

ubuntu@ip-172-31-93-145: ~, x + v

```
- root_block_device {
-   delete_on_termination = true -> null
-   device_name            = "/dev/xvda" -> null
-   encrypted              = false -> null
-   iops                   = 3000 -> null
-   tags                   = {} -> null
-   tags_all               = {} -> null
-   throughput             = 125 -> null
-   volume_id              = "vol-07442b3b8d9aebcb9" -> null
-   volume_size            = 8 -> null
-   volume_type            = "gp3" -> null
-   # (1 unchanged attribute hidden)
}
}
```

Plan: 0 to add, 0 to change, 2 to destroy.

Do you really want to destroy all resources?  
Terraform will destroy all your managed infrastructure, as shown above.  
There is no undo. Only 'yes' will be accepted to confirm.

Enter a value: yes

aws\_instance.northvirginia.instance: Destroying... [id=i-0a683984d3c1ccla3]  
aws\_instance.ohio.instance: Destroying... [id=i-0ddadcb249b08c646]  
aws\_instance.northvirginia.instance: Still destroying... [id=i-0a683984d3c1ccla3, 10s elapsed]  
aws\_instance.ohio.instance: Still destroying... [id=i-0ddadcb249b08c646, 10s elapsed]  
aws\_instance.northvirginia.instance: Still destroying... [id=i-0a683984d3c1ccla3, 20s elapsed]  
aws\_instance.ohio.instance: Still destroying... [id=i-0ddadcb249b08c646, 20s elapsed]  
aws\_instance.northvirginia.instance: Still destroying... [id=i-0a683984d3c1ccla3, 30s elapsed]  
aws\_instance.ohio.instance: Still destroying... [id=i-0ddadcb249b08c646, 30s elapsed]  
aws\_instance.northvirginia.instance: Still destroying... [id=i-0a683984d3c1ccla3, 40s elapsed]  
aws\_instance.ohio.instance: Still destroying... [id=i-0ddadcb249b08c646, 40s elapsed]  
aws\_instance.northvirginia.instance: Still destroying... [id=i-0a683984d3c1ccla3, 50s elapsed]  
aws\_instance.ohio.instance: Still destroying... [id=i-0ddadcb249b08c646, 50s elapsed]  
aws\_instance.northvirginia.instance: Destruction complete after 50s  
aws\_instance.ohio.instance: Still destroying... [id=i-0ddadcb249b08c646, 1m0s elapsed]  
aws\_instance.ohio.instance: Destruction complete after 1m1s  
  
Destroy complete! Resources: 2 destroyed.  
ubuntu@ip-172-31-93-145:~/Terraform\$ |

Instances | EC2 | us-east-2 x Instances | EC2 | us-east-1 x Install Terraform | Terraform | Ha: x Terraform-Assignment-4.pdf x | +

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v3?case=tags:true%5Cclient:false;\$regex=tags:false%5Cclient:false

aws Search [Alt+S]

EC2 VPC EFS FSx FSx S3 IAM CloudWatch CloudTrail AWS Config Route 53 RDS CloudFormation Elastic Beanstalk Amazon Redshift CloudFront ElastiCache

Dashboard  
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Volumes  
Snapshots

Instances (2) info

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Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

< 1 >

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Hello-NorthVirginia	i-0a683984d3c1ccla3	Terminated	t2.micro	-	View alarms +	us-east-1d
<input type="checkbox"/>	Terra_instance	i-098a5ea3d001973f6	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d

Select an instance

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Instances | EC2 | us-east-2 x Instances | EC2 | us-east-1 x Install Terraform | Terraform | Ha... x Terraform-Assignment-4.pdf x +

https://us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:

Search [Alt+S]

EC2 VPC EFS FSx S3 IAM CloudWatch CloudTrail AWS Config Route 53 RDS CloudFormation Elastic Beanstalk Amazon Redshift CloudFront ElastiCache

Dashboard EC2 Global View Events

▼ Instances

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- Launch Templates
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- Capacity Reservations

▼ Images

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- AMI Catalog

▼ Elastic Block Store

- Volumes
- Snapshots

Instances (3) Info

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Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive) All states

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Hello-Ohio	i-0ddadcb249b08c646	Terminated	t2.micro	-	View alarms +	us-east-2a
<input type="checkbox"/>	MyAssignment2	i-042769f2f1da1c707	Terminated	t2.micro	-	View alarms +	us-east-2a
<input type="checkbox"/>	MyAssignment1	i-09d76855cb2149ae9	Terminated	t2.micro	-	View alarms +	us-east-2a

Select an instance

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ubuntu@ip-172-31-93-145: ~ x +

```
+ cidr_block = "10.0.0.0/16"
+ default_network_acl_id = (known after apply)
+ default_route_table_id = (known after apply)
+ default_security_group_id = (known after apply)
+ dhcp_options_id = (known after apply)
+ enable_dns_hostnames = (known after apply)
+ enable_dns_support = true
+ enable_network_address_usage_metrics = (known after apply)
+ id = (known after apply)
+ instance_tenancy = "default"
+ ipv6_association_id = (known after apply)
+ ipv6_cidr_block = (known after apply)
+ ipv6_cidr_block_network_border_group = (known after apply)
+ main_route_table_id = (known after apply)
+ owner_id = (known after apply)
+ tags = {
+   "Name" = "my-vpc"
+ }
+ tags_all = {
+   "Name" = "my-vpc"
+ }
}
```

Plan: 3 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?  
Terraform will perform the actions described above.  
Only 'yes' will be accepted to approve.

Enter a value: yes

```
aws_vpc.assignment-4-vpc: Creating...
aws_vpc.assignment-4-vpc: Creation complete after 1s [id=vpc-036e6c9289d4eb7a5]
aws_subnet.assignment-4-subnet: Creating...
aws_subnet.assignment-4-subnet: Creation complete after 1s [id=subnet-0739cfb9cb6f03d9f]
aws_instance.label-1: Creating...
aws_instance.label-1: Still creating... [10s elapsed]
aws_instance.label-1: Creation complete after 12s [id=i-046b3384448440f49]
```

Apply complete! Resources: 3 added, 0 changed, 0 destroyed.

ubuntu@ip-172-31-93-145: ~/Terraform\$

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Instances | EC2 | us-east-2 | vpcs | VPC Console | Instances | EC2 | us-east-1 | Install Terraform | Terraform | H | Terraform-Assignment-4.pdf

https://us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#vpcs:

Services [Alt+S]

**VPC dashboard** x

EC2 Global View [↗](#)

Filter by VPC ▾

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

**Your VPCs (2)** info

Last updated less than a minute ago

Actions ▾ Create VPC

<input type="checkbox"/>	Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	my-vpc	vpc-035e6c9289d4eb7a5	Available	Off	10.0.0.0/16	-
<input type="checkbox"/>	-	vpc-04e4f3c583429553e	Available	Off	172.31.0.0/16	-

Select a VPC above

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Instances | EC2 | us-east-2 | vpc | us-east-2 | Instances | EC2 | us-east-1 | Install Terraform | Terraform | H | Terraform-Assignment-4.pdf

https://us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#subnets:

Services [Alt+S]

**VPC dashboard** x

EC2 Global View [↗](#)

Filter by VPC ▾

Virtual private cloud

Your VPCs

**Subnets**

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

**Subnets (4)** info

Last updated less than a minute ago

Actions ▾ Create subnet

Find resources by attribute or tag

<input type="checkbox"/>	Name	Subnet ID	State	VPC	Block Public...	IPv4
<input type="checkbox"/>	-	subnet-078b41324078a91f4	Available	vpc-04e4f3c583429553e	Off	172.31.0.0/16
<input type="checkbox"/>	-	subnet-0fc9cb2f503055dd4	Available	vpc-04e4f3c583429553e	Off	172.31.0.0/16
<input type="checkbox"/>	-	subnet-0756abf2b83faa8d4	Available	vpc-04e4f3c583429553e	Off	172.31.0.0/16
<input type="checkbox"/>	my-subnet	subnet-0739c9fb9cb6f03d9f	Available	vpc-035e6c9289d4eb7a5   my-...	Off	10.0.0.0/16

Select a subnet

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Instances (4) info

Find Instance by attribute or tag (case-sensitive)

All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Hello-Ohio	i-0ddadcb249b08c646	Terminated	t2.micro	-	View alarms +	us-east-2a
Hello-Ohio-my-VPC	i-046b3384448440f49	Running	t2.micro	Initializing	View alarms +	us-east-2a
MyAssignment2	i-042769f2f1da1c707	Terminated	t2.micro	-	View alarms +	us-east-2a
MyAssignment1	i-09d76855cb2149ae9	Terminated	t2.micro	-	View alarms +	us-east-2a

Select an instance

```
aws_vpc.assignment-4-vpc: Creating...
aws_vpc.assignment-4-vpc: Creation complete after 1s [id=vpc-036e6c9289d4eb7a5]
aws_subnet.assignment-4-subnet: Creating...
aws_subnet.assignment-4-subnet: Creation complete after 1s [id=subnet-0739cfb9cb6f03d9f]
aws_instance.label-1: Creating...
aws_instance.label-1: Still creating... [10s elapsed]
aws_instance.label-1: Creation complete after 12s [id=i-046b3384448440f49]

Apply complete! Resources: 3 added, 0 changed, 0 destroyed.
ubuntu@ip-172-31-93-145:~/Terraform$ cat assign4.tf
provider "aws" {
  access_key = var.aws_access_key
  secret_key = var.aws_secret_key
  region     = var.region
}

resource "aws_vpc" "assignment-4-vpc" {
  cidr_block = "10.0.0.0/16"
  tags = {
    Name = "my-vpc"
  }
}

resource "aws_subnet" "assignment-4-subnet" {
  vpc_id = aws_vpc.assignment-4-vpc.id
  cidr_block = "10.0.0.0/23"
  availability_zone = "us-east-2a"
  tags = {
    Name = "my-subnet"
  }
}

resource "aws_instance" "label-1" {
  subnet_id = aws_subnet.assignment-4-subnet.id
  ami = "ami-037774efca2da0726"
  instance_type = "t2.micro"
  key_name = "OhioSept"
  tags = {
    Name = "Hello-Ohio-my-VPC"
  }
}
```

```
tags
  = {
    Name = "my-vpc"
  }
}
resource "aws_subnet" "assignment-4-subnet" {
  vpc_id      = aws_vpc.assignment-4-vpc.id
  cidr_block  = "10.0.0.0/23"
  availability_zone = "us-east-2a"
  tags = {
    Name = "my-subnet"
  }
}

resource "aws_instance" "label-1" {
  subnet_id = aws_subnet.assignment-4-subnet.id
  ami       = "ami-037774efca2da0726"
  instance_type = "t2.micro"
  key_name    = "OhioSept"
  tags = {
    Name = "Hello-Ohio-my-VPC"
  }
}
ubuntu@ip-172-31-93-145:~/Terraform$ cat variable.tf
variable "aws_access_key" {
  description = "this refers to aws access key"
  type        = string
  sensitive   = true
}

variable "aws_secret_key" {
  description = "this refers to aws secret key"
  type        = string
  sensitive   = true
}

variable "region" {
  description = "this refers to aws region"
  type        = string
  default     = "us-east-2"
}
ubuntu@ip-172-31-93-145:~/Terraform$ |
```