

```
}  
}  
  
# aws_subnet.my_subnet will be created  
+ resource "aws_subnet" "my_subnet" {  
  + arn                                = (known after apply)  
  + assign_ipv6_address_on_creation    = false  
  + availability_zone                  = "us-east-1b"  
  + availability_zone_id                = (known after apply)  
  + cidr_block                         = "172.16.10.0/24"  
  + 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" = "tf-example"  
  }  
  + tags_all                           = {  
    + "Name" = "tf-example"  
  }  
  + vpc_id                             = "vpc-006550eb63421dbe9"  
}
```

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_subnet.my_subnet: Creating...

aws_subnet.my_subnet: Creation complete after 2s [id=subnet-0cc2c609eee4356aa]

aws_network_interface.foo: Creating...

aws_network_interface.foo: Creation complete after 3s [id=eni-070a1bbae3ed3976e]

aws_instance.foo: Creating...

aws_instance.foo: Still creating... [10s elapsed]

aws_instance.foo: Still creating... [20s elapsed]

aws_instance.foo: Still creating... [30s elapsed]

aws_instance.foo: Creation complete after 35s [id=i-05cc768fb391e5eb3]

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

Q@Ev1-1661871 MINGW64 ~/Documents/terraform/task

\$

```
terraform {
  required_providers {
    aws = {
      source = "hashicorp/aws"
      version = "~> 5.0"
    }
  }
}

provider "aws" {
  region = "us-east-1"
  access_key = "AKIATCKARMUM565ICWHV"
  secret_key = "Sho/VSaKzKk3jn6jHp1LQeojG2qAepYFRX5HwQBb"
}

resource "aws_vpc" "my_vpc" {
  cidr_block = "172.16.0.0/16"

  tags = {
    Name = "tf-example"
  }
}

resource "aws_subnet" "my_subnet" {
  vpc_id = aws_vpc.my_vpc.id
  cidr_block = "172.16.10.0/24"
  availability_zone = "us-east-1b"

  tags = {
    Name = "tf-example"
  }
}

resource "aws_network_interface" "foo" {
  subnet_id = aws_subnet.my_subnet.id
  private_ips = ["172.16.10.100"]

  tags = {
    Name = "primary_network_interface"
  }
}

resource "aws_instance" "foo" {
  ami = "ami-080e1f13689e07408" # us-east-1
  instance_type = "t2.micro"
}
```

main.tf [unix] (17:03 25/04/2024)

"main.tf" [unix] 611, 1020B

```
}

resource "aws_vpc" "my_vpc" {
  cidr_block = "172.16.0.0/16"

  tags = {
    Name = "tf-example"
  }
}

resource "aws_subnet" "my_subnet" {
  vpc_id      = aws_vpc.my_vpc.id
  cidr_block  = "172.16.10.0/24"
  availability_zone = "us-east-1b"

  tags = {
    Name = "tf-example"
  }
}

resource "aws_network_interface" "foo" {
  subnet_id = aws_subnet.my_subnet.id
  private_ips = ["172.16.10.100"]

  tags = {
    Name = "primary_network_interface"
  }
}

resource "aws_instance" "foo" {
  ami = "ami-080elf13689e07408" # us-east-1
  instance_type = "t2.micro"

  network_interface {
    network_interface_id = aws_network_interface.foo.id
    device_index = 0
  }
  credit_specification {
    cpu_credits = "unlimited"
  }
}
```

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Instances (1/1)

Find Instance by attribute or tag (case-sensitive)

Instance state = running

Clear filters

Launch instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>		i-05cc768fb391e5eb3	Running	t2.micro	Initializing	View alarms	us-east-1b

i-05cc768fb391e5eb3

DetailsStatus and alarmsMonitoringSecurityNetworkingStorageTags

Instance summary

Instance ID

i-05cc768fb391e5eb3

Public IPv4 address

-

Private IPv4 addresses

172.16.10.100

IPv6 address

-

Instance state

Running

Public IPv4 DNS

-

CloudShell


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VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

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Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

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NAT gateways

Your VPCs (1/1)

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Create VPC

Search

< 1 >

	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
<input checked="" type="checkbox"/>	tf-example	vpc-006550eb63421dbe9	Available	172.16.0.0/16	-

vpc-006550eb63421dbe9 / tf-example

Details

Resource map


CIDRs

Flow logs

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VPC ID	State	DNS hostnames	DNS resolution
 vpc-006550eb63421dbe9	Available	Disabled	Enabled

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Filter by VPC:
Select a VPC

Virtual private cloud

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Subnets (1/1) Info

Actions

Create subnet

<input checked="" type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input checked="" type="checkbox"/>	tf-example	subnet-0cc2c609eee4356aa	Available	vpc-006550eb63421dbe9 tf-e...	172.16.

subnet-0cc2c609eee4356aa / tf-example

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Sharing

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Network interfaces (1/1)

Info

Last updated less than a minute ago

Actions

Create network interface

Search

Name

Network interface ID

Subnet ID

VPC ID

Availability Zone

primary_netw...

eni-070a1bbae3ed3976e

subnet-0cc2c609eee4356aa

vpc-006550eb63421dbe9

us-east-1b

Unselect network interface: primary_network_interface

Network interface: eni-070a1bbae3ed3976e (primary_network_interface)

Details

Flow logs

Tags

Network interface details

Network interface ID	Name	Description
eni-070a1bbae3ed3976e	primary_network_interface	-
Network interface status	Interface type	Security groups
In-use	Elastic network interface	sg-0b2b7488ad6eb8122 (default)
VPC ID	Subnet ID	Availability Zone

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Export security groups to CSV

Create security group

Find resources by attribute or tag

Name

Security group ID

Security group name

VPC ID

-

sg-0b2b7488ad6eb8122

default

vpc-006550eb63421dbe9

sg-0b2b7488ad6eb8122 - default

Details

Inbound rules

Outbound rules

Tags

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MINGW64/c:/Users/Q/Documents/terraform/task

```
    self      = true
    from_port = 0
    to_port   = 0
  }
}

resource "aws_lb" "network" {
  name            = "my-nlb"
  internal        = false
  load_balancer_type = "network"

  subnets      = [aws_subnet.my_subnet.id]

  tags = {
    Name = "MyNetworkLoadBalancer"
  }
}

resource "aws_lb_listener" "front_end" {
  load_balancer_arn = aws_lb.network.arn
  port              = 80
  protocol          = "TCP"

  default_action {
    type             = "forward"
    target_group_arn = aws_lb_target_group.front_end.arn
  }
}

resource "aws_lb_target_group" "front_end" {
  name      = "my-target-group"
  vpc_id    = aws_vpc.my_vpc.id
  port      = 80
  protocol  = "TCP"

  health_check {
    port = "80"
  }
}
```

main.tf [unix] (18:00 25/04/2024)

111,3 Bot

-- INSERT --

Windows taskbar showing the Start button, search bar (Type here to search), task view button, and several pinned application icons including File Explorer, Microsoft Edge, Google Chrome, and Photoshop. The system tray on the right displays the temperature (38°C), time (18:04), date (25-04-2024), and language (ENG).

```
# aws_lb_listener.front_end will be created
+ resource "aws_lb_listener" "front_end" {
+   arn                = (known after apply)
+   id                 = (known after apply)
+   load_balancer_arn = (known after apply)
+   port               = 80
+   protocol            = "TCP"
+   ssl_policy          = (known after apply)
+   tags_all           = (known after apply)
+
+   default_action {
+     order      = (known after apply)
+     target_group_arn = "arn:aws:elasticloadbalancing:us-east-1:211125626137:targetgroup/my-target-group/05521bac4324c5e6"
+     type       = "forward"
+   }
+ }
```

Plan: 2 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_lb.network: Creating...
aws_lb.network: Still creating... [10s elapsed]
aws_lb.network: Still creating... [20s elapsed]
aws_lb.network: Still creating... [30s elapsed]
aws_lb.network: Still creating... [40s elapsed]
aws_lb.network: Still creating... [50s elapsed]
aws_lb.network: Still creating... [1m0s elapsed]
aws_lb.network: Still creating... [1m10s elapsed]
aws_lb.network: Still creating... [1m20s elapsed]
aws_lb.network: Still creating... [1m30s elapsed]
aws_lb.network: Still creating... [1m40s elapsed]
aws_lb.network: Still creating... [1m50s elapsed]
aws_lb.network: Still creating... [2m0s elapsed]
aws_lb.network: Still creating... [2m10s elapsed]
aws_lb.network: Still creating... [2m20s elapsed]
aws_lb.network: Still creating... [2m30s elapsed]
aws_lb.network: Creation complete after 2m37s [id=arn:aws:elasticloadbalancing:us-east-1:211125626137:loadbalancer/net/my-nlb/384214ce63a5bfa8]
aws_lb_listener.front_end: Creating...
aws_lb_listener.front_end: Creation complete after 3s [id=arn:aws:elasticloadbalancing:us-east-1:211125626137:listener/net/my-nlb/384214ce63a5bfa8/834584e9a39af6f1]
```

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.

Q@Ev1-1661871 MINGW64 ~/Documents/terraform/task
\$ |

aws

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EC2 > Load balancers

Load balancers (1/1)

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

Filter load balancers

< 1 >

	Name	DNS name	State	VPC ID	Availability Zones
<input checked="" type="checkbox"/>	my-nlb	my-nlb-384214ce63a5bfa...	Active	vpc-006550eb63421d...	us-east-1b (use1-az4)

Load balancer: my-nlb

< Details

Listeners

Network mapping

Resource map - new

Security

Monitoring

Integrations

Attribute >

Details

Load balancer type	Status	VPC	IP address type
Network	Active	vpc-006550eb63421dbe9	IPv4

CloudShell

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- ▼ Load Balancing
- Load Balancers
- Target Groups
- Trust Stores [New](#)
- ▼ Auto Scaling
- Auto Scaling Groups

EC2 > Target groups

Target groups (1/1) Info

Actions ▼

Create target group

Q Filter target groups

< 1 > ⚙

<input checked="" type="checkbox"/>	Name ▼	ARN ▼	Port ▼	Protocol ▼	Target type ▼
<input checked="" type="checkbox"/>	my-target-group	arn:aws:elasticloadbalanci...	80	TCP	Instance

Target group: my-target-group

- Details
- Targets
- Monitoring
- Health checks
- Attributes
- Tags

Details

arn:aws:elasticloadbalancing:us-east-1:211125626137:targetgroup/my-target-group/05521bac4324c5e6

Target type	Protocol : Port	VPC	IP address type
Instance	TCP: 80	vpc-006550eb63421dbe9	IPv4

MINGW64:/c:/Users/Q/Documents/terraform/task

```
resource "aws_lb" "network" {
  name            = "my-nlb"
  internal        = false
  load_balancer_type = "network"

  subnets = [aws_subnet.my_subnet.id]

  tags = {
    Name = "MyNetworkLoadBalancer"
  }
}

resource "aws_lb_listener" "front_end" {
  load_balancer_arn = aws_lb.network.arn
  port              = 80
  protocol          = "TCP"

  default_action {
    type             = "forward"
    target_group_arn = aws_lb_target_group.front_end.arn
  }
}

resource "aws_lb_target_group" "front_end" {
  name     = "my-target-group"
  vpc_id   = aws_vpc.my_vpc.id
  port     = 80
  protocol = "TCP"

  health_check {
    port = "80"
  }
}

resource "aws_s3_bucket" "example" {
  bucket = "my-tf-test-bucket"

  tags = {
    Name       = "My bucket"
    Environment = "Dev"
  }
}
```

main.tf[+] [unix] (11:09 26/04/2024)

121,2 Bot

-- INSERT --

Windows taskbar showing search bar, task view, and various application icons (Edge, File Explorer, Calendar, Mail, Chrome, etc.). System tray on the right shows temperature (34°C), time (11:37), date (26-04-2024), and language (ENG).

Services

Search

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Upload succeeded

View details below.

Summary

Destination

s3://interncareerbucket

Succeeded

1 file, 25.2 KB (100.00%)

Failed

0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (1 Total, 25.2 KB)

Find by name

< 1 >

Name	Folder	Type	Size	Status	Error
flower.avif	-	image/avif	25.2 KB	Succeeded	-

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