

FlutterFlutterMetaVoice 8Agora.iInbox (MianArCoderbMeMy ClaWorkbInst xAssignAssign+ -

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances: ☆IQfbWhatsAppGoogle+ -

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<input type="checkbox"/>	-	i-096e2751e6eb92c61	Terminated	t2.nano	-	1 alarms +	us-east-1b
<input checked="" type="checkbox"/>	assign2	i-0a8033bc32656d259	Running	t2.micro	Initializing	1/1 has +	us-east-1c

Instance: i-0a8033bc32656d259 (assign2)

DetailsSecurityNetworkingStorageStatus checksMonitoringTags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
<div>i-0a8033bc32656d259 (assign2)</div>	<div>34.226.208.234 open address</div>	<div>172.31.22.161</div>
Instance state	Public IPv4 DNS	Private IPv4 DNS
<div>Running</div>	<div>ec2-34-226-208-234.compute-</div>	<div>ip-172-31-22-161.ec2.internal</div>

FeedbackEnglish (US) ▾

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Name

Instance ID

assign2

i-096e

i-0a8033bc32656d259

Details

Security

Instance summary

Instance ID

i-0a8033bc32656d259 (assign2)

Instance state

Running

Public IPv4 address

34.226.208.234

Public IPv4 DNS

ec2-34-226-208-234.compute-1.amazonaws.com

Private IPv4 addresses

172.31.22.161

Private IPv4 DNS

ip-172-31-22-161.ec2.internal

state

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Alarm status

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Initializing

1 alarms

us-east-1b

us-east-1c

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172.31.22.161

Private IPv4 DNS

ip-172-31-22-161.ec2.internal

PuTTY Configuration

Category:

Session

Terminal

Keyboard

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Features

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Selection

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Connection

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Proxy

Telnet

Rlogin

SSH

Kex

Host keys

Cipher

Auth

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address)

34.226.208.234

Port

22

Connection type:

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Telnet

Rlogin

SSH

Serial

Load, save or delete a stored session

Saved Sessions

Default Settings

Load

Save

Delete

Close window on exit:

Always

Never

Only on clean exit

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AMIs

Usage of /: 16.3% of 7.69GB

Users logged in: 0

Memory usage: 22%

IPv4 address for eth0: 172.31.22.161

Swap usage: 0%

1 update can be installed immediately.

0 of these updates are security updates.

To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.

To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;

the exact distribution terms for each program are described in the

individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by

applicable law.

To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

ubuntu@ip-172-31-22-161:~\$

type▼Status checkAlarm statusAvailability Zone▼

-

🟢 1 alarms +

us-east-1b

🕒 Initializing

🕒 1/1 has 1 +

us-east-1c

MonitoringTags

Private IPv4 addresses

📄 172.31.22.161

Private IPv4 DNS

📄 ip-172-31-22-161.ec2.internal

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👤^🔌🔊📶🔌📶🔌📶🔌📶12:16 PM

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Open-source projects

install Docker.

Install using the repository

Before you install Docker Engine for the repository. Afterward, you can install and

SET UP THE REPOSITORY

1. Update the apt package index and

```
$ sudo apt-get update
```

```
$ sudo apt-get install \
  apt-transport-https \
  ca-certificates \
  curl \
  gnupg \
  lsb-release
```

2. Add Docker's official GPG key:

```
$ curl -fsSL https://download
```

3. Use the following command to set up the stable repository. To add the nightly or test repository, add the

[Install using the convenience script](#)

ubuntu@ip-172-31-22-161: ~

```
lsb-release set to manually installed.
ca-certificates is already the newest version (20210119~20.04.1).
ca-certificates set to manually installed.
gnupg is already the newest version (2.2.19-3ubuntu2.1).
gnupg set to manually installed.
The following additional packages will be installed:
  libcurl4
The following NEW packages will be installed:
  apt-transport-https
The following packages will be upgraded:
  curl libcurl4
2 upgraded, 1 newly installed, 0 to remove and 61 not upgraded.
Need to get 397 kB of archives.
After this operation, 161 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 apt-transport-https all 2.0.5 [1704 B]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 curl amd64 7.68.0-1ubuntu2.5 [161 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libcurl4 amd64 7.68.0-1ubuntu2.5 [234 kB]
Fetched 397 kB in 0s (13.9 MB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 60092 files and directories currently installed.)
Preparing to unpack .../apt-transport-https_2.0.5_all.deb ...
Unpacking apt-transport-https (2.0.5) ...
Preparing to unpack .../curl_7.68.0-1ubuntu2.5_amd64.deb ...
Unpacking curl (7.68.0-1ubuntu2.5) over (7.68.0-1ubuntu2.4) ...
Preparing to unpack .../libcurl4_7.68.0-1ubuntu2.5_amd64.deb ...
Unpacking libcurl4:amd64 (7.68.0-1ubuntu2.5) over (7.68.0-1ubuntu2.4) ...
Setting up apt-transport-https (2.0.5) ...
Setting up libcurl4:amd64 (7.68.0-1ubuntu2.5) ...
Setting up curl (7.68.0-1ubuntu2.5) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
ubuntu@ip-172-31-22-161:~$
```

```
ubuntu@ip-172-31-22-161: ~  
ubuntu@ip-172-31-22-161:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg  
ubuntu@ip-172-31-22-161:~$
```



```

ubuntu@ip-172-31-22-161: ~
ubuntu@ip-172-31-22-161:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gp
ubuntu@ip-172-31-22-161:~$ echo "deb [arch=amd64 signed-by=/usr/share/keyrings/docker
-archive-keyring.gpg] https://download.docker.com/linux/ubuntu $(lsb_release -cs) sta
ble" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
ubuntu@ip-172-31-22-161:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Get:5 https://download.docker.com/linux/ubuntu focal InRelease [36.2 kB]
Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [9166 B]
Fetched 45.3 kB in 0s (111 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-22-161:~$ sudo apt-get install docker-ce docker-ce-cli containerd.io
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  docker-ce-rootless-extras docker-scan-plugin pigz slirp4netns
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite
The following NEW packages will be installed:
  containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras
  docker-scan-plugin pigz slirp4netns
0 upgraded, 7 newly installed, 0 to remove and 61 not upgraded.
Need to get 108 MB of archives.
After this operation, 465 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
  
```

1. Update the `apt` package index, and install the *latest version* of Docker Engine and containerd, or go to the next step to install a specific version:

```

$ sudo apt-get update
$ sudo apt-get install docker-ce docker-ce-cli containerd.io
  
```

Got multiple Docker repositories?

If you have multiple Docker repositories enabled, installing or updating without specifying a version in

Samples

u might need to change
 or example, if you are using
 ot offer any guarantees on untested and

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ubuntu@ip-172-31-22-161: ~

```
ubuntu@ip-172-31-22-161:~$ sudo service docker status
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: ena
   Active: active (running) since Sat 2021-04-24 07:38:23 UTC; 3min 45s ago
   TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
    Main PID: 14127 (dockerd)
       Tasks: 8
      Memory: 52.7M
     CGroup: /system.slice/docker.service
             └─14127 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containe

Apr 24 07:38:23 ip-172-31-22-161 dockerd[14127]: time="2021-04-24T07:38:23.259693324
Apr 24 07:38:23 ip-172-31-22-161 dockerd[14127]: time="2021-04-24T07:38:23.259834810
Apr 24 07:38:23 ip-172-31-22-161 dockerd[14127]: time="2021-04-24T07:38:23.259964915
Apr 24 07:38:23 ip-172-31-22-161 dockerd[14127]: time="2021-04-24T07:38:23.260274909
Apr 24 07:38:23 ip-172-31-22-161 dockerd[14127]: time="2021-04-24T07:38:23.455667175
Apr 24 07:38:23 ip-172-31-22-161 dockerd[14127]: time="2021-04-24T07:38:23.557192915
Apr 24 07:38:23 ip-172-31-22-161 dockerd[14127]: time="2021-04-24T07:38:23.648562462
Apr 24 07:38:23 ip-172-31-22-161 dockerd[14127]: time="2021-04-24T07:38:23.648872395
Apr 24 07:38:23 ip-172-31-22-161 systemd[1]: Started Docker Application Container En
Apr 24 07:38:23 ip-172-31-22-161 dockerd[14127]: time="2021-04-24T07:38:23.698804443
lines 1-21/21 (END)
```

papers

Newspapers

Flutter

YouTube Video Do...

check

graphic

ance

Samples

nerd.io

or updating without specifying a version in

s installs the highest possible version,

versions in the repo, then select and install:

ownload.docker.com/linux/ubuntu xenial/stat

ownload.docker.com/linux/ubuntu xenial/stat

ownload.docker.com/linux/ubuntu xenial/stat

ownload.docker.com/linux/ubuntu xenial/stat

cond column, for example,

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```
sudo docker pull mongo
```

The image indicates that the system used the **latest** tag by default.

```
[phoenixnap@localhost ~]$ sudo docker pull mongo
Using default tag: latest
Trying to pull repository docker.io/library/mongo .
latest: Pulling from docker.io/library/mongo
5c939e3a4d10: Pull complete
c63719cdbc7a: Pull complete
19a861ea6baf: Pull complete
651c9d2d6c4f: Pull complete
85155c6d5fac: Pull complete
85fb0780fd97: Pull complete
85b3b1a901f5: Pull complete
6a882e007bb6: Pull complete
f7806503a70f: Pull complete
e23d5068c270: Pull complete
56eb708963d7: Pull complete
fc4def32f081: Pull complete
ealdc19faea9: Pull complete
Digest: sha256:631a948707a5c97a8f08769735970ea997f0e
Status: Downloaded newer image for docker.io/mongo:latest
```

```
ubuntu@ip-172-31-22-161: ~
ubuntu@ip-172-31-22-161:~$ sudo docker container ls --all
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
ubuntu@ip-172-31-22-161:~$ sudo docker pull mongo
Using default tag: latest
latest: Pulling from library/mongo
01bf7da0a88c: Pull complete
f3b4a5f15c7a: Pull complete
57ffbe87baa1: Pull complete
77d5e5c7eab9: Pull complete
43798cf18b45: Pull complete
67349a81f435: Pull complete
590845b1f17c: Pull complete
1f2ff17242ce: Pull complete
6dbb95eaa278: Pull complete
8a4bcdlee7fd: Pull complete
7764c187eb16: Pull complete
033c9674527a: Pull complete
Digest: sha256:64be89e169fc33f3fa140c2c548186be4acd972bd7174344505fc5630dcf707c
Status: Downloaded newer image for mongo:latest
docker.io/library/mongo:latest
ubuntu@ip-172-31-22-161:~$
```

To download a specific version of MongoDB, use the same command appended with the version tag. For example:

ORDER NOW

Deploy MongoDB Container

By default, MongoDB stores data in the **/data/db** directory within the container. This directory is mapped from the underlying host system to the container running on your host system and is not going to be erased if a container is deleted.

1. Create a **/mongodata** directory on the host system:

```
sudo mkdir -p /mongodata
```

2. Start the Docker container with the **run** command using the **mongo** image. The **/mongodata** directory is mounted as **/data/db** on the host. Additionally, this command runs the **mongod** process:

```
sudo docker run -it -v mongodata:/data/db --name mongodb -d mongo
```

-it – Provides an interactive shell to the Docker container.

```
ubuntu@ip-172-31-22-161: ~  
ubuntu@ip-172-31-22-161:~$ sudo docker run -it -v assign2:/data/db --name mongo -d mongo  
c9884a4d3b7deadd5aa71a5956a12e562f6bc108389238be4e13ddf92a136c4  
ubuntu@ip-172-31-22-161:~$
```

```
[phoenixnap@localhost ~]$ sudo docker run -t -i -v /data:/mongodata --name mongodb -d mongo
```

CONTAINER ID	IMAGE	COMMAND
ATUS	PORTS	NAMES
019b626344de	mongo	"docker-ent
54 seconds	27017/tcp	mongodb

4. Optionally you can specify the MongoDB port explicitly:

```
sudo docker run -it -v mongodata:/data/db -p 27017:27017 mongo
```

5. Always check the Docker log to see the chain of events after making

```
sudo docker logs mongodb
```

The logs provide a wealth of useful information.

```
[phoenixnap@localhost ~]$ sudo docker logs mongodb
2020-01-21T13:34:33.706+0000 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'
2020-01-21T13:34:33.715+0000 I CONTROL [initandlisten] MongoDB starting : pid=1 port=27017 dbpath=/data/db 64-bit host=019b626344de
2020-01-21T13:34:33.715+0000 I CONTROL [initandlisten] db version v4.2.2
2020-01-21T13:34:33.715+0000 I CONTROL [initandlisten] git version: a0bbbff6ada159e19298d37946ac8dc4b497eadf
2020-01-21T13:34:33.715+0000 I CONTROL [initandlisten] OpenSSL version: OpenSSL 1.1.1 11 Sep 2018
```

ubuntu@ip-172-31-22-161: ~

```
ubuntu@ip-172-31-22-161:~$ sudo docker run -it -v assign2:/data/db --name mongo -d mongo
c9884a4d3b7deadd5aa71a5956a12e562f6bc108389238be4e13ddf92a136c4
ubuntu@ip-172-31-22-161:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED          STATUS          PORTS
c9884a4d3b7d   mongo    "docker-entrypoint.s..." 41 seconds ago   Up 40 seconds   27017/tcp
ubuntu@ip-172-31-22-161:~$ sudo docker logs mongodb
Error: No such container: mongodb
ubuntu@ip-172-31-22-161:~$ sudo docker logs mongo
{"t":{"$date":"2021-04-24T07:57:25.820+00:00"},"s":"I", "c":"CONTROL", "id":23285, "ctx":"main","msg":"Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'"}
```

ORDER NOW



1. The container is currently running in **detached mode**. Connect to it instead:

```
sudo docker exec -it mongodb bash
```

2. Start the MongoDB shell by typing **mongo** in the interactive terminal:

```
[phoenixnap@localhost ~]$ sudo docker exec -it mongodb bash
root@019b626344de:/# mongo
```

The MongoDB shell launches and the prompt is ready to accept your commands.

3. Instead of just typing **mongo**, you can additionally define a specific host and port:

```
mongo -host localhost -port 27017
```

With the MongoDB shell, you can now create a database, add collections or manage individual documents.

How to Exit MongoDB and Interactive Shell

```
root@c9884a4d3b7d: /
ubuntu@ip-172-31-22-161:~$ sudo dokcer exec -it mongo bash
sudo: dokcer: command not found
ubuntu@ip-172-31-22-161:~$ sudo dokcer exec -it mongodb bash
sudo: dokcer: command not found
ubuntu@ip-172-31-22-161:~$ sudo docker exec -it mongodb bash
Error: No such container: mongodb
ubuntu@ip-172-31-22-161:~$ sudo docker exec -it mongo bash
root@c9884a4d3b7d:/# mongo
MongoDB shell version v4.4.5
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("84fd6084-f00e-420e-b02b-270cb4f42f6b") }
MongoDB server version: 4.4.5
Welcome to the MongoDB shell.
For interactive help, type "help".
For more comprehensive documentation, see
https://docs.mongodb.com/
Questions? Try the MongoDB Developer Community Forums
https://community.mongodb.com
----
The server generated these startup warnings when booting:
  2021-04-24T07:57:25.879+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
  2021-04-24T07:57:26.647+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
  ----
  Enable MongoDB's free cloud-based monitoring service, which will then receive
```

CS 460: Cloud Computing
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Assignment 02 Instructions

Assignment 2

The objective of this assignment is to launch a MongoDB (NoSQL database) the

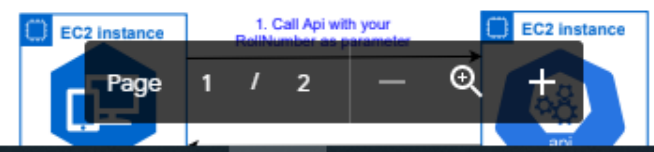
Milestone 01: Launch a

Launch an EC2 nano instance a
mongo ([Link](#)) for the container.
container. The "QuotesDB" will
following sample document/recon

```
1 {  
2   "Author": "Henry David Thoreau",  
3   "Category": "arts",  
4   "Popularity": 0.00337500297,  
5   "Quote": "This world is but a canvas to our imagination."  
6 }
```

This milestone's deliverable is to provide a screenshot highlighting your MongoDB container instance running inside the EC2.

```
root@c9884a4d3b7d: /  
.  
Read and write access to data and configuration is unrestricted  
---  
---  
Enable MongoDB's free cloud-based monitoring service, which will then receive  
and display  
metrics about your deployment (disk utilization, CPU, operation statistics, e  
tc).  
  
The monitoring data will be available on a MongoDB website with a unique URL  
accessible to you  
and anyone you share the URL with. MongoDB may use this information to make p  
roduct  
improvements and to suggest MongoDB products and deployment options to you.  
  
To enable free monitoring, run the following command: db.enableFreeMonitoring  
( )  
To permanently disable this reminder, run the following command: db.disableFr  
eeMonitoring()  
---  
> show dbs  
admin 0.000GB  
config 0.000GB  
local 0.000GB  
> use quotesdb  
switched to db quotesdb  
> db.quotesdata.insert({ "Author": "Henry David Thoreau", "Category" : "arts", "Popul  
arity": 0.00337500297, "Quote": "This world is but a canvas to our imagination." })  
WriteResult({ "nInserted" : 1 })  
>
```



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Assignment 02 Instructions

Assignment 2

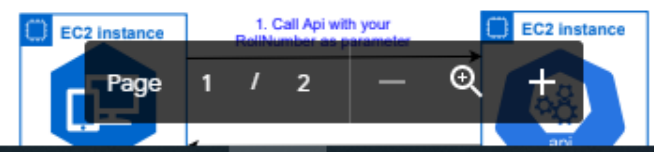
The objective of this assignment is to set up a MongoDB (NoSQL database) on an EC2 instance.

Milestone 01: Launch a MongoDB container on an EC2 instance

Launch an EC2 nano instance and attach a mongo container. The "QuotesDB" will be created in the container. The following sample document/recommendation is provided for your reference.

```
1 {
2   "Author": "Henry David Thoreau",
3   "Category": "arts",
4   "Popularity": 0.00337500297,
5   "Quote": "This world is but a canvas to our imagination."
6 }
```

This milestone's deliverable is to provide a screenshot highlighting your MongoDB container instance running inside the EC2.



```
root@c9884a4d3b7d: /
and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()

To permanently disable this reminder, run the following command: db.disableFreeMonitoring()

---
> show dbs
admin 0.000GB
config 0.000GB
local 0.000GB
> use quotesdb
switched to db quotesdb
> db.quotesdata.insert({ "Author": "Henry David Thoreau", "Category": "arts", "Popularity": 0.00337500297, "Quote": "This world is but a canvas to our imagination." })
WriteResult({ "nInserted" : 1 })
> db.quotesdata.find({"Category": "arts"})
{ "_id" : ObjectId("6083d300f765908b8904bc2a"), "Author" : "Henry David Thoreau", "Category" : "arts", "Popularity" : 0.00337500297, "Quote" : "This world is but a canvas to our imagination." }
```