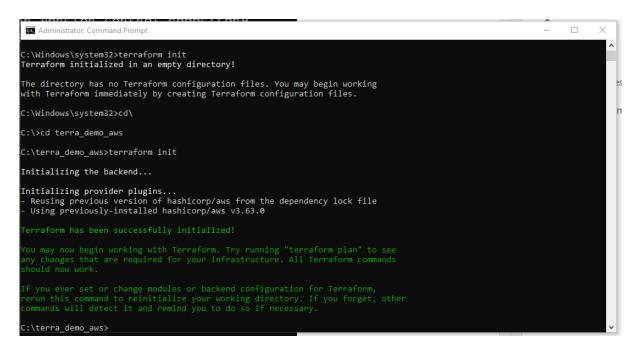
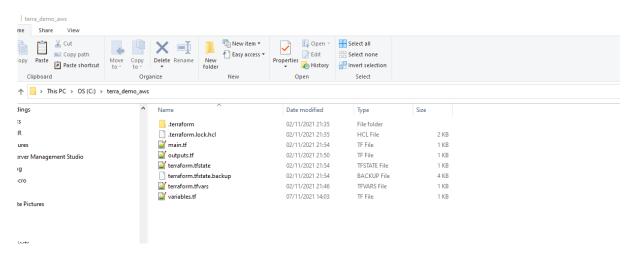
#### 1. Install Terraform and AWS CLI



#### 2. Terraform folder with files created



## 3. Terraform Versions

```
Administrator: Command Prompt

Microsoft Windows [Version 10.0.19044.1348]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>terraform version
Terraform v1.0.8
on windows_amd64

Your version of Terraform is out of date! The latest version
is 1.0.11. You can update by downloading from https://www.terraform.io/downloads.html

C:\Windows\system32>aws --version
aws-cli/2.3.2 Python/3.8.8 Windows/10 exe/AMD64 prompt/off

C:\Windows\system32>
```

## 4. Terraform Init & Validate

```
C:\terra_demo_aws>terraform init

Initializing the backend...

Initializing provider plugins...
Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v3.63.0

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, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

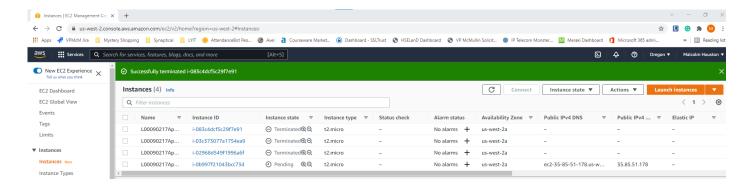
C:\terra_demo_aws>terraform validate
Success! The configuration is valid.
```

#### 5. Terraform apply

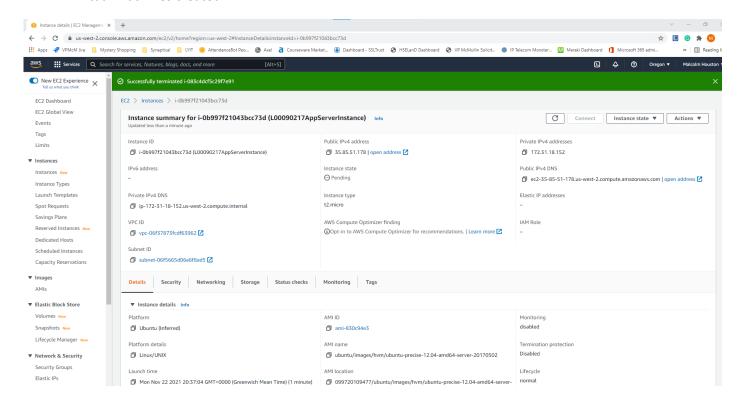
```
Administrator: Command Prompt - terraform apply
C:\terra_demo_aws>terraform apply
 erraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following
 symbols:
 erraform will perform the following actions:
  # aws_instance.app_server will be created
+ resource "aws_instance" "app_server" {
+ ami
                                                                                            "ami-08d70e59c07c61a3a"
                                                                                           (known after apply)
(known after apply)
              arn
associate_public_ip_address
availability_zone
cpu_core_count
cpu_threads_per_core
disable_api_termination
                                                                                           (known after apply)
(known after apply)
                                                                                           (known after apply)
(known after apply)
              ebs_optimized
get_password_data
host_id
id
                                                                                            (known after apply)
false
                                                                                           (known after apply) (known after apply)
              instance_initiated_shutdown_behavior =
instance_state =
instance_type
ipv6_address_count =
ipv6_addresses ==
                                                                                           (known after apply)
(known after apply)
"t2.micro"
(known after apply)
(known after apply)
(known after apply)
              key_name
monitoring
                                                                                          (known after apply)
              outpost_arn
password_data
              placement_group
placement_partition_number
              primary_network_interface_id
private_dns
private_ip
public_ip
public_ip
                                                                                           (known after apply)
(known after apply)
              public_ip
secondary_private_ips
security_groups
source_dest_check
subnet_id
                                                                                           (known after apply)
                                                                                       = (known after apply)
              tags
+ "Name" = "L00090217AppServerInstance"
```

```
Administrator: Command Prompt
                                                               = (known after apply)
         = (known after apply)
= (known after apply)
= (known after apply)
                + device_name
                + encrypted
                   iops
                   kms_key_id
                                                     = (known after apply)
                   tags
                                                     = (known after apply)
                                                     = (known after apply)
= (known after apply)
= (known after apply)
                   throughput
                  volume_id
volume_size
volume_type
                                                      = (known after apply)
 Plan: 1 to add, 0 to change, 0 to destroy.
Changes to Outputs:
      instance_id = (known after apply)
instance_public_ip = (known after apply)
 Oo you want to perform these actions?
   Terraform will perform the actions described above. Only 'yes' will be accepted to approve.
   Enter a value: yes
 aws_instance.app_server: Creating...
aws_instance.app_server: Creating...
aws_instance.app_server: Still creating... [10s elapsed]
aws_instance.app_server: Still creating... [20s elapsed]
aws_instance.app_server: Still creating... [30s elapsed]
aws_instance.app_server: Still creating... [40s elapsed]
aws_instance.app_server: Still creating... [50s elapsed]
aws_instance.app_server: Creation complete after 53s [id=i-0b997f21043bcc73d]
 Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
instance_id = "i-0b997f21043bcc73d"
instance_public_ip = "35.85.51.178"
 C:\terra_demo_aws>_
```

6. Virtual machines being installed with previous version of the instance.



## 7. Virtual machines created.



# 8. Terraform Destroy

