

1. Nw-nishant-dual
2. vpc-0e96a0a0dd504f086
3. sg-01dd794aba843a51e

Details

- ✓ Create VPC: [vpc-0e96a0a0dd504f086](#)
- ✓ Enable DNS hostnames
- ✓ Enable DNS resolution
- ✓ Verifying VPC creation: [vpc-0e96a0a0dd504f086](#)
- ✓ Create subnet: [subnet-0c00302a8b81c475e](#)
- ✓ Create subnet: [subnet-0a898289417441310](#)
- ✓ Create Internet gateway: [igw-02d5bceca5f7f22b9](#)
- ✓ Attach Internet gateway to the VPC
- ✓ Create route table: [rtb-05f60991606a9f9ba](#)
- ✓ Create route
- ✓ Associate route table
- ✓ Allocate elastic IP: [elipalloc-0f8bdd0f2fc4fd6d2](#)
- ✓ Create NAT gateway: [nat-0597781e51fa466be](#)
- ⌚ Wait for NAT Gateways to activate
- ⌚ Create route table
- ⌚ Create route
- ⌚ Associate route table
- ⌚ Verifying route table creation

vpc-0e96a0a0dd504f086 / nw-nishant-dual-vpc

Details

| | | | |
|---|--|--|---|
| VPC ID vpc-0e96a0a0dd504f086 | State Available | DNS hostnames Enabled | DNS resolution Enabled |
| Tenancy Default | DHCP option set dopt-07661861 | Main route table rtb-0bfc65ecd918d16a | Main network ACL acl-008377e5782c92bbd |
| Default VPC No | IPv4 CIDR 10.0.0/16 | IPv6 pool - | IPv6 CIDR - |
| Network Address Usage metrics Disabled | Route 53 Resolver DNS Firewall rule groups Failed to load rule groups | Owner ID 551137590566 | |

Resource map

Subnets (1/2)

| Name | Subnet ID | State | VP |
|--|--------------------------|-----------|----|
| nw-nishant-dual-subnet-private1-eu-west-1a | subnet-0a898289417441310 | Available | vp |
| nw-nishant-dual-subnet-public1-eu-west-1a | subnet-0c00302a8b81c475e | Available | vp |

subnet-0c00302a8b81c475e / nw-nishant-dual-subnet-public1-eu-west-1a

Details

| | | | |
|---------------------------------------|--|----------------------|------------------------|
| Subnet ID subnet-0c00302a8b81c475e | Subnet ARN arn:aws:ec2:eu-west-1:351137590566:subnet/subnet-0c00302a8b81c475e | State Available | IPv4 CIDR 10.0.0/20 |
| Available IPv4 addresses | Availability Zone | Availability Zone ID | |

Edit subnet settings

Subnet

Subnet ID

subnet-0c00302a8b81c475e

Name

nw-nishant-dual-subnet-public1-eu-west-1a

Auto-assign IP settings

Enable the auto-assign IP settings to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

☒ Enable auto-assign public IPv4 address

☐ Enable auto-assign customer-owned IPv4 address

Resource-based name (RBN) settings

Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.

☐ Enable resource name DNS A record on launch

☐ Enable resource name DNS AAAA record on launch

sg-01dd794aba843a51e

NAT gateways

Peering connections

Security

Network ACLs

Security groups

DNS firewall

Rule groups

Domain lists

Network Firewall

Firewalls

Firewall policies

Network Firewall rule groups

TLS inspection configurations

Network Firewall resource groups

Security Groups (1/1)

Filter security groups

VPC ID: vpc-0e96a0a0dd504f086

| Name | Security group ID | Security group name | VPC ID | Description |
|---------|----------------------|---------------------|-----------------------|----------------------------|
| default | sg-01dd794aba843a51e | default | vpc-0e96a0a0dd504f086 | default VPC security gr... |

sg-01dd794aba843a51e

default

sg-01dd794aba843a51e

default VPC security group

351137590566

1 Permission entry

1 Permission entry

Inbound rules

Type

Protocol

Port range

Source

Description - optional

All traffic

All

All

Cus...

Delete

SSH

TCP

22

My IP

43.37.72.177/32

Delete

Add rule

Outbound rules

VPC dashboard

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

Security group (sg-05a9ebc70437e24df) nw-nishant-custom-sg was created successfully

VPC > Security Groups > sg-05a9ebc70437e24df - nw-nishant-custom-sg

sg-05a9ebc70437e24df - nw-nishant-custom-sg

Details

Security group name

nw-nishant-custom-sg

Security group ID

sg-05a9ebc70437e24df

Description

Allow ssh to

VPC ID

vpc-0e96a0a0dd504f086

Owner

351137590566

Inbound rules count

2 Permission entries

Outbound rules count

0 Permission entries

Inbound rules

Outbound rules

Tags

Then open EC2 in other tab

The image shows two screenshots of the AWS Management Console. The top screenshot displays the 'Launch instance' configuration page. Under 'Network settings', the VPC is set to 'vpc-0e96a0d0dd504f086' and the Subnet to 'subnet-0c00302a8b81c475e'. The 'Auto-assign public IP' option is enabled. The 'Firewall (security groups)' section shows '2 security groups' selected. The 'Summary' panel on the right indicates 'Number of instances: 1', 'Software Image (AMI): Canonical, Ubuntu, 22.04 LTS', 'Virtual server type (instance type): t2.micro', and 'Storage (volumes): 1 volume(s) - 8 GiB'. The 'Launch instance' button is visible at the bottom right.

The bottom screenshot shows the 'Launch log' and 'Next Steps' section after successful launch. A green banner states 'Success: Successfully initiated launch of instance (i-0d5f976a0658b0ca)'. Below, a search bar asks 'What would you like to do next with this instance, for example "create alarm" or "create backup"'. Four next steps are listed: 'Create billing and free tier usage alerts', 'Connect to your instance', 'Connect an RDS database', and 'Create EBS snapshot policy'. Each step has a corresponding button and a 'Learn more' link.

The bottom part of the image shows the 'Instances (1/2)' page. A table lists two instances:

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Z |
|------------------|---------------------|----------------|---------------|-------------------|--------------|----------------|
| nw-nishant-d... | i-0c49eb3d912d8ab6f | Running | t2.micro | Initializing | No alarms | eu-west-1a |
| nw-nishant-wo... | i-0d5f976a0658b0ca | Running | t2.micro | 2/2 checks passed | No alarms | eu-west-1a |

Below the table, the details for instance 'i-0c49eb3d912d8ab6f (nw-nishant-dataspac)' are shown:

- Instance ID: i-0c49eb3d912d8ab6f (nw-nishant-dataspac)
- Public IPv4 address: 10.0.132.136
- Private IPv4 addresses: 10.0.132.136
- Instance state: Running
- Private IP DNS name (IPv4 only): ip-10-0-132-136.eu-west-1.compute.internal

Open Putty

```
ubuntu@ip-10-0-14-58:~$ ls
ubuntu@ip-10-0-14-58:~$ wget https://a-nw-nishant.s3.eu-west-1.amazonaws.com/nw-nishant.pem
--2023-10-11 10:48:25-- https://a-nw-nishant.s3.eu-west-1.amazonaws.com/nw-nishant.pem
Resolving a-nw-nishant.s3.eu-west-1.amazonaws.com (a-nw-nishant.s3.eu-west-1.amazonaws.com)... 3.5.69.139, 52.92.19.130, 52.218.92.248, ...
Connecting to a-nw-nishant.s3.eu-west-1.amazonaws.com (a-nw-nishant.s3.eu-west-1.amazonaws.com)|3.5.69.139|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1674 (1.6K) [binary/octet-stream]
Saving to: 'nw-nishant.pem'

nw-nishant.pem          100%[=====] 1.63K

2023-10-11 10:48:25 (20.9 MB/s) - 'nw-nishant.pem' saved [1674/1674]

ubuntu@ip-10-0-14-58:~$ ls
nw-nishant.pem
ubuntu@ip-10-0-14-58:~$ cat nw-nishant.pem
```

```

ubuntu@ip-10-0-132-136: ~
-----END RSA PRIVATE KEY-----ubuntu@ip-10-0-14-58:~$
ubuntu@ip-10-0-14-58:~$ chmod 400 nw-nishant.pem
ubuntu@ip-10-0-14-58:~$ ssh -i nw-nishant.pem ubuntu@10.0.132.136
The authenticity of host '10.0.132.136 (10.0.132.136)' can't be established.
ED25519 key fingerprint is SHA256:Uo+lmXbFaiwQ/eeHj3R/O/6UVB6n6nyB5BikjXjiXiA.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.132.136' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-1025-aws x86_64)

```

Status of internet in data instance

```

Building dependency tree... Done
Reading state information... Done
129 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-10-0-14-58:~$ ping -c 5 google.com
PING google.com (172.253.116.113) 56(84) bytes of data.
64 bytes from dj-in-f113.1e100.net (172.253.116.113): icmp_seq=1 ttl=56 time=5.08 ms
64 bytes from dj-in-f113.1e100.net (172.253.116.113): icmp_seq=2 ttl=56 time=1.22 ms
64 bytes from dj-in-f113.1e100.net (172.253.116.113): icmp_seq=3 ttl=56 time=1.19 ms
64 bytes from dj-in-f113.1e100.net (172.253.116.113): icmp_seq=4 ttl=56 time=1.19 ms
64 bytes from dj-in-f113.1e100.net (172.253.116.113): icmp_seq=5 ttl=56 time=1.21 ms

--- google.com ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 1.188/1.979/5.084/1.552 ms
ubuntu@ip-10-0-14-58:~$

sudo: nomenclature: command not found
ubuntu@ip-10-0-132-136:~$ sudo hostname dataspace
ubuntu@ip-10-0-132-136:~$ ping -c 5 google.com
PING google.com (74.125.193.113) 56(84) bytes of data.

--- google.com ping statistics ---
5 packets transmitted, 0 received, 100% packet loss, time 4077ms

ubuntu@ip-10-0-132-136:~$

```

The screenshot shows the AWS Management Console interface for Elastic IP addresses. On the left, the navigation menu includes options like 'Virtual private cloud', 'Subnets', 'Route tables', 'Internet gateways', 'Egress-only Internet gateways', 'DHCP option sets', 'Elastic IPs', 'Managed prefix lists', 'Endpoints', 'Endpoint services', 'NAT gateways', and 'Peering connections'. The main content area is titled 'Elastic IP addresses (1/4)' and contains a table with the following data:

| Name | Allocated IPv4 address | Type | Allocation ID | Reverse DNS |
|---|------------------------|-----------|------------------------------|-------------|
| <input checked="" type="checkbox"/> nw-nishant-dual-elip-eu-west-1a | 34.241.194.28 | Public IP | elipalloc-0f8bdc0f2fc4fd6d2 | - |
| <input type="checkbox"/> nw-salomi-dual-elip-eu-west-1a | 52.213.95.119 | Public IP | elipalloc-0b438c3558ec16801 | - |
| <input type="checkbox"/> nw-astha-dual-elip-eu-west-1a | 52.214.216.234 | Public IP | elipalloc-093fcee986b5a0b0f9 | - |
| <input type="checkbox"/> nw-nimanshi-dual-elip-eu-west-1a | 54.170.214.140 | Public IP | elipalloc-0758abdc290c3f766f | - |

Below the table, there is a section for the selected IP (34.241.194.28) with a 'Summary' tab and a 'Tags' tab. A link is provided to 'View IP address usage and recommendations to release unused IPs with Public IP insights'.

Release elastic Ip address from Actions.