

113 lines (81 loc) · 3.21 KB

# CSDO1010-007-B-W24-LAB2 Report

#### Task

• Manage AWS Infrastructure with Terraform

### Requirements

- terraform and aws cli command line outputs for version commands
- webserver-Public-URL and the url assigned from the end of the Terraform apply output.
  - Please do not include all of the output from apply, just the webserver-Public-URL value
- The Cloud Computing Course webpage in your browser, including the address bar showing the url
- Provisioned Infrastructure as viewed through your AWS account, including the public IP of your webserver, under Instances.

## Report

terraform and aws cli command line outputs for version commands

```
~/justin-irl/CSD01010-007-B-W24-LAB2 on > main
$ > terraform --version
Terraform v1.7.5
on darwin_arm64
~/justin-irl/CSD01010-007-B-W24-LAB2 on ソ main •
 > aws --version
   -cli/2.15.32 Python/3.11.8 Darwin/23.4.0 exe/x86_64 prompt/off
```

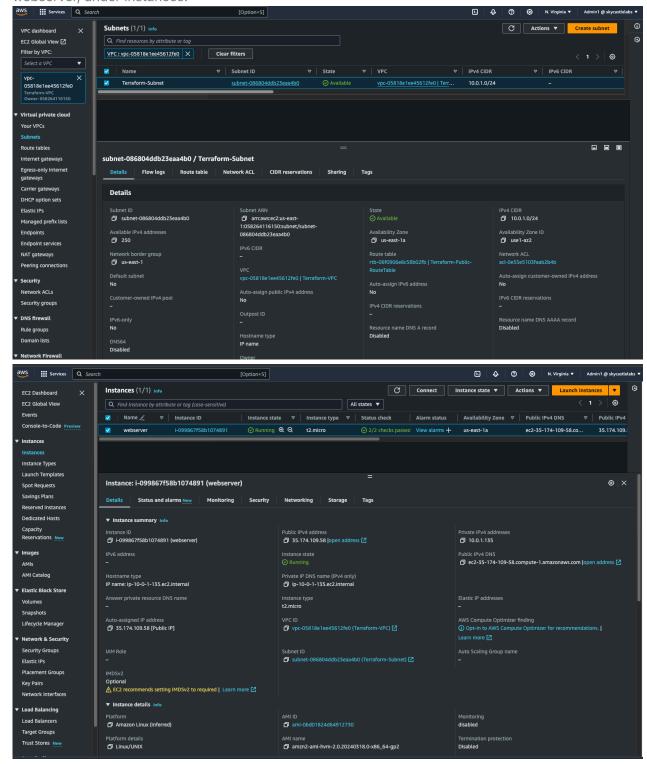
webserver-Public-URL and the url assigned from the end of the Terraform apply output.

```
Apply complete! Resources: 7 added, 0 changed, 0 destroyed.
Outputs:
Webserver-Public-URL = "http://35.174.109.58"
```

• The Cloud Computing Course webpage in your browser, including the address bar showing the url



 Provisioned Infrastructure as viewed through your AWS account, including the public IP of your webserver, under Instances.



## Note

- I already have an AWS free account from a previous project.
  - Account updated according to doc and Admin account created with required scopes.
- VsCode already pre installed and configured with the required extensions from previous work.

# Terraform issue with Mac M(2) chip

- hashicorp tapped and terraform installed at version 1.7.5
  - most recent version for arm64/m chips as of this writing

Encountered some issues at this stage with the terraform init command:

```
~/justin-irl/CSD01010-007-B-W24-LAB2 on [] main ●
$ > terraform init

Initializing the backend...
Initializing modules...

Initializing provider plugins...
- Finding latest version of hashicorp/template...
- Finding hashicorp/aws versions matching "~> 3.44.0"...
- Installing hashicorp/aws v3.44.0...
- Installed hashicorp/aws v3.44.0 (signed by HashiCorp)

| Error: Incompatible provider version
| Provider registry.terraform.io/hashicorp/template v2.2.0 does not have a package ava |
| Provider releases are separate from Terraform CLI releases, so not all providers are platforms supported.
```

#### Solution

```
#control versioning by project:
brew install tfenv

tfenv init

tfenv install 1.7.5 && tfenv use 1.7.5

# add `terraform-version`
tfenv pin

# provider helper
brew install kreuzwerker/taps/m1-terraform-provider-helper

m1-terraform-provider-helper activate
m1-terraform-provider-helper install hashicorp/template -v v2.2.0

reload shell

exec $SHELL
```

```
update ./main/tf to include:

terraform {
    required_providers {
    aws = {
        source = "hashicorp/aws"
        version = "5.43.0"
    }
}

then run the following according to the provided doc (with the addition to terraform apply ):

terraform init && terraform validate && terraform fmt && terraform plan -out=tfplan

terraform apply "tfplan"
### note
# it takes about 30-60 seconds from the time the apply command is run to the time the
```