

Docker-Assignment-1

Module-3: Docker – I Assignment - 1

You have been asked to:

- Pull ubuntu container
 - Run this container, and map port 80 on the local
 - Install apache2 on this container
 - Check if you are able to access the apache page on your browser
-

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EC2 RDS IAM

EC2 Instances Launch an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name Docker-Assignment-1 Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Li SUS

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type Free tier eligible

Summary

Number of instances Info
1

Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-04a81a99f5ec58529

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance Review commands

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EC2 RDS IAM

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type Free tier eligible

ami-04a81a99f5ec58529 (64-bit (x86)) / ami-0c14ff330901e49ff (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Ubuntu Server 24.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Architecture 64-bit (x86) AMI ID ami-04a81a99f5ec58529 Verified provider

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand RHEL base pricing: 0.026 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour

All generations Compare instance types

Additional costs apply for AMIs with pre-installed software

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required Swapnil Create new key pair

Summary

Number of instances 1

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EC2 RDS IAM

Network settings

Network | Info
vpc-020050eeb89f650ee | Default VPC

Subnet | Info
subnet-0cd8f86e5a754829f

Auto-assign public IP | Info
Enable

Additional charges apply when outside of free tier allowance

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

Common security groups Info
Select security groups ▾

launch-wizard-21 sg-026b43bca97ea9339 X
VPC: vpc-020050eeb89f650ee

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Configure storage

Advanced

1x 8 GiB gp3 Root volume (Encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage X

Summary

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launch-wizard-21

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Cancel Launch instance Review commands

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EC2 RDS IAM

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

Common security groups [Info](#)

Select security groups

launch-wizard-21 sg-026b43bca97ea9339 X
VPC: vpc-020050eeb89f650ee

Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Configure storage [Info](#) Advanced

1x 8 GiB gp3 Root volume (Encrypted)

i Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage X

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

i Click refresh to view backup information C The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems [Edit](#)

Advanced details [Info](#)

▼ Summary

Number of instances [Info](#)
1

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Canonical, Ubuntu, 24.04 LTS, ...read more
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launch-wizard-21

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Cancel Launch instance Review commands

This screenshot shows the AWS EC2 Launch Wizard interface. On the left, under 'Configure storage', it specifies 1x 8 GiB gp3 Root volume (Encrypted). A tooltip indicates that free-tier eligible customers can get up to 30 GB of EBS storage. Below this, a note states that the selected AMI contains more instance store volumes than allowed, so only the first 0 are accessible. Another note encourages refreshing to view backup information. Under 'File systems', there are 0 listed. At the bottom, 'Advanced details' is expanded. On the right, the 'Summary' section shows 1 instance, the Canonical, Ubuntu 24.04 LTS AMI, t2.micro instance type, launch-wizard-21 security group, and 1 volume (8 GiB). Two informational boxes explain free-tier benefits: one for EBS storage and another for instance usage. At the bottom right are 'Cancel', 'Launch instance' (in a large orange button), and 'Review commands'.

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EC2 RDS IAM

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

Instances (1/1) Info Find Instance by attribute or tag (case-sensitive) All states

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS Public IPv4 ... Elastic IP

Docker-Assig... i-064e032cd8d28e094 Running t2.micro Initializing View alarms us-east-1a ec2-34-204-11-173.co... 34.204.11.173 -

i-064e032cd8d28e094 (Docker-Assignment-1)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary

Instance ID: i-064e032cd8d28e094 (Docker-Assignment-1)

IPv6 address: -

Hostname type: IP name: ip-172-30-0-75.ec2.internal

Auto-assigned IP address: 34.204.11.173 [Public IP]

IAM Role: -

IMDSv2: Required

Public IPv4 address: 34.204.11.173 | open address

Instance state: Running

Private IP DNS name (IPv4 only): ip-172-30-0-75.ec2.internal

Instance type: t2.micro

VPC ID: vpcl-020050eeb89f650ee (Default VPC)

Subnet ID: subnet-0cd8f86e5a754829f

Instance ARN: arn:aws:ec2:us-east-1:866650389532:instance/i-064e032cd8d28e094

Private IPv4 addresses: 172.30.0.75

Public IPv4 DNS: ec2-34-204-11-173.compute-1.amazonaws.com | open address

Elastic IP addresses: -

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name: -

Connect to instance Info

Connect to your instance i-064e032cd8d28e094 (Docker-Assignment-1) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID

Connection Type

Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address

Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.
 X

ⓘ Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel

Connect

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EC2 RDS IAM

```
ubuntu@ip-172-30-0-75:~$ sudo apt update -y
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [223 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [259 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [68.6 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [4076 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [230 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [95.9 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [45.0 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [7208 B]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [176 kB]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [34.4 kB]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [416 B]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [14.1 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [3608 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [212 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [532 B]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 B]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [8696 B]
Get:31 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [10.0 kB]
Get:32 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [17.6 kB]
Get:33 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [988 B]
Get:34 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:35 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:36 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:37 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

aws | Services | Search [Alt+S] | N. Virginia | Intellipaat-Swapnil

EC2 RDS IAM

```
ubuntu@ip-172-30-0-75:~$ sudo apt install docker.io -y
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 debootstrap docker-buildx docker-compose-v2 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 21 not upgraded.
Need to get 76.8 MB of archives.
After this operation, 289 MB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 bridge-utils amd64 1.7.1-1ubuntu2 [33.9 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 runc amd64 1.1.12-0ubuntu3 [8599 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 containerd amd64 1.7.12-0ubuntu4 [38.6 MB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 dns-root-data all 2023112702~willsync1 [4450 B]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 dnsmasq-base amd64 2.90-2build2 [375 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 docker.io amd64 24.0.7-0ubuntu4 [29.1 MB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]
Fetched 76.8 MB in 1s (69.5 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 67739 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.8-1_amd64.deb ...
Unpacking pigz (2.8-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.7.1-1ubuntu2_amd64.deb ...
Unpacking bridge-utils (1.7.1-1ubuntu2) ...
Selecting previously unselected package runc.
Preparing to unpack .../2-runc_1.1.12-0ubuntu3_amd64.deb ...
Unpacking runc (1.1.12-0ubuntu3) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.7.12-0ubuntu4_amd64.deb ...
Unpacking containerd (1.7.12-0ubuntu4) ...
Selecting previously unselected package dns-root-data.
Preparing to unpack .../4-dns-root-data_2023112702~willsync1_all.deb ...
Unpacking dns-root-data (2023112702~willsync1) ...
Selecting previously unselected package dnsmasq-base.
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

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EC2 RDS IAM

```
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for dbus (1.14.10-4ubuntu4) ...
Processing triggers for man-db (2.12.0-4build2) ...
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-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
9c704ecd0c69: Pull complete
Digest: sha256:2e863c44b718727c860746568e1d54af13b2fa71b160f5cd9058fc436217b30
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ sudo docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
ubuntu          latest   35a88802559d   5 weeks ago   78.1MB
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

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EC2 RDS IAM

```
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
ubuntu latest 35a88802559d 5 weeks ago 78.1MB  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker run  
"docker run" requires at least 1 argument.  
See 'docker run --help'.  
  
Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]  
  
Create and run a new container from an image  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker run -itd -p 80:80 ubuntu  
d78962d10c6e66071f4e3aa76df4e9439ec350010f85c37b3ba8470cc15b876e  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker ps  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
d78962d10c6e ubuntu "/bin/bash" 19 seconds ago Up 17 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp compassionate_satoshi  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

No user sessions are running outdated binaries.

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
9c704ecd0c69: Pull complete
Digest: sha256:2e863c44b718727c860746568e1d54af13b2fa71b160f5cd9058fc436217b30
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ sudo docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
ubuntu          latest   35a88802559d   4 weeks ago   78.1MB
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ sudo docker run
"docker run" requires at least 1 argument.
See 'docker run --help'.
Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]
```

Create and run a new container from an image

```
ubuntu@ip-172-30-0-29:~$ sudo docker run -itd -p 80:80 ubuntu
644863f291d9b850b3cddf4ab1ba54513be87473ac946a69e409703233cd1b34
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ sudo docker ps
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
644863f291d9      ubuntu      "/bin/bash"   23 seconds ago   Up 21 seconds   0.0.0.0:80->80/tcp, :::80->80/tcp   adoring_fermat
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ 
ubuntu@ip-172-30-0-29:~$ sudo docker exec -it 644863f291d9 bash
root@644863f291d9:/#
root@644863f291d9:/#
root@644863f291d9:/# 
```

i-04de36ed8e7c69658 (Docker-Assignment-1)

PublicIPs: 18.212.231.146 PrivateIPs: 172.30.0.29

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EC2 RDS IAM

```
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker ps  
CONTAINER ID        IMAGE       COMMAND      CREATED             STATUS              PORTS          NAMES  
d78962d10c6e        ubuntu      "/bin/bash"   19 seconds ago   Up 17 seconds   0.0.0.0:80->80/tcp, :::80->80/tcp   compassionate_satoshi  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker exec -it d78962d10c6e bash  
root@d78962d10c6e:#  
root@d78962d10c6e:#  
root@d78962d10c6e:#  
root@d78962d10c6e:#  
root@d78962d10c6e:# apt update  
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]  
Get:2 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]  
Get:3 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [12.7 kB]  
Get:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]  
Get:5 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [220 kB]  
Get:6 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]  
Get:7 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [260 kB]  
Get:8 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [278 kB]  
Get:9 http://archive.ubuntu.com/ubuntu noble/main amd64 Packages [1808 kB]  
Get:10 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [19.3 MB]  
Get:11 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [331 kB]  
Get:12 http://archive.ubuntu.com/ubuntu noble/restricted amd64 Packages [117 kB]  
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [324 kB]  
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [16.9 kB]  
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [296 kB]  
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [220 kB]  
Get:17 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [9711 B]  
Fetched 23.8 MB in 3s (7465 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
2 packages can be upgraded. Run 'apt list --upgradable' to see them.  
root@d78962d10c6e:#  
root@d78962d10c6e:#  
root@d78962d10c6e:#  
root@d78962d10c6e:#  
root@d78962d10c6e:#
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

aws Services Search [Alt+S]

EC2 RDS IAM

```
root@d78962d10c6e:#  
root@d78962d10c6e:# apt install apache2 -y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
adduser apache2-bin apache2-data apache2-utils ca-certificates krb5-locales libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 libbrotli libcurl4t64 libexpat1 libgdbm-compat4t64  
libgdbm6t64 libgssapi-krb5-2 libicu74 libjansson4 libk5crypto3 libkeyutils1 libkrb5-3 libkrb5support0 libldap-common libldap2 liblua5.4-0 libnghhttp2-14 libperl5.38t64 libpsl5t64 librtmp1 libsasl2-2  
libsas12-modules libsasl2-modules-db libsqlite3-0 libssh-4 libxml2 media-types netbase openssl perl perl-modules-5.38 publicsuffix ssl-cert  
Suggested packages:  
liblocale-gettext-perl cron quota ecryptfs-utils apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser ufw gdm-110n krb5-doc krb5-user libsasl2-modules-gssapi-mit  
| libsasl2-modules-gssapi-heimdal libsasl2-modules-ldap libsasl2-modules-otp libsasl2-modules-sql perl-doc libterm-readline-gnu-perl | libterm-readline-perl-perl make libtap-harness-archive-perl  
The following NEW packages will be installed:  
adduser apache2 apache2-bin apache2-data apache2-utils ca-certificates krb5-locales libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64 libbrotli libcurl4t64 libexpat1 libgdbm-compat4t64  
libgdbm6t64 libgssapi-krb5-2 libicu74 libjansson4 libk5crypto3 libkeyutils1 libkrb5-3 libkrb5support0 libldap-common libldap2 liblua5.4-0 libnghhttp2-14 libperl5.38t64 libpsl5t64 librtmp1 libsasl2-2  
libsasl2-modules libsasl2-modules-db libsqlite3-0 libssh-4 libxml2 media-types netbase openssl perl perl-modules-5.38 publicsuffix ssl-cert  
0 upgraded, 43 newly installed, 0 to remove and 2 not upgraded.  
Need to get 26.3 MB of archives.  
After this operation, 109 MB of additional disk space will be used.  
Get:1 http://archive.ubuntu.com/ubuntu noble amd64 perl-modules-5.38 all 5.38.2-3.2build2 [3110 kB]  
Get:2 http://archive.ubuntu.com/ubuntu noble amd64 libgdbm6t64 amd64 1.23-5.1build1 [34.4 kB]  
Get:3 http://archive.ubuntu.com/ubuntu noble amd64 libgdbm-compat4t64 amd64 1.23-5.1build1 [6710 B]  
Get:4 http://archive.ubuntu.com/ubuntu noble/main amd64 libper15.38t64 amd64 5.38.2-3.2build2 [4873 kB]  
Get:5 http://archive.ubuntu.com/ubuntu noble/main amd64 perl amd64 5.38.2-3.2build2 [231 kB]  
Get:6 http://archive.ubuntu.com/ubuntu noble/main amd64 libapr1t64 amd64 1.7.2-3.1build2 [107 kB]  
Get:7 http://archive.ubuntu.com/ubuntu noble/main amd64 libexpat1 amd64 2.6.1-2build1 [87.0 kB]  
Get:8 http://archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1t64 amd64 1.6.3-1.1ubuntu7 [91.9 kB]  
Get:9 http://archive.ubuntu.com/ubuntu noble/main amd64 libsqlite3-0 amd64 3.45.1-1ubuntu2 [701 kB]  
Get:10 http://archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.3-1.1ubuntu7 [11.2 kB]  
Get:11 http://archive.ubuntu.com/ubuntu noble/main amd64 libsasl2-modules-db amd64 2.1.28+dfsg1-5ubuntu3 [20.3 kB]  
Get:12 http://archive.ubuntu.com/ubuntu noble/main amd64 libsasl2-2 amd64 2.1.28+dfsg1-5ubuntu3 [53.2 kB]  
Get:13 http://archive.ubuntu.com/ubuntu noble/main amd64 libldap2 amd64 2.6.7+dfsg-1-exp1ubuntu8 [195 kB]  
Get:14 http://archive.ubuntu.com/ubuntu noble/main amd64 libaprutil1-ldap amd64 1.6.3-1.1ubuntu7 [9116 B]  
Get:15 http://archive.ubuntu.com/ubuntu noble/main amd64 libbrotli amd64 1.1.0-2build2 [331 kB]  
Get:16 http://archive.ubuntu.com/ubuntu noble/main amd64 libkrb5support0 amd64 1.20.1-6ubuntu2 [33.5 kB]  
Get:17 http://archive.ubuntu.com/ubuntu noble/main amd64 libk5crypto3 amd64 1.20.1-6ubuntu2 [81.7 kB]  
Get:18 http://archive.ubuntu.com/ubuntu noble/main amd64 libkeyutils1 amd64 1.6.3-3build1 [9490 B]  
Get:19 http://archive.ubuntu.com/ubuntu noble/main amd64 libkrb5-3 amd64 1.20.1-6ubuntu2 [347 kB]  
Get:20 http://archive.ubuntu.com/ubuntu noble/main amd64 libgssapi-krb5-2 amd64 1.20.1-6ubuntu2 [142 kB]  
Get:21 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 libnghhttp2-14 amd64 1.59.0-1ubuntu0.1 [74.3 kB]  
Get:22 http://archive.ubuntu.com/ubuntu noble/main amd64 libpsl5t64 amd64 0.21.2-1.1build1 [57.1 kB]
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

```
Enabling module authz_user.  
Enabling module alias.  
Enabling module dir.  
Enabling module autoindex.  
Enabling module env.  
Enabling module mime.  
Enabling module negotiation.  
Enabling module setenvif.  
Enabling module filter.  
Enabling module deflate.  
Enabling module status.  
Enabling module regtimeout.  
Enabling conf charset.  
Enabling conf localized-error-pages.  
Enabling conf other-vhosts-access-log.  
Enabling conf security.  
Enabling conf serve-cgi-bin.  
Enabling site 000-default.  
invoke-rc.d: could not determine current runlevel  
invoke-rc.d: policy-rc.d denied execution of start.  
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...  
Processing triggers for ca-certificates (20240203) ...  
Updating certificates in /etc/ssl/certs...  
0 added, 0 removed; done.  
Running hooks in /etc/ca-certificates/update.d...  
done.  
root@d78962d10c6e:#  
root@d78962d10c6e:#  
root@d78962d10c6e:#  
root@d78962d10c6e:#  
root@d78962d10c6e:#  
root@d78962d10c6e:# service apacche2 status  
apacche2: unrecognized service  
root@d78962d10c6e:# service apache2 status  
* apache2 is not running  
root@d78962d10c6e:# service apache2 start  
* Starting Apache httpd web server apache2  
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message  
*  
root@d78962d10c6e:# service apache2 status  
* apache2 is running  
root@d78962d10c6e:# []
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75



Apache2 Default Page

Ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should [replace this file](#) (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   '-- ports.conf
|-- mods-enabled
|   '-- *.Load
|   '-- *.conf
|-- conf-enabled
|   '-- *.conf
|-- sites-enabled
|   '-- *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
- They are activated by symlinking available configuration files from their respective `*-available/` counterparts. These should be managed by using our helpers `a2enmod`, `a2dismod`, `a2ensite`, `a2dissite`, and `a2enconf`, `a2disconf`. See their respective man pages for detailed information.

aws | Services | Search [Alt+S] | N. Virginia | Intellipaat-Swapnil

EC2 RDS IAM

```
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.

invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...
Processing triggers for ca-certificates (20240203) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.

root@d78962d10c6e:#
root@d78962d10c6e:#
root@d78962d10c6e:#
root@d78962d10c6e:#
root@d78962d10c6e:#
root@d78962d10c6e: # service apache2 status
apache2: unrecognized service
root@d78962d10c6e: # service apache2 status
 * apache2 is not running
root@d78962d10c6e: # service apache2 start
 * Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
 *
root@d78962d10c6e: # service apache2 status
 * apache2 is running
root@d78962d10c6e:#
root@d78962d10c6e:#
root@d78962d10c6e:#
root@d78962d10c6e: # exit
exit
ubuntu@ip-172-30-0-75:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED      STATUS      PORTS          NAMES
d78962d10c6e   ubuntu    "/bin/bash" 7 minutes ago   Up 7 minutes  0.0.0.0:80->80/tcp, :::80->80/tcp   compassionate_satoshi
ubuntu@ip-172-30-0-75:~$ []
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

```
1 sudo apt update -y
2 sudo apt install docker.io -y
3 sudo docker pull ubuntu
4 sudo docker images
5 sudo docker run
6 sudo docker run -itd -p 80:80 ubuntu
7 sudo docker ps
8 sudo docker exec -it d78962d10c6e bash
9 sudo docker ps
10 history
```

```
1 apt update
2 apt install apache2 -y
3 service apache2 status
4 service apache2 status
5 service apache2 start
6 service apache2 status
7 exit
8 service apache2 status
9 service apache2 start
10 service apache2 status
11 history
```

```
1 Assignment-1
2 1 sudo apt update
3 2 sudo apt install docker.io -y
4 3 sudo docker pull ubuntu
5 4 sudo docker images
6 5 sudo docker run -itd -p 80:80 ubuntu
7 6 sudo docker ps
8 7 sudo docker exec -it bfaadf517be3 bash
9 8 sudo docker ps
10 Inside Container
11 1 apt update
12 2 apt install apache2 -y
13 3 service apache2 status
14 4 service apache2 start
15 5 service apache2 status
16 6 exit
```

Assignment 1

```
1 sudo apt update
2 clear
3 sudo apt install docker.io -y
4 docker --version
5 clear
6 sudo docker pull ubuntu
7 sudo docker images
8 sudo docker run -itd -p 80:80 ubuntu
9 sudo docker ps
10 sudo docker exec -it c749ec1d0d08 bash
```

Inside the container :

```
apt update
2 apt install apache2 -y
3 apache2 --version
4 service apache2 status
5 service apache2 start
6 service apache2 status
```

Docker-Assignment-2

Module-3: Docker – I Assignment - 2

You have been asked to:

- Save the image created in Assignment 1 as a Docker image
 - Launch container from this new image and map the port to 81
 - Go inside the container and start the apache2 service
 - Check if you are able to access it on the browser
-

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EC2 RDS IAM

```
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker ps  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
d78962d10c6e ubuntu "/bin/bash" 13 minutes ago Up 13 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp compassionate_satoshi  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker commit images  
Error response from daemon: No such container: images  
ubuntu@ip-172-30-0-75:~$ sudo docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
ubuntu latest 35a88802559d 5 weeks ago 78.1MB  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker commit 35a88802559d assignment2img  
Error response from daemon: No such container: 35a88802559d  
ubuntu@ip-172-30-0-75:~$ sudo docker commit d78962d10c6e assignment2img  
sha256:227f4b3a34da287df4645acf3c335808e4e3f2a52bad7c8d5923de357bd7f414  
ubuntu@ip-172-30-0-75:~$ +  
+: command not found  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
assignment2img latest 227f4b3a34da 25 seconds ago 223MB  
ubuntu latest 35a88802559d 5 weeks ago 78.1MB  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker run -itd -p 81:80 assignment2img  
338cf311b68847b99cfb5e48e10b2b1797700a52cb47731cfb82551ed90a4ba5  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker ps  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
338cf311b688 assignment2img "/bin/bash" 12 seconds ago Up 11 seconds 0.0.0.0:81->80/tcp, :::81->80/tcp loving_shamir
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

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EC2 RDS IAM

```
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker images  
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE  
assignment2img   latest   227f4b3a34da  25 seconds ago  223MB  
ubuntu          latest   35a88802559d  5 weeks ago   78.1MB  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker run -itd -p 81:80 assignment2img  
338cf311b68847b99cfb5e48e10b2b1797700a52cb47731cfb82551ed90a4ba5  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker ps  
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES  
338cf311b688    assignment2img  "/bin/bash"  12 seconds ago  Up 11 seconds  0.0.0.0:81->80/tcp, :::81->80/tcp  loving_shamir  
d78962d10c6e    ubuntu      "/bin/bash"  19 minutes ago  Up 19 minutes  0.0.0.0:80->80/tcp, :::80->80/tcp  compassionate_satoshi  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker exec -it 338cf311b688 bash  
root@338cf311b688:#  
root@338cf311b688:#  
root@338cf311b688:# service apache2 status  
* apache2 is not running  
root@338cf311b688:#  
root@338cf311b688:# service apache2 start  
* Starting Apache httpd web server apache2  
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.3. Set the 'ServerName' directive globally to suppress this message  
*  
root@338cf311b688:#  
root@338cf311b688:#  
root@338cf311b688:#  
root@338cf311b688:# service apache2 start  
* Starting Apache httpd web server apache2  
*  
root@338cf311b688:# service apache2 status  
* apache2 is running  
root@338cf311b688:#  
root@338cf311b688:#
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swainil

EC2 RDS IAM

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Instances (1/1) Info Find Instance by attribute or tag (case-sensitive) All states Instance state = running Clear filters Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS Public IPv4 ... Elastic IP Docker-Assign... i-064e032cd8d28e094 Running t2.micro 2/2 checks passed View alarms us-east-1a ec2-34-204-11-173.co... 34.204.11.173 -

i-064e032cd8d28e094 (Docker-Assignment-1)

Details Status and alarms Monitoring Security Networking Storage Tags

Security details

IAM Role - Owner ID 866650389532 Launch time Mon Jul 15 2024 21:09:06 GMT+0530 (India Standard Time)

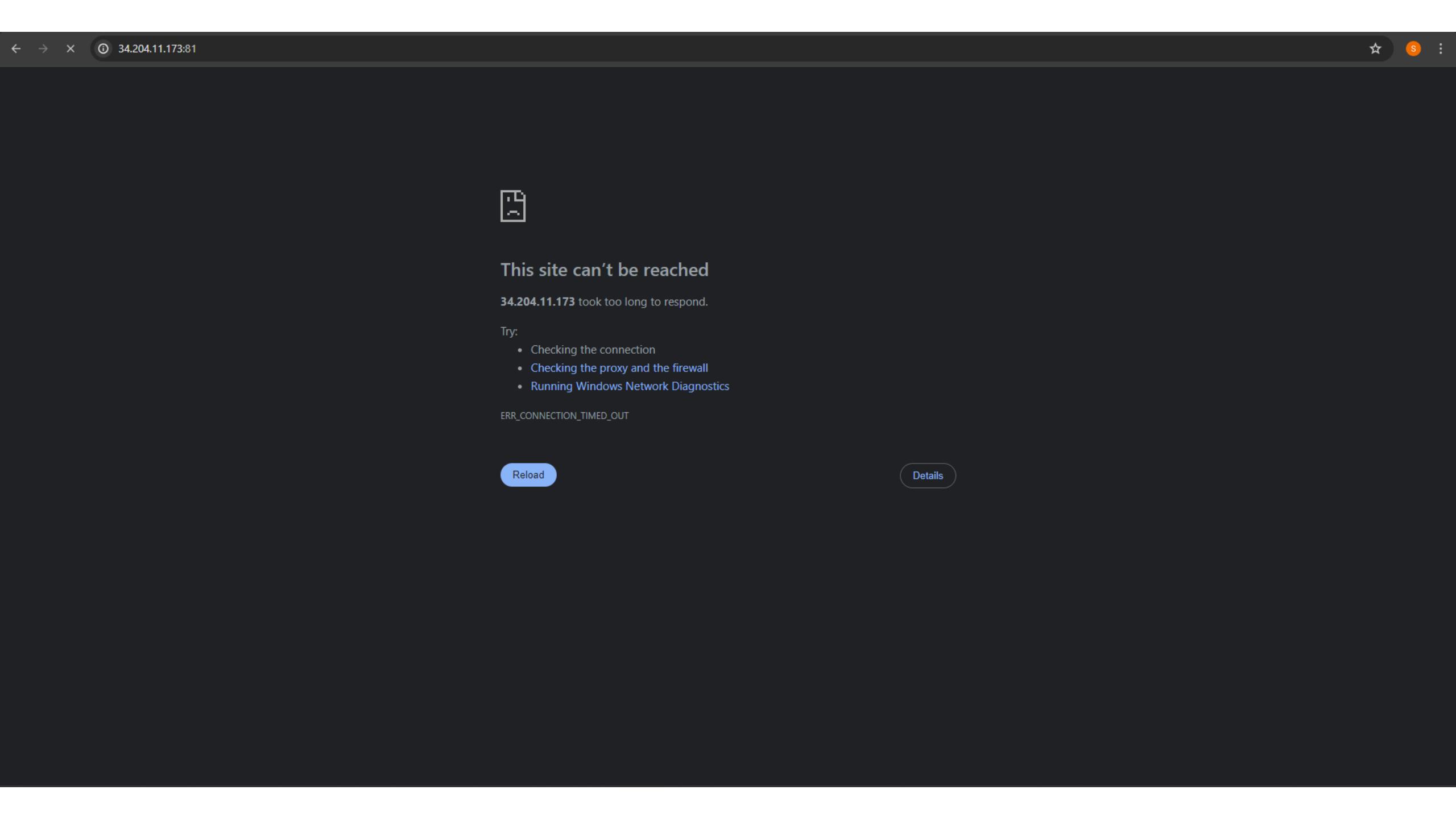
Security groups sg-026b43bca97ea9339 (launch-wizard-21)

Inbound rules

Filter rules

| Name | Security group rule ID | Port range | Protocol | Source | Security groups | Description |
|------|------------------------|------------|----------|-----------|------------------|-------------|
| - | sgr-00752f7e2b1456a3b | 22 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-01a7a7eacfdf99dd4 | 443 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-020b85230f1f172cd | 80 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |

Outbound rules



34.204.11.173:81

☆ S :



This site can't be reached

34.204.11.173 took too long to respond.

Try:

- Checking the connection
- Checking the proxy and the firewall
- Running Windows Network Diagnostics

ERR_CONNECTION_TIMED_OUT

Reload

Details

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

EC2 > Security Groups > sg-026b43bca97ea9339 - launch-wizard-21

sg-026b43bca97ea9339 - launch-wizard-21

Actions ▾

Details

| | | | |
|---------------------|----------------------|---|-----------------------|
| Security group name | Security group ID | Description | VPC ID |
| launch-wizard-21 | sg-026b43bca97ea9339 | launch-wizard-21 created 2024-07-10T16:22:27.841Z | vpc-020050eeb89f650ee |
| Owner | Inbound rules count | Outbound rules count | |
| 866650389532 | 3 Permission entries | 1 Permission entry | |

Inbound rules Outbound rules Tags

Inbound rules (3)

| <input type="checkbox"/> | Name | Security group rule... | IP version | Type | Protocol | Port range | Source | Description |
|--------------------------|------|------------------------|------------|-------|----------|------------|-----------|-------------|
| <input type="checkbox"/> | - | sgr-00752f7e2b1456a3b | IPv4 | SSH | TCP | 22 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-01a7a7eafcdf99dd4 | IPv4 | HTTPS | TCP | 443 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-020b85230f1f172cd | IPv4 | HTTP | TCP | 80 | 0.0.0.0/0 | - |

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Edit inbound rules Info

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

Inbound rules Info

| Security group rule ID | Type <small>Info</small> | Protocol <small>Info</small> | Port range <small>Info</small> | Source <small>Info</small> | Description - optional <small>Info</small> | |
|------------------------|--------------------------|------------------------------|--------------------------------|----------------------------|--|-------------------------|
| sgr-00752f7e2b1456a3b | SSH | TCP | 22 | Custom | <input type="text" value="0.0.0.0/0"/> X | <button>Delete</button> |
| sgr-01a7a7eafcdf99dd4 | HTTPS | TCP | 443 | Custom | <input type="text" value="0.0.0.0/0"/> X | <button>Delete</button> |
| sgr-020b85230f1f172cd | HTTP | TCP | 80 | Custom | <input type="text" value="0.0.0.0/0"/> X | <button>Delete</button> |
| sgr-04c915fc8377965e7 | Custom TCP | TCP | 81 | Custom | <input type="text" value="0.0.0.0/0"/> X | <button>Delete</button> |

Add rule

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.

XCancelPreview changesSave rules

aws | Services | Search [Alt+S] | Actions ▾

EC2 RDS IAM

N. Virginia ▾ Intellipaat-Swapnil ▾

EC2 Dashboard EC2 Global View Events Console-to-Code Preview

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations

Images AMIs AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups Elastic IPs

sg-026b43bca97ea9559 - launch-wizard-21

Details

| | | | |
|---------------------|----------------------|----------------------|-----------------------|
| Security group name | sg-026b43bca97ea9559 | Description | VPC ID |
| Owner | 866650389532 | Inbound rules count | vpc-020050eeb89f650ee |
| | | 4 Permission entries | |
| | | Outbound rules count | |
| | | 1 Permission entry | |

Inbound rules Outbound rules Tags

Inbound rules (4)

| <input type="checkbox"/> | Name | Security group rule... | IP version | Type | Protocol | Port range | Source |
|--------------------------|------|------------------------|------------|------------|----------|------------|-----------|
| <input type="checkbox"/> | - | sgr-00752f7e2b1456a3b | IPv4 | SSH | TCP | 22 | 0.0.0.0/0 |
| <input type="checkbox"/> | - | sgr-043050108afdf99a2f | IPv4 | Custom TCP | TCP | 81 | 0.0.0.0/0 |
| <input type="checkbox"/> | - | sgr-01a7a7eafcdf99dd4 | IPv4 | HTTPS | TCP | 443 | 0.0.0.0/0 |
| <input type="checkbox"/> | - | sgr-020b85230f1f172cd | IPv4 | HTTP | TCP | 80 | 0.0.0.0/0 |

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Apache2 Default Page

Ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   '-- ports.conf
|-- mods-enabled
|   '-- *.Load
|   '-- *.conf
|-- conf-enabled
|   '-- *.conf
|-- sites-enabled
|   '-- *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
- They are activated by symlinking available configuration files from their respective `*-available/` counterparts. These should be managed by using our helpers `a2enmod`, `a2dismod`, `a2ensite`, `a2dissite`, and `a2enconf`, `a2disconf`. See their respective man pages for detailed information.

```
1 apt update
2 apt install apache2 -y
3 service apacche2 status
4 service apache2 status
5 service apache2 start
6 service apache2 status
7 exit
8 service apache2 status
9 service apache2 start
10 service apache2 status
11 history
```

```
18 Assignment-2
19 10 sudo docker ps
20 11 sudo docker images
21 12 sudo docker commit bfaadf517be3 assign2img
22 13 sudo docker images
23 14 sudo docker run -itd -p 81:80 assign2img
24 15 sudo docker ps
25 16 sudo docker exec -it a3f2743ccf70 bash
26 Inside Container
27 3 service apache2 status
28 4 service apache2 start
29 5 service apache2 status
```

Assignment 2

```
sudo docker ps
 15 sudo docker commit c749ec1d0d08 assignment2
 16 sudo docker images
 17 sudo docker run -itd -p 81:80 assignment2
 18 sudo docker images
 19 sudo docker ps
 20 sudo docker exec -it 5419aec3837b bash
```

Inside the container :

```
service apache2 status
service apache2 start
service apache2 status
```

Docker-Assignment-3

Module-3: Docker – I Assignment - 3

You have been asked to:

- Use the saved image in the previous assignment
 - Upload this image on Dockerhub
 - On a separate machine pull this dockerhub image, and launch it on port 80
 - Start the apache2 service
 - Verify if you are able to see the apache2 service
-

aws | Services | Search [Alt+S] | X | 🔍 | ⓘ | ⚙️ | N. Virginia | Intellipaat-Swapnil

EC2 RDS IAM

```
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker images  
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE  
assignment2img   latest   227f4b3a34da  16 minutes ago  223MB  
ubuntu          latest   35a88802559d  5 weeks ago   78.1MB  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker login  
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com/ to create one.  
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PAT grants better security and is required for organizations using SSO. Learn more at https://docs.docker.com/go/access-tokens/  
  
Username: aheadas  
Password:  
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.  
Configure a credential helper to remove this warning. See  
https://docs.docker.com/engine/reference/commandline/login/#credentials-store  
  
Login Succeeded  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker tag assignment2img aheadas/assignment3-imgs  
Error response from daemon: No such image: assignment2img:latest  
ubuntu@ip-172-30-0-75:~$ sudo docker tag assignment2img aheadas/assignment3-imgs  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker images  
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE  
aheadas/assignment3-imgs  latest   227f4b3a34da  23 minutes ago  223MB  
assignment2img   latest   227f4b3a34da  23 minutes ago  223MB  
ubuntu          latest   35a88802559d  5 weeks ago   78.1MB  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ [ ]
```

i-064e032cd8d28e094 (Docker-Assignment-1) X

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

aws | Services | Search [Alt+S] | | | | | | | | | | N. Virginia | Intellipaat-Swapnil

EC2 RDS IAM

```
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker login  
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com/ to create one.  
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PAT grants better security and is required for organizations using SSO. Learn more at https://docs.docker.com/go/access-tokens/  
  
Username: aheadas  
Password:  
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.  
Configure a credential helper to remove this warning. See  
https://docs.docker.com/engine/reference/commandline/login/#credentials-store  
  
Login Succeeded  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker tag assignment2ing aheadas/assignment3-imgs  
Error response from daemon: No such image: assignment2ing:latest  
ubuntu@ip-172-30-0-75:~$ sudo docker tag assignment2img aheadas/assignment3-imgs  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker images  
REPOSITORY          TAG      IMAGE ID   CREATED        SIZE  
aheadas/assignment3-imgs  latest   227f4b3a34da  23 minutes ago  223MB  
assignment2img       latest   227f4b3a34da  23 minutes ago  223MB  
ubuntu               latest   35a88802559d  5 weeks ago   78.1MB  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker push aheadas/assignment3-imgs  
Using default tag: latest  
The push refers to repository [docker.io/aheadas/assignment3-imgs]  
d11b791bc7d1: Pushed  
a30a5965a4f7: Mounted from library/ubuntu  
latest: digest: sha256:9d27c42f93ec432ba5bc424268e59a9aab6b8bc30d4d6a5d19df657ca57cef69 size: 741  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ [ ]
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

[Explore](#)[Repositories](#)[Organizations](#) Search Docker Hub

ctrl+K



A

aheadas

Search by repository name



All Content

[Create repository](#)

aheadas / assignment3-imgs

Contains: Image · Last pushed: less than a minute ago



0



0

Public

Scout inactive

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

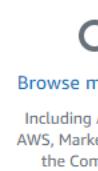
Name and tags Info

Name

[Add additional tags](#)

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

[Recents](#)[Quick Start](#)

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

Free tier eligible

▼ Summary

Number of instances Info

1

Software Image (AMI)

Canonical, Ubuntu, 24.04 LTS, ...[read more](#)
ami-04a81a99f5ec58529

Virtual server type (instance type)

t2.micro

Firewall (security group)

launch-wizard-21

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#)[Launch instance](#)[Review commands](#)

aws Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type
ami-04a81a99f5ec58529 (64-bit (x86)) / ami-0c14ff330901e49ff (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description
Ubuntu Server 24.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Architecture AMI ID Verified provider
64-bit (x86) ami-04a81a99f5ec58529

▼ Instance type Info | Get advice

Instance type
t2.micro Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand RHEL base pricing: 0.026 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour

All generations Compare instance types

Additional costs apply for AMIs with pre-installed software

▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required Swapnil Create new key pair

▼ Summary

Number of instances 1

Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-04a81a99f5ec58529

Virtual server type (instance type)
t2.micro

Firewall (security group)
launch-wizard-21

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance Review commands

aws Services Search [Alt+S] N. Virginia Intellipaat-Swainil

EC2 RDS IAM

Network settings Info Edit

Network | Info
vpc-020050eeb89f650ee | Default VPC

Subnet | Info
subnet-0df06ea348102a8f5

Auto-assign public IP | Info
Enable
Additional charges apply when outside of free tier allowance

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

Common security groups Info
Select security groups ▾

launch-wizard-21 sg-026b43bca97ea9339 X
VPC: vpc-020050eeb89f650ee

Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Configure storage Info Advanced

1x 8 GiB gp3 Root volume (Encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage X

Add new volume

Summary

Number of instances | Info
1

Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-04a81a99f5ec58529

Virtual server type (instance type)
t2.micro

Firewall (security group)
launch-wizard-21

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet. X

Cancel Launch instance Review commands

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AWS Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

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

Common security groups [Info](#)

Select security groups

launch-wizard-21 sg-026b43bca97ea9339 X
VPC: vpc-020050eeb89f650ee

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Configure storage [Info](#) Advanced

1x 8 GiB gp3 Root volume (Encrypted)

i Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage [X](#)

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

i Click refresh to view backup information [Edit](#)

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems [Edit](#)

Advanced details [Info](#)

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-04a81a99f5ec58529

Virtual server type (instance type)
t2.micro

Firewall (security group)
launch-wizard-21

Storage (volumes)
1 volume(s) - 8 GiB

i Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet. [X](#)

Cancel [Launch instance](#) Review commands

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swainil

EC2 RDS IAM

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

Instances (1/2) Info Find Instance by attribute or tag (case-sensitive) All states Instance state = running Clear filters

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DNS | Public IPv4 ... | Elastic |
|---------------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|-------------------------|-----------------|---------|
| Docker-Assignment-3 | i-099094d52c6a0e1bc | Running | t2.micro | Initializing | View alarms | us-east-1d | ec2-54-91-230-93.com... | 54.91.230.93 | - |
| Docker-Assignment-1 | i-064e032cd8d28e094 | Running | t2.micro | 2/2 checks passed | View alarms | us-east-1a | ec2-34-204-11-173.co... | 34.204.11.173 | - |

i-099094d52c6a0e1bc (Docker-Assignment-3)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

| | | |
|---------------------------------------|---|---|
| Instance ID | 54.91.230.93 open address | Private IPv4 addresses |
| IPv6 address | - | 172.30.3.116 |
| Hostname type | Running | Public IPv4 DNS |
| IP name: ip-172-30-3-116.ec2.internal | ip-172-30-3-116.ec2.internal | ec2-54-91-230-93.compute-1.amazonaws.com open address |
| Answer private resource DNS name | t2.micro | Elastic IP addresses |
| Auto-assigned IP address | VPC ID | AWS Compute Optimizer finding |
| 54.91.230.93 [Public IP] | vpc-020050eeb89f650ee (Default VPC) | Opt-in to AWS Compute Optimizer for recommendations. Learn more |
| IAM Role | Subnet ID | Auto Scaling Group name |
| - | subnet-0df06ea348102a8f5 | - |
| IMDSv2 | Instance ARN | |
| Required | arn:aws:ec2:us-east-1:866650389532:instance/i-099094d52c6a0e1bc | |

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Connect to instance Info

Connect to your instance i-099094d52c6a0e1bc (Docker-Assignment-3) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID

Connection Type

Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address

Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.
 X

ⓘ Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel

Connect

aws | Services | Search [Alt+S] | N. Virginia | Intellipaat-Swapnil

EC2 RDS IAM

```
ubuntu@ip-172-30-3-116:~$ sudo apt update -y
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [223 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [54.4 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [2680 B]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [200 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [85.5 kB]
Get:12 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [8632 B]
Get:13 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [4564 B]
Get:14 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [176 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [34.4 kB]
Get:16 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [420 B]
Get:17 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [10.6 kB]
Get:18 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2808 B]
Get:19 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:20 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [344 B]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [259 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [68.6 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [4076 B]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [230 kB]
Get:31 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [95.9 kB]
Get:32 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [45.0 kB]
Get:33 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [7208 B]
Get:34 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [176 kB]
Get:35 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [34.4 kB]
Get:36 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [416 B]
Get:37 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [14.1 kB]
Get:38 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [3608 B]
Get:39 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [212 B]
Get:40 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [532 B]
Get:41 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
```

i-099094d52c6a0e1bc (Docker-Assignment-3)

PublicIPs: 54.91.230.93 PrivateIPs: 172.30.3.116

AWS Services Search [Alt+S]

EC2 RDS IAM

```
ubuntu@ip-172-30-3-116:~$ sudo apt install docker.io -y
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 debootstrap docker-buildx docker-compose-v2 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 21 not upgraded.
Need to get 76.8 MB of archives.
After this operation, 289 MB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 bridge-utils amd64 1.7.1-1ubuntu2 [33.9 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 runc amd64 1.1.12-0ubuntu3 [8599 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 containerd amd64 1.7.12-0ubuntu4 [38.6 MB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 dns-root-data all 2023112702~willsync1 [4450 B]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 dnsmasq-base amd64 2.90-2build2 [375 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 docker.io amd64 24.0.7-0ubuntu4 [29.1 MB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]
Fetched 76.8 MB in 1s (73.4 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 67739 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.8-1_amd64.deb ...
Unpacking pigz (2.8-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.7.1-1ubuntu2_amd64.deb ...
Unpacking bridge-utils (1.7.1-1ubuntu2) ...
Selecting previously unselected package runc.
Preparing to unpack .../2-runc_1.1.12-0ubuntu3_amd64.deb ...
Unpacking runc (1.1.12-0ubuntu3) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.7.12-0ubuntu4_amd64.deb ...
Unpacking containerd (1.7.12-0ubuntu4) ...
Selecting previously unselected package dns-root-data.
Preparing to unpack .../4-dns-root-data_2023112702~willsync1_all.deb ...
Unpacking dns-root-data (2023112702~willsync1) ...
Selecting previously unselected package dnsmasq-base.
Preparing to unpack .../5-dnsmasq-base_2.90-2build2_amd64.deb ...
Unpacking dnsmasq-base (2.90-2build2) ...

i-099094d52c6a0e1bc (Docker-Assignment-3)
```

PublicIPs: 54.91.230.93 PrivateIPs: 172.30.3.116

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

```
Setting up docker.io (24.0.7-0ubuntu4) ...
info: Selecting GID from range 100 to 999 ...
info: Adding group 'docker' (GID 113) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for dbus (1.14.10-4ubuntu4) ...
Processing triggers for man-db (2.12.0-4build2) ...
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-172-30-3-116:~$ 
ubuntu@ip-172-30-3-116:~$ 
ubuntu@ip-172-30-3-116:~$ 
ubuntu@ip-172-30-3-116:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu@ip-172-30-3-116:~$ 
ubuntu@ip-172-30-3-116:~$ 
ubuntu@ip-172-30-3-116:~$ 
ubuntu@ip-172-30-3-116:~$ 
ubuntu@ip-172-30-3-116:~$ sudo docker pull aheadas/assignment3-imgs
Using default tag: latest
latest: Pulling from aheadas/assignment3-imgs
9c704ecd0c69: Pull complete
6e4662c91460: Pull complete
Digest: sha256:9d27c42f93ec432ba5bc424268e59a9aab6b8bc30d4d6a5d19df657ca57cef69
Status: Downloaded newer image for aheadas/assignment3-imgs:latest
docker.io/aheadas/assignment3-imgs:latest
ubuntu@ip-172-30-3-116:~$ 
ubuntu@ip-172-30-3-116:~$ 
ubuntu@ip-172-30-3-116:~$ 
ubuntu@ip-172-30-3-116:~$ 
ubuntu@ip-172-30-3-116:~$ 
```

i-099094d52c6a0e1bc (Docker-Assignment-3)

Public IPs: 54.91.230.93 Private IPs: 172.30.3.116

```
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$ sudo docker pull aheadas/assignment3-imgs  
Using default tag: latest  
latest: Pulling from aheadas/assignment3-imgs  
9c704ecd0c69: Pull complete  
6e4662c91460: Pull complete  
Digest: sha256:9d27c42f93ec432ba5bc424268e59a9aab6b8bc30d4d6a5d19df657ca57cef69  
Status: Downloaded newer image for aheadas/assignment3-imgs:latest  
docker.io/aheads/assignment3-imgs:latest  
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$ sudo docker run -itd -p 82:80 aheadas/assignment3-imgs  
f640dce151e3bdc24058818d01a485fbcd298741c9840b9690cf7b47e45a58f3e  
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$ sudo docker ps  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
f640dce151e3 aheadas/assignment3-imgs "/bin/bash" 11 seconds ago Up 10 seconds 0.0.0.0:82->80/tcp, :::82->80/tcp hardcore_mclaren  
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$  
ubuntu@ip-172-30-3-116:~$ sudo docker exec -it f640dce151e3 bash  
root@f640dce151e3:~#  
root@f640dce151e3:~#  
root@f640dce151e3:~# service apache2 status  
 * apache2 is not running  
root@f640dce151e3:~#  
root@f640dce151e3:~#  
root@f640dce151e3:~# service apache2 start  
 * Starting Apache httpd web server apache2  
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message  
*  
root@f640dce151e3:~#  
root@f640dce151e3:~#  
root@f640dce151e3:~# service apache2 status  
 * apache2 is running  
root@f640dce151e3:~#  
root@f640dce151e3:~#  
root@f640dce151e3:~# █
```

j-099094d52c6a0e1bc (Docker-Assignment-3)

Public IPs: 54.91.230.93 Private IPs: 172.30.3.116

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs CloudShell Feedback

Instances (1/2) Info Find Instance by attribute or tag (case-sensitive) All states Instance state = running Clear filters

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DNS | Public IPv4 ... | Elastic |
|---------------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|-------------------------|-----------------|---------|
| Docker-Assignment-3 | i-099094d52c6a0e1bc | Running | t2.micro | Initializing | View alarms | us-east-1d | ec2-54-91-230-93.com... | 54.91.230.93 | - |
| Docker-Assignment-1 | i-064e032cd8d28e094 | Running | t2.micro | 2/2 checks passed | View alarms | us-east-1a | ec2-34-204-11-173.co... | 34.204.11.173 | - |

i-099094d52c6a0e1bc (Docker-Assignment-3)

Details Status and alarms Monitoring Security Networking Storage Tags

Security details

IAM Role - Owner ID 866650389532 Launch time Mon Jul 15 2024 22:16:55 GMT+0530 (India Standard Time)

Security groups sg-026b43bca97ea9339 (launch-wizard-21)

Inbound rules

| Name | Security group rule ID | Port range | Protocol | Source | Security groups | Description |
|------|------------------------|------------|----------|-----------|------------------|-------------|
| - | sgr-00752f7e2b1456a3b | 22 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-043050108afdf99a2f | 81 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-01a7a7eafcdf99dd4 | 443 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-020b85230f1f172cd | 80 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |

Outbound rules

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Apache2 Default Page

Ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   '-- ports.conf
|-- mods-enabled
|   '-- *.Load
|   '-- *.conf
|-- conf-enabled
|   '-- *.conf
|-- sites-enabled
|   '-- *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
- They are activated by symlinking available configuration files from their respective `*-available/` counterparts. These should be managed by using our helpers `a2enmod`, `a2dismod`, `a2ensite`, `a2dissite`, and `a2enconf`, `a2disconf`. See their respective man pages for detailed information.

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EC2 RDS IAM

```
ubuntu@ip-172-30-3-116:~$ sudo docker run -itd -p 82:80 aheadas/assignment3-imgs f640dce151e3bdc24058818d01a485fbd298741c9840b9690cf7b47e45a58f3e
ubuntu@ip-172-30-3-116:~$ sudo docker ps
CONTAINER ID        IMAGE               COMMAND      CREATED     STATUS      PORTS          NAMES
f640dce151e3        aheadas/assignment3-imgs   "/bin/bash"  11 seconds ago   Up 10 seconds  0.0.0.0:82->80/tcp, :::82->80/tcp   hardcore_mclaren
ubuntu@ip-172-30-3-116:~$ sudo docker exec -it f640dce151e3 bash
root@f640dce151e3:#
root@f640dce151e3:#
root@f640dce151e3:# service apache2 status
 * apache2 is not running
root@f640dce151e3:#
root@f640dce151e3:#
root@f640dce151e3:# service apache2 start
 * Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
 *
root@f640dce151e3:#
root@f640dce151e3:#
root@f640dce151e3:# service apache2 status
 * apache2 is running
root@f640dce151e3:#
root@f640dce151e3:#
root@f640dce151e3:# history
 1 apt update
 2 apt install apache2 -y
 3 service apacche2 status
 4 service apache2 status
 5 service apache2 start
 6 service apache2 status
 7 exit
 8 service apache2 status
 9 service apache2 start
10 service apache2 status
11 history
root@f640dce151e3:# 
```

i-099094d52c6a0e1bc (Docker-Assignment-3)

PublicIPs: 54.91.230.93 PrivateIPs: 172.30.3.116

```
1 sudo apt update -y
2 sudo apt install docker.io -y
3 sudo docker images
4 sudo docker pull aheadas/assignment3-imgs
5 sudo docker run -itd -p 82:80 aheadas/assignment3-imgs
6 sudo docker ps
7 sudo docker exec -it f640dce151e3 bash
8 history
```

```
1 apt update
2 apt install apache2 -y
3 service apache2 status
4 service apache2 status
5 service apache2 start
6 service apache2 status
7 exit
8 service apache2 status
9 service apache2 start
10 service apache2 status
11 history
```

Assignment 3

```
sudo apt update
 2 clear
 3 sudo apt install docker.io -y
 4 docker --version
 5 clear
 6 sudo docker pull ubuntu
 7 sudo docker images
 8 sudo docker run -itd -p 80:80 ubuntu
 9 sudo docker ps
10 sudo docker exec -it c749ec1d0d08 bash
11 ls
12 history
13 clear
14 sudo docker ps
15 sudo docker commit c749ec1d0d08 assignment2
16 sudo docker images
17 sudo docker run -itd -p 81:80 assignment2
18 sudo docker images
19 sudo docker ps
20 sudo docker exec -it 5419aec3837b bash
21 history
22 clear
23 sudo docker images
24 sudo docker tag assignment2 amanintellipaat/assignment2
25 sudo docker ps
26 sudo docker images
27 sudo docker login
28 sudo docker push amanintellipaat/assignment2
29 clear
30 history
```

Separate Machine

```
sudo apt update && sudo apt install docker.io -y && clear && docker --version
 2 sudo docker pull amanintellipaat/assignment2:latest
 3 sudo docker images
 4 sudo docker ps
 5 sudo docker run -itd -p 80:80 amanintellipaat/assignment2
 6 sudo docker exec -it 36e5026d566ad63a2817105b8677ef34258df2cb67f262600d1ca7ffbf70c9ba bash
```

Docker-Assignment-4

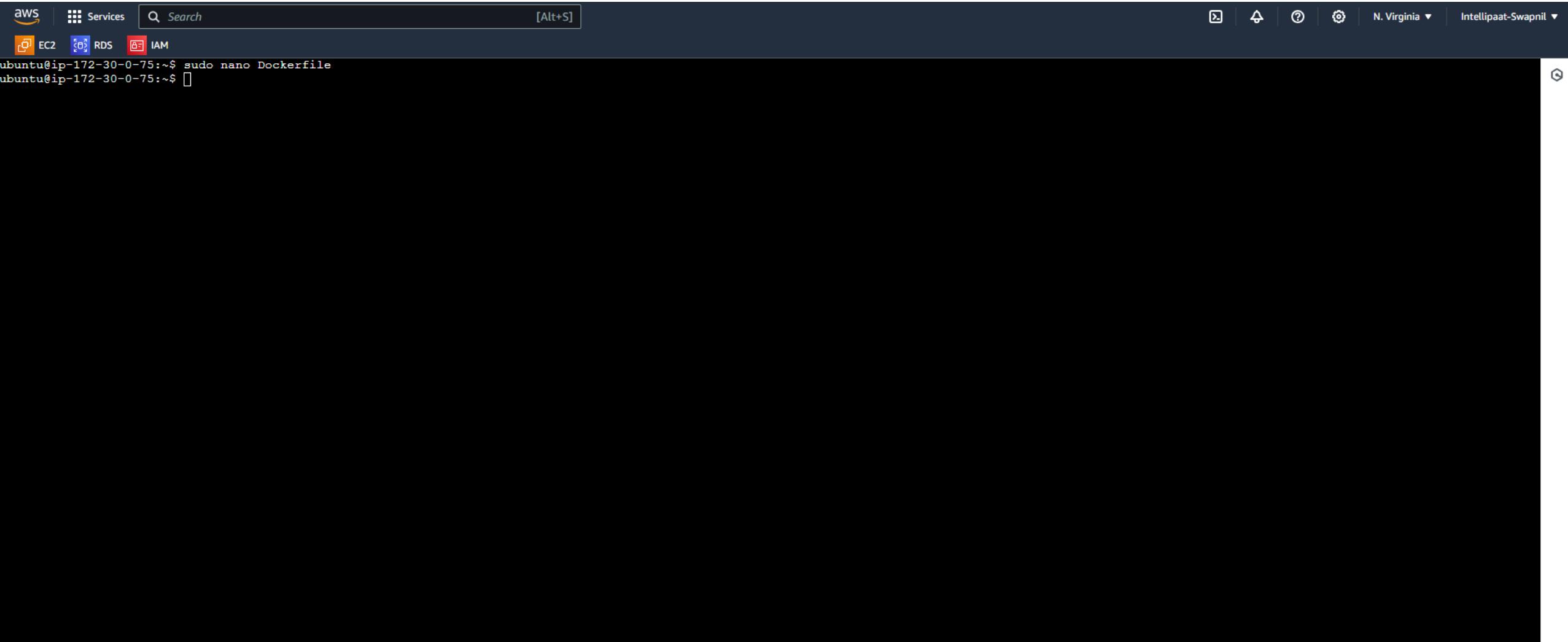
Module-3: Docker - I Assignment - 4

You have been asked to:

Create a dockerfile with the following specs:

- Ubuntu container
- Apache2 installed
- Apache2 should automatically run once the container starts

Submit the dockerfile, for assignment completion



i-064e032cd8d28e094 (Docker-Assignment-1)

Public IPs: 34.204.11.173 Private IPs: 172.30.0.75

X



[New File]

^G Help ^O Write Out ^W Where Is ^F Cut ^T Execute ^C Location M-U Undo
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo
M-A Set Mark M-) To Bracket M-Q Previous ^B Back
M-6 Copy ^C Where Was M-W Next ^F Forward ^P Prev Word
 ^N Next Word

i-064e032cd8d28e094 (Docker-Assignment-1)



PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

GNU nano 7.2 Dockerfile *

```
FROM ubuntu
RUN apt update
RUN apt install apache2 -y
ENTRYPOINT apachectl -D FOREGROUND
```

^G Help ^C Write Out ^W Where Is ^R Cut ^T Execute ^C Location ^/ Go To Line M-U Undo M-A Set Mark M-J To Bracket M-Q Previous ^B Back ^F Forward ^R Read File ^\ Replace ^U Paste ^J Justify M-E Redo M-G Copy M-C Where Was M-W Next ^A Prev Word ^P Next Word

i-064e032cd8d28e094 (Docker-Assignment-1) X

Public IPs: 34.204.11.173 Private IPs: 172.30.0.75

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

```
ubuntu@ip-172-30-0-75:~$ sudo nano Dockerfile
ubuntu@ip-172-30-0-75:~$ ls
Dockerfile
ubuntu@ip-172-30-0-75:~$ sudo docker build . -t assignment4
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 12.29kB
Step 1/4 : FROM ubuntu
--> 35a88802559d
Step 2/4 : RUN apt update
--> Running in c2405672a978

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

Get:1 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [12.7 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [260 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble/main amd64 Packages [1808 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [278 kB]
Get:9 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [220 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble/restricted amd64 Packages [117 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [19.3 MB]
Get:12 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [331 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [220 kB]
Get:14 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [333 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [16.9 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [324 kB]
Get:17 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [9711 B]
Fetched 23.9 MB in 3s (8023 kB/s)
Reading package lists...
Building dependency tree...
Reading state information...
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
Removing intermediate container c2405672a978
--> 79aed6dc00f0
Step 3/4 : RUN apt install apache2 -y
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

aws | Services | Search [Alt+S] | N. Virginia | Intellipaat-Swapnil

EC2 RDS IAM

```
Enabling module negotiation.  
Enabling module setenvif.  
Enabling module filter.  
Enabling module deflate.  
Enabling module status.  
Enabling module reqtimeout.  
Enabling conf charset.  
Enabling conf localized-error-pages.  
Enabling conf other-vhosts-access-log.  
Enabling conf security.  
Enabling conf serve-cgi-bin.  
Enabling site 000-default.  
invoke-rc.d: could not determine current runlevel  
invoke-rc.d: policy-rc.d denied execution of start.  
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...  
Processing triggers for ca-certificates (20240203) ...  
Updating certificates in /etc/ssl/certs...  
0 added, 0 removed; done.  
Running hooks in /etc/ca-certificates/update.d...  
done.  
Removing intermediate container 384beaab866a  
--> e4264c856b08  
Step 4/4 : ENTRYPOINT apachectl -D FOREGROUND  
--> Running in 1601834b52ea  
Removing intermediate container 1601834b52ea  
--> 19d47823107f  
Successfully built 19d47823107f  
Successfully tagged assignment4:latest  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$ sudo docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
assignment4 latest 19d47823107f About a minute ago 223MB  
aheadas/assignment3-imgs latest 227f4b3a34da About an hour ago 223MB  
assignment2img latest 227f4b3a34da About an hour ago 223MB  
ubuntu latest 35a88802559d 5 weeks ago 78.1MB  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$  
ubuntu@ip-172-30-0-75:~$
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs CloudShell Feedback

Instances (1/2) Info Find Instance by attribute or tag (case-sensitive) All states Instance state = running Clear filters

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DNS | Public IPv4 ... | Elastic |
|---------------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|-------------------------|-----------------|---------|
| Docker-Assignment-3 | i-099094d52c6a0e1bc | Running | t2.micro | Initializing | View alarms | us-east-1d | ec2-54-91-230-93.com... | 54.91.230.93 | - |
| Docker-Assignment-1 | i-064e032cd8d28e094 | Running | t2.micro | 2/2 checks passed | View alarms | us-east-1a | ec2-34-204-11-173.co... | 34.204.11.173 | - |

i-064e032cd8d28e094 (Docker-Assignment-1)

| | | |
|---|--------------|---|
| IAM Role | Owner ID | Launch time |
| - | 866650389532 | Mon Jul 15 2024 21:09:06 GMT+0530 (India Standard Time) |
| Security groups | | |
| sg-026b43bca97ea9339 (launch-wizard-21) | | |

Inbound rules

| Name | Security group rule ID | Port range | Protocol | Source | Security groups | Description |
|------|------------------------|------------|----------|-----------|------------------|-------------|
| - | sgr-00752f7e2b1456a3b | 22 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-043050108afdf99a2f | 81 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-01a7a7eafcdf99dd4 | 443 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-0a129e68c2fb56dce | 82 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-020b85230f1f172cd | 80 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |

Outbound rules

| Name | Security group rule ID | Port range | Protocol | Source | Security groups | Description |
|------|------------------------|------------|----------|--------|-----------------|-------------|
|------|------------------------|------------|----------|--------|-----------------|-------------|

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EC2 RDS IAM

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

EC2 > Security Groups > sg-026b43bca97ea9339 - launch-wizard-21

sg-026b43bca97ea9339 - launch-wizard-21

Actions ▾

Details

| | | | | | | | |
|---------------------|------------------|---------------------|----------------------|----------------------|---|--------|-----------------------|
| Security group name | launch-wizard-21 | Security group ID | sg-026b43bca97ea9339 | Description | launch-wizard-21 created 2024-07-10T16:22:27.841Z | VPC ID | vpc-020050eeb89f650ee |
| Owner | 866650389532 | Inbound rules count | 5 Permission entries | Outbound rules count | 1 Permission entry | | |

Inbound rules Outbound rules Tags

Inbound rules (5)

| <input type="checkbox"/> | Name | Security group rule... | IP version | Type | Protocol | Port range | Source | Description |
|--------------------------|------|------------------------|------------|------------|----------|------------|-----------|-------------|
| <input type="checkbox"/> | - | sgr-00752f7e2b1456a3b | IPv4 | SSH | TCP | 22 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-043050108afdf99a2f | IPv4 | Custom TCP | TCP | 81 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-01a7a7eafcdf99dd4 | IPv4 | HTTPS | TCP | 443 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-0a129e68c2fb56dce | IPv4 | Custom TCP | TCP | 82 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-020b85230f1f172cd | IPv4 | HTTP | TCP | 80 | 0.0.0.0/0 | - |

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EC2

RDS

IAM

Edit inbound rules Info

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

Inbound rules Info

Security group rule ID**Type** Info**Protocol** Info**Port range** Info**Source** Info**Description - optional** Info

sgr-00752f7e2b1456a3b

SSH

TCP

22

Custom

Q

0.0.0.0/0

Delete

sgr-043050108afdf99a2f

Custom TCP

TCP

81

Custom

Q

0.0.0.0/0

Delete

sgr-01a7a7eafcdf99dd4

HTTPS

TCP

443

Custom

Q

0.0.0.0/0

Delete

sgr-0a129e68c2fb56dce

Custom TCP

TCP

82

Custom

Q

0.0.0.0/0

Delete

sgr-020b85230f1f172cd

HTTP

TCP

80

Custom

Q

0.0.0.0/0

Delete

-

Custom TCP

TCP

8080

Anywhere-l...

Q

0.0.0.0/0

Delete

Add rule

Cancel

Preview changes

Save rules



Apache2 Default Page

Ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   '-- ports.conf
|-- mods-enabled
|   '-- *.Load
|   '-- *.conf
|-- conf-enabled
|   '-- *.conf
|-- sites-enabled
|   '-- *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
- They are activated by symlinking available configuration files from their respective `*-available/` counterparts. These should be managed by using our helpers `a2enmod`, `a2dismod`, `a2ensite`, `a2dissite`, and `a2enconf`, `a2disconf`. See their respective man pages for detailed information.

Assignment 4

Dockerfile

```
FROM ubuntu
RUN apt update
RUN apt install apache2 -y
ENTRYPOINT apachectl -D FOREGROUND
```

```
sudo docker build . -t a4
35 sudo docker images
36 sudo docker run -itd -p 8080:80 a4
```

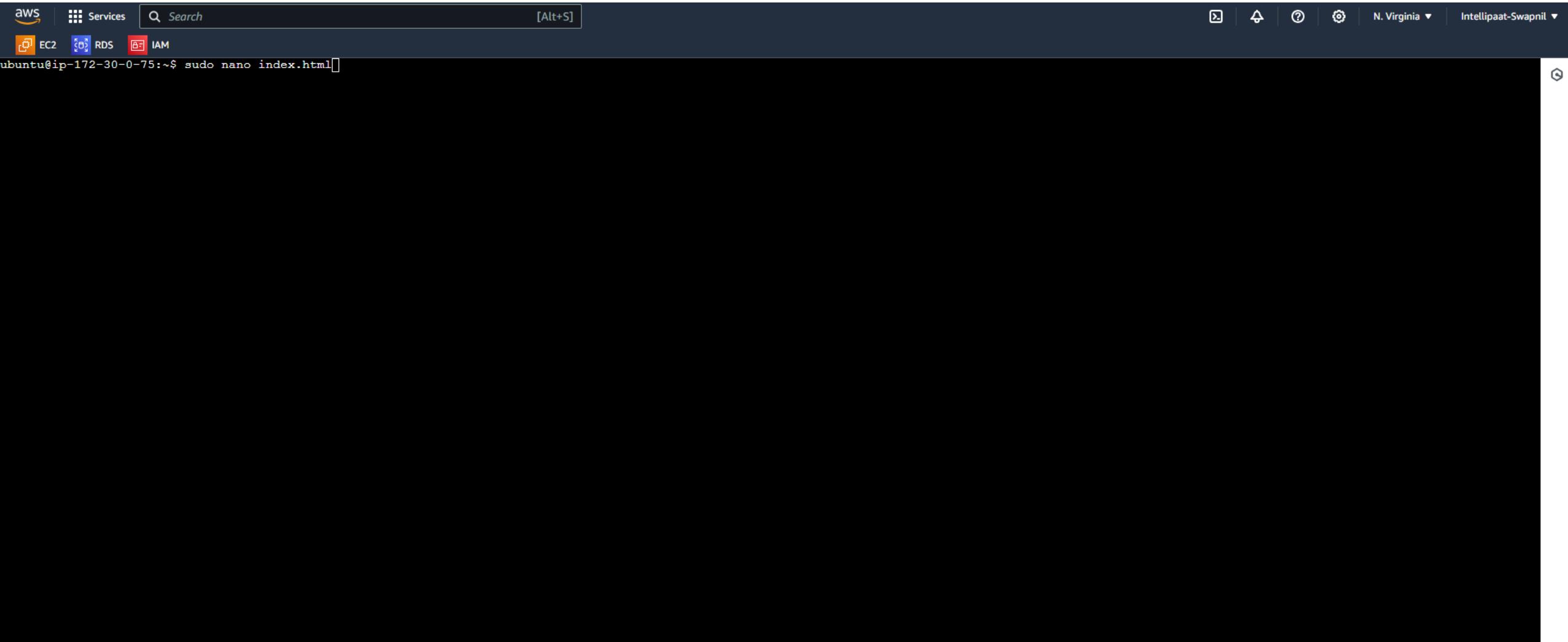
```
FROM ubuntu
RUN apt update
RUN apt install apache2 -y
ENTRYPOINT apachectl -D FOREGROUND
```

Docker-Assignment-5

Module-3: Docker - I Assignment - 5

You have been asked to:

- Create a sample HTML file
 - Use the Dockerfile from the previous task
 - Replace this sample HTML file inside the docker container with the default page
-



i-064e032cd8d28e094 (Docker-Assignment-1)

X

Public IPs: 34.204.11.173 Private IPs: 172.30.0.75

index.html *

Hello All,

This is my Assignment5 Sample file

Thanks

^O Write Out **^W** Where Is **^R** Cut **^I** Execute **^C** Location **M-U** Undo **M-A** Set Mark **M-]** To Bracket **M-Q** Previous **^B** Back **^A** Prev Word
^R Read File **^V** Replace **^U** Paste **^J** Justify **^/** Go To Line **M-E** Redo **M-G** Copy **^Q** Where Was **M-W** Next **^F** Forward **^P** Next Word

i-064e032cd8d28e094 (Docker-Assignment-1)

X

Public IPs: 34.204.11.173 Private IPs: 172.30.0.75

 EC2  RDS  IAM

```
ubuntu@ip-172-30-0-75:~$ sudo nano index.html
ubuntu@ip-172-30-0-75:~$ cat index.html
```

Hello All,

This is my Assignment5 Sample file

Thanks

```
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
```

i-064e032cd8d28e094 (Docker-Assignment-1) 

Public IPs: 34.204.11.173 Private IPs: 172.30.0.75

AWS Services Search [Alt+S]

EC2 RDS IAM

ubuntu@ip-172-30-0-75:~\$ sudo nano index.html
ubuntu@ip-172-30-0-75:~\$ cat index.html

Hello All,

This this my Assignment5 Sample file

Thanks

ubuntu@ip-172-30-0-75:~\$
ubuntu@ip-172-30-0-75:~\$
ubuntu@ip-172-30-0-75:~\$ ls
Dockerfile index.html
ubuntu@ip-172-30-0-75:~\$
ubuntu@ip-172-30-0-75:~\$
ubuntu@ip-172-30-0-75:~\$
ubuntu@ip-172-30-0-75:~\$
ubuntu@ip-172-30-0-75:~\$ sudo nano Dockerfile

i-064e032cd8d28e094 (Docker-Assignment-1)

Public IPs: 34.204.11.173 Private IPs: 172.30.0.75



aws | Services | [Alt+S] | N. Virginia | Intellipaat-Swainil

EC2 RDS IAM

GNU nano 7.2

```
FROM ubuntu
RUN apt update
RUN apt install apache2 -y
ADD . /var/www/html
ENTRYPOINT apachectl -D FOREGROUND
```

File Edit Insert View Search Help

^G Help ^C Write Out ^W Where Is ^K Cut ^T Execute ^C Location ^M-U Undo ^M-A Set Mark ^M-J To Bracket ^M-Q Previous ^E Back ^M-R Read File ^V Replace ^U Paste ^J Justify ^P Go To Line ^M-E Redo ^M-G Copy ^C Where Was ^M-W Next ^F Forward ^A Prev Word ^B Next Word

i-064e032cd8d28e094 (Docker-Assignment-1) X

Public IPs: 34.204.11.173 Private IPs: 172.30.0.75

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

```
ubuntu@ip-172-30-0-75:~$ sudo nano index.html
ubuntu@ip-172-30-0-75:~$ cat index.html

Hello All,

This this my Assignment5 Sample file

Thanks
ubuntu@ip-172-30-0-75:~$
ubuntu@ip-172-30-0-75:~$ ls
Dockerfile index.html
ubuntu@ip-172-30-0-75:~$
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ sudo nano Dockerfile
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ cat Dockerfile
FROM ubuntu
RUN apt update
RUN apt install apache2 -y
ADD ./var/www/html
ENTRYPOINT apachectl -D FOREGROUND
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ Clear[]
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75



AWS Services Search [Alt+S] N. Virginia Intellipaat-Swainil

EC2 RDS IAM

```
ubuntu@ip-172-30-0-75:~$ sudo docker build . -t Assignment5
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

invalid argument "Assignment5" for "-t, --tag" flag: invalid reference format: repository name must be lowercase
See 'docker build --help'.
ubuntu@ip-172-30-0-75:~$ sudo docker build . -t assignment5
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 13.31kB
Step 1/5 : FROM ubuntu
--> 35a88802559d
Step 2/5 : RUN apt update
--> Using cache
--> 79aed6dc00f0
Step 3/5 : RUN apt install apache2 -y
--> Using cache
--> e4264c856b08
Step 4/5 : ADD . /var/www/html
--> 4920fb9d7f39
Step 5/5 : ENTRYPOINT apachectl -D FOREGROUND
--> Running in 8d8255bbcbfc
Removing intermediate container 8d8255bbcbfc
--> f7cd04bb0108
Successfully built f7cd04bb0108
Successfully tagged assignment5:latest
ubuntu@ip-172-30-0-75:~$ 
ubuntu@ip-172-30-0-75:~$ sudo docker images
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
assignment5         latest   f7cd04bb0108  28 seconds ago  223MB
assignment4         latest   19d47823107f  22 minutes ago  223MB
aheadas/assignment3-imgs  latest   227f4b3a34da  2 hours ago   223MB
assignment2img      latest   227f4b3a34da  2 hours ago   223MB
ubuntu              latest   35a88802559d   5 weeks ago   78.1MB
ubuntu@ip-172-30-0-75:~$ 
```

i-064e032cd8d28e094 (Docker-Assignment-1)

PublicIPs: 34.204.11.173 PrivateIPs: 172.30.0.75

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs CloudShell Feedback

Instances (1/2) Info Find Instance by attribute or tag (case-sensitive) All states Instance state = running Clear filters

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DNS | Public IPv4 ... | Elastic |
|---------------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|-------------------------|-----------------|---------|
| Docker-Assignment-3 | i-099094d52c6a0e1bc | Running | t2.micro | Initializing | View alarms | us-east-1d | ec2-54-91-230-93.com... | 54.91.230.93 | - |
| Docker-Assignment-1 | i-064e032cd8d28e094 | Running | t2.micro | 2/2 checks passed | View alarms | us-east-1a | ec2-34-204-11-173.co... | 34.204.11.173 | - |

i-064e032cd8d28e094 (Docker-Assignment-1)

| IAM Role | Owner ID | Launch time |
|----------|--------------|---|
| - | 866650389532 | Mon Jul 15 2024 21:09:06 GMT+0530 (India Standard Time) |

Security groups

sg-026b43bca97ea9339 (launch-wizard-21)

Inbound rules

| Name | Security group rule ID | Port range | Protocol | Source | Security groups | Description |
|------|------------------------|------------|----------|-----------|------------------|-------------|
| - | sgr-00752f7e2b1456a3b | 22 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-043050108afdf99a2f | 81 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-01a7a7eafcdf99dd4 | 443 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-0a129e68c2fb56dce | 82 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |
| - | sgr-020b85230f1f172cd | 80 | TCP | 0.0.0.0/0 | launch-wizard-21 | - |

Outbound rules

| Name | Security group rule ID | Port range | Protocol | Source | Security groups | Description |
|------|------------------------|------------|----------|--------|-----------------|-------------|
|------|------------------------|------------|----------|--------|-----------------|-------------|

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EC2 RDS IAM

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EC2 > Security Groups > sg-026b43bca97ea9339 - launch-wizard-21

sg-026b43bca97ea9339 - launch-wizard-21

Actions ▾

Details

| | | | | | | | |
|---------------------|------------------|---------------------|----------------------|----------------------|---|--------|-----------------------|
| Security group name | launch-wizard-21 | Security group ID | sg-026b43bca97ea9339 | Description | launch-wizard-21 created 2024-07-10T16:22:27.841Z | VPC ID | vpc-020050eeb89f650ee |
| Owner | 866650389532 | Inbound rules count | 6 Permission entries | Outbound rules count | 1 Permission entry | | |

Inbound rules Outbound rules Tags

Inbound rules (6)

| <input type="checkbox"/> | Name | Security group rule... | IP version | Type | Protocol | Port range | Source | Description |
|--------------------------|------|------------------------|------------|------------|----------|------------|-----------|-------------|
| <input type="checkbox"/> | - | sgr-00752f7e2b1456a3b | IPv4 | SSH | TCP | 22 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-043050108afdf99a2f | IPv4 | Custom TCP | TCP | 81 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-09b662ec1c7998aa3 | IPv4 | Custom TCP | TCP | 8080 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-01a7a7eafcdf99dd4 | IPv4 | HTTPS | TCP | 443 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-0a129e68c2fb56dce | IPv4 | Custom TCP | TCP | 82 | 0.0.0.0/0 | - |

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Services

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EC2 RDS IAM

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

Inbound rules Info

Security group rule ID

Type InfoProtocol InfoPort range InfoSource InfoDescription - optional Info

sgr-00752f7e2b1456a3b

SSH

TCP

22

Custom

0.0.0.0/0 X

Delete

sgr-043050108af9d99a2f

Custom TCP

TCP

81

Custom

0.0.0.0/0 X

Delete

sgr-09b662ec1c7998aa3

Custom TCP

TCP

8080

Custom

0.0.0.0/0 X

Delete

sgr-01a7a7eafcfd99dd4

HTTPS

TCP

443

Custom

0.0.0.0/0 X

Delete

sgr-0a129e68c2fb56dce

Custom TCP

TCP

82

Custom

0.0.0.0/0 X

Delete

sgr-020b85230f1f172cd

HTTP

TCP

80

Custom

0.0.0.0/0 X

Delete

-

Custom TCP

TCP

83

Anywhere-locally

0.0.0.0/0 X

Delete

Add rule

Cancel

Preview changes

Save rules

AWS Services Search [Alt+S] N. Virginia Intellipaat-Swapnil

EC2 RDS IAM

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Details

| | | | |
|---------------------|----------------------|----------------------|----------------------|
| Security group name | sg-026b43bca97ea9339 | Description | VPC ID |
| Owner | 866650389532 | Inbound rules count | 7 Permission entries |
| | | Outbound rules count | 1 Permission entry |

Inbound rules Outbound rules Tags

Inbound rules (7)

| <input type="checkbox"/> | Name | Security group rule... | IP version | Type | Protocol | Port range | Source | Description |
|--------------------------|------|------------------------|------------|------------|----------|------------|-----------|-------------|
| <input type="checkbox"/> | - | sgr-00752f7e2b1456a3b | IPv4 | SSH | TCP | 22 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-043050108af99a2f | IPv4 | Custom TCP | TCP | 81 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-09b662ec1c7998aa3 | IPv4 | Custom TCP | TCP | 8080 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-01a7a7eafcdf99dd4 | IPv4 | HTTPS | TCP | 443 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-0a129e68c2fb56dce | IPv4 | Custom TCP | TCP | 82 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-020b85230f1f172cd | IPv4 | HTTP | TCP | 80 | 0.0.0.0/0 | - |
| <input type="checkbox"/> | - | sgr-03471dfeed2aa1257 | IPv4 | Custom TCP | TCP | 83 | 0.0.0.0/0 | - |

Hello All, This this my Assignment5 Sample file Thanks

```
1 sudo apt update -y
2 sudo apt install docker.io -y
3 sudo docker pull ubuntu
4 sudo docker images
5 sudo docker run
6 sudo docker run -itd -p 80:80 ubuntu
7 sudo docker ps
8 sudo docker exec -it d78962d10c6e bash
9 sudo docker ps
10 history
11 sudo docker ps
12 sudo docker commit images
13 sudo docker images
14 sudo docker commit 35a88802559d assignment2img
15 sudo docker commit d78962d10c6e assignment2img
16 +
17 sudo docker images
18 sudo docker run -itd -p 81:80 assignment2img
19 sudo docker ps
20 sudo docker exec -it 338cf311b688 bash
21 sudo docker images
22 sudo docker login
23 sudo docker tag assignment2ing aheadas/assignment3-imgs
24 sudo docker tag assignment2img aheadas/assignment3-imgs
25 sudo docker images
26 sudo docker push aheadas/assignment3-imgs
27 clear
28 sudo nano Dockerfile
29 ls
30 sudo docker build . -t assignment4
31 sudo docker images
32 sudo docker run -itd -p 8080:80 assignment4
33 cat D
34 cat Dockerfile
35 cat Dockerfile
```

```
36 clear
37 sudo nano index.html
38 cat index.html
39 ls
40 sudo nano Dockerfile
41 cat Dockerfile
42 Clear
43 clear
44 sudo docker build . -t Assignment5
45 sudo docker build . -t assignment5
46 sudo docker images
47 sudo docker run -itd -p 83:80 assignment5
48 history
```

Assignment 5

```
clear
41 sudo nano index.html
42 cat index.html
43 ls
44 sudo nano Dockerfile
45 cat D
46 cat Dockerfile
47 clea
48 clear
49 sudo docker build . -t a5
50 sudo docker images
51 sudo docker run -itd -p 83:80 a5
---- Dockerfile ----
FROM ubuntu
RUN apt update
RUN apt install apache2 -y
ADD . /var/www/html/
ENTRYPOINT apachectl -D FOREGROUND
```