

# Kubernetes

**\*\*UNDER CONSTRUCTION\*\***

How to deploy and develop Clowder with Kubernetes.

## Before starting

- New to Kubernetes? Check <https://kubernetes.io/docs/home/> and <https://www.katacoda.com/courses/kubernetes>
- Checkout the Helm charts <https://github.com/ncsa/charts/tree/master/ncsa/clowder>
- Docker for Mac comes with Kubernetes (client and server). **Enable it** under Preferences. It is not enabled by default.
- Install <https://helm.sh/>
- Install <https://github.com/ahmetb/kubectx> to simplify managing contexts. (this includes both kubens and kubectx)

## Using sd-kube

For NCSA users who have access to it.

- Get your config and credentials here <https://gonzo-rancher.ncsa.illinois.edu/>
- You can use this script to merge configs or keep them separate and switch between them by setting the env variable `KUBECONTROL`
- If kubectx is installed, you can switch contexts using kubectx command.

## Deploying on Local

- Install helm charts `helm repo add ncsa <https://opensource.ncsa.illinois.edu/charts/>`
- Make sure they are updated `helm repo update`