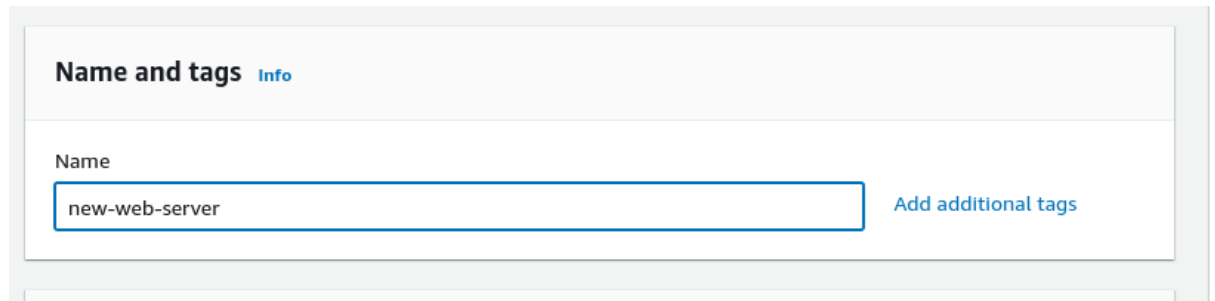


# EC2 Configuration

EC2 instance is a virtual machine of a cloud. The steps of creating EC2 instance are:

- Login to AWS console and search EC2.
- Choose Launch EC2 instance.
- Choose name for EC2 instance : new-web-server

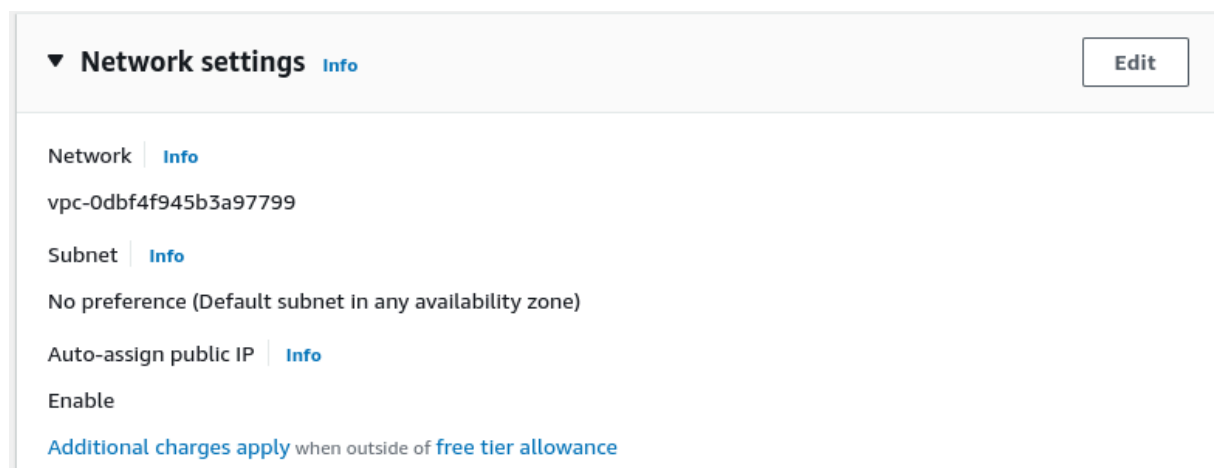


**Name and tags** [Info](#)

Name

new-web-server [Add additional tags](#)

- Choose the operating system as required. Let's choose ubuntu.
- Choose instance type as required.
- Select the keypair or create a key pair as required.
- Leave the network settings as default



▼ **Network settings** [Info](#) [Edit](#)

Network [Info](#)

vpc-0dbf4f945b3a97799

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

Enable

[Additional charges apply](#) when outside of [free tier allowance](#)

- Create a new security group and open port SSH,HTTP and HTTPS

## Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group

☐ Select existing security group

We'll create a new security group called **'launch-wizard-4'** with the following rules:

☒ Allow SSH traffic from

Helps you connect to your instance

Anywhere

0.0.0.0/0

☒ Allow HTTPS traffic from the internet

To set up an endpoint, for example when creating a web server

☒ Allow HTTP traffic from the internet

To set up an endpoint, for example when creating a web server

- Add others settings as required and Launch instance.
- Wait for sometime for EC2 instances to 2/2 checks passed. It indicate Ec2 instance is properly installed.

EC2 > Instances > i-0e60b83ef73288561

**Instance summary for i-0e60b83ef73288561 (new-web-server)** [Info](#)

Updated less than a minute ago

[Refresh](#) [Connect](#) [Instance state](#) [Actions](#)

Instance ID i-0e60b83ef73288561 (new-web-server)	Public IPv4 address 52.91.201.249 <a href="#">Open address</a>	Private IPv4 addresses 172.31.87.56
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-52-91-201-249.compute-1.amazonaws.com <a href="#">Open address</a>
Hostname type IP name: ip-172-31-87-56.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-87-56.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding <a href="#">Opt-in to AWS Compute Optimizer for recommendations.</a> <a href="#">Learn more</a>
Auto-assigned IP address 52.91.201.249 [Public IP]	VPC ID vpc-0dbf4f945b3a97799	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-0d421e2deb9ea3a66	
IMDSv2 Required		

- Our task is to connect to RDS. So, open mysql/aurora port:3306

Inbound rules (4)

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

<input type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input type="checkbox"/>	-	sgr-0907632f8605c5b71	IPv4	HTTPS	TCP	443	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-06c98bf798e257aca	IPv4	MySQL/Aurora	TCP	3306	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-0b406464345738...	IPv4	HTTP	TCP	80	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-08831d34988d38...	IPv4	SSH	TCP	22	0.0.0.0/0	-