SubmittedBy:Vanshika Garg Submitted To:Mr.Hitesh Kumar Sharmasir SapID:500061511 RollNo:R171217059 Devops2017-2021 Batch B2

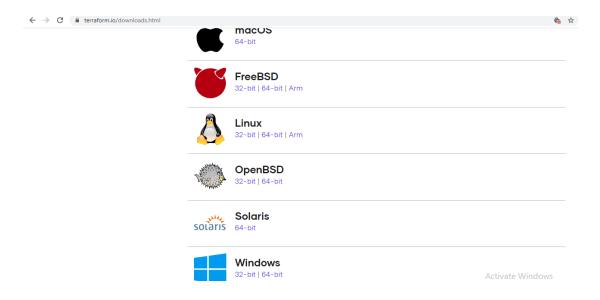
# System Provisioning And Configuration Managment Assignment -1

Terraform is a really handy tech tool that lets you build, change, and version infrastructure safely and efficiently. ... Terraform is quietly revolutionising DevOps by changing the way infrastructure is managed, and making it faster and more efficient to execute DevOps projects. Terraform by HashiCorp, an AWS Partner Network (APN) Advanced Technology Partner and member of the AWS DevOps Competency, is an "infrastructure as code" tool similar to AWS CloudFormation that allows you to create, update, and version your Amazon Web Services (AWS) infrastructure

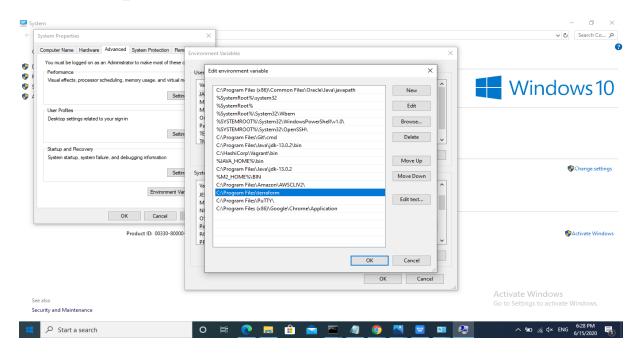
### How to do the configuration

## 1- Download it on your system from the given URL

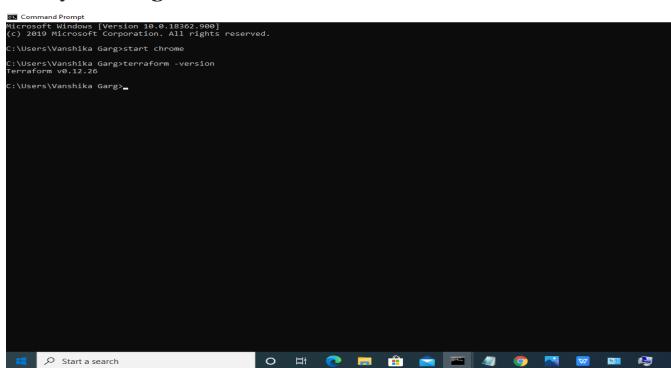
#### https://www.terraform.io/downloads.html



## 2- Set the path



# 3- Check whether it has been working properly or not by running the command terraform -version



4-Make a directoy do the Aws configure by giving your credentials make the file using the extension .tf . Run the terraform init command. Terraform init commandis used to initialize a working directory containing Terraform configuration files. This is the first command that should be run after writing a new Terraform configuration. It will provide you the plugins.

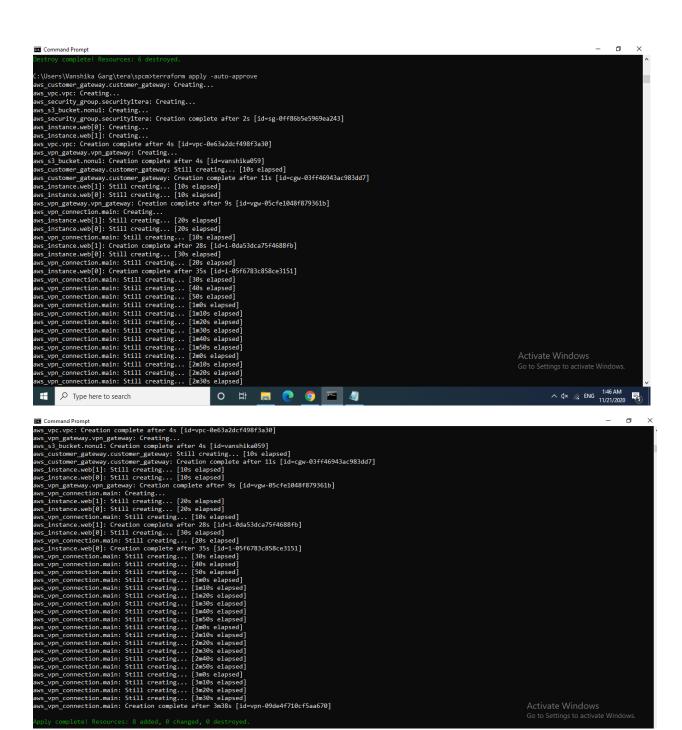
```
Initializing the backend...
Initializing provider plugins...
The following providers do not have any version constraints in configuration,
so the latest version was installed.
To prevent automatic upgrades to new major versions that may contain breaking changes, it is recommended to add version = "..." constraints to the
corresponding provider blocks in configuration, with the constraint strings
suggested below.
  provider.aws: version = "~> 2.66"
  provider.null: version = "~> 2.1"
Warning: Interpolation-only expressions are deprecated
  on g1.tf line 81, in resource "aws_volume_attachment" "attach1":
81: volume_id = "${aws_ebs_volume.e1.id}"
Terraform 0.11 and earlier required all non-constant expressions to be
provided via interpolation syntax, but this pattern is now deprecated. To silence this warning, remove the "${ sequence from the start and the }"
sequence from the end of this expression, leaving just the inner expression.
Template interpolation syntax is still used to construct strings from
expressions when the template includes multiple interpolation sequences or a
mixture of literal strings and interpolations. This deprecation applies only
to templates that consist entirely of a single interpolation sequence.
(and 4 more similar warnings elsewhere)
 erraform has been successfully initialized!
 hould now work.
```

```
vanshika059 - Notepad
File Edit Format View Help
provider "aws"{
region="ap-south-1"
profile="Garg"
resource "aws_security_group" "security1tera" {
           = "security1tera"
 description = "Security for instance"
 vpc_id = "vpc-68f0ed00"
 ingress {
  from_port = 443
  to_port = 443
  protocol = "tcp"
  cidr_blocks = ["0.0.0.0/0"]
ingress {
  from_port = 80
  to_port = 80
                                                                                               Activa
  protocol = "tcp"
vanshika059 - Notepad
File Edit Format View Help
  from_port = 80
 to_port = 80
  protocol = "tcp"
  cidr\_blocks = ["0.0.0.0/0"]
ingress {
  from_port = 22
  to_port = 22
  protocol = "tcp"
 cidr\_blocks = ["0.0.0.0/0"]
 }
 egress {
 from_port = 0
  to_port = 0
 protocol = "-1"
  cidr_blocks = ["0.0.0.0/0"]
                                                                                Activate Windows
                                                                                Go to Settings to activate Windows
```

```
wanshika059 - Notepad
File Edit Format View Help
                                                                                                     - 5
key_name ="os1"
security\_groups = ["\$\{aws\_security\_group.security1tera.name\}"]
tags = {
  Name = "Vgwebos1"
 }
}
resource "aws_vpc" "vpc" {
 cidr_block = "10.0.0.0/16"
}
resource "aws_vpn_gateway" "vpn_gateway" {
 vpc_id = aws_vpc.vpc.id
                                                                                       Activate Windows
Go to Settings to activate Window
                                                                                       100% Windows (CRLF) UTF-8
                                                                            Ln 17, Col 1

    ⊕ Type here to search

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vanshika059 - Notepad
File Edit Format View Help
 vpc_id = aws_vpc.vpc.id
resource "aws_customer_gateway" "customer_gateway" {
 bgp_asn = 65000
 ip_address = "172.0.0.1"
 type = "ipsec.1"
resource "aws_vpn_connection" "main" {
 vpn_gateway_id = aws_vpn_gateway.vpn_gateway.id
 customer_gateway_id = aws_customer_gateway.customer_gateway.id
             = "ipsec.1"
 static_routes_only = true
resource "aws_s3_bucket" "nonu1" {
bucket="vanshika059"
acl ="public-read"
                                                                                           Go to Settings to activate Windows
```



Activate Windows

