

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.

Launch a t2.micro instance in Mumbai region where ssh can be done only from your IP address

In this below picture i have marked with red are indicates that one of region:-mumbai and ssh connected to my ip:175.101.101.62/32

The screenshot shows the AWS Management Console interface for editing inbound rules on a security group. The browser address bar indicates the URL is `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-08247c585471e6291`. The console header shows the region as 'Mumbai' and the user as 'sumanth @ 2805-9305-6811'. The main content area is titled 'Edit inbound rules' and shows a table of inbound rules for the security group 'sg-08247c585471e6291'. The table has columns for 'Security group rule ID', 'Type', 'Protocol', 'Port range', 'Source', and 'Description - optional'. Two rules are listed: 'sg-047522d079ef36dcd' and 'sg-0d3078453d0c7ee99'. The second rule is highlighted with a red box, showing it is an SSH rule (Type: SSH, Protocol: TCP, Port range: 22) with a source of 'My IP' (175.101.101.62/32). A yellow warning banner at the bottom states: 'Rules with source of 0.0.0.0/0 or :::0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.'

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sg-047522d079ef36dcd	SSH	TCP	22	Custom	
sg-0d3078453d0c7ee99	SSH	TCP	22	My IP	

docker and docker-compose installed in it.

The screenshot displays the AWS CloudShell interface with a terminal window. The terminal output shows the execution of `sudo apt update`, which updates the package lists from various Ubuntu mirrors. This is followed by the execution of `sudo apt install docker.io`, which begins the installation of Docker. The terminal output for the installation command is partially visible, showing the start of the package list reading and dependency tree building process.

```
ubuntu@ip-172-31-40-164:~$ sudo apt update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1263 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [260 kB]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [16.1 kB]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1250 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [203 kB]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [520 B]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1020 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [226 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [41.6 kB]
Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [9768 B]
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.5 kB]
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [24.3 kB]
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:29 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:30 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1051 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [200 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [11.4 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1226 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [200 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 c-n-f Metadata [520 B]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [823 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [156 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [36.5 kB]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7060 B]
Get:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 28.8 MB in 5s (5430 KB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
86 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-40-164:~$ sudo apt install docker.io
```

The interface also shows the AWS console header with the instance ID `i-09caf6bad54834d98` and the user `sumanth`. A status box at the bottom indicates the instance is in the `running` state.

Check all the latest IPO details | Launch an instance | EC2 | ap-south-1 | ModifyInboundSecurityGroup | EC2 Instance Connect | ap-south-1 | +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-09caf6bad54834d98&osUser=ubuntu&sshPort=22#

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aws Services Search [Alt+S] Mumbai sumanth @ 2805-9305-6811

```
ubuntu@ip-172-31-40-164:~$ sudo apt install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan
Suggested packages:
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debotstrap docker-doc rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc ubuntu-fan
0 upgraded, 8 newly installed, 0 to remove and 86 not upgraded.
Need to get 69.7 MB of archives.
After this operation, 267 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 pigz amd64 2.6-1 [63.6 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 bridge-utils amd64 1.7-1ubuntu3 [34.4 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 runc amd64 1.1.7-0ubuntu1-22.04.1 [4249 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 containerd amd64 1.7.2-0ubuntu1-22.04.1 [36.0 MB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 dns-root-data all 2021011101 [5256 B]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dnsmasq-base amd64 2.86-1.1ubuntu0.3 [354 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 docker.io amd64 24.0.5-0ubuntu1-22.04.1 [28.9 MB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]
Fetched 69.7 MB in 1s (56.0 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
```

i-09caf6bad54834d98 (my ip)
PublicIPs: 43.205.128.252 PrivateIPs: 172.31.40.164

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Check all the latest IPO details | Launch an instance | EC2 | ap-south-1 | ModifyInboundSecurityGroup | EC2 Instance Connect | ap-south-1 | +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-09caf6bad54834d98&osUser=ubuntu&sshPort=22#

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aws Services Search [Alt+S] Mumbai sumanth @ 2805-9305-6811

```
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 64726 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.6-1_amd64.deb ...
Unpacking pigz (2.6-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.7-1ubuntu3_amd64.deb ...
Unpacking bridge-utils (1.7-1ubuntu3) ...
Selecting previously unselected package runc.
Preparing to unpack .../2-runc_1.1.7-0ubuntu1-22.04.1_amd64.deb ...
Unpacking runc (1.1.7-0ubuntu1-22.04.1) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.7.2-0ubuntu1-22.04.1_amd64.deb ...
Unpacking containerd (1.7.2-0ubuntu1-22.04.1) ...
Selecting previously unselected package dns-root-data.
Preparing to unpack .../4-dns-root-data_2021011101_all.deb ...
Unpacking dns-root-data (2021011101) ...
Selecting previously unselected package dnsmasq-base.
Preparing to unpack .../5-dnsmasq-base_2.86-1.1ubuntu0.3_amd64.deb ...
Unpacking dnsmasq-base (2.86-1.1ubuntu0.3) ...
Selecting previously unselected package docker.io.
Preparing to unpack .../6-docker.io_24.0.5-0ubuntu1-22.04.1_amd64.deb ...
Unpacking docker.io (24.0.5-0ubuntu1-22.04.1) ...
Selecting previously unselected package ubuntu-fan.
Preparing to unpack .../7-ubuntu-fan_0.12.16_all.deb ...
```

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ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-09caf6bad54834d98&osUser=ubuntu&sshPort=22#/?

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aws Services Search [Alt+S] Mumbai sumanth @ 2805-9305-6811

```
Setting up pigz (2.6-1) ...
Setting up containerd (1.7.2-0ubuntu1~22.04.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up ubuntu-fan (0.12.16) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service → /lib/systemd/system/ubuntu-fan.service.
Setting up docker.io (24.0.5-0ubuntu1~22.04.1) ...
Adding group 'docker' (GID 122) ...
Done.
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Processing triggers for dbus (1.12.20-2ubuntu4.1) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-40-164:~$ sudo apt install docker-compose
```

i-09caf6bad54834d98 (my ip)
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ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-09caf6bad54834d98&osUser=ubuntu&sshPort=22#/?

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```
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 python3-texttable all 1.6.4-1 [11.4 kB]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 docker-compose all 1.29.2-1 [95.8 kB]
Fetched 290 kB in 0s (673 kB/s)
Selecting previously unselected package python3-websocket.
(Reading database ... 65090 files and directories currently installed.)
Preparing to unpack .../0-python3-websocket_1.2.3-1_all.deb ...
Unpacking python3-websocket (1.2.3-1) ...
Selecting previously unselected package python3-docker.
Preparing to unpack .../1-python3-docker_5.0.3-1_all.deb ...
Unpacking python3-docker (5.0.3-1) ...
Selecting previously unselected package python3-dockerpty.
Preparing to unpack .../2-python3-dockerpty_0.4.1-2_all.deb ...
Unpacking python3-dockerpty (0.4.1-2) ...
Selecting previously unselected package python3-dockerpty.
Preparing to unpack .../3-python3-dockerpty_0.4.1-2_all.deb ...
Unpacking python3-dockerpty (0.4.1-2) ...
Selecting previously unselected package python3-dotenv.
Preparing to unpack .../4-python3-dotenv_0.19.2-1_all.deb ...
Unpacking python3-dotenv (0.19.2-1) ...
Selecting previously unselected package python3-texttable.
Preparing to unpack .../5-python3-texttable_1.6.4-1_all.deb ...
Unpacking python3-texttable (1.6.4-1) ...
Selecting previously unselected package docker-compose.
Preparing to unpack .../6-docker-compose_1.29.2-1_all.deb ...
Unpacking docker-compose (1.29.2-1) ...
```

i-09caf6bad54834d98 (my ip)
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Check all the latest IPO details | Launch an instance | EC2 | ap-south-1 | ModifyInboundSecurityGroup | EC2 Instance Connect | ap-south-1

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-09caf6bad54834d98&osUser=ubuntu&sshPort=22#

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Relaunch to update

aws Services Search [Alt+S]

Mumbai sumanth @ 2805-9305-6811

```
Unpacking python3-texttable (1.6.4-1) ...
Selecting previously unselected package docker-compose.
Preparing to unpack .../6-docker-compose_1.29.2-1_all.deb ...
Unpacking docker-compose (1.29.2-1) ...
Setting up python3-dotenv (0.19.2-1) ...
Setting up python3-texttable (1.6.4-1) ...
Setting up python3-docopt (0.6.2-4) ...
Setting up python3-websocket (1.2.3-1) ...
Setting up python3-dockerpty (0.4.1-2) ...
Setting up python3-docker (5.0.3-1) ...
Setting up docker-compose (1.29.2-1) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-40-164:~$
```

i-09caf6bad54834d98 (my ip)
PublicIPs: 43.205.128.252 PrivateIPs: 172.31.40.164

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