

Region = us-east-1

VPC

Code:

```
resource "aws_vpc" "lab" {  
  cidr_block    = "10.0.0.0/16"  
  instance_tenancy = "default"
```

```
  tags = {  
    Name = "Lab-VPC"  
  }  
}
```

Result:

Your VPCs (2) [Info](#)

<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR
<input type="checkbox"/>	Lab-VPC	vpc-017bc9dddf64a743a	✔ Available	10.0.0.0/16
<input type="checkbox"/>	-	vpc-de648da3	✔ Available	172.31.0.0/16

vpc-017bc9dddf64a743a / Lab-VPC [Actions](#)

Details [Info](#)

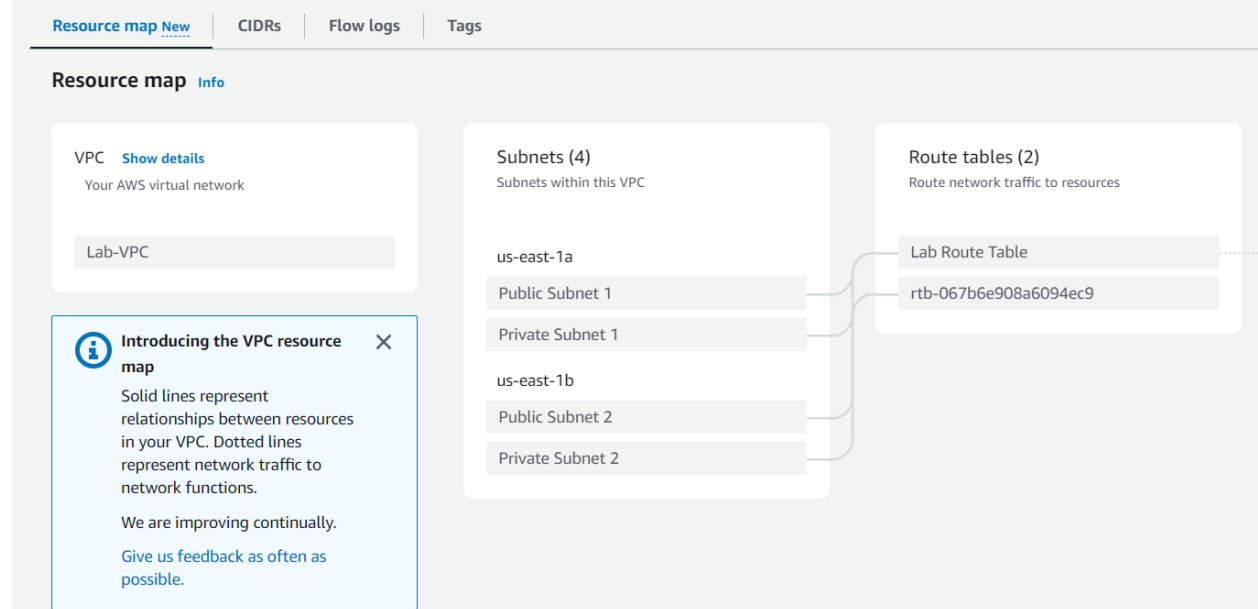
VPC ID vpc-017bc9dddf64a743a	State ✔ Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-5861eb22	Main route table rtb-067b6e908a6094ec9	Main network ACL acl-02c2ffbe2d80d4ca2
Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -	IPv6 CIDR (Network border group) -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 715783894902	

[Resource map](#) [New](#) [CIDRs](#) [Flow logs](#) [Tags](#)

CIDRs [Info](#)

Address type	CIDR	Network Border Group	Pool	Status
IPv4	10.0.0.0/16	-	-	✔ Associated

Resource Map (check next steps for setup of subnets and route tables)



Subnets

Code:

```
resource "aws_subnet" "public_subnet1" {  
  vpc_id   = aws_vpc.lab.id  
  cidr_block = "10.0.0.0/24"  
  availability_zone = "us-east-1a"
```

```
  tags = {  
    Name = "Public Subnet 1"  
  }  
}
```

```
resource "aws_subnet" "public_subnet2" {  
  vpc_id   = aws_vpc.lab.id  
  cidr_block = "10.0.1.0/24"  
  availability_zone = "us-east-1b"
```

```
  tags = {  
    Name = "Public Subnet 2"  
  }  
}
```

Result:

Subnets (10) Info

↻

Actions ▾

Create subnet

Find resources by attribute or tag

< 1 > ⚙

<input type="checkbox"/>	Name ▾	Subnet ID ▾	State ▾	VPC ▾	IPv4 CIDR
<input type="checkbox"/>	Public Subnet 1	subnet-07e76d2effbdd1048	Available	vpc-017bc9dddf64a743a Lab...	10.0.0.0/24
<input type="checkbox"/>	-	subnet-c9f62de8	Available	vpc-de648da3	172.31.80.0/20
<input type="checkbox"/>	Public Subnet 2	subnet-0d2285c7f14149ec8	Available	vpc-017bc9dddf64a743a Lab...	10.0.1.0/24
<input type="checkbox"/>	-	subnet-f97c10b4	Available	vpc-de648da3	172.31.16.0/20
<input type="checkbox"/>	-	subnet-6ef16760	Available	vpc-de648da3	172.31.64.0/20
<input type="checkbox"/>	Private Subnet 1	subnet-0890c71dc174daccb	Available	vpc-017bc9dddf64a743a Lab...	10.0.2.0/24
<input type="checkbox"/>	-	subnet-86a37ad9	Available	vpc-de648da3	172.31.32.0/20
<input type="checkbox"/>	-	subnet-e634d4d7	Available	vpc-de648da3	172.31.48.0/20
<input type="checkbox"/>	-	subnet-275e8341	Available	vpc-de648da3	172.31.0.0/20
<input type="checkbox"/>	Private Subnet 2	subnet-0d408a138187bf56c	Available	vpc-017bc9dddf64a743a Lab...	10.0.3.0/24

Subnets (1/10) Info

↻

Actions ▾

Create subnet

Find resources by attribute or tag

< 1 > ⚙

<input type="checkbox"/>	Name ▾	Subnet ID ▾	State ▾	VPC ▾	IPv4 CIDR
<input checked="" type="checkbox"/>	Public Subnet 1	subnet-07e76d2effbdd1048	Available	vpc-017bc9dddf64a743a Lab...	10.0.0.0/24
<input type="checkbox"/>	-	subnet-c9f62de8	Available	vpc-de648da3	172.31.80.0/20

Subnet ID

subnet-07e76d2effbdd1048

Available IPv4 addresses

250

Network border group

us-east-1

Default subnet

No

Customer-owned IPv4 pool

-

IPv6-only

No

DNS64

Disabled

Subnet ARN

arn:aws:ec2:us-east-1:715783894902:subnet/subnet-07e76d2effbdd1048

IPv6 CIDR

-

VPC

vpc-017bc9dddf64a743a | Lab-VPC

Auto-assign public IPv4 address

No

Outpost ID

-

Hostname type

IP name

State

Available

Availability Zone

us-east-1a

Route table

rtb-09f83c48ac045e565 | Lab Route Table

Auto-assign IPv6 address

No

IPv4 CIDR reservations

-

Resource name DNS A record

Disabled

IPv4 CIDR

10.0.0.0/24

Availability Zone ID

use1-az2

Network ACL

acl-02c2ffbe2d80d4ca2

Auto-assign customer-owned IPv4 address

No

IPv6 CIDR reservations

-

Resource name DNS AAAA record

Disabled

Subnets (1/10) [Info](#)

Find resources by attribute or tag

Actions

Create subnet

< 1 >

<input checked="" type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input checked="" type="checkbox"/>	Public Subnet 2	subnet-0d2285c7f14149ec8	Available	vpc-017bc9dddf64a743a Lab-VPC	10.0.1.0/24
<input type="checkbox"/>	-	subnet-f97c10b4	Available	vpc-de648da3	172.31.16.0/20

subnet-0d2285c7f14149ec8 / Public Subnet 2

Details

Flow logs

Route table

Network ACL

CIDR reservations

Sharing

Tags

Details

Subnet ID

subnet-0d2285c7f14149ec8

Available IPv4 addresses

251

Network border group

us-east-1

Default subnet

No

Customer-owned IPv4 pool

Subnet ARN

arn:aws:ec2:us-east-1:715783894902:subnet/subnet-0d2285c7f14149ec8

IPv6 CIDR

-

VPC

vpc-017bc9dddf64a743a | Lab-VPC

Auto-assign public IPv4 address

No

State

Available

Availability Zone

us-east-1b

Route table

rtb-09f83c48ac045e565 | Lab Route Table

Auto-assign IPv6 address

No

IPv4 CIDR

10.0.1.0/24

Availability Zone ID

use1-az4

Network ACL

acl-02c2ffbe2d80d4ca2

Auto-assign customer-owned IPv4 address

No

Subnets (1/10) [Info](#)

Find resources by attribute or tag

Actions

Create subnet

< 1 >

subnet-0890c71dc174daccb / Private Subnet 1

Details

Flow logs

Route table

Network ACL

CIDR reservations

Sharing

Tags

Details

Subnet ID

subnet-0890c71dc174daccb

Available IPv4 addresses

251

Network border group

us-east-1

Default subnet

No

Customer-owned IPv4 pool

Subnet ARN

arn:aws:ec2:us-east-1:715783894902:subnet/subnet-0890c71dc174daccb

IPv6 CIDR

-

VPC

vpc-017bc9dddf64a743a | Lab-VPC

Auto-assign public IPv4 address

No

State

Available

Availability Zone

us-east-1a

Route table

rtb-067b6e908a6094ec9

Auto-assign IPv6 address

No

IPv4 CIDR

10.0.2.0/24

Availability Zone ID

use1-az2

Network ACL

acl-02c2ffbe2d80d4ca2

Auto-assign customer-owned IPv4 address

No

Subnets (1/10) [Info](#)

Find resources by attribute or tag

Actions [Create subnet](#)

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-275e8341	Available	vpc-de648da3	172.31.0.0/20
Private Subnet 2	subnet-0d408a138187bf56c	Available	vpc-017bc9dddf64a743a Lab-...	10.0.3.0/24

subnet-0d408a138187bf56c / Private Subnet 2

[Details](#) | [Flow logs](#) | [Route table](#) | [Network ACL](#) | [CIDR reservations](#) | [Sharing](#) | [Tags](#)

Details

Subnet ID subnet-0d408a138187bf56c	Subnet ARN arn:aws:ec2:us-east-1:715783894902:subnet/subnet-0d408a138187bf56c	State Available	IPv4 CIDR 10.0.3.0/24
Available IPv4 addresses 251	IPv6 CIDR -	Availability Zone us-east-1b	Availability Zone ID use1-az4
Network border group us-east-1	VPC vpc-017bc9dddf64a743a Lab-VPC	Route table rtb-067b6e908a6094ec9	Network ACL acl-02c2ffbe2d80d4ca2
Default subnet No	Auto-assign public IPv4 address No	Auto-assign IPv6 address No	Auto-assign customer-owned IPv4 address No
Customer-owned IPv4 pool	IPv4 CIDR reservations		

Internet Gateway

Code:

```
resource "aws_internet_gateway" "labgw" {
  vpc_id = aws_vpc.lab.id
```

```
  tags = {
    Name = "LAB IG"
  }
}
```

Result:

Internet gateways (1/2) [info](#)

Q

Filter internet gateways

<

1

>

<input checked="" type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input checked="" type="checkbox"/>	LAB IG	igw-05cb3752d8020ab44	Attached	vpc-017bc9dddf64a743a Lab-VPC	715783894902
<input type="checkbox"/>	-	igw-afbfe3d4	Attached	vpc-de648da3	715783894902

igw-05cb3752d8020ab44 / LAB IG

Details

Tags

Details

Internet gateway ID

igw-05cb3752d8020ab44

State

Attached

VPC ID

vpc-017bc9dddf64a743a | Lab-VPC

Owner

715783894902

Route Table

Code:

```
resource "aws_route_table" "labrt" {
  vpc_id = aws_vpc.lab.id
```

```
route {
  cidr_block = "0.0.0.0/0"
  gateway_id = aws_internet_gateway.labgw.id
}
```

```
tags = {
    Name = "Lab Route Table"
}
```

```
resource "aws_route_table_association" "public_subnet1_assoc" {
  subnet_id      = aws_subnet.public_subnet1.id
  route_table_id = aws_route_table.labrt.id
}
```

```
resource "aws_route_table_association" "public_subnet2_assoc" {
  subnet_id      = aws_subnet.public_subnet2.id
  route_table_id = aws_route_table.labrt.id
}
```

Result:

Route tables (1/3)
Info

Find resources by attribute or tag

1

	Name	Route table ID	Explicit subnet associati...	Edge associations	Main	VPC
<input checked="" type="checkbox"/>	Lab Route Table	rtb-09f83c48ac045e565	2 subnets	-	No	vpc-017bc9ddd
<input type="checkbox"/>	-	rtb-067b6e908a6094ec9	-	-	Yes	vpc-017bc9ddd

rtb-09f83c48ac045e565 / Lab Route Table

Details
Routes
Subnet associations
Edge associations
Route propagation
Tags

Explicit subnet associations (2)

Find subnet association

1

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
Public Subnet 1	subnet-07e76d2effbdd1048	10.0.0.0/24	-
Public Subnet 2	subnet-0d2285c7f14149ec8	10.0.1.0/24	-

Route tables (1/3)
Info

Find resources by attribute or tag

1

	Name	Route table ID	Explicit subnet associati...	Edge associations	Main	VPC
<input checked="" type="checkbox"/>	Lab Route Table	rtb-09f83c48ac045e565	2 subnets	-	No	vpc-017bc9ddd
<input type="checkbox"/>	-	rtb-067b6e908a6094ec9	-	-	Yes	vpc-017bc9ddd

rtb-09f83c48ac045e565 / Lab Route Table

Details
Routes
Subnet associations
Edge associations
Route propagation
Tags

Routes (2)

Filter routes

Both

1

Destination	Target	Status	Propagated
0.0.0.0/0	igw-05cb3752d8020ab44	Active	No
10.0.0.0/16	local	Active	No

Security Group

Code:

```
resource "aws_security_group" "webserversg2" {
  name      = "Web-Server2-SG"
  description = "Allows HTTP access"
  vpc_id    = aws_vpc.lab.id
```

```
  ingress {
    description = "Allow web access"
    from_port   = 80
    to_port     = 80
    protocol    = "tcp"
    cidr_blocks = ["0.0.0.0/0"]
  }
}
```

```
egress {
  from_port = 0
  to_port   = 0
  protocol  = "-1"
  cidr_blocks = ["0.0.0.0/0"]
}

tags = {
  Name = "Web-Server2-SG"
}
```

Result:

Security Groups (1/3) Info

Actions

Export security groups to CSV

Create security group

Filter security groups

< 1 > ⚙

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input checked="" type="checkbox"/>	Web-Server2-SG	sg-0db153f17806a68e2	Web-Server2-SG	vpc-017bc9dddf64a743a	Allows HTTP access	715783894
<input type="checkbox"/>	-	sg-78ef4c41	default	vpc-de648da3	default VPC security gr...	715783894
<input type="checkbox"/>	-	sg-0ac0ab45cc457067b	default	vpc-017bc9dddf64a743a	default VPC security gr...	715783894

sg-0db153f17806a68e2 - Web-Server2-SG

Details

Inbound rules

Outbound rules

Tags

Details

Security group name Web-Server2-SG	Security group ID sg-0db153f17806a68e2	Description Allows HTTP access	VPC ID vpc-017bc9dddf64a743a
Owner 715783894902	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Security Groups (1/3) [Info](#)

[Refresh](#) [Actions](#) [Export security groups to CSV](#) [Create security group](#)

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input checked="" type="checkbox"/>	Web-Server2-SG	sg-0db153f17806a68e2	Web-Server2-SG	vpc-017bc9dddf64a743a	Allows HTTP access	715783894
<input type="checkbox"/>	-	sg-78ef4c41	default	vpc-de648da3	default VPC security gr...	715783894
<input type="checkbox"/>	-	sg-0ac0ab45cc457067b	default	vpc-017bc9dddf64a743a	default VPC security gr...	715783894

sg-0db153f17806a68e2 - Web-Server2-SG

[Details](#) [Inbound rules](#) [Outbound rules](#) [Tags](#)

Inbound rules (1/1)

[Refresh](#) [Manage tags](#) [Edit inbound rules](#)

IP version	Type	Protocol	Port range	Source	Description
IPv4	HTTP	TCP	80	0.0.0.0/0	Allow web access

Security Groups (1/3) [Info](#)

[Refresh](#) [Actions](#) [Export security groups to CSV](#) [Create security group](#)

	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input checked="" type="checkbox"/>	Web-Server2-SG	sg-0db153f17806a68e2	Web-Server2-SG	vpc-017bc9dddf64a743a	Allows HTTP access	715783894
<input type="checkbox"/>	-	sg-78ef4c41	default	vpc-de648da3	default VPC security gr...	715783894
<input type="checkbox"/>	-	sg-0ac0ab45cc457067b	default	vpc-017bc9dddf64a743a	default VPC security gr...	715783894

sg-0db153f17806a68e2 - Web-Server2-SG

[Details](#) [Inbound rules](#) [Outbound rules](#) [Tags](#)

Outbound rules (1/1)

[Refresh](#) [Manage tags](#) [Edit outbound rules](#)

IP version	Type	Protocol	Port range	Destination	Description
IPv4	All traffic	All	All	0.0.0.0/0	-

EC2 Instance

Code:

```
data "aws_ami" "amazon-linux-2" {
  most_recent = true
  owners     = [ "amazon" ]
  filter {
    name     = "name"
    values   = [ "amzn2-ami-hvm-*-gp2" ]
  }
}
```

```

resource "aws_instance" "Web-Server2" {
  ami      = data.aws_ami.amazon-linux-2.id
  instance_type = "t2.micro"
  subnet_id = aws_subnet.public_subnet1.id
  associate_public_ip_address = true
  vpc_security_group_ids = [aws_security_group.webserversg2.id]
  tags = {
    Name = "Web-Server2"
  }
  iam_instance_profile = "Work-Role"
  user_data = <<EOF
#!/bin/bash
# Install Apache Web Server and PHP
yum install -y httpd mysql
amazon-linux-extras install -y php7.2
# Download Lab files
wget https://aws-tc-largeobjects.s3.us-west-2.amazonaws.com/CUR-TF-100-EDNETW-1-60961/1-lab-
getting-started-vpc/s3/inventory-app.zip
unzip inventory-app.zip -d /var/www/html/
# Download and install the AWS SDK for PHP
wget https://github.com/aws/aws-sdk-php/releases/download/3.62.3/aws.zip
unzip aws -d /var/www/html
# Turn on web server
chkconfig httpd on
service httpd start
EOF
}

```

Result:

🔍 Find instance by attribute or tag (case-sensitive)

Instance state = running

✕

Clear filters

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Avai
<input checked="" type="checkbox"/>	Web-Server2	i-098f0cccd6679fbe2	🟢 Running	t2.micro	🟢 2/2 checks passed	No alarms	+

Instance: i-098f0cccd6679fbe2 (Web-Server2)

⚙️

✕

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

▼ Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
<div><div>📄</div>i-098f0cccd6679fbe2 (Web-Server2)</div>	<div><div>📄</div>3.92.234.20 open address</div>	<div><div>📄</div>10.0.0.80</div>
IPv6 address	Instance state	Public IPv4 DNS
–	🟢 Running	–
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-10-0-0-80.ec2.internal	<div><div>📄</div>ip-10-0-0-80.ec2.internal</div>	–
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
–	t2.micro	🔔 Opt-in to AWS Compute Optimizer for recommendation
Auto-assigned IP address	VPC ID	
<div><div>📄</div>3.92.234.20 [Public IP]</div>	<div><div>📄</div>vpc-017bc9dddf64a743a (Lab-VPC)</div>	

Instance: i-098f0cccd6679fbe2 (Web-Server2)

⚙️

✕

▼ Security details

IAM Role	Owner ID	Launch time
<div><div>📄</div>EC2InstanceRole</div>	<div><div>📄</div>71573894902</div>	Sun Aug 27 2023 09:17:46 GMT+0800 (China Standard Time)
Security groups		
<div><div>📄</div>sg-0db153f17806a68e2 (Web-Server2-SG)</div>		

▼ Inbound rules

🔍 Filter rules

< 1 >

Security group rule ID	Port range	Protocol	Source	Security groups	Description
sgr-0e81eb1da23ede4bc	80	TCP	0.0.0.0/0	Web-Server2-SG	Allow web access

Instances (1/1) [Info](#)

Instance state = running

Clear filters

< 1 >

⚙

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Avail:
<input checked="" type="checkbox"/>	Web-Server2	i-098f0cccd6679fbe2	Running	t2.micro	2/2 checks passed	No alarms	us-ea

Instance: i-098f0cccd6679fbe2 (Web-Server2)

⚙

✕

▼ Networking details [Info](#)

Public IPv4 address

3.92.234.20

open address

Public IPv4 DNS

-

Subnet ID

subnet-07e76d2effbdd1048

(Public Subnet 1)

Availability zone

us-east-1a

Use RBN as guest OS hostname

Disabled

Private IPv4 addresses

10.0.0.80

Private IP DNS name (IPv4 only)

ip-10-0-0-80.ec2.internal

IPv6 addresses

-

Carrier IP addresses (ephemeral)

-

Answer RBN DNS hostname IPv4

Disabled

VPC ID

vpc-017bc9dddf64a743a

(Lab-VPC)

Secondary private IPv4 addresses

-

Outpost ID

-

Instance: i-098f0cccd6679fbe2 (Web-Server2)

⚙

✕

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

▼ Root device details

Root device name

/dev/xvda

Root device type

EBS

EBS optimization

disabled

▼ Block devices

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-05d5b9443bdfc44c8	/dev/xvda	8	Attached	2023/08/27 09:17 GMT+8	No	-

Web Server Result:

←

↺

⚠ Not secure

3.92.234.20

A

☆

🔄

📄

🔖

📦 Inventory

⚙ Settings

Please configure Settings to connect to database

This page was generated by instance i-098f0cccd6679fbe2 in Availability Zone us-east-1a.

Your VPCs (1) Info

Find resources by attribute or tag

Actions

Create VPC

	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	-	vpc-de648da3	Available	172.31.0.0/16	-

Subnets (6) Info

Find resources by attribute or tag

Actions

Create subnet

	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	-	subnet-c9f62de8	Available	vpc-de648da3	172.31.80.0/20
<input type="checkbox"/>	-	subnet-f97c10b4	Available	vpc-de648da3	172.31.16.0/20
<input type="checkbox"/>	-	subnet-6ef16760	Available	vpc-de648da3	172.31.64.0/20
<input type="checkbox"/>	-	subnet-86a37ad9	Available	vpc-de648da3	172.31.32.0/20
<input type="checkbox"/>	-	subnet-e634d4d7	Available	vpc-de648da3	172.31.48.0/20
<input type="checkbox"/>	-	subnet-275e8341	Available	vpc-de648da3	172.31.0.0/20

Route tables (1) Info

Find resources by attribute or tag

Actions

Create route table

	Name	Route table ID	Explicit subnet associati...	Edge associations	Main	VPC
<input type="checkbox"/>	-	rtb-9381f5ed	-	-	Yes	vpc-de648da3

Internet gateways (1/1) Info

Filter internet gateways

Actions

Create internet gateway

<input checked="" type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input checked="" type="checkbox"/>	-	igw-afbfe3d4	Attached	vpc-de648da3	715783894902

igw-afbfe3d4

DetailsTags

Details

Internet gateway ID

igw-afbfe3d4

State

Attached

VPC ID

vpc-de648da3

Owner

715783894902

Security Groups (1/1) [Info](#) ↻ Actions ▼ Export security groups to CSV ▼ Create security group

Filter security groups

<input checked="" type="checkbox"/>	Name ▼	Security group ID ▼	Security group name ▼	VPC ID ▼	Description ▼	Owner
<input checked="" type="checkbox"/>	-	sg-78ef4c41	default	vpc-de648da3	default VPC security gr...	715783894902

sg-78ef4c41 - default

[Details](#) [Inbound rules](#) [Outbound rules](#) [Tags](#)

Outbound rules (1/1) ↻ Manage tags Edit outbound rules

Filter security group rules

<input checked="" type="checkbox"/>	Name ▼	Security group rule... ▼	IP version ▼	Type ▼	Protocol ▼	Port range
<input checked="" type="checkbox"/>	-	sgr-0c9311b44fb1d4e20	IPv4	All traffic	All	All

Instances [Info](#) ↻ Connect Instance state ▼ Actions ▼ Launch instances ▼

Find instance by attribute or tag (case-sensitive)

Instance state = running × Clear filters

<input type="checkbox"/>	Name ▼	Instance ID ▼	Instance state ▼	Instance type ▼	Status check	Alarm status	Availabili
No matching instances found							

Select an instance

Terraform Apply Log

```
D:\Terraform\terraform_aws\EC2>terraform apply
data.aws_ami.amazon-linux-2: Reading...
data.aws_ami.amazon-linux-2: Read complete after 2s [id=ami-0e1c5d8c23330dee3]
```

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

+ create

Terraform will perform the following actions:

```
# aws_instance.Web-Server2 will be created
+ resource "aws_instance" "Web-Server2" {
+   ami                = "ami-0e1c5d8c23330dee3"
+   arn                = (known after apply)
+   associate_public_ip_address = true
+   availability_zone   = (known after apply)
+   cpu_core_count      = (known after apply)
+   cpu_threads_per_core = (known after apply)
```

```

+ disable_api_stop           = (known after apply)
+ disable_api_termination   = (known after apply)
+ ebs_optimized              = (known after apply)
+ get_password_data         = false
+ host_id                   = (known after apply)
+ host_resource_group_arn    = (known after apply)
+ iam_instance_profile       = "Work-Role"
+ id                        = (known after apply)
+ instance_initiated_shutdown_behavior = (known after apply)
+ instance_lifecycle         = (known after apply)
+ instance_state             = (known after apply)
+ instance_type              = "t2.micro"
+ ipv6_address_count         = (known after apply)
+ ipv6_addresses             = (known after apply)
+ key_name                   = (known after apply)
+ monitoring                 = (known after apply)
+ outpost_arn                = (known after apply)
+ password_data              = (known after apply)
+ placement_group            = (known after apply)
+ placement_partition_number = (known after apply)
+ primary_network_interface_id = (known after apply)
+ private_dns                 = (known after apply)
+ private_ip                 = (known after apply)
+ public_dns                 = (known after apply)
+ public_ip                  = (known after apply)
+ secondary_private_ips       = (known after apply)
+ security_groups             = (known after apply)
+ source_dest_check           = true
+ spot_instance_request_id    = (known after apply)
+ subnet_id                  = (known after apply)
+ tags                       = {
  + "Name" = "Web-Server2"
}
+ tags_all                   = {
  + "Name" = "Web-Server2"
}
+ tenancy                    = (known after apply)
+ user_data                  = "abdb6c5b0745d074e2d2210932d7f41e56c27052"
+ user_data_base64           = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids     = (known after apply)
}

```

aws_internet_gateway.labgw will be created

```

+ resource "aws_internet_gateway" "labgw" {
  + arn    = (known after apply)
  + id     = (known after apply)
  + owner_id = (known after apply)
}

```

```

+ tags    = {
  + "Name" = "LAB IG"
}
+ tags_all = {
  + "Name" = "LAB IG"
}
+ vpc_id   = (known after apply)
}

```

aws_route_table.labrt will be created

```

+ resource "aws_route_table" "labrt" {
  + arn          = (known after apply)
  + id           = (known after apply)
  + owner_id     = (known after apply)
  + propagating_vgws = (known after apply)
  + route        = [
    + {
      + carrier_gateway_id    = ""
      + cidr_block            = "0.0.0.0/0"
      + core_network_arn      = ""
      + destination_prefix_list_id = ""
      + egress_only_gateway_id = ""
      + gateway_id            = (known after apply)
      + ipv6_cidr_block        = ""
      + local_gateway_id       = ""
      + nat_gateway_id         = ""
      + network_interface_id    = ""
      + transit_gateway_id      = ""
      + vpc_endpoint_id        = ""
      + vpc_peering_connection_id = ""
    },
  ]
  + tags    = {
    + "Name" = "Lab Route Table"
  }
  + tags_all = {
    + "Name" = "Lab Route Table"
  }
  + vpc_id   = (known after apply)
}

```

aws_route_table_association.public_subnet1_assoc will be created

```

+ resource "aws_route_table_association" "public_subnet1_assoc" {
  + id            = (known after apply)
  + route_table_id = (known after apply)
  + subnet_id     = (known after apply)
}

```



```
# aws_route_table_association.public_subnet2_assoc will be created
+ resource "aws_route_table_association" "public_subnet2_assoc" {
  + id          = (known after apply)
  + route_table_id = (known after apply)
  + subnet_id    = (known after apply)
}
```

```
# aws_security_group.webserver2 will be created
+ resource "aws_security_group" "webserver2" {
  + arn          = (known after apply)
  + description   = "Allows HTTP access"
  + egress        = [
    + {
      + cidr_blocks = [
        + "0.0.0.0/0",
      ]
      + description = ""
      + from_port    = 0
      + ipv6_cidr_blocks = []
      + prefix_list_ids = []
      + protocol      = "-1"
      + security_groups = []
      + self           = false
      + to_port        = 0
    },
  ]
  + id          = (known after apply)
  + ingress      = [
    + {
      + cidr_blocks = [
        + "0.0.0.0/0",
      ]
      + description = "Allow web access"
      + from_port    = 80
      + ipv6_cidr_blocks = []
      + prefix_list_ids = []
      + protocol      = "tcp"
      + security_groups = []
      + self           = false
      + to_port        = 80
    },
  ]
  + name          = "Web-Server2-SG"
  + name_prefix    = (known after apply)
  + owner_id       = (known after apply)
  + revoke_rules_on_delete = false
  + tags           = {
    + "Name" = "Web-Server2-SG"
  }
}
```

```

    }
+ tags_all      = {
  + "Name" = "Web-Server2-SG"
}
+ vpc_id        = (known after apply)
}

```

aws_subnet.private_subnet1 will be created

```

+ resource "aws_subnet" "private_subnet1" {
  + arn                  = (known after apply)
  + assign_ipv6_address_on_creation = false
  + availability_zone     = "us-east-1a"
  + availability_zone_id   = (known after apply)
  + cidr_block            = "10.0.2.0/24"
  + enable_dns64          = false
  + enable_resource_name_dns_a_record_on_launch = false
  + enable_resource_name_dns_aaaa_record_on_launch = false
  + id                   = (known after apply)
  + ipv6_cidr_block_association_id = (known after apply)
  + ipv6_native           = false
  + map_public_ip_on_launch = false
  + owner_id              = (known after apply)
  + private_dns_hostname_type_on_launch = (known after apply)
  + tags                  = {
    + "Name" = "Private Subnet 1"
  }
  + tags_all              = {
    + "Name" = "Private Subnet 1"
  }
  + vpc_id                = (known after apply)
}

```

aws_subnet.private_subnet2 will be created

```

+ resource "aws_subnet" "private_subnet2" {
  + arn                  = (known after apply)
  + assign_ipv6_address_on_creation = false
  + availability_zone     = "us-east-1b"
  + availability_zone_id   = (known after apply)
  + cidr_block            = "10.0.3.0/24"
  + enable_dns64          = false
  + enable_resource_name_dns_a_record_on_launch = false
  + enable_resource_name_dns_aaaa_record_on_launch = false
  + id                   = (known after apply)
  + ipv6_cidr_block_association_id = (known after apply)
  + ipv6_native           = false
  + map_public_ip_on_launch = false
  + owner_id              = (known after apply)
  + private_dns_hostname_type_on_launch = (known after apply)
}

```

```

+ tags = {
  + "Name" = "Private Subnet 2"
}
+ tags_all = {
  + "Name" = "Private Subnet 2"
}
+ vpc_id = (known after apply)
}

```

aws_subnet.public_subnet1 will be created

```

+ resource "aws_subnet" "public_subnet1" {
  + arn = (known after apply)
  + assign_ipv6_address_on_creation = false
  + availability_zone = "us-east-1a"
  + availability_zone_id = (known after apply)
  + cidr_block = "10.0.0.0/24"
  + enable_dns64 = false
  + enable_resource_name_dns_a_record_on_launch = false
  + enable_resource_name_dns_aaaa_record_on_launch = false
  + id = (known after apply)
  + ipv6_cidr_block_association_id = (known after apply)
  + ipv6_native = false
  + map_public_ip_on_launch = false
  + owner_id = (known after apply)
  + private_dns_hostname_type_on_launch = (known after apply)
  + tags = {
    + "Name" = "Public Subnet 1"
  }
  + tags_all = {
    + "Name" = "Public Subnet 1"
  }
  + vpc_id = (known after apply)
}

```

aws_subnet.public_subnet2 will be created

```

+ resource "aws_subnet" "public_subnet2" {
  + arn = (known after apply)
  + assign_ipv6_address_on_creation = false
  + availability_zone = "us-east-1b"
  + availability_zone_id = (known after apply)
  + cidr_block = "10.0.1.0/24"
  + enable_dns64 = false
  + enable_resource_name_dns_a_record_on_launch = false
  + enable_resource_name_dns_aaaa_record_on_launch = false
  + id = (known after apply)
  + ipv6_cidr_block_association_id = (known after apply)
  + ipv6_native = false
  + map_public_ip_on_launch = false
}

```

```

+ owner_id                = (known after apply)
+ private_dns_hostname_type_on_launch = (known after apply)
+ tags                    = {
  + "Name" = "Public Subnet 2"
}
+ tags_all                = {
  + "Name" = "Public Subnet 2"
}
+ vpc_id                  = (known after apply)
}

```

aws_vpc.lab will be created

```

+ resource "aws_vpc" "lab" {
  + arn                = (known after apply)
  + 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" = "Lab-VPC"
  }
  + tags_all            = {
    + "Name" = "Lab-VPC"
  }
}

```

Plan: 11 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.lab: Creating...

aws_vpc.lab: Creation complete after 3s [id=vpc-017bc9dddf64a743a]

aws_internet_gateway.labgw: Creating...

aws_subnet.public_subnet2: Creating...
aws_subnet.public_subnet1: Creating...
aws_subnet.private_subnet2: Creating...
aws_subnet.private_subnet1: Creating...
aws_security_group.webserver2: Creating...
aws_subnet.public_subnet1: Creation complete after 2s [id=subnet-07e76d2effbdd1048]
aws_subnet.private_subnet1: Creation complete after 2s [id=subnet-0890c71dc174daccb]
aws_subnet.private_subnet2: Creation complete after 2s [id=subnet-0d408a138187bf56c]
aws_internet_gateway.labgw: Creation complete after 3s [id=igw-05cb3752d8020ab44]
aws_subnet.public_subnet2: Creation complete after 3s [id=subnet-0d2285c7f14149ec8]
aws_route_table.labrt: Creating...
aws_route_table.labrt: Creation complete after 2s [id=rtb-09f83c48ac045e565]
aws_route_table_association.public_subnet2_assoc: Creating...
aws_route_table_association.public_subnet1_assoc: Creating...
aws_route_table_association.public_subnet1_assoc: Creation complete after 1s [id=rtbassoc-0899e4118a34fbc18]
aws_route_table_association.public_subnet2_assoc: Creation complete after 1s [id=rtbassoc-0b30a42bbedefdeeb]
aws_security_group.webserver2: Creation complete after 7s [id=sg-0db153f17806a68e2]
aws_instance.Web-Server2: Creating...
aws_instance.Web-Server2: Still creating... [10s elapsed]
aws_instance.Web-Server2: Still creating... [20s elapsed]
aws_instance.Web-Server2: Still creating... [30s elapsed]
aws_instance.Web-Server2: Creation complete after 35s [id=i-098f0cccd6679fbe2]

Apply complete! Resources: 11 added, 0 changed, 0 destroyed.

D:\Terraform\terraform_aws\EC2>

Terraform Destroy Log

Destroy Result:

D:\Terraform\terraform_aws\EC2>terraform destroy
aws_route_table_association.public_subnet2_assoc: Refreshing state... [id=rtbassoc-0b30a42bbedefdeeb]
aws_vpc.lab: Refreshing state... [id=vpc-017bc9dddf64a743a]
data.aws_ami.amazon-linux-2: Reading...
data.aws_ami.amazon-linux-2: Read complete after 2s [id=ami-0e1c5d8c23330dee3]
aws_subnet.private_subnet2: Refreshing state... [id=subnet-0d408a138187bf56c]
aws_internet_gateway.labgw: Refreshing state... [id=igw-05cb3752d8020ab44]
aws_subnet.public_subnet1: Refreshing state... [id=subnet-07e76d2effbdd1048]
aws_subnet.public_subnet2: Refreshing state... [id=subnet-0d2285c7f14149ec8]
aws_subnet.private_subnet1: Refreshing state... [id=subnet-0890c71dc174daccb]
aws_security_group.webserver2: Refreshing state... [id=sg-0db153f17806a68e2]
aws_route_table.labrt: Refreshing state... [id=rtb-09f83c48ac045e565]
aws_instance.Web-Server2: Refreshing state... [id=i-098f0cccd6679fbe2]

aws_route_table_association.public_subnet1_assoc: Refreshing state... [id=rtbassoc-0899e4118a34fbc18]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

- destroy

Terraform will perform the following actions:

```
# aws_instance.Web-Server2 will be destroyed
- resource "aws_instance" "Web-Server2" {
  - ami                = "ami-0e1c5d8c23330dee3" -> null
  - arn                = "arn:aws:ec2:us-east-1:715783894902:instance/i-098f0cccd6679fbe2" ->
null
  - associate_public_ip_address    = true -> null
  - availability_zone              = "us-east-1a" -> null
  - cpu_core_count                 = 1 -> null
  - cpu_threads_per_core           = 1 -> null
  - disable_api_stop               = false -> null
  - disable_api_termination        = false -> null
  - ebs_optimized                  = false -> null
  - get_password_data              = false -> null
  - hibernation                    = false -> null
  - iam_instance_profile            = "Work-Role" -> null
  - id                            = "i-098f0cccd6679fbe2" -> null
  - instance_initiated_shutdown_behavior = "stop" -> null
  - instance_state                 = "running" -> null
  - instance_type                  = "t2.micro" -> null
  - ipv6_address_count              = 0 -> null
  - ipv6_addresses                 = [] -> null
  - monitoring                     = false -> null
  - placement_partition_number      = 0 -> null
  - primary_network_interface_id    = "eni-0104387af0cab9f05" -> null
  - private_dns                    = "ip-10-0-0-80.ec2.internal" -> null
  - private_ip                     = "10.0.0.80" -> null
  - public_ip                      = "3.92.234.20" -> null
  - secondary_private_ips           = [] -> null
  - security_groups                 = [] -> null
  - source_dest_check               = true -> null
  - subnet_id                      = "subnet-07e76d2effbdd1048" -> null
  - tags                           = {
    - "Name" = "Web-Server2"
  } -> null
  - tags_all                       = {
    - "Name" = "Web-Server2"
  } -> null
  - tenancy                        = "default" -> null
  - user_data                      = "abdb6c5b0745d074e2d2210932d7f41e56c27052" -> null
```

- user_data_replace_on_change = false -> null
- vpc_security_group_ids = [
 - "sg-0db153f17806a68e2",
] -> null
- capacity_reservation_specification {
 - capacity_reservation_preference = "open" -> null
 }
- cpu_options {
 - core_count = 1 -> null
 - threads_per_core = 1 -> null
 }
- credit_specification {
 - cpu_credits = "standard" -> null
 }
- enclave_options {
 - enabled = false -> null
 }
- maintenance_options {
 - auto_recovery = "default" -> null
 }
- metadata_options {
 - http_endpoint = "enabled" -> null
 - http_protocol_ipv6 = "disabled" -> null
 - http_put_response_hop_limit = 1 -> null
 - http_tokens = "optional" -> null
 - instance_metadata_tags = "disabled" -> null
 }
- private_dns_name_options {
 - enable_resource_name_dns_a_record = false -> null
 - enable_resource_name_dns_aaaa_record = false -> null
 - hostname_type = "ip-name" -> null
 }
- root_block_device {
 - delete_on_termination = true -> null
 - device_name = "/dev/xvda" -> null
 - encrypted = false -> null
 - iops = 100 -> null
 - tags = {} -> null
 - throughput = 0 -> null
 - volume_id = "vol-05d5b9443bdfc44c8" -> null
 }

```

    - volume_size      = 8 -> null
    - volume_type      = "gp2" -> null
  }
}

```

aws_internet_gateway.labgw will be destroyed

```

- resource "aws_internet_gateway" "labgw" {
  - arn      = "arn:aws:ec2:us-east-1:715783894902:internet-gateway/igw-05cb3752d8020ab44" -> null
  - id      = "igw-05cb3752d8020ab44" -> null
  - owner_id = "715783894902" -> null
  - tags    = {
    - "Name" = "LAB IG"
  } -> null
  - tags_all = {
    - "Name" = "LAB IG"
  } -> null
  - vpc_id   = "vpc-017bc9dddf64a743a" -> null
}

```

aws_route_table.labrt will be destroyed

```

- resource "aws_route_table" "labrt" {
  - arn      = "arn:aws:ec2:us-east-1:715783894902:route-table/rtb-09f83c48ac045e565" -> null
  - id      = "rtb-09f83c48ac045e565" -> null
  - owner_id = "715783894902" -> null
  - propagating_vgws = [] -> null
  - route    = [
    - {
      - carrier_gateway_id      = ""
      - cidr_block              = "0.0.0.0/0"
      - core_network_arn        = ""
      - destination_prefix_list_id = ""
      - egress_only_gateway_id  = ""
      - gateway_id              = "igw-05cb3752d8020ab44"
      - ipv6_cidr_block          = ""
      - local_gateway_id        = ""
      - nat_gateway_id          = ""
      - network_interface_id     = ""
      - transit_gateway_id       = ""
      - vpc_endpoint_id         = ""
      - vpc_peering_connection_id = ""
    },
  ] -> null
  - tags    = {
    - "Name" = "Lab Route Table"
  } -> null
  - tags_all = {
    - "Name" = "Lab Route Table"
  } -> null
}

```



```

- vpc_id      = "vpc-017bc9dddf64a743a" -> null
}

# aws_route_table_association.public_subnet1_assoc will be destroyed
- resource "aws_route_table_association" "public_subnet1_assoc" {
  - id          = "rtbassoc-0899e4118a34fbc18" -> null
  - route_table_id = "rtb-09f83c48ac045e565" -> null
  - subnet_id    = "subnet-07e76d2effbdd1048" -> null
}

# aws_route_table_association.public_subnet2_assoc will be destroyed
- resource "aws_route_table_association" "public_subnet2_assoc" {
  - id          = "rtbassoc-0b30a42bbedefdeeb" -> null
  - route_table_id = "rtb-09f83c48ac045e565" -> null
  - subnet_id    = "subnet-0d2285c7f14149ec8" -> null
}

# aws_security_group.webserversg2 will be destroyed
- resource "aws_security_group" "webserversg2" {
  - arn          = "arn:aws:ec2:us-east-1:715783894902:security-group/sg-0db153f17806a68e2" ->
null
  - description  = "Allows HTTP access" -> null
  - egress       = [
    - {
      - cidr_blocks = [
        - "0.0.0.0/0",
      ]
      - description = ""
      - from_port   = 0
      - ipv6_cidr_blocks = []
      - prefix_list_ids = []
      - protocol    = "-1"
      - security_groups = []
      - self        = false
      - to_port     = 0
    },
  ] -> null
  - id          = "sg-0db153f17806a68e2" -> null
  - ingress     = [
    - {
      - cidr_blocks = [
        - "0.0.0.0/0",
      ]
      - description = "Allow web access"
      - from_port   = 80
      - ipv6_cidr_blocks = []
      - prefix_list_ids = []
      - protocol    = "tcp"
    }
  ]
}

```

```

    - security_groups = []
    - self           = false
    - to_port        = 80
  },
] -> null
- name              = "Web-Server2-SG" -> null
- owner_id          = "715783894902" -> null
- revoke_rules_on_delete = false -> null
- tags              = {
  - "Name" = "Web-Server2-SG"
} -> null
- tags_all          = {
  - "Name" = "Web-Server2-SG"
} -> null
- vpc_id            = "vpc-017bc9dddf64a743a" -> null
}

```

aws_subnet.private_subnet1 will be destroyed

```

- resource "aws_subnet" "private_subnet1" {
  - arn              = "arn:aws:ec2:us-east-1:715783894902:subnet/subnet-
0890c71dc174dacb" -> null
  - assign_ipv6_address_on_creation = false -> null
  - availability_zone              = "us-east-1a" -> null
  - availability_zone_id           = "use1-az2" -> null
  - cidr_block                     = "10.0.2.0/24" -> null
  - enable_dns64                  = false -> null
  - enable_lni_at_device_index    = 0 -> null
  - enable_resource_name_dns_a_record_on_launch = false -> null
  - enable_resource_name_dns_aaaa_record_on_launch = false -> null
  - id                            = "subnet-0890c71dc174dacb" -> null
  - ipv6_native                   = false -> null
  - map_customer_owned_ip_on_launch = false -> null
  - map_public_ip_on_launch        = false -> null
  - owner_id                      = "715783894902" -> null
  - private_dns_hostname_type_on_launch = "ip-name" -> null
  - tags                          = {
    - "Name" = "Private Subnet 1"
  } -> null
  - tags_all                      = {
    - "Name" = "Private Subnet 1"
  } -> null
  - vpc_id                      = "vpc-017bc9dddf64a743a" -> null
}

```

aws_subnet.private_subnet2 will be destroyed

```

- resource "aws_subnet" "private_subnet2" {
  - arn              = "arn:aws:ec2:us-east-1:715783894902:subnet/subnet-
0d408a138187bf56c" -> null

```

```

- assign_ipv6_address_on_creation      = false -> null
- availability_zone                    = "us-east-1b" -> null
- availability_zone_id                 = "use1-az4" -> null
- cidr_block                          = "10.0.3.0/24" -> null
- enable_dns64                        = false -> null
- enable_ini_at_device_index          = 0 -> null
- enable_resource_name_dns_a_record_on_launch = false -> null
- enable_resource_name_dns_aaaa_record_on_launch = false -> null
- id                                  = "subnet-0d408a138187bf56c" -> null
- ipv6_native                         = false -> null
- map_customer_owned_ip_on_launch     = false -> null
- map_public_ip_on_launch             = false -> null
- owner_id                           = "715783894902" -> null
- private_dns_hostname_type_on_launch = "ip-name" -> null
- tags                               = {
  - "Name" = "Private Subnet 2"
} -> null
- tags_all                           = {
  - "Name" = "Private Subnet 2"
} -> null
- vpc_id                             = "vpc-017bc9dddf64a743a" -> null
}

```

aws_subnet.public_subnet1 will be destroyed

```

- resource "aws_subnet" "public_subnet1" {
  - arn                                = "arn:aws:ec2:us-east-1:715783894902:subnet/subnet-
07e76d2effbdd1048" -> null
  - assign_ipv6_address_on_creation    = false -> null
  - availability_zone                  = "us-east-1a" -> null
  - availability_zone_id               = "use1-az2" -> null
  - cidr_block                        = "10.0.0.0/24" -> null
  - enable_dns64                      = false -> null
  - enable_ini_at_device_index        = 0 -> null
  - enable_resource_name_dns_a_record_on_launch = false -> null
  - enable_resource_name_dns_aaaa_record_on_launch = false -> null
  - id                                = "subnet-07e76d2effbdd1048" -> null
  - ipv6_native                       = false -> null
  - map_customer_owned_ip_on_launch   = false -> null
  - map_public_ip_on_launch           = false -> null
  - owner_id                          = "715783894902" -> null
  - private_dns_hostname_type_on_launch = "ip-name" -> null
  - tags                              = {
    - "Name" = "Public Subnet 1"
  } -> null
  - tags_all                          = {
    - "Name" = "Public Subnet 1"
  } -> null
  - vpc_id                            = "vpc-017bc9dddf64a743a" -> null
}

```

```
}
```

```
# aws_subnet.public_subnet2 will be destroyed
```

```
- resource "aws_subnet" "public_subnet2" {  
  - arn = "arn:aws:ec2:us-east-1:715783894902:subnet/subnet-  
0d2285c7f14149ec8" -> null  
  - assign_ipv6_address_on_creation = false -> null  
  - availability_zone = "us-east-1b" -> null  
  - availability_zone_id = "use1-az4" -> null  
  - cidr_block = "10.0.1.0/24" -> null  
  - enable_dns64 = false -> null  
  - enable_ni_at_device_index = 0 -> null  
  - enable_resource_name_dns_a_record_on_launch = false -> null  
  - enable_resource_name_dns_aaaa_record_on_launch = false -> null  
  - id = "subnet-0d2285c7f14149ec8" -> null  
  - ipv6_native = false -> null  
  - map_customer_owned_ip_on_launch = false -> null  
  - map_public_ip_on_launch = false -> null  
  - owner_id = "715783894902" -> null  
  - private_dns_hostname_type_on_launch = "ip-name" -> null  
  - tags = {  
    - "Name" = "Public Subnet 2"  
  } -> null  
  - tags_all = {  
    - "Name" = "Public Subnet 2"  
  } -> null  
  - vpc_id = "vpc-017bc9dddf64a743a" -> null  
}
```

```
# aws_vpc.lab will be destroyed
```

```
- resource "aws_vpc" "lab" {  
  - arn = "arn:aws:ec2:us-east-1:715783894902:vpc/vpc-017bc9dddf64a743a" -> null  
  - assign_generated_ipv6_cidr_block = false -> null  
  - cidr_block = "10.0.0.0/16" -> null  
  - default_network_acl_id = "acl-02c2ffbe2d80d4ca2" -> null  
  - default_route_table_id = "rtb-067b6e908a6094ec9" -> null  
  - default_security_group_id = "sg-0ac0ab45cc457067b" -> null  
  - dhcp_options_id = "dopt-5861eb22" -> null  
  - enable_dns_hostnames = false -> null  
  - enable_dns_support = true -> null  
  - enable_network_address_usage_metrics = false -> null  
  - id = "vpc-017bc9dddf64a743a" -> null  
  - instance_tenancy = "default" -> null  
  - ipv6_netmask_length = 0 -> null  
  - main_route_table_id = "rtb-067b6e908a6094ec9" -> null  
  - owner_id = "715783894902" -> null  
  - tags = {  
    - "Name" = "Lab-VPC"  
  }
```

```

    } -> null
  - tags_all = {
    - "Name" = "Lab-VPC"
    } -> null
  }
}

```

Plan: 0 to add, 0 to change, 11 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_route_table_association.public_subnet2_assoc: Destroying... [id=rtbassoc-0b30a42bbebdefdeeb]
aws_route_table_association.public_subnet1_assoc: Destroying... [id=rtbassoc-0899e4118a34fbc18]
aws_subnet.private_subnet2: Destroying... [id=subnet-0d408a138187bf56c]
aws_subnet.private_subnet1: Destroying... [id=subnet-0890c71dc174daccb]
aws_instance.Web-Server2: Destroying... [id=i-098f0cccd6679fbe2]
aws_route_table_association.public_subnet2_assoc: Destruction complete after 1s
aws_subnet.public_subnet2: Destroying... [id=subnet-0d2285c7f14149ec8]
aws_route_table_association.public_subnet1_assoc: Destruction complete after 1s
aws_route_table.labrt: Destroying... [id=rtb-09f83c48ac045e565]
aws_subnet.private_subnet2: Destruction complete after 2s
aws_subnet.private_subnet1: Destruction complete after 2s
aws_subnet.public_subnet2: Destruction complete after 1s
aws_route_table.labrt: Destruction complete after 2s
aws_internet_gateway.labgw: Destroying... [id=igw-05cb3752d8020ab44]
aws_instance.Web-Server2: Still destroying... [id=i-098f0cccd6679fbe2, 10s elapsed]
aws_internet_gateway.labgw: Still destroying... [id=igw-05cb3752d8020ab44, 10s elapsed]
aws_instance.Web-Server2: Still destroying... [id=i-098f0cccd6679fbe2, 20s elapsed]
aws_internet_gateway.labgw: Still destroying... [id=igw-05cb3752d8020ab44, 20s elapsed]
aws_instance.Web-Server2: Still destroying... [id=i-098f0cccd6679fbe2, 30s elapsed]
aws_internet_gateway.labgw: Still destroying... [id=igw-05cb3752d8020ab44, 30s elapsed]
aws_instance.Web-Server2: Still destroying... [id=i-098f0cccd6679fbe2, 40s elapsed]
aws_internet_gateway.labgw: Destruction complete after 39s
aws_instance.Web-Server2: Destruction complete after 43s
aws_subnet.public_subnet1: Destroying... [id=subnet-07e76d2effbdd1048]
aws_security_group.webserver2: Destroying... [id=sg-0db153f17806a68e2]
aws_subnet.public_subnet1: Destruction complete after 1s
aws_security_group.webserver2: Destruction complete after 1s
aws_vpc.lab: Destroying... [id=vpc-017bc9dddf64a743a]
aws_vpc.lab: Destruction complete after 1s

```

Destroy complete! Resources: 11 destroyed.

D:\Terraform\terraform_aws\EC2>