

# LAB 6: DevOps

## Release pipeline

**App:** Node chat app

**Date:** 16.05.2021

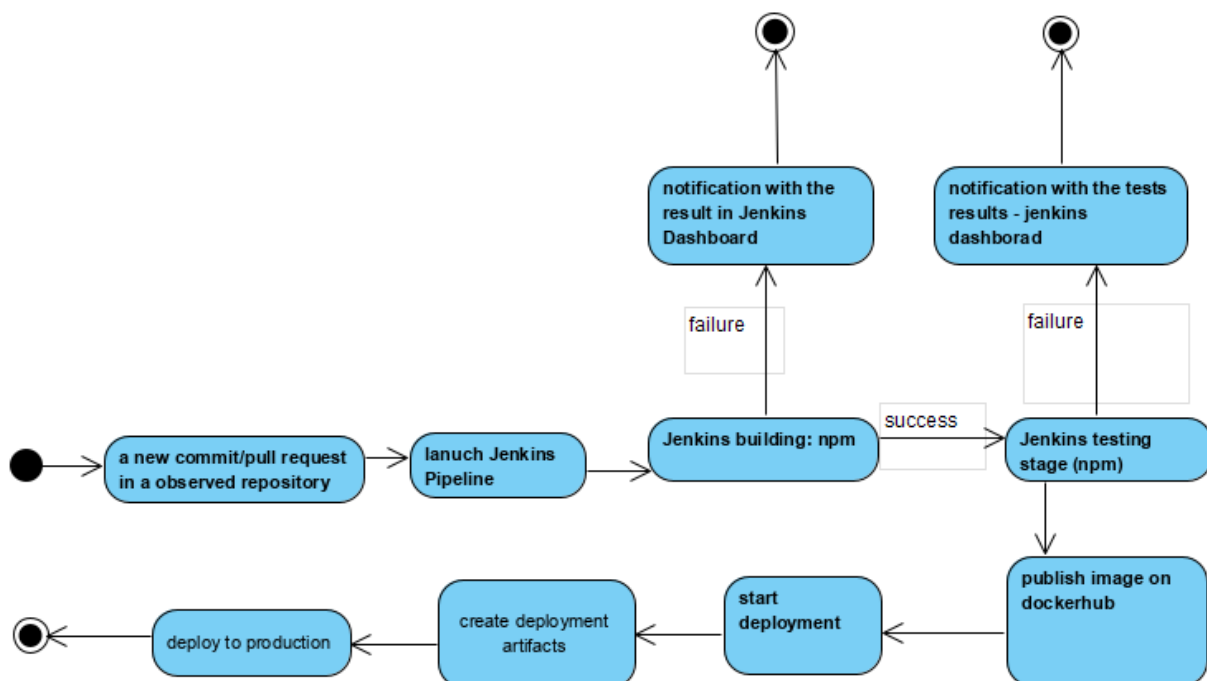
**Tech stack:** Github, Docker, Dockerhub, Jenkins

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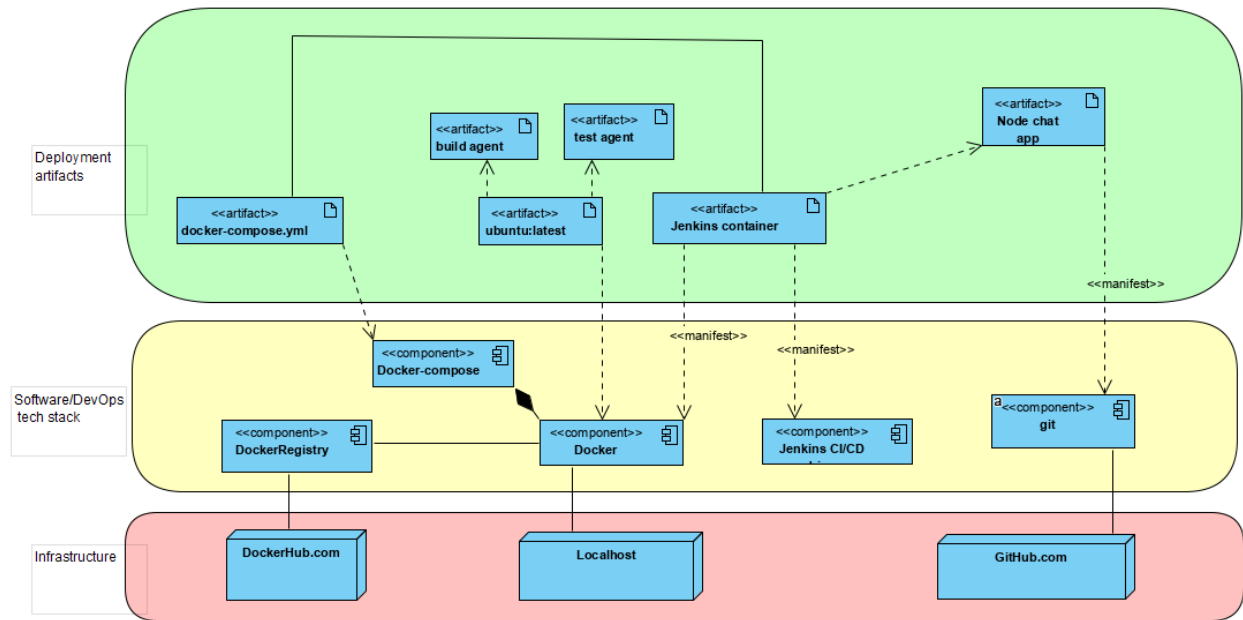
### What is what;

- A **release** is a collection of artifacts in your DevOps CI/CD processes.
- An **artifact** is a deployable component of your application

### Activity diagram:



### Deployment diagram:



### Jenkins pipeline description:

1. Detection of changes in repository - a new commit
2. Jenkins fetches data and starts deployment process based on Jenkinsfile.
3. Docker-compose.yml consists of two images
  - build: simply clones the repository and configures it, install dependencies etc.
  - test: runs tests
4. If build container fails to build itself the notification is sent to Jenkins Dashboard and the process stops.
5. If build container successfully builds itself, then the test container is to be run. If the tests fail the process stops and notification to Jenkins Dashboard is sent.
6. Then, a new image is published in dockerhub (new version) and the code is deployed to production.