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Editor  Tab 1  +
ubuntu:~$ git clone https://github.com/GergesNagy/example-voting-app
Cloning into 'example-voting-app'...
remote: Enumerating objects: 1171, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 1171 (delta 3), reused 2 (delta 2), pack-reused 1166 (from 2)
Receiving objects: 100% (1171/1171), 1.20 MiB | 5.64 MiB/s, done.
Resolving deltas: 100% (441/441), done.
ubuntu:~$ ls
example-voting-app  filesystem
ubuntu:~$ cd example-voting-app/
ubuntu:~/example-voting-app$ ls
LICENSE      README.md      docker-compose.images.yml  healthchecks  result  vote
MAINTAINERS  architecture.excalidraw.png  docker-stack.yml          k8s-specifications  seed-data  worker
ubuntu:~/example-voting-app$ cd vote/
ubuntu:~/example-voting-app/vote$ vi Dockerfile
ubuntu:~/example-voting-app/vote$ cd ../worker/
ubuntu:~/example-voting-app/worker$ vi Dockerfile
ubuntu:~/example-voting-app/worker$ cd ../result/
ubuntu:~/example-voting-app/result$ vi Dockerfile
ubuntu:~/example-voting-app/result$ cd ..
ubuntu:~/example-voting-app$ vi docker-compose.yml

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Editor  Tab 1  +
FROM python:3.9-slim
WORKDIR /app
COPY requirements.txt .
RUN pip install -r requirements.txt
COPY . .
CMD ["python", "app.py"]
~

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Editor  Tab 1  +
FROM node:14
WORKDIR /app
COPY package*.json ./
RUN npm install
COPY . .
CMD ["node", "server.js"]
~
~
~

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Editor  Tab1  +
FROM mcr.microsoft.com/dotnet/sdk:7.0 AS build
WORKDIR /src
COPY . .
RUN dotnet publish Worker.csproj -c Release -o /app

FROM mcr.microsoft.com/dotnet/runtime:7.0
WORKDIR /app
COPY --from=build /app .
ENTRYPOINT ["dotnet", "Worker.dll"]
~
~

```

```

-- make-data.py
-- vote
|-- Dockerfile
|-- app.py
|-- requirements.txt
|-- static
|   |-- stylesheets
|   |-- style.css
|-- templates
|   |-- index.html
-- worker
|-- Dockerfile
|-- Program.cs
|-- Worker.csproj

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-- worker-deployment.yaml
-- result
|-- Dockerfile
|-- docker-compose.test.yml
|-- package-lock.json
|-- package.json
|-- server.js
|-- tests
|   |-- Dockerfile
|   |-- render.js
|   |-- tests.sh
|-- views
|   |-- angular.min.js
|   |-- app.js
|   |-- index.html
|   |-- socket.io.js
|   |-- stylesheets
|   |-- style.css

```

```
version: "3.8"

services:
  vote:
    build: ./vote
    ports:
      - "5000:80"
    networks:
      - frontend
    depends_on:
      - redis

  result:
    build: ./result
    ports:
      - "5001:80"
    networks:
      - frontend
    depends_on:
      - db

  worker:
    build: ./worker
    networks:
      - backend
    depends_on:
      - redis
      - db

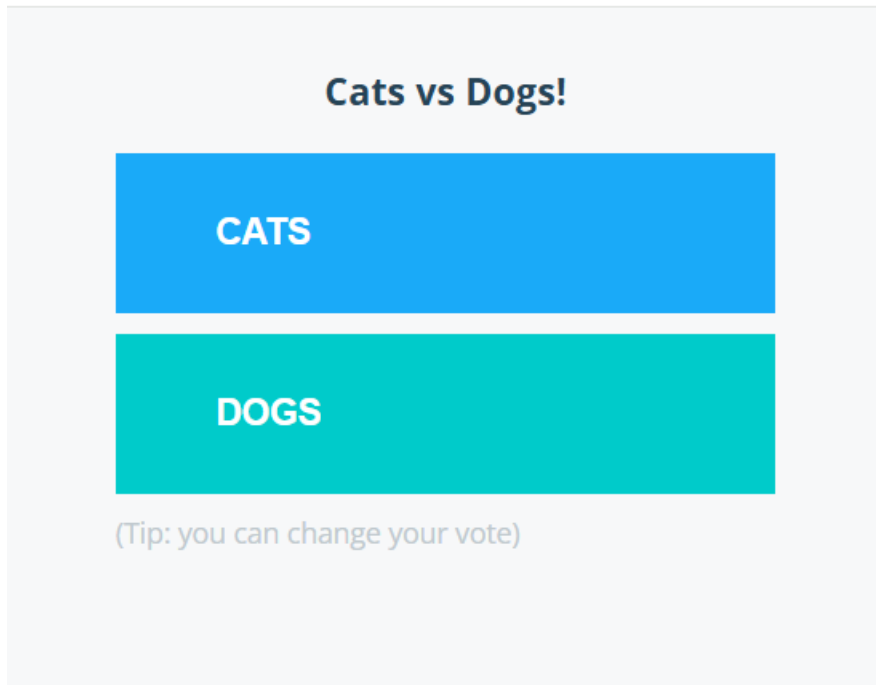
  redis:
    image: "redis:alpine"
    networks:
      - backend
```

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worker:
  build: ./worker
  networks:
    - backend
  depends_on:
    - redis
    - db

redis:
  image: "redis:alpine"
  networks:
    - backend

db:
  image: "postgres:13"
  environment:
    POSTGRES_USER: postgres
    POSTGRES_PASSWORD: postgres
  networks:
    - backend

networks:
  frontend:
  backend:
:wq!
```

```
vote_1 | return self.execute_command("RPush", name, *values)
vote_1 | File "/usr/local/lib/python3.9/site-packages/redis/client.py", line 559, in execute_command
vote_1 |     return self._execute_command(*args, **options)
vote_1 | File "/usr/local/lib/python3.9/site-packages/redis/client.py", line 565, in _execute_command
vote_1 |     conn = self.connection or pool.get_connection(command_name, **options)
vote_1 | File "/usr/local/lib/python3.9/site-packages/redis/connection.py", line 1422, in get_connection
vote_1 |     connection.connect()
vote_1 | File "/usr/local/lib/python3.9/site-packages/redis/connection.py", line 363, in connect
vote_1 |     raise ConnectionError(self._error_message(e))
vote_1 | redis.exceptions.ConnectionError: Error -2 connecting to redis:6379. Name or service not known.
vote_1 | 10.244.9.110 - - [19/Apr/2025 16:16:31] "GET /?__debugger__=yes&cmd=resource&f=style.css HTTP/1.1" 304 -
result_1 | Waiting for db
vote_1 | 10.244.5.70 - - [19/Apr/2025 16:16:31] "GET /?__debugger__=yes&cmd=resource&f=debugger.js HTTP/1.1" 304 -
vote_1 | 10.244.5.70 - - [19/Apr/2025 16:16:31] "GET /?__debugger__=yes&cmd=resource&f=console.png HTTP/1.1" 304 -
result_1 | Waiting for db
result_1 | Waiting for db
result_1 | Waiting for db
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result_1 | Waiting for db
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