

Terraform EC2 Provisioning: *Please provide the Access and Secret keys under “variables.tf” before executing terraform for provisioning.*

Pre-requisites:

- Terraform (To perform terraform operations)
- git (To perform git operations)
- SSH Keys (To allow connection to EC2 instances)

Note: Generate a public key and deploy to EC2 instance during Terraform provisioning

- 1.) Run “ssh-keygen”
- 2.) id_rsa.pub will be generate under ~/.ssh
- 3.) Include this “id_rsa.pub” during provisioning

WEB:

- 1.) Login to any terminal server that can perform clone
- 2.) cd to terraform location (E.g. /root/terraform)
- 3.) run “git clone <https://github.com/bdadullajr/terraprovi.git>”
- 4.) cd to “terraprovi/terraform/WEB” location
- 5.) Run “terraform apply”

Web provisioning evidence: <https://github.com/bdadullajr/terraprovi/blob/master/evidence/provi-web.gif>

APP:

- 1.) Login to any terminal server that can perform clone
- 2.) cd to terraform location (E.g. /root/terraform)
- 3.) run “git clone <https://github.com/bdadullajr/terraprovi.git>”
- 4.) cd to “terraprovi/terraform/APP” location
- 5.) Run “terraform apply”

Web provisioning evidence: <https://github.com/bdadullajr/terraprovi/blob/master/evidence/provi-app.gif>

DB:

- 1.) Login to any terminal server that can perform clone
- 2.) cd to terraform location (E.g. /root/terraform)
- 3.) run “git clone <https://github.com/bdadullajr/terraprovi.git>”
- 4.) cd to “terraprovi/terraform/DB” location
- 5.) Run “terraform apply”

Web provisioning evidence: <https://github.com/bdadullajr/terraprovi/blob/master/evidence/provi-db.gif>

SSH Connection evidence for all 3 Instances: <https://github.com/bdadullajr/terraprovi/blob/master/evidence/ec2-ssh-access.gif>

Terraform folder structure for APP, WEB and DB instances

```
[root@docker MCorp]# tree .
```

```
.
|-- APP
|   |-- key_pair.tf
|   |-- main.tf
|   |-- provider.tf
|   |-- secgroup.tf
|   |-- variables.tf
|   `-- vpc.tf
|-- DB
|   |-- key_pair.tf
|   |-- main.tf
|   |-- provider.tf
|   |-- secgroup.tf
|   |-- variables.tf
|   `-- vpc.tf
`-- WEB
    |-- eip.tf
    |-- key_pair.tf
    |-- main.tf
    |-- output.tf
    |-- provider.tf
    |-- secgroup.tf
    |-- variables.tf
    `-- vpc.tf
```

```
3 directories, 20 files
[root@docker MCorp]#
```

