# Step-by-Step: Importing an Existing AWS EC2 Instance

#### 1. Write the resource block

You must define a Terraform block for the resource you're importing, even if it's minimal.

```
# main.tf
resource "aws_instance" "example" {
    # Fill in fields *after* import
}
```

#### 2. Find the resource ID

For EC2, get the instance ID from AWS Console or CLI:

```
aws ec2 describe-instances --query
"Reservations[*].Instances[*].InstanceId" --output text
```

Example output:

i-0123456789abcdef0

## 3. Run terraform import

terraform import aws\_instance.example i-0123456789abcdef0

Format:

terraform import <RESOURCE\_TYPE.RESOURCE\_NAME> <RESOURCE\_ID>

## 4. Run terraform plan and sync configuration

Now Terraform knows about the instance, but the .tf code may not yet match the actual resource. Run:

### terraform plan

Terraform will show the diff. You must now **manually update main.tf** to match the actual configuration (AMI, tags, instance type, etc.). You can use terraform show or the AWS Console to help.

## Common Resource IDs by Service

AWS Resource Type	Terraform Resource ID Format
EC2 Instance	i-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
S3 Bucket	bucket-name
Security Group	sg-xxxxxxxxxxxxxxx
IAM Role	role-name
RDS Instance	db-instance-id
VPC	vpc-xxxxxxxxxxxxxxx