# Installation

**Installing Chocolatey:**

Set-ExecutionPolicy Bypass -Scope Process -Force; iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))

**Install Terraform:**

choco install terraform

**Verify:**

Run the command: terraform

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# Configuration

Create a directory for the new configuration

mkdir learning

Create a file for the configuration code.

example.tf

Paste the below script:

|  |
| --- |
| provider "aws" {  profile = "default"  region = "us-east-1"  }  resource "aws\_instance" "example" {  ami = "ami-2757f631"  instance\_type = "t2.micro"  } |

**Initialization:**

The first command to run for a new configuration -- or after checking out an existing configuration from version control -- is terraform initThe terraform init command downloads and installs providers used within the configuration, which in this case is the aws provider.

**Validation**

Terraform configuration can be validated by running the command terraform validate

**Apply Changes**

In the same directory as the example.tf file you created, run terraform apply, to see the changes which will be applied by the configuration file.

**State file (.tfstate)**

Terraform also wrote some data into the terraform.tfstate file. This state file is extremely important; it keeps track of the IDs of created resources so that Terraform knows what it is managing.This file must be saved and distributed to anyone who might run Terraform. It is generally recommended to [setup remote state](https://www.terraform.io/docs/state/remote.html) when working with Terraform, to share the state automatically.

You can inspect the current state using terraform show

**Destroy an Infrastructure:**

The terraform destroy command terminates resources defined in your Terraform configuration. This command is the reverse of terraform apply in that it terminates all the resources specified by the configuration. It does *not* destroy resources running elsewhere that are not described in the current configuration.