

Instances | EC2 | us-east-1

terraform-case-Study.pdf

DevOps

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:v=3?case=tags:true%5Cclient:false%5Cregex=tags:false%5Cclient:false

EC2 > Instances

EC2

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Instances

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Instances (1) Info

Last updated 9 minutes ago

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	P
<input type="checkbox"/>	terra_instance	i-099aa189d35ac95b1	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	e

Select an instance

```
ubuntu@ip-172-31-93-41: ~$ ls -l
total 36
-rw-r--r-- 1 ubuntu ubuntu 3002 Apr 11 17:13 main.tf
-rw-r--r-- 1 ubuntu ubuntu 133 Apr 11 17:18 outputs.tf
-rw-r--r-- 1 ubuntu ubuntu 15659 Apr 11 17:25 terraform.tfstate
-rw-r--r-- 1 ubuntu ubuntu 154 Apr 11 17:17 terraform.tfvars
-rw-r--r-- 1 ubuntu ubuntu 118 Apr 11 17:19 userdata.sh
-rw-r--r-- 1 ubuntu ubuntu 90 Apr 11 17:14 variables.tf
ubuntu@ip-172-31-93-41: ~$
```

```
ubuntu@ip-172-31-93-41: ~$ terraform plan
aws_vpc.main: Refreshing state... [id=vpc-0eca48d332e564d68]
aws_internet_gateway.igw: Refreshing state... [id=igw-0b4fbed42d31b46a2]
aws_security_group.web_sg: Refreshing state... [id=sg-0b6acc264a08cd19f]
aws_subnet.subnet2: Refreshing state... [id=subnet-019c3362e34cd2884]
aws_subnet.subnet1: Refreshing state... [id=subnet-0ead2d48128de8210]
aws_route_table.rt: Refreshing state... [id=rtb-0410c727afb256243]
aws_network_interface.ni2: Refreshing state... [id=eni-0381c4797d72d521e]
aws_network_interface.ni1: Refreshing state... [id=eni-0cea97a8434701ac8]
aws_route_table_association.rta2: Refreshing state... [id=rtbassoc-0aa62a34ddec012cf]
aws_route_table_association.rta1: Refreshing state... [id=rtbassoc-01dac9060d45ac1cd]

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.web1 will be created
+ resource "aws_instance" "web1" {
  + ami                    = "ami-08a929b66ed6e0de6"
  + arn                   = (known after apply)
  + associate_public_ip_address = (known after apply)
  + availability_zone      = "us-east-1a"
  + 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)
  + enable_primary_ipv6    = (known after apply)
  + get_password_data      = false
  + host_id                = (known after apply)
  + host_resource_group_arn = (known after apply)
  + iam_instance_profile   = (known after apply)
  + 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               = "NV-keypair"

  + "Name" = "web-server-2"
}
+ tenancy = (known after apply)
+ user_data = "bf4d032e36da23bca02c82cce6264c55079ae2e5"
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)

+ capacity_reservation_specification (known after apply)

+ cpu_options (known after apply)

+ ebs_block_device (known after apply)

+ enclave_options (known after apply)

+ ephemeral_block_device (known after apply)

+ instance_market_options (known after apply)

+ maintenance_options (known after apply)

+ metadata_options (known after apply)

+ network_interface {
  + delete_on_termination = false
  + device_index          = 0
  + network_card_index    = 0
  + network_interface_id  = "eni-0381c4797d72d521e"
}

+ private_dns_name_options (known after apply)

+ root_block_device (known after apply)
}

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

Changes to Outputs:
+ web1_public_ip = (known after apply)
+ web2_public_ip = (known after apply)
```



Instances | EC2 | us-east-1 | vpcs | VPC | us-east-1 | Terraform-case-Study.pdf | Devops

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#vpcs:

VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Route servers

Security

Network ACLs

Your VPCs (2) Info

Last updated less than a minute ago

Actions

Create VPC

Search

<input type="checkbox"/>	Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	main-vpc	vpc-0eca48d332e564d68	Available	Off	10.0.0.0/16	-
<input type="checkbox"/>	-	vpc-030e56e6bfb1add61	Available	Off	172.31.0.0/16	-

Select a VPC above

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23:13 11-04-2025

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running

EC2

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Volumes

Snapshots

Instances (3) Info

Last updated 1 minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

Instance state = running

Clear filters

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	P
<input type="checkbox"/>	web-server-1	i-067e7d5793d2e5b80	Running	t2.micro	Initializing	View alarms +	us-east-1a	e
<input type="checkbox"/>	web-server-2	i-0f02226a2303e5cb2	Running	t2.micro	Initializing	View alarms +	us-east-1b	e
<input type="checkbox"/>	terra_instance	i-099aa189d35ac95b1	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	e

Select an instance

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23:13 11-04-2025

Instances | EC2 | us-east-1 | subnets | VPC Console | Terraform-case-Study.pdf | DevOps

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#subnets:

Search [Alt+S] United States (N. Virginia) Sowmya

### VPC dashboard

EC2 Global View

Filter by VPC

#### Virtual private cloud

- Your VPCs
- Subnets**
- Route tables
- Internet gateways
- Egress-only internet gateways
- Carrier gateways
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- Elastic IPs
- Managed prefix lists
- NAT gateways
- Peering connections
- Route servers [New](#)

#### Security

- Network ACLs

### Subnets (8) Info

Find resources by attribute or tag

Last updated less than a minute ago [Actions](#) [Create subnet](#)

<input type="checkbox"/>	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
<input type="checkbox"/>	-	<a href="#">subnet-05b9e436dab74ad5d</a>	Available	<a href="#">vpc-030e56e6bfb1add61</a>	Off	172.31.16/24
<input type="checkbox"/>	-	<a href="#">subnet-00599fb38030d8ce6</a>	Available	<a href="#">vpc-030e56e6bfb1add61</a>	Off	172.31.8/24
<input type="checkbox"/>	-	<a href="#">subnet-02d452b1561d58d1d</a>	Available	<a href="#">vpc-030e56e6bfb1add61</a>	Off	172.31.64/24
<input type="checkbox"/>	-	<a href="#">subnet-0cd7d03720d208dc1</a>	Available	<a href="#">vpc-030e56e6bfb1add61</a>	Off	172.31.48/24
<input type="checkbox"/>	subnet-1	<a href="#">subnet-0ead2d48120de8210</a>	Available	<a href="#">vpc-0eca48d332e564d68   main...</a>	Off	10.0.1.0/24
<input type="checkbox"/>	-	<a href="#">subnet-0fa240f086b9ade1d</a>	Available	<a href="#">vpc-030e56e6bfb1add61</a>	Off	172.31.32/24
<input type="checkbox"/>	-	<a href="#">subnet-0d6d1f34f9f5b75d9</a>	Available	<a href="#">vpc-030e56e6bfb1add61</a>	Off	172.31.0/24
<input type="checkbox"/>	subnet-2	<a href="#">subnet-010c3362e34cd2884</a>	Available	<a href="#">vpc-0eca48d332e564d68   main...</a>	Off	10.0.2.0/24

Select a subnet

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#vpcs:Vpd...

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Instances | EC2 | us-east-1 | igws | VPC Console | Terraform-case-Study.pdf | DevOps

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#igws:

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### VPC dashboard

EC2 Global View

Filter by VPC

#### Virtual private cloud

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- Managed prefix lists
- NAT gateways
- Peering connections
- Route servers [New](#)

#### Security

- Network ACLs

### Internet gateways (2) Info

Search

[Actions](#) [Create internet gateway](#)

<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	main-igw	<a href="#">igw-004fbcd42d31b46a3</a>	Attached	<a href="#">vpc-0eca48d332e564d68   main-vpc</a>	820242909059
<input type="checkbox"/>	-	<a href="#">igw-07e3fee9dc6c6b112</a>	Attached	<a href="#">vpc-030e56e6bfb1add61</a>	820242909059

Select an internet gateway above

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Instances | EC2 | us-east-1 | Route Tables | VPC Console | Terraform-case-Study.pdf | DevOps

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTables:

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### VPC dashboard

EC2 Global View

Filter by VPC

- Virtual private cloud
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  - Egress-only internet gateways
  - Carrier gateways
  - DHCP option sets
  - Elastic IPs
  - Managed prefix lists
  - NAT gateways
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  - Route servers [New](#)
- Security
  - Network ACLs

### Route tables (3) Info

Last updated 1 minute ago Actions Create route table

Find resources by attribute or tag

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
<input type="checkbox"/>	-	rtb-06a96ca288e70b0b3	6 subnets	-	Yes	vpc-030e56e6bfb1add61
<input type="checkbox"/>	main-route-table	rtb-0410c727afb256243	2 subnets	-	No	vpc-0eca48d332e564d68
<input type="checkbox"/>	-	rtb-0518bb266645c85c4	-	-	Yes	vpc-0eca48d332e564d68

Select a route table

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https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#acls:

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### Network ACLs (2) Info

Actions Create network ACL

Find resources by attribute or tag

<input type="checkbox"/>	Name	Network ACL ID	Associated with	Default	VPC ID	Li
<input type="checkbox"/>	-	acl-0f1345177a95c7012	6 Subnets	Yes	vpc-030e56e6bfb1add61	3
<input type="checkbox"/>	-	acl-0e43f7d8781c6c023	2 Subnets	Yes	vpc-0eca48d332e564d68 / main-vpc	2

Select a network ACL

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:instanceState=running

EC2 > Instances

Instances (3) info

Find Instance by attribute or tag (case-sensitive)

Instance state = running X Clear filters

All states

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	P
<input type="checkbox"/>	web-server-1	i-067e7d5793d2e5b80	Running	t2.micro	Initializing	View alarms +	us-east-1a	e
<input type="checkbox"/>	web-server-2	i-0f02226a2303e5cb2	Running	t2.micro	Initializing	View alarms +	us-east-1b	e
<input type="checkbox"/>	terra_instance	i-099aa189d35ac95b1	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	e

Select an instance

```
aws_instance.web2: Destroying... [id=i-0f02226a2303e5cb2]
aws_route_table_association.rta2: Destroying... [id=rtbassoc-0aa62a34dddec012cf]
aws_route_table_association.rta1: Destroying... [id=rtbassoc-01dac9060d45ac1cd]
aws_instance.web1: Destroying... [id=i-067e7d5793d2e5b80]
aws_route_table_association.rta1: Destruction complete after 0s
aws_route_table_association.rta2: Destruction complete after 0s
aws_route_table.rta: Destroying... [id=rtb-0410c727afb256243]
aws_route_table.rta: Destruction complete after 1s
aws_internet_gateway.igw: Destroying... [id=igw-004fbcd42d31b46a3]
aws_instance.web2: Still destroying... [id=i-0f02226a2303e5cb2, 10s elapsed]
aws_instance.web1: Still destroying... [id=i-067e7d5793d2e5b80, 10s elapsed]
aws_internet_gateway.igw: Still destroying... [id=igw-004fbcd42d31b46a3, 10s elapsed]
aws_instance.web2: Still destroying... [id=i-0f02226a2303e5cb2, 20s elapsed]
aws_instance.web1: Still destroying... [id=i-067e7d5793d2e5b80, 20s elapsed]
aws_internet_gateway.igw: Still destroying... [id=igw-004fbcd42d31b46a3, 20s elapsed]
aws_instance.web2: Still destroying... [id=i-0f02226a2303e5cb2, 30s elapsed]
aws_instance.web1: Still destroying... [id=i-067e7d5793d2e5b80, 30s elapsed]
aws_instance.web2: Destruction complete after 30s
aws_network_interface.ni2: Destroying... [id=eni-0381c4797d72d521e]
aws_network_interface.ni2: Destruction complete after 1s
aws_subnet.subnet2: Destroying... [id=subnet-010c3362e34cd2884]
aws_internet_gateway.igw: Still destroying... [id=igw-004fbcd42d31b46a3, 30s elapsed]
aws_subnet.subnet2: Destruction complete after 0s
aws_instance.web1: Still destroying... [id=i-067e7d5793d2e5b80, 40s elapsed]
aws_internet_gateway.igw: Still destroying... [id=igw-004fbcd42d31b46a3, 40s elapsed]
aws_instance.web1: Still destroying... [id=i-067e7d5793d2e5b80, 50s elapsed]
aws_internet_gateway.igw: Still destroying... [id=igw-004fbcd42d31b46a3, 50s elapsed]
aws_internet_gateway.igw: Destruction complete after 57s
aws_instance.web1: Still destroying... [id=i-067e7d5793d2e5b80, 1m0s elapsed]
aws_instance.web1: Destruction complete after 1m1s
aws_network_interface.ni1: Destroying... [id=eni-0cea97a8434701ac8]
aws_network_interface.ni1: Destruction complete after 0s
aws_security_group.web_sg: Destroying... [id=sg-0b6acc264a90cd19f]
aws_subnet.subnet1: Destroying... [id=subnet-0ead2d48120de8210]
aws_security_group.web_sg: Destruction complete after 1s
aws_subnet.subnet1: Destruction complete after 1s
aws_vpc.main: Destroying... [id=vpc-0eca48d332e564d68]
aws_vpc.main: Destruction complete after 0s

Destroy complete! Resources: 12 destroyed.
ubuntu@ip-172-31-93-41: ~$
```