-target= Apply to specific resource

-var= Set variable inline

-var-file= Load variable file

-refresh-only Update state, no changes

-out=plan.out Save plan to file

CLI

Environment Variables

TF_LOG TRACE, DEBUG, etc

TF_LOG_PATH Write logs to file

TF_VAR_name Set input variable

HCP

HCP Terraform

```

terraform {
  cloud {
    organization="org"
    workspaces {
      name="my-app"
    }
  }
}
  
```