

Build & Deploy

The following steps are required to build and the deploy KIT.

1. Clone the project from <https://github.com/amosproj/amos2023ss04-kubernetes-inventory-taker>
2. Install [Docker](#) and [Docker-Compose](#)
3. Provide the credentials required to connect to Kubernetes to the proxy
 - a. Copy all relevant files into the `Proxy/.kube` folder. When using minikube, running `cp -r ~/.kube/config ~/.minikube/ca.crt ~/.minikube/profiles Proxy/.kube/` after `minikube start` should give you everything you need
 - b. Replace absolute paths to your home directory in the `config` file with relative paths
4. Run `docker compose up --build`
5. Connect to `localhost:3000` and see the Explorer in action

Non-local Deployment

When trying to run the project somewhere that isn't your local machine the following things should be noted.

1. Building the two images described by the Dockerfiles in the Explorer and Proxy folder might be preferable, so that you have full control over the image name and tags
2. Neither the Explorer nor the Proxy apply the database schema, you will have to do that before connecting them to the DB

Development Builds

Setting up a development environment is unfortunately a lot more involve.

The tools required for a full dev environment are:

1. [Golang](#)
2. [Node/NPM](#)
3. [pre-commit](#)
4. [golangci-lint](#)

To fully set up the dependencies run

```
1 cd Explorer && npm install && cd .. && pre-commit install && pre-commit install -t commit-msg
```

You should now be able to build the parts by running `npm run build` in the Explorer folder and `go build ./...` in the Proxy folder. (The triple dot is intentional)

To get hot reload for the Explorer, run `npm run dev` instead.