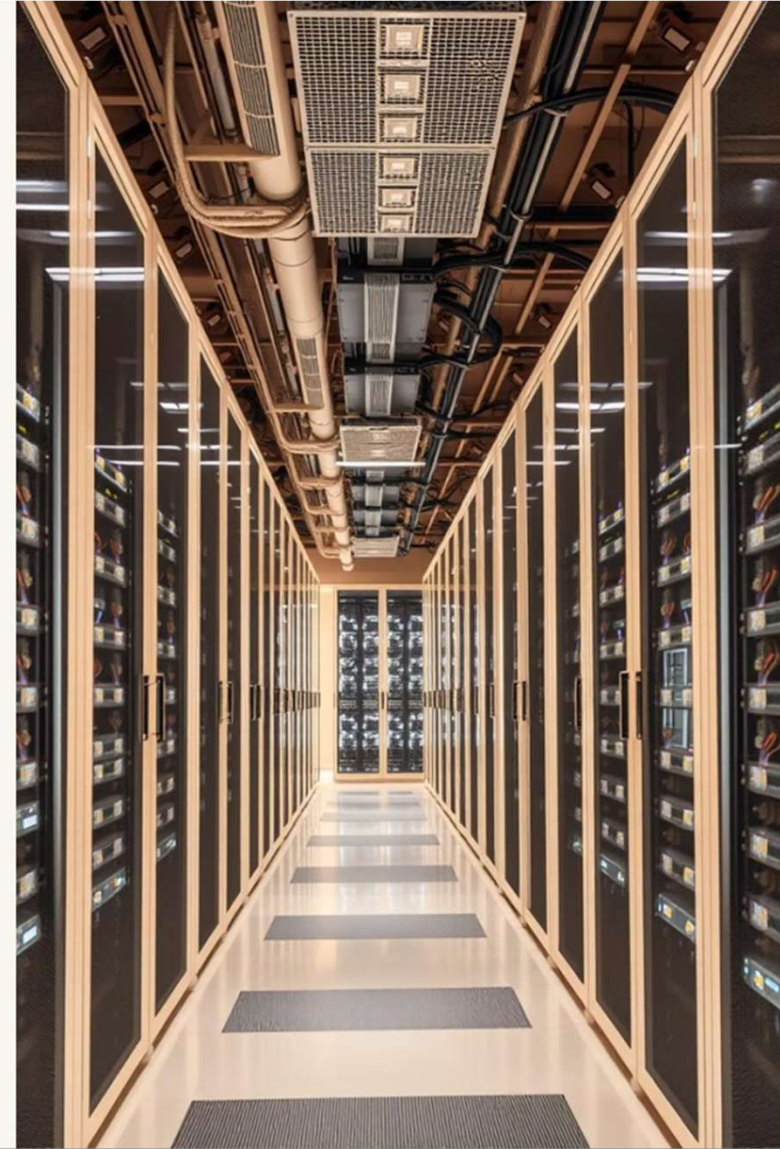# Terraform: Importing Existing AWS Resources

Migrate manual AWS infrastructure into Terraform management.

Gain control, automation, and versioning.

by Mohana Krishna A

Manual Resource Inventory

Compute

- 5 EC2 Servers
- 2 EBS Volumes

Storage

- 4 S3 Buckets

Identity

- 3 IAM Users

Networking

- 1 VPC
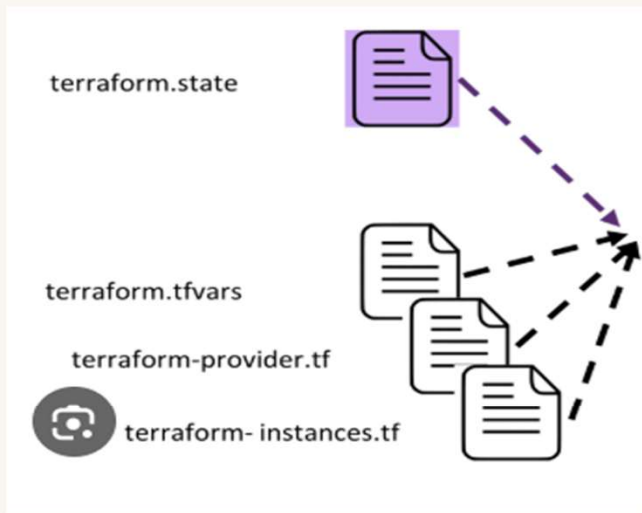- 2 Subnets

Terraform Configuration

1 **Define Providers**

Configure AWS provider settings.

2 **Resource Blocks**

Create TF resource definitions.

3 **Import Command**

Associate existing resources.

EC2 Instance Import

```
import {
to = aws_instance.one
id = "i-09d971ab00862bd2a"
}
```

AWS Resource Name

aws_instance.one

AWS Instance ID

i-09d971ab00862bd2a

```
[root@ip-172-31-10-241 tfldr]# terraform state list
aws_instance.five
aws_instance.four
aws_instance.one
aws_instance.three
aws_instance.two
[root@ip-172-31-10-241 tfldr]# ls -ltr
total 68
-rw-r--r-- 1 root root  2779 Mar 19 14:38 ec1.tf
-rw-r--r-- 1 root root  2778 Mar 19 14:41 ec2.tf
-rw-r--r-- 1 root root  2782 Mar 19 14:43 ec3.tf
-rw-r--r-- 1 root root  2780 Mar 19 14:46 ec4.tf
-rw-r--r-- 1 root root   109 Mar 19 14:47 main.tf
-rw-r--r-- 1 root root  2779 Mar 19 14:48 ec5.tf
-rw-r--r-- 1 root root 18644 Mar 19 14:48 terraform.tfstate.backup
-rw-r--r-- 1 root root 23258 Mar 19 14:48 terraform.tfstate
[root@ip-172-31-10-241 tfldr]# date
Wed Mar 19 14:54:25 UTC 2025
[root@ip-172-31-10-241 tfldr]#
```

S3 Bucket Import

```
import {
  to = aws_s3_bucket.bucket4
  id = "<bucket nam>"
}
```

Bucket

S3 Bucket

```
[root@ip-172-31-10-241 tfldr]# terraform state list
aws_s3_bucket.bucket1
aws_s3_bucket.bucket2
aws_s3_bucket.bucket3
aws_s3_bucket.bucket4
[root@ip-172-31-10-241 tfldr]# ls -ltr
total 40
-rw-r--r-- 1 root root  375 Mar 19 15:06 bkt1.tf
-rw-r--r-- 1 root root  375 Mar 19 15:19 bkt2.tf
-rw-r--r-- 1 root root  375 Mar 19 15:22 bkt3.tf
-rw-r--r-- 1 root root  103 Mar 19 15:24 main.tf
-rw-r--r-- 1 root root  375 Mar 19 15:25 bkt4.tf
-rw-r--r-- 1 root root 7450 Mar 19 15:25 terraform.tfstate.backup
-rw-r--r-- 1 root root 9872 Mar 19 15:25 terraform.tfstate
[root@ip-172-31-10-241 tfldr]# date
Wed Mar 19 15:25:36 UTC 2025
[root@ip-172-31-10-241 tfldr]#
```

IAM User Import

```
import {
  to = aws_iam_user.usr3
  id = "myIAMuser-3"
}
```

```
[root@ip-172-31-10-241 tfldr]# terraform state list
aws_iam_user.usr1
aws_iam_user.usr2
aws_iam_user.usr3
[root@ip-172-31-10-241 tfldr]# ls -ltr
total 24
-rw-r--r-- 1 root root  379 Mar 19 15:38 usr1.tf
-rw-r--r-- 1 root root  379 Mar 19 15:41 usr2.tf
-rw-r--r-- 1 root root  102 Mar 19 15:45 main.tf
-rw-r--r-- 1 root root  379 Mar 19 15:46 usr3.tf
-rw-r--r-- 1 root root 1600 Mar 19 15:46 terraform.tfstate.backup
-rw-r--r-- 1 root root 2308 Mar 19 15:46 terraform.tfstate
[root@ip-172-31-10-241 tfldr]# date
Wed Mar 19 15:47:24 UTC 2025
[root@ip-172-31-10-241 tfldr]# 
```

EBS Volumes, VPC & Subnets import

```
[root@ip-172-31-10-241 tfldr]# terraform state list
aws_ebs_volume.id
aws_ebs_volume.id-1
[root@ip-172-31-10-241 tfldr]# ls -ltr
total 20
-rw-r--r-- 1 root root  604 Mar 20 07:09 myvol1.tf
-rw-r--r-- 1 root root  113 Mar 20 07:17 main.tf
-rw-r--r-- 1 root root  602 Mar 20 07:18 myvol2.tf
-rw-r--r-- 1 root root 1362 Mar 20 07:18 terraform.tfstate.backup
-rw-r--r-- 1 root root 2448 Mar 20 07:18 terraform.tfstate
[root@ip-172-31-10-241 tfldr]# date
Thu Mar 20 07:19:44 UTC 2025
[root@ip-172-31-10-241 tfldr]#
```

```
[root@ip-172-31-10-241 tfldr]# terraform state list
aws_vpc.myvpc-1
[root@ip-172-31-10-241 tfldr]# ls -ltr
total 16
-rw-r--r-- 1 root root  109 Mar 20 07:48 main.tf
-rw-r--r-- 1 root root  635 Mar 20 07:52 myvpc-1.tf
-rw-r--r-- 1 root root  182 Mar 20 07:52 terraform.tfstate.backup
-rw-r--r-- 1 root root 1738 Mar 20 07:52 terraform.tfstate
[root@ip-172-31-10-241 tfldr]# date
Thu Mar 20 07:53:05 UTC 2025
[root@ip-172-31-10-241 tfldr]#
```

```
[root@ip-172-31-10-241 tfldr]# terraform state list
aws_subnet.public
aws_subnet.public1
[root@ip-172-31-10-241 tfldr]# ls -ltr
total 20
-rw-r--r-- 1 root root 1102 Mar 20 10:38 generated.tf
-rw-r--r-- 1 root root  119 Mar 20 11:05 main.tf
-rw-r--r-- 1 root root 1167 Mar 20 11:08 sub2.tf
-rw-r--r-- 1 root root 1825 Mar 20 11:09 terraform.tfstate.backup
-rw-r--r-- 1 root root 3470 Mar 20 11:09 terraform.tfstate
[root@ip-172-31-10-241 tfldr]# date
Thu Mar 20 11:09:48 UTC 2025
[root@ip-172-31-10-241 tfldr]#
```

I

```
[root@ip-172-31-10-241 tfldr]#
```