

Instance create and attach ebs volume

1. create two dir one for instance and one for ebs
2. in instance create main.tf

```
[root@terraform-2 aws]# cat main.tf
resource "aws_instance" "example_server" {
  instance_type           = "t2.nano"
  ami                    = "ami-0b6d6dacf350ebc82"
  availability_zone       = "us-west-2a"
  associate_public_ip_address = false
  tags = {
    Name = "Example"
  }
}
```

3. run terraform plan and apply
4. go to ebs directory
5. first create the volume

```
[root@terraform-2 aws-ebs]# cat ebs_volume.tf
#resource "aws_volume_attachment" "ebs_att" {
#  device_name = "/dev/sdh"
#  volume_id   = "vol-02a525ad769c9b95a"
#  instance_id = "i-08c232c07f905f40b"
#}
resource "aws_ebs_volume" "ebs_vol" {
  availability_zone = "us-west-2a"
  size              = 1
}
```

6. run terraform plan and apply
7. attache the volume

```
[root@terraform-2 aws-ebs]# cat ebs_volume.tf
resource "aws_volume_attachment" "ebs_att" {
  device_name = "/dev/sdh"
  volume_id   = "vol-0e219725199bf3811"
  instance_id = "i-009bc42b86e0396a1"
}
resource "aws_ebs_volume" "ebs_vol" {
  availability_zone = "us-west-2a"
  size              = 1
}
```

8. run terraform plan and apply

Volumes (2) Info Last updated 8 minutes ago Acti

Saved filter sets
Choose filter set ▼ Q Search

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Cr
<input type="checkbox"/>	-	vol-0e219725199bf3811	gp2	1 GiB	100	-	-	20
<input type="checkbox"/>	-	vol-02aa0ec91690ac758	gp3	8 GiB	3000	125	snap-038c11b...	20

> i-009bc42b86e0396a1

▼ Block devices

Q Filter block devices

<input type="checkbox"/>	Volume ID	Device name	Volume size (GiB)	Volume State	Attachment status	Attachment time
<input checked="" type="checkbox"/>	vol-02aa0ec91690ac758	/dev/xvda	8	✔ In-use	✔ Attached	2025/03/11 12:29 GMT+5:30
<input type="checkbox"/>	vol-0e219725199bf3811	/dev/sdh	1	✔ In-use	✔ Attached	2025/03/11 12:37 GMT+5:30

Attach EBS volume

```
MOHAN@DESKTOP-JU9K51D MINGW64 ~/Desktop/terraform-2022/Demo-7
$ cat instance.tf
resource "aws_instance" "example" {
  ami = "${lookup(var.AMIS, var.AWS_REGION)}"
  instance_type = "t2.micro"

  # the VPC Subnet
  subnet_id = "${aws_subnet.main-public-1.id}"

  # the security group
  vpc_security_group_ids = ["${aws_security_group.allow-ssh.id}"]

  # the public SSH key
  key_name = "${aws_key_pair.mykeypair.key_name}"
}

resource "aws_ebs_volume" "ebs-volume-1" {
  availability_zone = "eu-west-1a"
  size = 20
  type = "gp2"
  tags = {
    Name = "extra volume data"
  }
}

resource "aws_volume_attachment" "ebs-volume-1-attachement" {
  device_name = "/dev/xvdh"
  volume_id = "${aws_ebs_volume.ebs-volume-1.id}"
  instance_id = "${aws_instance.example.id}"
}
MOHAN@DESKTOP-JU9K51D MINGW64 ~/Desktop/terraform-2022/Demo-7
$
```

Then terraform plan and apply