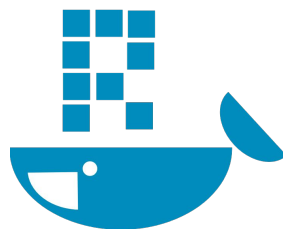




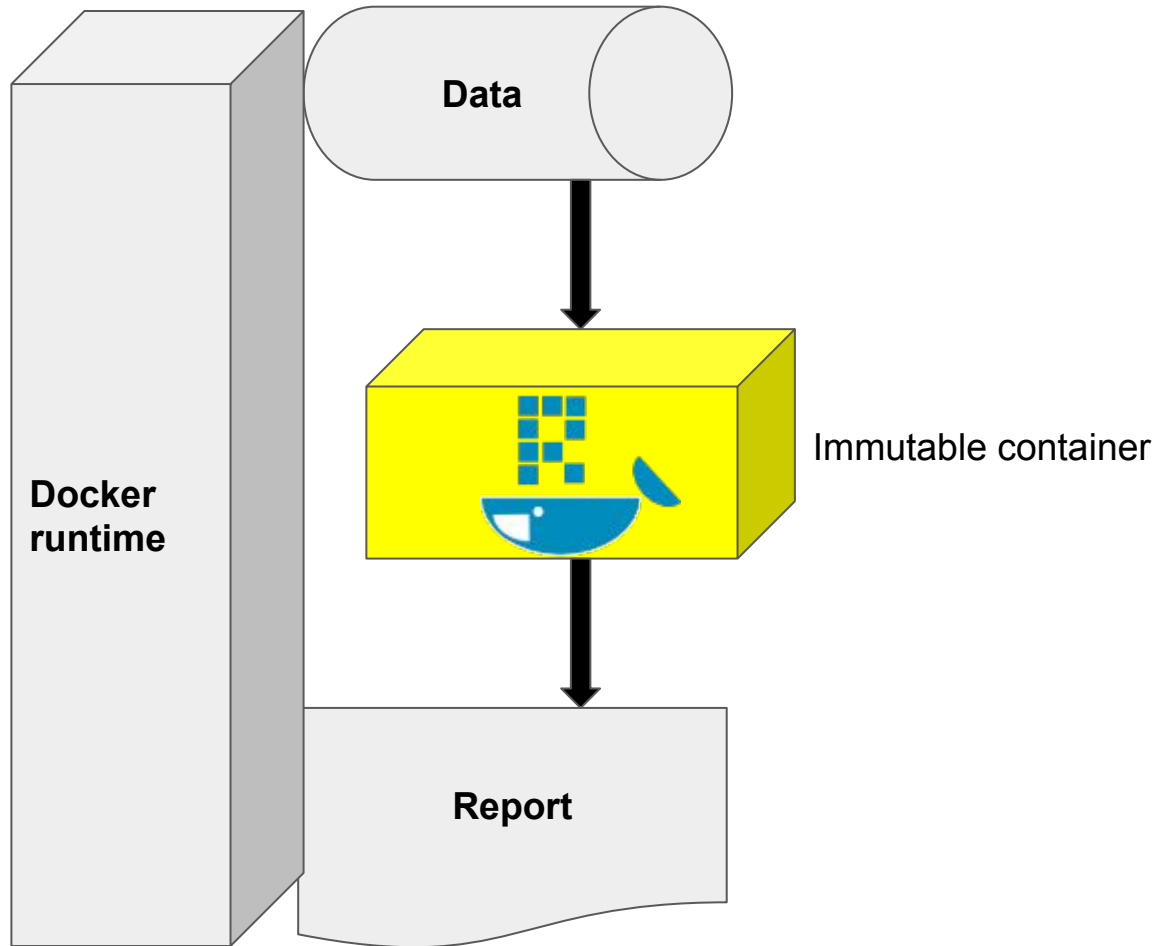
R in containers

Collaboration beyond company boundaries

- Collaborate:
 - ◆ share data and analysis code
- Challenge: **reproducibility**
 - ◆ R version
 - ◆ R package versions
 - ◆ System & math libraries (BLAS, Armadillo)
 - ◆ Operating system
- Complete R environment container:
 - ◆ R in **docker**
<https://www.rocker-project.org>



Containerized Analysis



Development of analysis containers



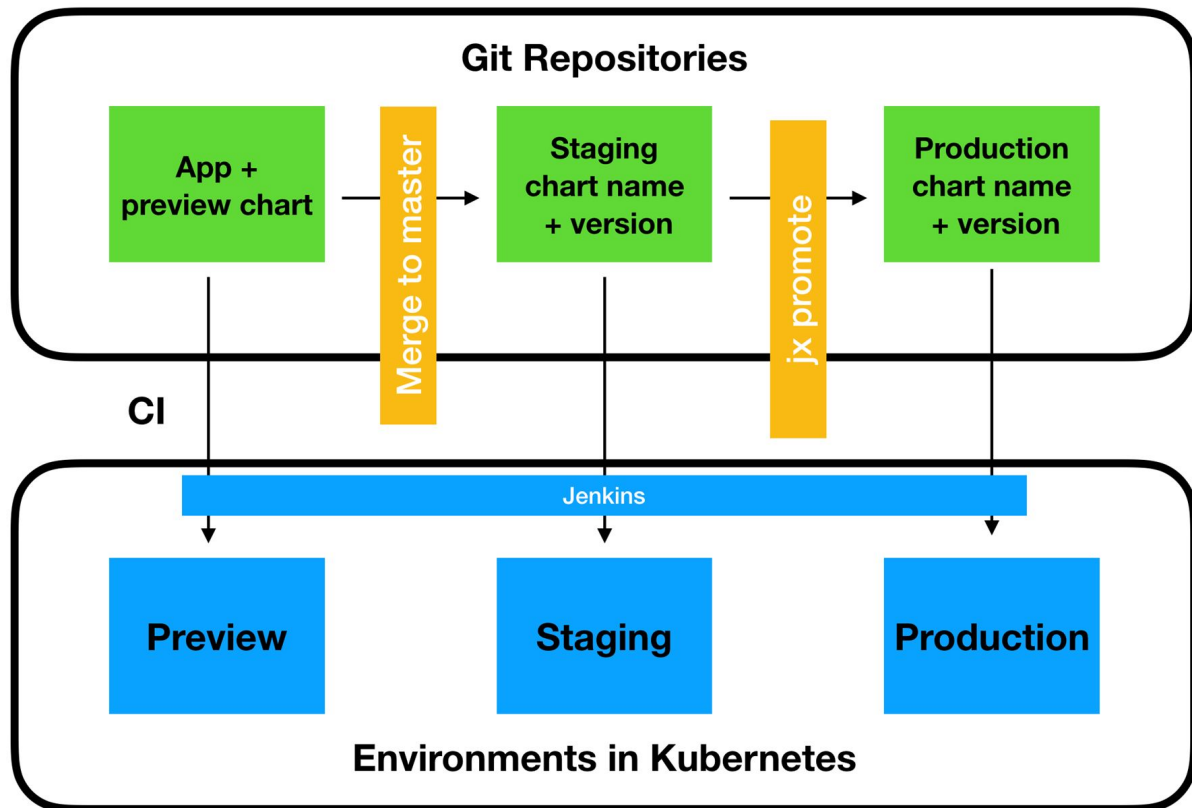
Kubernetes

- deploys, scales, and manages containers

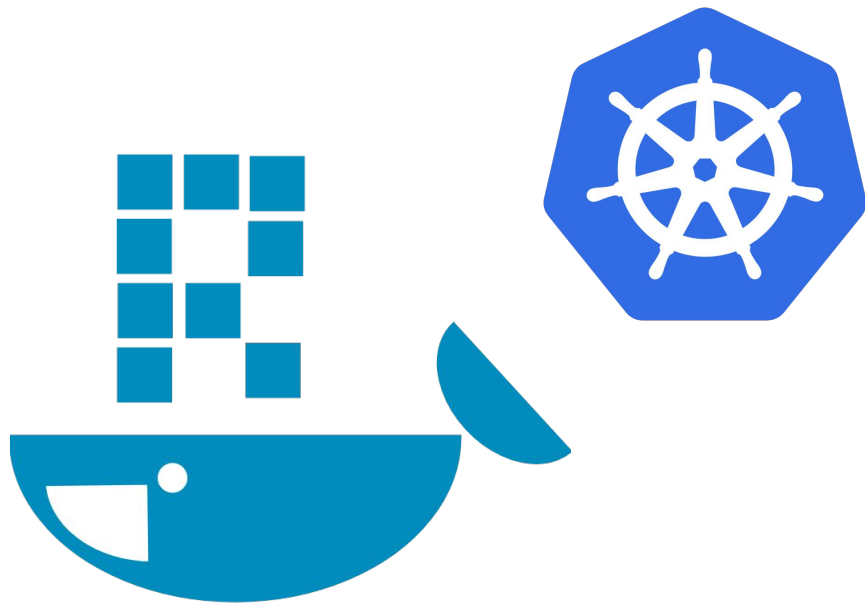
Jenkins X sets up

- preview, staging, production environments in Kubernetes
- development pipeline controlled by git repositories that
 - builds docker container from code
 - deploys semantically versioned container product

Automated pipeline



Analysis factory - under construction



git

RStudio