

Docker : Docker MasterClass for DevOps

Assignment : Deploy
Multi-Node Application in
Docker Swarm

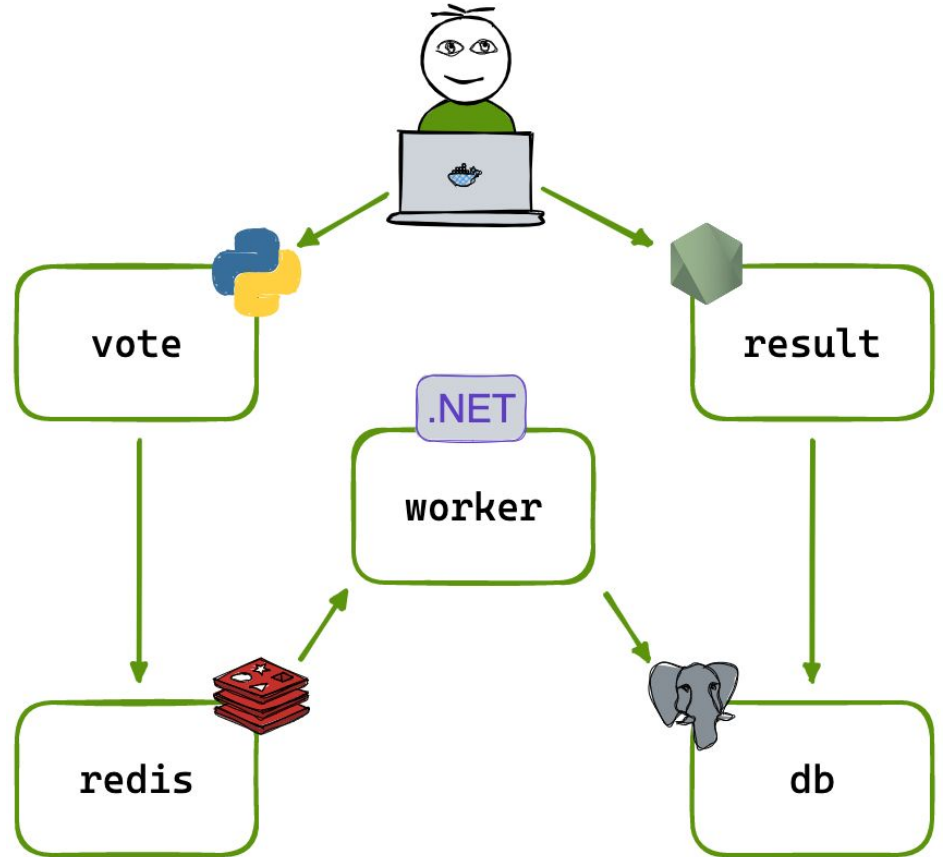


Docker : Service Containers

- Assignment to Deploy Multi Node Service via Docker Swarm
- Docker's Distributed Voting App.
- This solution uses Python, Node.js, .NET, with Redis for messaging and Postgres for storage.

Docker : Service Containers

➤ Architecture -



Docker : Service Containers

- This is combination of Several docker and compose/swarm file. Code can view at below location:
<https://github.com/dockersamples/example-voting-app>
- App is designed by Docker community and available on Docker Hub for Public use.
- This service need **1 Mount Volume, 2 Network and 5 Stack Services**
- Two overlay network you can call **frontend** and **backend** is needed.

Docker : Service Containers

➤ Voting App:

- Image : [dockersamples/examplevotingapp_vote](#)
- Web front app
- Publish this on port **5000**, Listener Container Port **80**
- Publish **4 replicas**
- Publish on **frontend** overlay Network

➤ Redis:

- Image : [redis:alpine](#)
- Redis is used to Collect New Votes
- Publish **4 replicas**
- Publish on **frontend** overlay Network

Docker : Service Containers

➤ Worker:

- Image : [dockersamples/examplevotingapp_worker](#)
- A .NET worker which consumes votes and stores them
- Publish **4 replicas**
- Publish on **frontend & backend** overlay Network

➤ DB Service:

- Image : [postgres:15-alpine](#)
- Mount Volume and mount to [/var/lib/postgresql/data](#)
- Publish on backend network
- Publish 1 replicas

Docker : Service Containers

- Result Service:
 - Image : **dockersamples/examplevotingapp_result**
 - Will display the Voting result
 - Publish on **backend** network
 - Publish on port **5001**, Container port **80**
 - Publish 1 replicas

Thank You...

Don't be the Same! Be Better!!!
