

Launch a t2.micro instance in Mumbai region where ssh can be done only from your IP address with docker and docker-compose installed in it.

Solution:

Launch ec2 instance

▼ Network settings Info

Edit

Network Info

vpc-01cecc95b0222b2cf

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

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-11' with the following rules:

☒ Allow SSH traffic from

Helps you connect to your instance

My IP

106.221.184.96/32

☐ 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

Instance summary for i-0356999986433c165 (task) Info

Refresh

Connect

Instance state ▼

Actions ▼

Updated less than a minute ago

Instance ID

i-0356999986433c165 (task)

IPv6 address

–

Hostname type

IP name: ip-172-31-36-170.ap-south-1.compute.internal

Answer private resource DNS name

IPv4 (A)

Auto-assigned IP address

43.205.255.223 [Public IP]

IAM Role

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IMDSv2

Optional

Public IPv4 address

43.205.255.223 [open address](#)

Instance state

Pending

Private IP DNS name (IPv4 only)

ip-172-31-36-170.ap-south-1.compute.internal

Instance type

t2.micro

VPC ID

vpc-01cecc95b0222b2cf

Subnet ID

subnet-08b4024a7724a2e9e

Private IPv4 addresses

172.31.36.170

Public IPv4 DNS

ec2-43-205-255-223.ap-south-1.compute.amazonaws.com [open address](#)

Elastic IP addresses

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AWS Compute Optimizer finding

[Opt-in to AWS Compute Optimizer for recommendations.](#)  
[Learn more](#)

Auto Scaling Group name

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## 2 – installing docker and docker compose

```
ubuntu@ip-172-31-36-170:~$ docker version
Client:
Version:      24.0.5
API version:  1.43
Go version:   go1.20.3
Git commit:   24.0.5-0ubuntu1~20.04.1
Built:        Mon Aug 21 19:50:14 2023
OS/Arch:      linux/amd64
Context:      default
permission denied while trying to connect to the Docker daemon socket at unix:///var/
er.sock/v1.24/version": dial unix /var/run/docker.sock: connect: permission denied
ubuntu@ip-172-31-36-170:~$ docker-compose version
docker-compose version 1.25.0, build unknown
docker-py version: 4.1.0
CPython version: 3.8.10
OpenSSL version: OpenSSL 1.1.1f  31 Mar 2020
```

### Security group:

Edit inbound rules [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>
sgr-0e391ccbe740f73e2	SSH	TCP	22	Custom	<input type="text" value="Q"/> <input type="text" value="106.221.184.96/32"/>

completed