

1 Download Terraform

1. Go to the official Terraform website: <https://www.terraform.io/downloads>
 2. Select Windows (64-bit) or Windows (386-bit) depending on your system.
 3. Download the `.zip` file.
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2 Extract Terraform

1. Extract the downloaded `.zip` file to a folder, e.g.: `C:\Terraform`
 2. Inside the folder, you should see `terraform.exe`.
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3 Add Terraform to System PATH

1. Press `Win + S`, search for **Environment Variables**, and open **Edit the system environment variables**.
 2. Click **Environment Variables...**
 3. Under **System Variables**, find `Path` → Click **Edit** → Click **New**
 4. Add the folder path where `terraform.exe` is located, e.g.: `C:\Terraform`
 5. Click **OK** → OK → OK to close all windows.
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4 Verify Installation

1. Open **Command Prompt** or **PowerShell**
2. Run:

```
terraform -version
```

3. You should see something like:

```
Terraform v1.13.4  
on windows_386
```

✓ Terraform is correctly installed.

5 Optional: Create a Working Folder

1. Create a folder for your Terraform projects, e.g.: `C:\TerraformProjects\MyFirstProject`
 2. Inside the folder, create your `.tf` files.
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6 Initialize Terraform in a Project

1. Open **Command Prompt** in your project folder.
2. Run:

```
terraform init
```

3. Terraform downloads required providers and prepares the project.
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7 Test a Simple Terraform Plan

1. Create a simple `main.tf` for AWS EC2:

```
provider "aws" {  
  region = "us-east-2"  
}  
  
resource "aws_instance" "example" {  
  ami           = "ami-0c94855ba95c71c99"  
  instance_type = "t3.micro"  
}
```

2. Run:

```
terraform plan  
terraform apply
```

3. Terraform will show the execution plan and ask for confirmation to deploy.
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✓ Tips

- Always check **Terraform version** after installation.
- Use **PowerShell or VS Code terminal** for best experience.
- For AWS, make sure **AWS CLI is installed and configured** (`aws configure`).