## **Installing / Working With Terraform**

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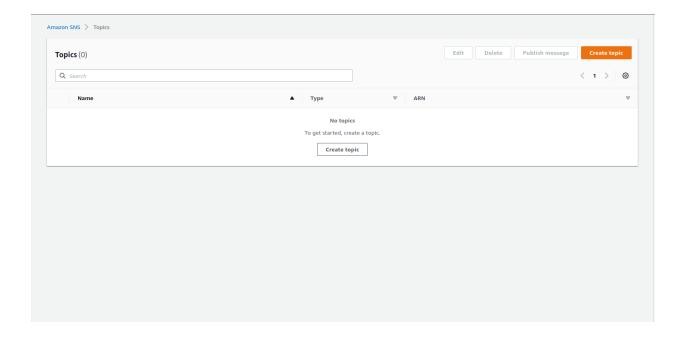
AWS re/start Bootcamp AppleSeeds

## **Overview**

I will be installing terraform and working with terraform providers (AWS) ,And also deploying 2 AWS SNS services on two regions ,us-east-1 & us-west-2.

## Goals

- 1. Download And Manually Install the Terraform Binary.
- 2. Clone Over Code for Terraform Providers.
- 3. Deploy the Code with Terraform Apply.



```
provider "aws" {
    alias = "us-east-1"
    vosulstudio Code

provider "aws" {
    alias = "us-west-2"
    region = "us-west-2"
}

resource "aws_ns_topic" "topic-us-east" {
    provider = aws.us-east-1
    name = "topic-us-east"
}

resource "aws_ns_topic" "topic-us-west" |
    provider = aws.us-west-2
    name = "topic-us-west" |
    resource "aws_ns_topic" "topic-us-west" |
    resource "aws_us-west-2
    name = "topic-us-west"
```

```
[cloud_user@ip-10-0-1-187 ~]$ terraform version
Terraform v0.13.4
+ provider registry.terraform.io/hashicorp/aws v4.37.0

Your version of Terraform is out of date! The latest version
is 1.3.3. You can update by downloading from https://www.terraform.io/downloads.html
[cloud_user@ip-10-0-1-187 ~]$ ls
terraform_0.13.4 | linux_emd64.ztp
[cloud_user@ip-10-0-1-187 ~]$ cd providers
[cloud_user@ip-10-0-1-187 ~]$ cd providers/
[cloud_user@ip-10-0-1-187 providers]$ vuch main.tf
[cloud_user@ip-10-0-1-187 providers]$ vim main.tf
[cloud_user@ip-10-0-1-187 providers]$ vim main.tf
[cloud_user@ip-10-0-1-187 providers]$ I
```

```
Initializing provider plugias...

2027/19/19 22:19:31 [TRRC2] providercache filletacache: scanning directory terraform/plugins: latal terraform: no such file or directory 2027/19/19 22:19:31 [TRRC2] providercache filletacache: scrow shite scanning directory terraform/plugins: latal terraform/plugins: latal terraform/plugins: no such file or directory 2027/19/19 22:19:31 [TRRC2] providercache filletacache: error white scanning directory terraform/plugins: connect search terraform/plugins: latal terraform/plugins: no such file or directory 2027/19/19 22:19:31 [TRRC2] provider discovery for registry, terraform. Iou wall-known/terraform. Journal of the fill of the directory 2027/19/19 22:19:31 [TRRC2] HTTP Client Gif request to https://registry.terraform.lo/sull-known/terraform.jos
2027/19/19 12:19:31 [TRRC2] provider the https://registry.terraform.lo/sulproviders/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/shackory/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/erro/paov/err
```

```
Terraform will perform the following actions:
  # aws_sns_topic.topic-us-east will be created
   + resource "aws_sns_topic" "topic-us-east" {
                                               = (known after apply)
          content_based_deduplication = false
           fifo_topic
                                              = false
          id
                                               = (known after apply)
2022/10/30 12:19:25 [TRACE] statemgr.Filesystem: removing lock metadata file .terraform.tfstate.lock.info
2022/10/30 12:19:25 [TRACE] statemgr.Filesystem: unlocking terraform.tfstate using fcntl flock
                                            = "topic-us-east"
= (known after apply)
                                  = "topic-us-east"
= (known after apply)
= (known after apply)
- (known after apply)
          name
          name_prefix
owner
        + owner
          policy
                                              = (known after apply)
          tags_all
                                              = (known after apply)
  # aws_sns_topic.topic-us-west will be created
+ resource "aws_sns_topic" "topic-us-west" {
                                              = (known after apply)
          content_based_deduplication = false
          fifo_topic = false
                                              = (known after apply)
= "topic-us-west"
          id
          name
          name_prefix
                                     = (known after apply)
= (known after apply)
= (known after apply)
          owner
          policy
          tags_all
                                              = (known after apply)
Plan: 2 to add, 0 to change, 0 to destroy.
Note: You didn't specify an "-out" parameter to save this plan, so Terraform can't guarantee that exactly these actions will be performed if
 terraform apply" is subsequently run.
[cloud_user@ip-10-0-1-187 providers]$
```

```
Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
2022/10/30 12:20:00 [TRACE] statemgr.Filesystem: removing lock metadata file .terraform.tfstate.lock.info
2022/10/30 12:20:00 [TRACE] statemgr.Filesystem: unlocking terraform.tfstate using fcntl flock
[cloud_user@ip-10-0-1-187 providers]$
```

