

Terraform Training



Installation:-

```
Administrator: Windows PowerShell
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Windows\system32> terraform --version
Terraform v1.1.9
on windows_386
PS C:\Windows\system32>
```

Terraform init:-

```
Windows PowerShell
command = "echo 'Hello From Chandradeep' > myfile.txt"
}
}
PS C:\terraform> terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/null...
- Installing hashicorp/null v3.1.1...
- Installed hashicorp/null v3.1.1 (signed by HashiCorp)

Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
run this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
```

Terraform Plan:-

```
Windows PowerShell
PS C:\terraform> terraform plan

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  create

Terraform will perform the following actions:

  # null_resource.web will be created
  resource "null_resource" "web" {
    id = (known after apply)
  }

Plan: 1 to add, 0 to change, 0 to destroy.
```

Terraform Apply:-

```
Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.
PS C:\terraform> terraform apply

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  create

Terraform will perform the following actions:

  # null_resource.web will be created
  resource "null_resource" "web" {
    id = (known after apply)
  }

Plan: 1 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

null_resource.web: Creating...
null_resource.web: Provisioning with 'local-exec'...
null_resource.web (local-exec): Executing: ["cmd" "/c" "echo 'Hello From Chandradeep' > myfile.txt"]
null_resource.web: creation complete after 0s [id=1989347999]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
PS C:\terraform>
```

File created in Windows Powershell :-

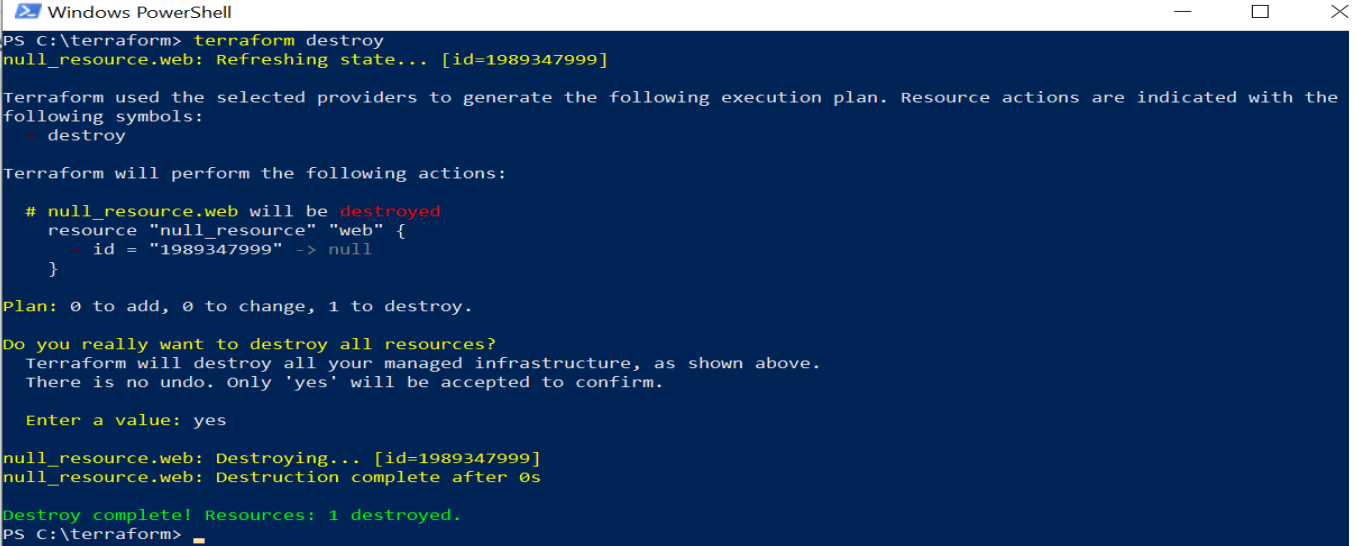
```
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
PS C:\terraform> ls

Directory: C:\terraform

Mode                LastWriteTime         Length Name
----                -
d-----          03-05-2022   17:19             .terraform
-a-----          03-05-2022   17:19          1152 .terraform.lock.hcl
-a-----          03-05-2022   17:10           130 main.tf
-a-----          03-05-2022   17:20           27 myfile.txt
-a-----          03-05-2022   17:20          569 terraform.tfstate

PS C:\terraform> cat ./myfile.txt
'Hello From Chandradeep'
PS C:\terraform>
```

Terraform Destroy:-



```
Windows PowerShell
PS C:\terraform> terraform destroy
null_resource.web: Refreshing state... [id=1989347999]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the
following symbols:
- destroy

Terraform will perform the following actions:

# null_resource.web will be destroyed
- resource "null_resource" "web" {
  id = "1989347999" -> null
}

Plan: 0 to add, 0 to change, 1 to destroy.

Do you really want to destroy all resources?
Terraform will destroy all your managed infrastructure, as shown above.
There is no undo. Only 'yes' will be accepted to confirm.

Enter a value: yes

null_resource.web: Destroying... [id=1989347999]
null_resource.web: Destruction complete after 0s

Destroy complete! Resources: 1 destroyed.
PS C:\terraform>
```