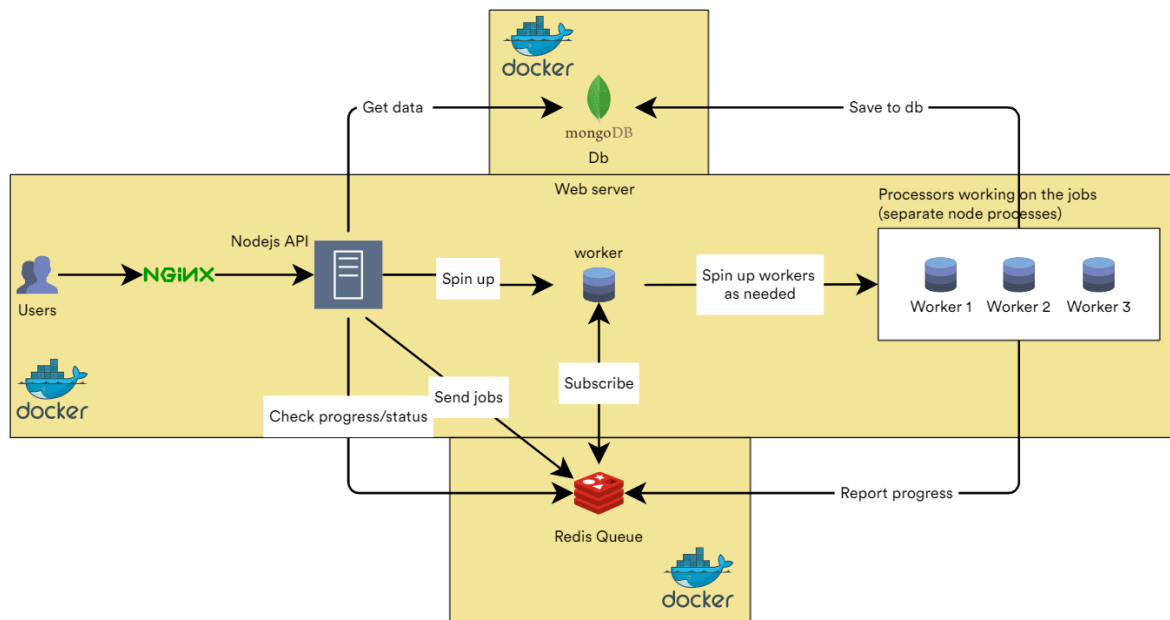


Diagram:



Hosting Strategy:

- We choose docker to make hosting simpler and easy in terms of configuring dependencies and to avoid host (platform) specific needs as well as spin up and tear down instances easily and orchestrate load with k8s as well as scaling out and in, also for cutting down hosting expenses we will not use dedicated machines, that's why docker is a much preferable approach.
- I attached a sample docker compose file for both dev and prod environments.
- Creating the docker instances as simple as running "docker compose up", with the respective environment file"
- We will need a build server like "Jenkins" to automate building and deployment of docker machines as well as run automated tests before deployment and after each push to the repo.
- We will use nginx as a reverse proxy to our API as well as a load balancer in the future if needed.