

Terraform Task

Task Description:

Launch Linux EC2 instances in two regions using a single Terraform file.

Us region and mumbai region:

```
aws [Alt+S] United States (N. Virginia) Ashok

The following NEW packages will be installed:
  terraform
0 upgraded, 1 newly installed, 0 to remove and 86 not upgraded.
Need to get 28.4 MB of archives.
After this operation, 93.6 MB of additional disk space will be used.
Get:1 https://apt.releases.hashicorp.com noble/main amd64 terraform amd64 1.12.2-1 [28.4 MB]
Fetched 28.4 MB in 0s (103 MB/s)
Selecting previously unselected package terraform.
(Reading database ... 70681 files and directories currently installed.)
Preparing to unpack .../terraform_1.12.2-1_amd64.deb ...
Unpacking terraform (1.12.2-1) ...
Setting up terraform (1.12.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-43-59:~$ terraform --version
Terraform v1.12.2
on linux_amd64
ubuntu@ip-172-31-43-59:~$

i-Of349963e77632c47
PublicIPs: 3.81.117.246 PrivateIPs: 172.31.43.59

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```

```
aws [Alt+S] United States (N. Virginia) Ashok

ubuntu@ip-172-31-43-59:~/multi-region-ec2$ nano main.tf
ubuntu@ip-172-31-43-59:~/multi-region-ec2$ nano variables.tf
ubuntu@ip-172-31-43-59:~/multi-region-ec2$ nano outputs.tf
ubuntu@ip-172-31-43-59:~/multi-region-ec2$ terraform init
Command 'terraform' not found, did you mean
  command 'terraform' from snap terraform (1.12.2)
See 'snap info <snapname>' for additional versions.
ubuntu@ip-172-31-43-59:~/multi-region-ec2$ terraform init
Initializing the backend...
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v6.4.0...
- Installed hashicorp/aws v6.4.0 (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.

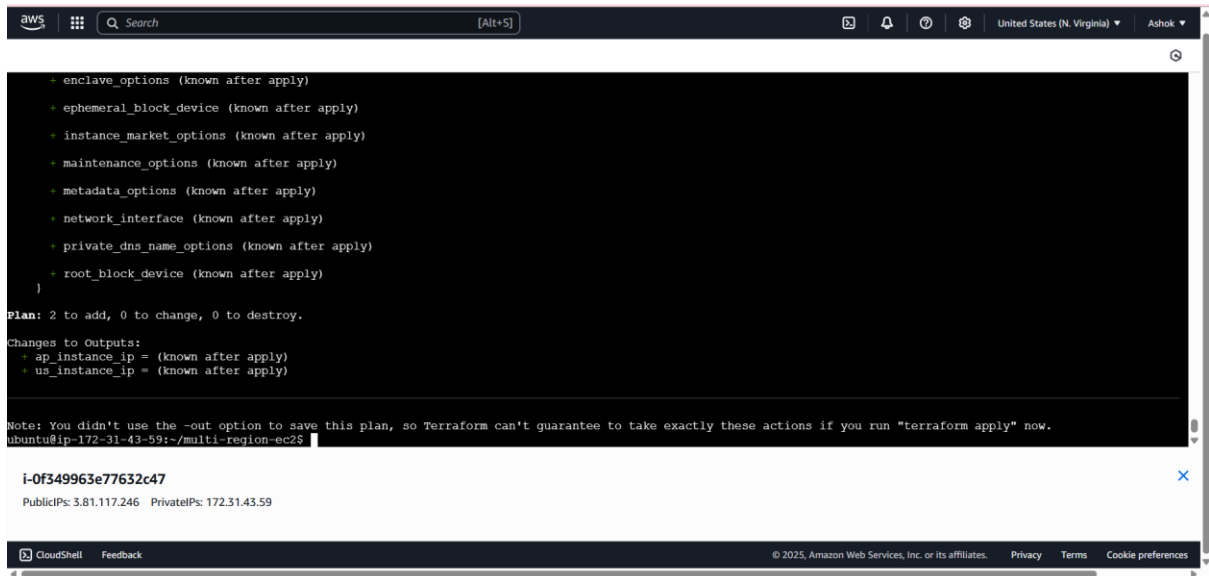
Terraform has been successfully initialized!

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,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
ubuntu@ip-172-31-43-59:~/multi-region-ec2$

i-Of349963e77632c47
PublicIPs: 3.81.117.246 PrivateIPs: 172.31.43.59

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```



```
ubuntu@ip-172-31-8-139:~/multi-region-ec2$ terraform init
Initializing the backend...
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v6.4.0...
- Installed hashicorp/aws v6.4.0 (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,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
ubuntu@ip-172-31-8-139:~/multi-region-ec2$ |
```

```

+ placement_group           = (known after apply)
+ placement_partition_number = (known after apply)
+ primary_network_interface_id = (known after apply)
+ private_dns               = (known after apply)
+ private_ip                = (known after apply)
+ public_dns                = (known after apply)
+ public_ip                 = (known after apply)
+ region                    = "us-east-1"
+ secondary_private_ips     = (known after apply)
+ security_groups           = (known after apply)
+ source_dest_check         = true
+ spot_instance_request_id  = (known after apply)
+ subnet_id                 = (known after apply)
+ tags                      = {
+   + "Name" = "EC2-US-EAST"
+ }
+ tags_all                  = {
+   + "Name" = "EC2-US-EAST"
+ }
+ tenancy                   = (known after apply)
+ user_data_base64          = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids    = (known after apply)

+ capacity_reservation_specification (known after apply)

+ cpu_options (known after apply)

+ ebs_block_device (known after apply)

+ enclave_options (known after apply)

+ ephemeral_block_device (known after apply)

+ instance_market_options (known after apply)

+ maintenance_options (known after apply)

+ metadata_options (known after apply)

+ network_interface (known after apply)

+ private_dns_name_options (known after apply)

+ root_block_device (known after apply)
}

```

Plan: 2 to add, 0 to change, 0 to destroy.

Changes to Outputs:

```

+ ap_instance_ip = (known after apply)
+ us_instance_ip = (known after apply)

```

Do you want to perform these actions?

Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.

Enter a value:

Final output:

Changes to Outputs:

```

+ ap_instance_ip = (known after apply)
+ us_instance_ip = (known after apply)

```

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

```

aws_instance.ec2_us: Creating...
aws_instance.ec2_ap: Creating...
aws_instance.ec2_us: Still creating... [00m10s elapsed]
aws_instance.ec2_ap: Still creating... [00m10s elapsed]
aws_instance.ec2_us: Still creating... [00m20s elapsed]
aws_instance.ec2_ap: Still creating... [00m20s elapsed]
aws_instance.ec2_us: Still creating... [00m30s elapsed]
aws_instance.ec2_ap: Still creating... [00m30s elapsed]
aws_instance.ec2_us: Creation complete after 32s [id=i-0d06506cd6e59c80a]
aws_instance.ec2_ap: Creation complete after 35s [id=i-04515bc21b649a245]

```

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.

Outputs:

```

ap_instance_ip = "13.235.77.136"
us_instance_ip = "54.221.46.249"
ubuntu@ip-172-31-43-59:~/multi-region-ec2$

```

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.

Outputs:

```

ap_instance_ip = "3.110.54.248"
us_instance_ip = "54.236.20.135"
ubuntu@ip-172-31-8-139:~/multi-region-ec2$

```

Outputs:

```
ap_instance_ip = "13.235.77.136"
```

```
us_instance_ip = "54.221.46.249"
```

```
ubuntu@ip-172-31-43-59:~/multi-region-ec2$
```

```
ubuntu@ip-172-31-8-139: ~/multi-region-ec2
```

```
+ tenancy = (known after apply)
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)
+ capacity_reservation_specification (known after apply)
+ cpu_options (known after apply)
+ ebs_block_device (known after apply)
+ enclave_options (known after apply)
+ ephemeral_block_device (known after apply)
+ instance_market_options (known after apply)
+ maintenance_options (known after apply)
+ metadata_options (known after apply)
+ network_interface (known after apply)
+ private_dns_name_options (known after apply)
+ root_block_device (known after apply)
}
```

```
Plan: 2 to add, 0 to change, 0 to destroy.
```

```
Changes to Outputs:
```

```
+ ap_instance_ip = (known after apply)
+ us_instance_ip = (known after apply)
```

```
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
```

```
aws_instance.ec2_ap: Creating...
aws_instance.ec2_us: Creating...
aws_instance.ec2_ap: Still creating... [0m10s elapsed]
aws_instance.ec2_us: Still creating... [0m10s elapsed]
aws_instance.ec2_ap: Still creating... [0m20s elapsed]
aws_instance.ec2_us: Still creating... [0m20s elapsed]
aws_instance.ec2_ap: Still creating... [0m30s elapsed]
aws_instance.ec2_us: Still creating... [0m30s elapsed]
aws_instance.ec2_us: Creation complete after 31s [id=i-0d159e9cd36464e70]
aws_instance.ec2_ap: Creation complete after 36s [id=i-0b0ee50050e0befd3]
```

```
Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
```

```
Outputs:
```

```
ap_instance_ip = "3.110.54.248"
```

```
us_instance_ip = "54.236.20.135"
```

```
ubuntu@ip-172-31-8-139:~/multi-region-ec2$
```