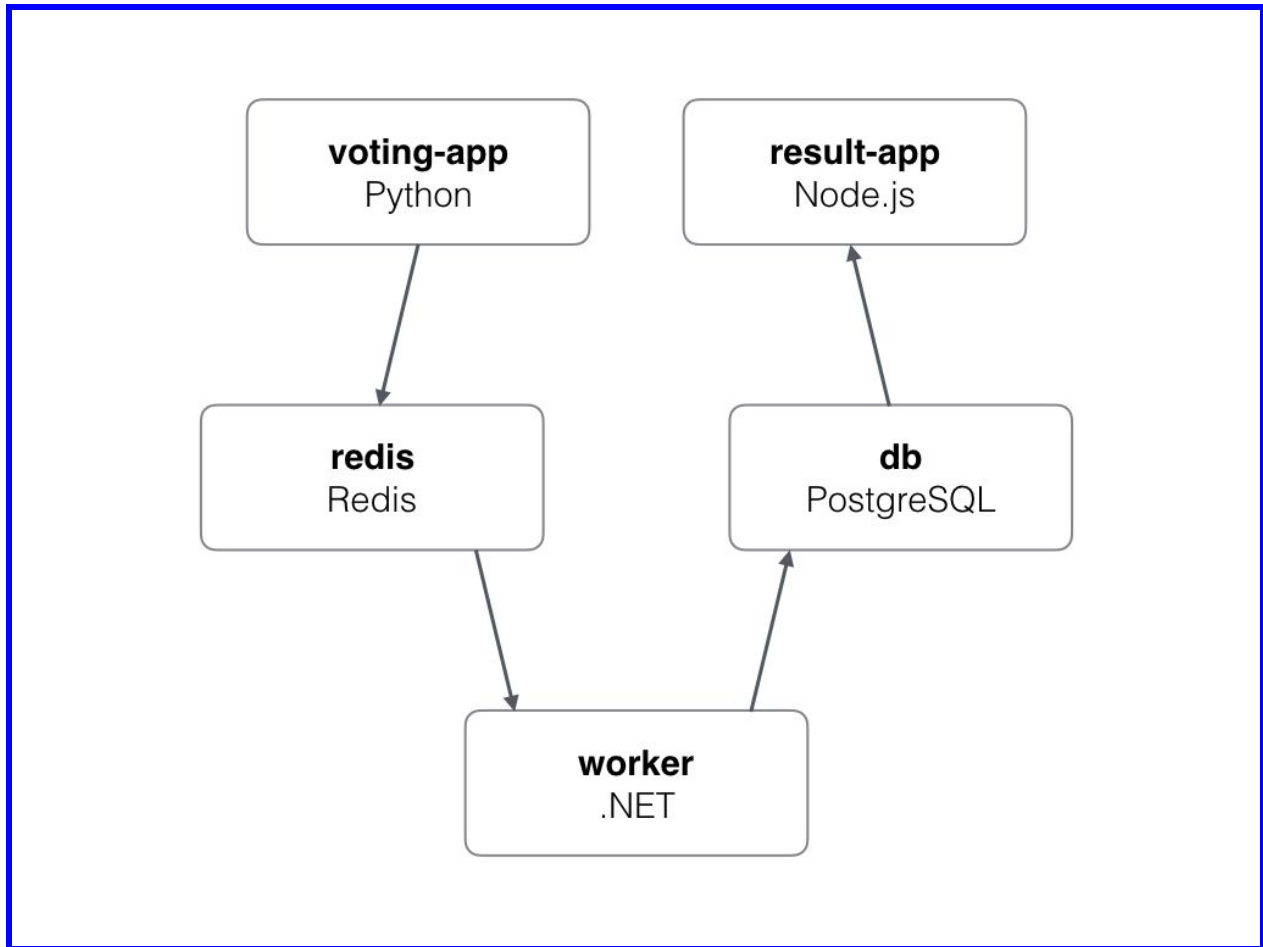


Docker Lab 9 Docker compose Voting Application

Architecture



1. SSH to your AWS Workstation and run the below commands.

```
$ sudo su
# cd /home/devops/Docker/
# git clone https://github.com/LovesCloud/Docker-Voting-Application.git
```

2. Cd to the Cloned Directory

```
# cd Docker-Voting-Application/
```

3. Create the Docker-compose.yml file.

```
# curl -f https://pastebin.com/raw/thFSajG7 > docker-compose.yml
```

4. Create Dockerfile for the Voting App.

```
# cd vote/  
# curl -f https://pastebin.com/raw/QhFahbMu > Dockerfile  
# cd ..
```

5. Create Dockerfile for Worker App

```
# cd worker/  
# curl -f https://pastebin.com/raw/TQkZZCT7 > Dockerfile  
# cd ..
```

6. Create Dockerfile for Result App

```
# cd result/  
# curl -f https://pastebin.com/raw/9GbLPP9Q > Dockerfile  
# cd ..
```

7. Run the Docker Compose Stack for the Docker-Voting-Application home dir.

```
# docker-compose up -d
```

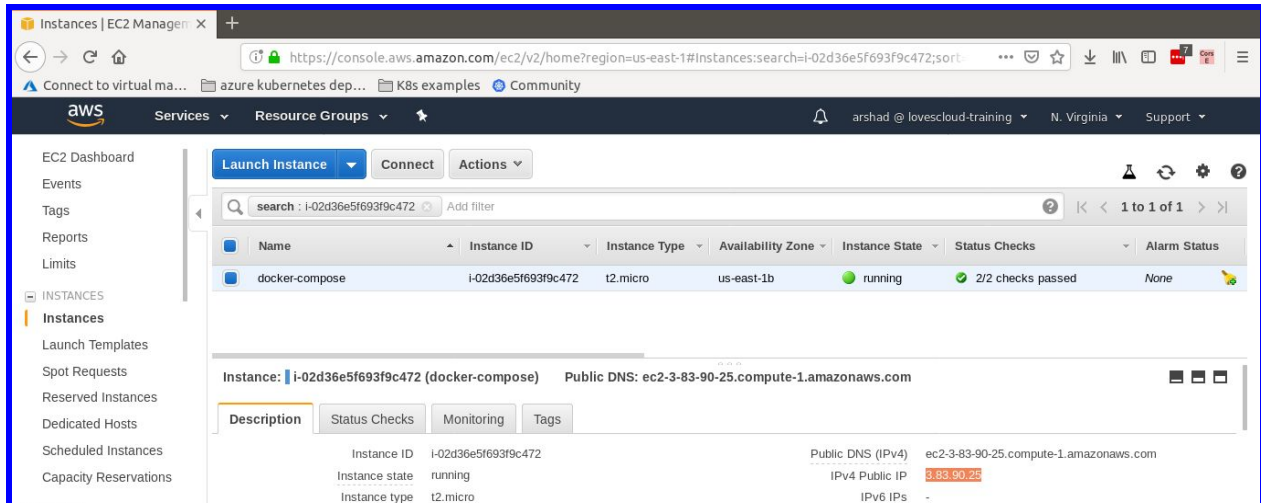
8. Check the Docker container

```
# docker ps
```

```
root@ip-172-31-81-28:/home/devops/Docker-Voting-Application# docker ps  
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES  
1368b12959d2   docker-voting-application_worker    "/bin/sh -c 'dotnet -'" 2 hours ago   Up 5 minutes                               docker-voting-application_worker_1  
2c35a8f13b5    docker-voting-application_result     "nodeenv server.js"     2 hours ago   Up 5 minutes   0.0.0.0:5858->5858/tcp, 0.0.0.0:5801->88/tcp   docker-voting-application_result_1  
5a77be1815c4   docker-voting-application_vote       "python app.py"         2 hours ago   Up 5 minutes   0.0.0.0:5888->88/tcp                        docker-voting-application_vote_1  
28f2ae2443bd   redis:alpine                        "docker-entrypoint.s..." 2 hours ago   Up 5 minutes   0.0.0.0:6377->6379/tcp                       redis  
8132a198d38c   postgres:9.4                        "docker-entrypoint.s..." 2 hours ago   Up 5 minutes   5432/tcp                                      db
```

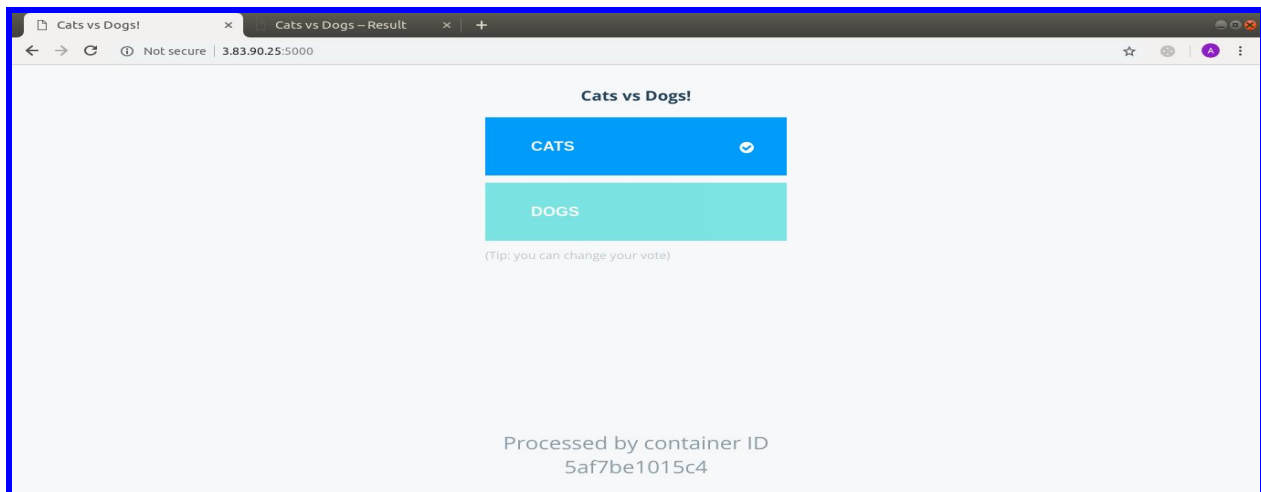
9. The app will be running at <http://localhost:5000>, and the results will be at <http://localhost:5001>.

10. Access the application and the result from the Public IP of your AWS Workstation.

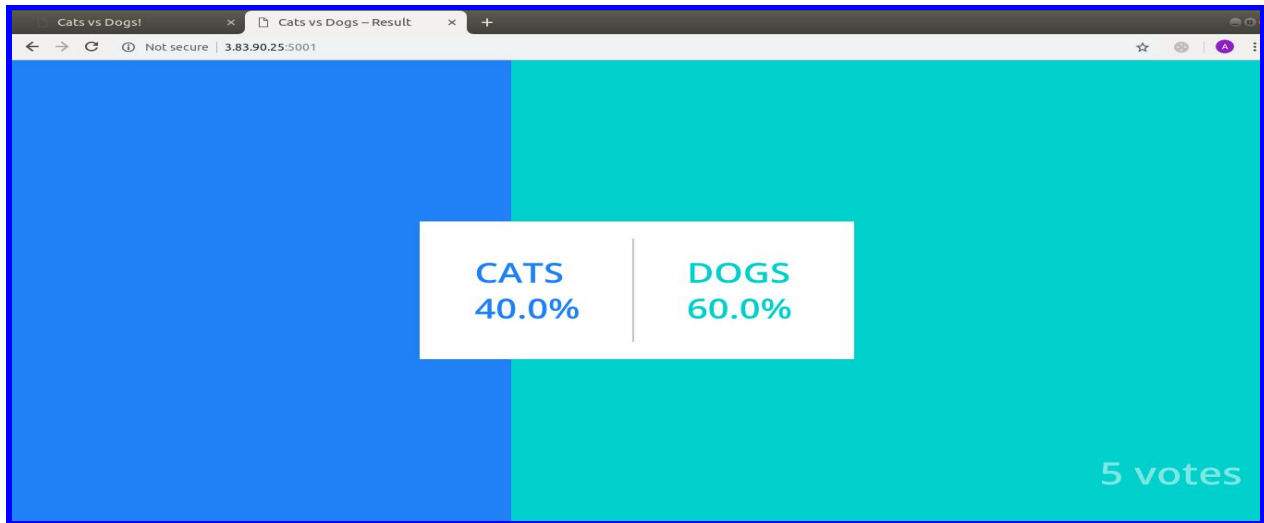


Example

11. Application can be accessed on <http://<Public-ip>:5000>



12. Results can be accessed on <http://<Public-ip>:5001>



Note : The voting application only accepts one vote per client. It does not register votes if a vote has already been submitted from a client.

13. To bring down the Compose Stack run the below command.

```
# docker-compose down
```