Docker-TIO-v1.0

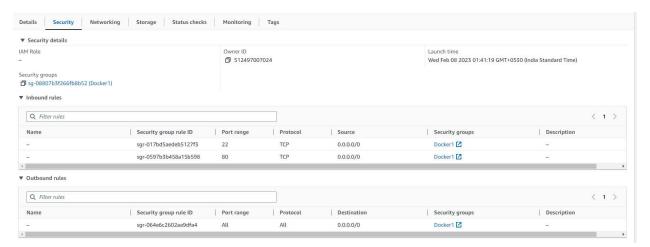
Launch an Instance



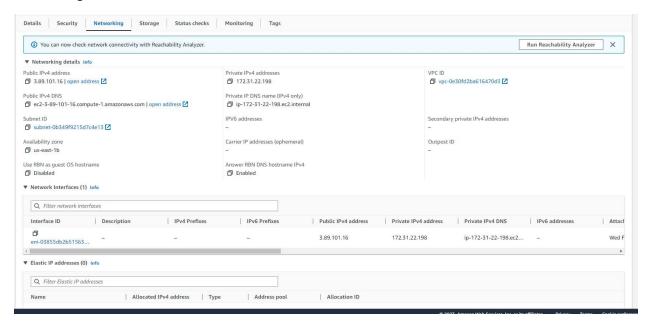
Instance Summary



Security:



Networking:



Installation of Docker

```
Amburta@p.173-31-22-180-3

Martin@p.773-31-22-180-3

Muntu@p.773-31-22-180-3

Muntu@p.773-31-22-180-3

Muntu@p.773-31-22-180-3

Muntu@p.773-31-22-180-3

Muntu@p.773-31-22-180-3

Mutp://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-pdates infelease [104 kB]

Get:2 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-pdates infelease [108 kB]

Get:3 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-pdates infelease [108 kB]

Get:6 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-pdates infelease [108 kB]

Get:6 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal/universe amd64 Rackages [8628 kB]

Get:6 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [8638 kB]

Get:10 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [814 kB]

Get:10 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [814 kB]

Get:11 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [814 kB]

Get:11 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-updates/main ransiation-en [805 kB]

Get:13 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-updates/main ransiation-en [805 kB]

Get:16 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-updates/main ransiation-en [805 kB]

Get:16 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-updates/main ransiation-en [807 kB]

Get:17 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-updates/mainturese amd64 Packages [806 kB]

Get:18 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-updates/muiverse amd64 c-n-f Metadata [800 kB]

Get:19 http://us-east-1.ec/.archive.ubuntu.com/ubuntu focal-updates/muiverse amd64 c-n-f Metadata [806 kB]

Get:19 http://us-east-1.ec/.archive.ubuntu.com/ubuntu foc
```

Docker Version:

```
🧬 ubuntu@ip-172-31-22-198: ~
ubuntu@ip-172-31-22-198:~$
ubuntu@ip-172-31-22-198:~$
ubuntu@ip-172-31-22-198:~$
ubuntu@ip-172-31-22-198:~$
ubuntu@ip-172-31-22-198:~$
ubuntu@ip-172-31-22-198:~$
ubuntu@ip-172-31-22-198:~$ sudo docker version
Client:
 API version:
                         1.41
                         gol.16.2
                         20.10.12-Oubuntu2~20.04.1
 Built:
                         Wed Apr 6 02:14:38 2022
 OS/Arch:
                         linux/amd64
                         default
 Experimental:
 erver:
                         1.41 (minimum version 1.12) gol.16.2
  API version:
  Go version:
                         20.10.12-Oubuntu2~20.04.1
  Git commit:
  Built:
                         Thu Feb 10 15:03:35 2022
  OS/Arch:
                         linux/amd64
  Experimental:
                         1.5.9-Oubuntu1-20.04.6
  GitCommit:
                         1.1.0-Oubuntu1~20.04.2
  GitCommit:
 docker-init:
  GitCommit:
ubuntu@ip-172-31-22-198:~$
```

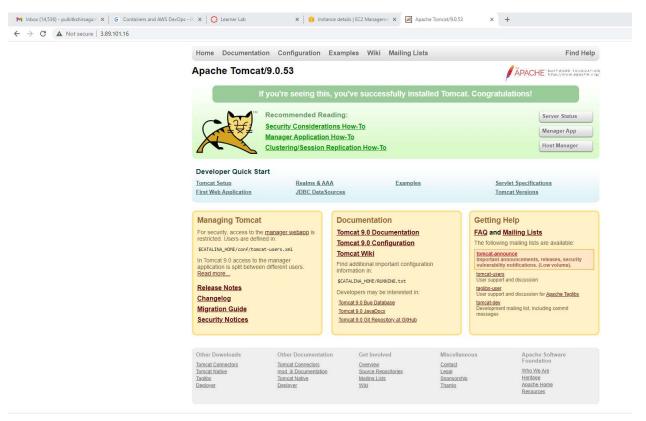
```
∠
ubuntu@ip-172-31-22-198: ~

                                                                                                                                                                                                                                                                                                                                               П
                                                                                                                                                                                                                                                                                                                                                                   X
  New release '22.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
                 release
  ubuntu@ip-172-31-22-198:~$
ubuntu@ip-172-31-22-198:~$
   ubuntu@ip-172-31-22-198:~$ docker version
     API version:
                                                                      go1.16.2
20.10.12-Oubuntu2~20.04.1
      Go version:
                                                                     Wed Apr 6 02:14:38 2022
linux/amd64
     OS/Arch:
     erver:
     Engine:
                                                                      20.10.12
                                                                     1.41 (minimum version 1.12)
gol.16.2
20.10.12-Oubuntu2~20.04.1
        API version:
        Go version:
        Git commit:
        Built:
                                                                      Thu Feb 10 15:03:35 2022
        OS/Arch:
                                                                      linux/amd64
        Experimental:
                                                                      1.5.9-Oubuntu1-20.04.6
        Version:
        GitCommit:
                                                                      1.1.0-Oubuntu1~20.04.2
        GitCommit:
       buntu@ip-172-31-22-198:~$
ubuntu@ip-172-31-22-198:~$
ubuntu@ip-172-31-22-198:~$ cd /opt
ubuntu@ip-172-31-22-198:/opt$
ubun
  Hello World
ubuntu@ip-172-31-22-198:/opt$ wget https://d6opu47goi4ee.cloudfront.net/project-container/Dockerfile
  --2023-02-07 20:31:25-- https://d6opu47qoi4ee.cloudfront.net/project-container/Dockerfile
Resolving d6opu47qoi4ee.cloudfront.net (d6opu47qoi4ee.cloudfront.net)... 108.138.61.18, 108.138.61.60, 10
    onnecting to d6opu47qoi4ee.cloudfront.net (d6opu47qoi4ee.cloudfront.net)|108.138.61.18|:443... connected
 HTTP request sent, awaiting response... 200 OK
Length: 813 [binary/octet-stream]
Saving to: 'Dockerfile'
  2023-02-07 20:31:25 (125 MB/s) - 'Dockerfile' saved [813/813]
  ubuntu@ip-172-31-22-198:/opt$
```

```
ubuntu8jp-172-31-22-1981/opt3 docker run -d -p 80:8080 helloworld
b8ib4f576f5p339271a0eai/opt3 docker run -d -p 80:8080 helloworld
b8ib4f576f5p339271a0eai/opt3
ubuntu8ip-172-31-22-198:/opt5
ubuntu8ip-172-31-22-198:/opt5
ubuntu8ip-172-31-22-198:/opt5
docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
b8ib4f576f0h helloworld "/opt/tomcat/bin/cat..." 15 seconds ago Up 15 seconds 0.0.0.0:80->8080/tcp, :::80->8080/tcp jolly_benz
ubuntu8ip-172-31-22-198:/opt5
ubuntu8ip-172-31-22-198:/opt5
ubuntu8ip-172-31-22-198:/opt5
ubuntu8ip-172-31-22-198:/opt5
```

```
ubmutulp-172-31-22-198/opts docker run -d -p 80:8808 helloworld bild($73675)32710aebhild($72751275)122-198/opts docker run -d -p 80:8808 helloworld bild($73675) 1-22-198/opts docker run -d -p 80:8808 helloworld bild($73675) 1-22-198/opts docker run -d -p 80:8808 bild($73675) 1-22-198/opts docker run -d -p 80:8808 bild($73675) helloworld "opty-(komeat/bin/cat." 15 seconds ago Up 15 seconds 0.0.0.0:80->8080/tcp, :::80->8080/tcp jolly_benz docker run -d -p 80:8808 bild($73675) helloworld "opty-(komeat/bin/cat." 15 seconds ago Up 15 seconds 0.0.0.0:80->8080/tcp, :::80->8080/tcp jolly_benz docker run -d -p 80:8808 bild($73675) helloworld "opty-(komeat/bin/cat." 15 seconds ago Up 15 seconds 0.0.0.0:80->8080/tcp, :::80->8080/tcp jolly_benz docker run -d -p 80:8808 bild($73675) helloworld "opty-(komeat/bin/cat." 15 seconds ago Up 15 seconds 0.0.0.0:80->8080/tcp, :::80->8080/tcp jolly_benz docker run -d -p 80:8808 bild($73675) helloworld "opty-(komeat/bin/cat." 15 seconds ago Up 15 seconds 0.0.0.0:80->8080/tcp, :::80->8080/tcp jolly_benz docker run -d -p 80:8808 bild($73675) helloworld "opty-(komeat/bin/cat." 15 seconds ago Up 15 seconds 0.0.0.0:80->8080/tcp, :::80->8080/tcp jolly_benz docker run -d -p 80:8808 bild($73675) helloworld "opty-(komeat/bin/cat." 15 seconds 0.0.0.0:8080/tcp, :::80->8080/tcp, :::80->8080/tcp,
```

Hit the public IP address of the running instance on a new web browser tab to see the Apache Tomcat web page.



Stop the running container and remove it;

```
ubuntu@ip-172-31-22-198:/opt$
ubuntu@ip-172-31-22-198:/opt$ docker stop b81
b81
ubuntu@ip-172-31-22-198:/opt$
ubuntu@ip-172-31-22-198:/opt$ docker rm b81b4f57d67b
b81b4f57d67b
ubuntu@ip-172-31-22-198:/opt$
ubuntu@ip-172-31-22-198:/opt$
ubuntu@ip-172-31-22-198:/opt$
ubuntu@ip-172-31-22-198:/opt$
ubuntu@ip-172-31-22-198:/opt$
ubuntu@ip-172-31-22-198:/opt$
```

Shell In A Box (Advanced)

Pulling the debian OS image.

Start and exec in the container (siab = shell in a box) by entering the following 3 Commands

Now, create the user guest & update/install dependencies in the bash.

```
Concestionable Sodar: // apt update

Get:1 http://dob.debian.org/debian bullseye InRelease [116 kB]

Get:2 http://dob.debian.org/debian bullseye-updates InRelease [48.4 kB]

Get:3 http://dob.debian.org/debian bullseye-updates InRelease [48.1 kB]

Get:4 http://dob.debian.org/debian bullseye-updates InRelease [48.1 kB]

Get:5 http://dob.debian.org/debian bullseye-updates InRelease [48.2 kB]

Get:5 http://dob.debian.org/debian bullseye-updates InRelease [48.4 kB]

Get:5 http://dob.debian.org/debian bullseye-updates/main amd64 Packages [322 kB]

Get:6 http://dob.debian.org/debian bullseye-updates/main amd64 Packages [48.6 kB]

Fetched 8628 kB in 2s (5509 kB/s)

Reading package Information. Done

Bulling spee Information of guest

Adding new user 'guest' (1000) ...

Adding new user 'guest' (1000) with group 'guest' ...

Copying files from '/etc/skel' ...

New password:

Retype new password:

Retype new password:

Retype new password:

Retype new value, or press ENTER for the default

Full Name []: Pulkit Exhirsagar

Room Number []: 908 7654321

Other []: 908 7654321

Foot85f60adb50dca:// exit

Foot85f60adb50dca:// exit

Exit exit

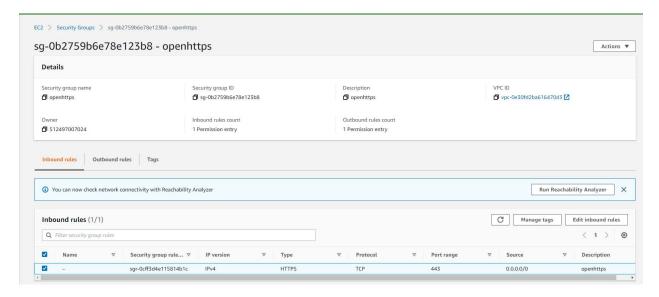
Evil Ununtwifup 172-31-22-199:/opt/siabs []

Bulling speed in the state of the s
```

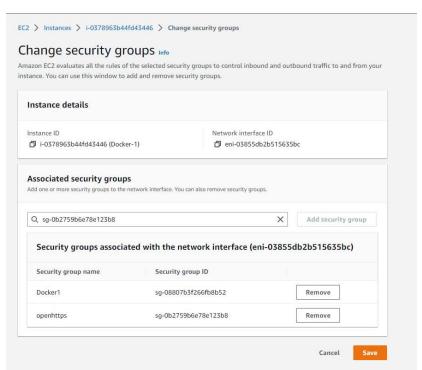
The below 3 commands will create the Base image. Please enter your name in the Author Placeholder.

```
ubuntu@ip-172-31-22-198:/opt/siab$ docker stop siabdebian
siabdebian
ubuntu@ip-172-31-22-198:/opt/siab$ docker commit -m "Debian with guest user" -a "[Author]" siabdebian debian-siab-base:vl
sha256:86c200b63e12c69fdabfa7338e3e499d2f607c9b973f08c0a908764034ff4954
ubuntu@ip-172-31-22-198:/opt/siab$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
debian-siab-base vl 86c200b63e12 10 seconds ago 124MB
helloworld latest 391cc26aa21c 20 minutes ago 710MB
debian latest 20473158e8b3 3 days ago 124MB
busybox latest 66ba00ad3de8 4 weeks ago 4.87ME
openjdk 11 47a932d9987 6 months ago 654MB
ubuntu@ip-172-31-22-198:/opt/siab$
```

Create a security group and open port 443 for the https protocol set to Anywhere. Attach the security group to the ec2 instance. To perform this, follow the below Instructions



Add Security group in the EC2 Instance



Build and run the image as follows

```
🧬 ubuntu@ip-172-31-22-198: /opt/siab
                                                                                                                                                                                                                                                                                                                                                                              f SIABDockerfile -t siab
         Sending build context to Docker daemon
Step 1/4 : FROM debian-siab-base:vl
                                                                                                                                                                                                                                                                                                           3.584kB
    ---> 86c200b63e12
Step 2/4: MAINTAINER Nirmallya Mukherjee @ Pointer-Next.com
---> Running in 6b9f96af38e5
Removing intermediate container 6b9f96af38e5
---> 333707b05548
Step 3/4: RUN apt install -y curl vim && apt install -y openssl shellinabox
---> Running in 7c0d57a0ecd3
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
ca-certificates libbrotlil libcurl4 libgpm2 libldap-2.4-2 libldap-common
libnghttp2-14 libps15 librtmp1 libsas12-2 libsas12-modules
libsas12-modules-db libssh2-1 openssl publicsuffix vim-common vim-runtime
xxd
            xxu
uggested packages:
gpm libsasl2-modules-gssapi-mit | libsasl2-modules-gssapi-heimdal
libsasl2-modules-ldap libsasl2-modules-otp libsasl2-modules-sql ctags
vim-doc vim-scripts
         the following NEW packages will be installed:
ca-certificates curl libbrotlil libcurl4 libgpm2 libldap-2.4-2
libldap-common libnghttp2-14 libps15 librtmp1 libsas12-2 libsas12-modules
libsas12-modules-db libssh2-1 openss1 publicsuffix vim vim-common
ca-certificates ourl [ibbrotlin] libcuri4 | libdape2.14-22 |
libldap-common libnyhttp2-14 libps15 | libtrmp1 libnas12-2 | libnas12-modules |
libbas12-modules-db libesh2-1 openss| publicurifix vim vim-common vim-runtime xxd |
0 upgraded, 20 newly installed, 0 to remove and 0 not upgraded. |
Need to get 11.2 Mb of archives. |
After this operation, 43.2 Mb of additional disk space will be used. |
Get12 http://deb.debian.org/debian bullseys/main amd64 xxd amd64 2:8.2.2434-3+debl1u1 [192 kB] |
Get12 http://deb.debian.org/debian bullseys/main amd64 vim-common all 2:8.2.2434-3+debl1u1 [226 kB] |
Get13 http://deb.debian.org/debian bullseys/main amd64 vim-common all 2:8.2.2434-3+debl1u1 [226 kB] |
Get13 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2.bb [279 kB] |
Get15 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2.bb [279 kB] |
Get16 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2.bb [279 kB] |
Get17 http://deb.debian.org/debian bullseys/main amd64 libras12-2 amd64 | 0.9.2.bb [279 kB] |
Get18 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2.bb [279 kB] |
Get19 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2.bb [270 kB] |
Get11 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2.bb [270 kB] |
Get11 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2. [15 kB] |
Get11 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2. [15 kB] |
Get11 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2. [15 kB] |
Get11 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2. [15 kB] |
Get12 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2. [15 kB] |
Get13 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2. [15 kB] |
Get14 http://deb.debian.org/debian bullseys/main amd64 librotli1 amd64 | 0.9.2. [15 kB] |
Get12 http://deb.debian.org/debian bullseys/main amd64 librotli1 a
```

```
ubuntu@ip-172-31-22-198:/opt/siab$
ubuntu@ip-172-31-22-198:/opt/siab$ docker run -d -p 443:4200 --name siab -i siab
ldb4f49eb9aee72edld40f549lc66664512e3b447a08b6e9a877056f048c01f5
ubuntu@ip-172-31-22-198:/opt/siab$
```

stop and remove the container

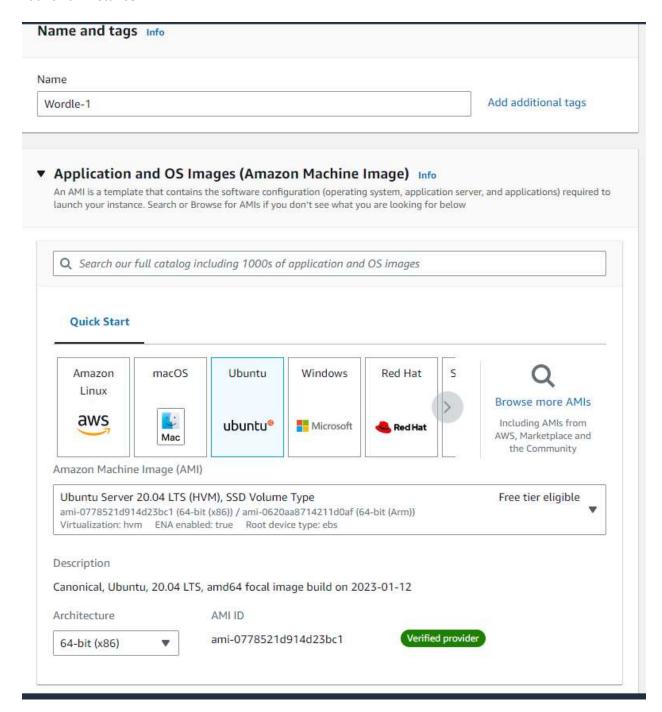
```
| Under | 172-31-22-198 | copt/siabs | companies | com
```

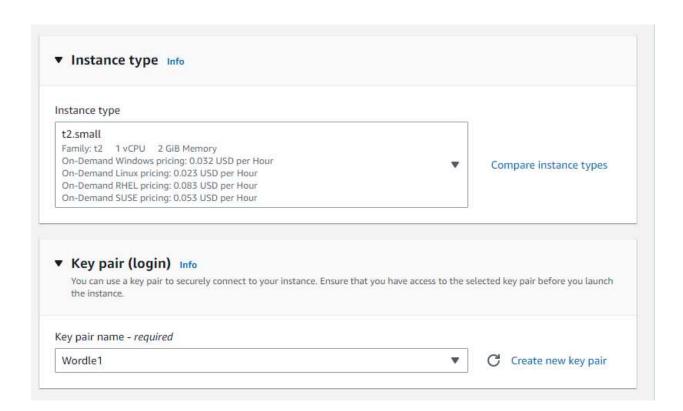
Terminated EC2

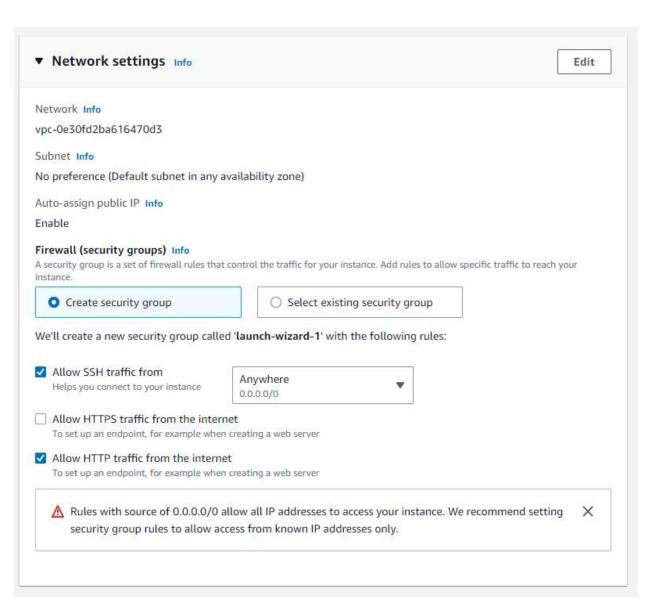


Wordle-TIO-v1.0

Launch an Instance









Installation of docker

₽ ubuntu@in-172-31-26-69: ~

```
Communication 173116566.

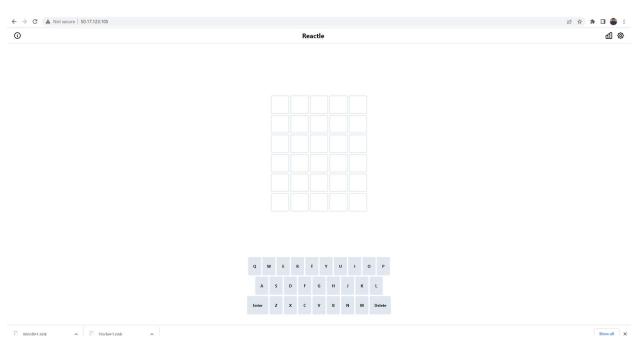
| Communication 173116566.
| Communication 173116566.
| Communication 173116566.
| Communication 173116566.
| Communication 173116566.
| Communication 173116566.
| Communication 173116566.
| Communication 17311666.
| Communication 17311666.
| Communication 1731166.
| Co
```

```
25 updates can be applied immediately.
21 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
New release '22.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Tue Feb 7 21:34:48 2023 from 171.50.207.205
ubuntu@ip-172-31-26-69:~$
ubuntu@ip-172-31-26-69:~$
ubuntu@ip-172-31-26-69:~$
ubuntu@ip-172-31-26-69:~$
ubuntu@ip-172-31-26-69:~$ docker version
Client:
Version:
                   20.10.12
API version:
                   1.41
                   gol.16.2
Go version:
Git commit:
                    20.10.12-Oubuntu2~20.04.1
                   Wed Apr 6 02:14:38 2022
Built:
OS/Arch:
                   linux/amd64
                   default
Context:
Experimental:
                   true
Server:
Engine:
 Version:
                   20.10.12
 API version:
                   1.41 (minimum version 1.12)
                   go1.16.2
 Go version:
                   20.10.12-Oubuntu2~20.04.1
 Git commit:
 Built:
                   Thu Feb 10 15:03:35 2022
                   linux/amd64
 OS/Arch:
                  false
 Experimental:
containerd:
 Version:
                   1.5.9-Oubuntu1~20.04.6
 GitCommit:
 runc:
                   1.1.0-Oubuntu1~20.04.2
 Version:
 GitCommit:
docker-init:
 Version:
                    0.19.0
 GitCommit:
ubuntu@ip-172-31-26-69:~$
```

Deploying the application

```
ubuntu8ip-172-31-26-69:-$
ubuntu8ip-172-31-26-69:/opt$
ubuntu8ip-172-31-
```

Navigate to the public IP address of the running instance on a new web browser tab to see the application using the following format



Terminating / deleting an instance

