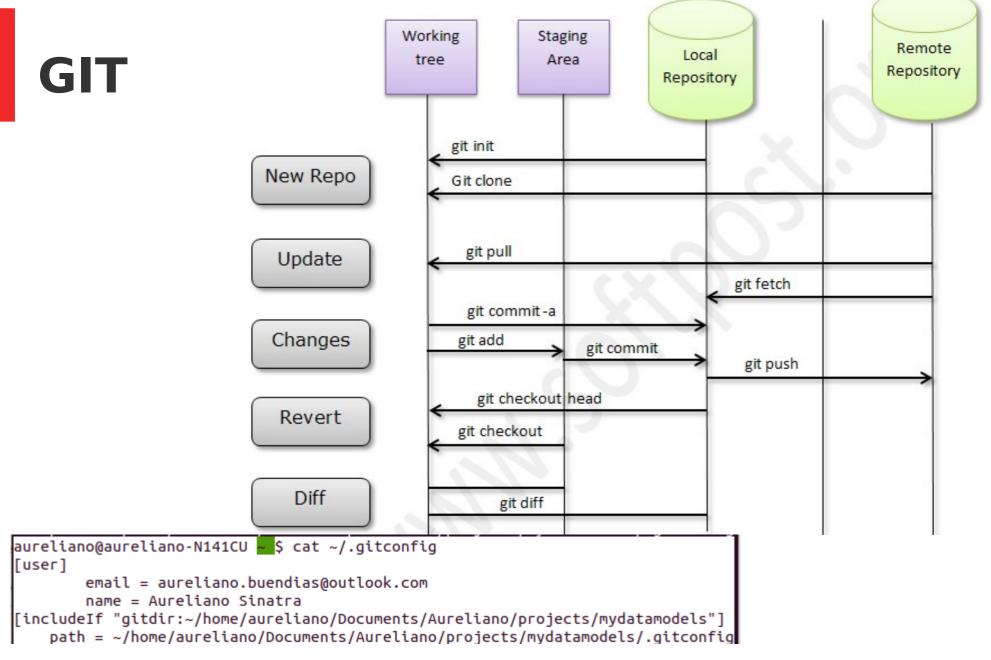
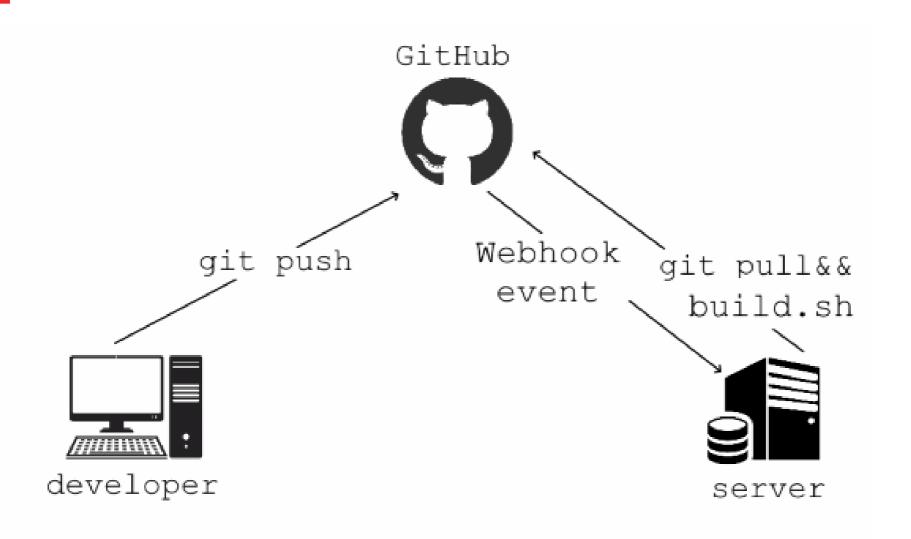
WORKSHOPS



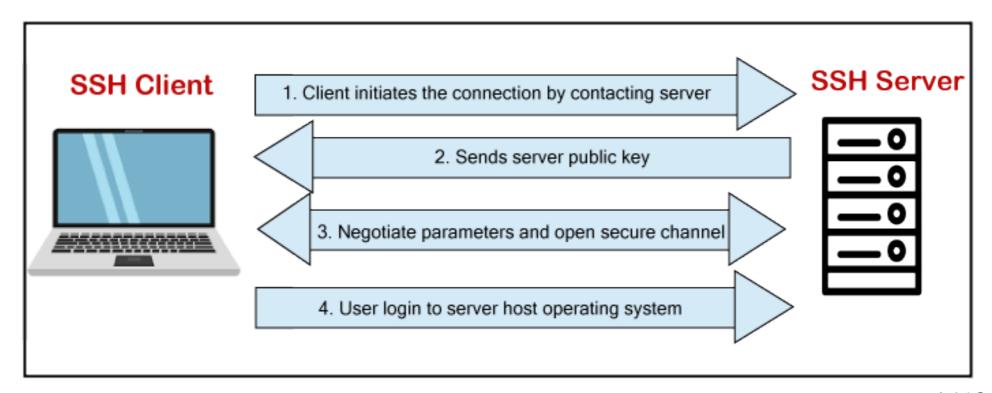
GIT config file: always configure user /email

GITHUB / GITHUB RUNNER



INFRA / CYBERSEC CONFIGURATIONS

 SSH config https://linuxhint.com/generate-ssh-key-ubuntu/ Upload the .pub key to github to enable the ssh connection instead of https https://docs.github.com/en/authentication/connecting-to-github-with-ssh/adding-a-new-ssh-key-to-your-github-account



INFRA / CYBERSEC CONFIGURATIONS

- DOCKER login to a registry: docker login registry.hub.docker.com -u user -p password
- DOCKER config file

- DOCKER in a VM
 https://medium.com/@peorth/using-docker-with-virtualbox-and-windows-10-b351e7a34ad c
 https://armstar.medium.com/install-virtualbox-ubuntu-docker-on-windows-10-a16765a09b
- BASHRC, ALIASES, SHELL SCRIPTING
 open the file ~/.bashrc and create aliases and functions often needed in command line
- DOCTL https://github.com/digitalocean/doctl install using apt if possible

AUTOMATION JS

PACKAGE.JSON

Your project's package.json is the central place to configure and describe how to interact with and run your application. It is used by the npm CLI (and yarn) to identify your project and understand how to handle the project's dependencies.

Name / version / scripts / dependencies / author / licence

NPM

is a package manager for Node.js packages.

It make possible operations on source code (es. build, package, release, and publish to a registry)

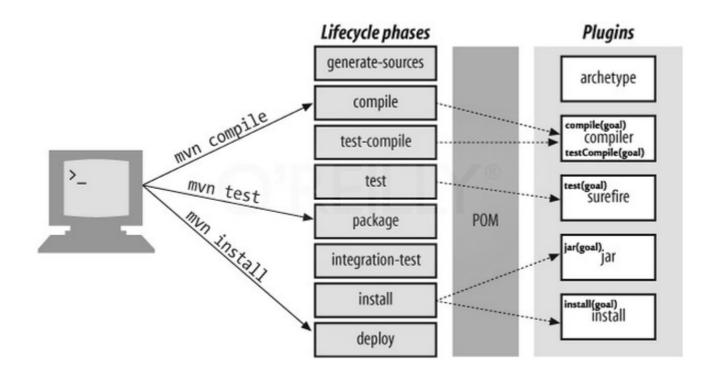
https://docs.npmjs.com/cli/v6/commands

https://docs.npmjs.com/creating-and-publishing-scoped-public-packages

AUTOMATION JAVA

 MAVEN: is a popular open-source build tool developed by the Apache Group to build, publish, and deploy several projects at once for better project management. The tool provides allows developers to build and document the lifecycle framework

https://www.digitalocean.com/community/tutorials/install-maven-linux-ubuntu

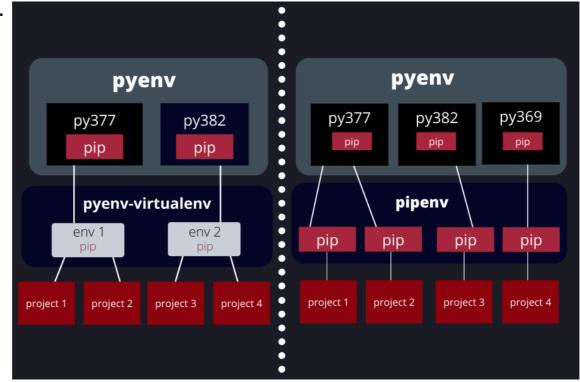


AUTOMATION PYTHON

- PIP: one of the most famous and widely used package management system to install and manage software packages written in Python and found in Python Package Index (PyPI).
 Pip is a recursive acronym that can stand for either "Pip Installs Packages"
- Pipfile.lock: is intended to specify, based on the packages present in Pipfile, which specific version of those should be used, avoiding the risks of automatically upgrading packages that depend upon each other and breaking your project dependency tree
- PIPENV manages virtual environments.

• VIRTUALENV is a tool to create isolated Python environments to let possible to work with

different python versions.



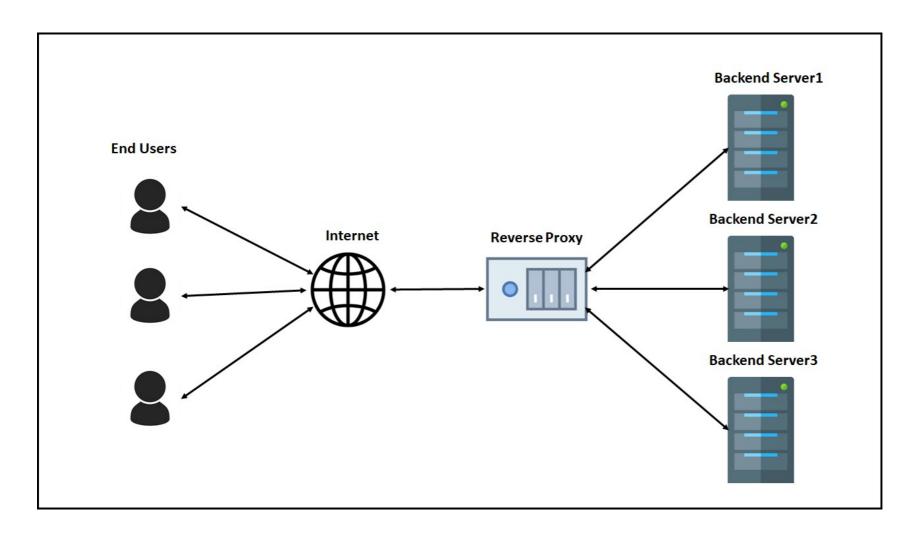
DOCKER COMPOSE

- Docker Compose is a tool that was developed to help define and share **multi-container applications**. With Compose, we can create a YAML file to define the services and with a single command, can spin everything up or tear it all down.
- Docker-compose up / down / build
- Is possible to define bootstrap dependencies between container via depends_on keyword

https://github.com/ynov-campus-sophia/devops/tree/master/docker/compose

ARCHITECTURE

MICROSERVICE ARCHITECTURE (NGINX + MICROSERVICES)



FRAMEWORKS

- https://create-react-app.dev/docs/adding-typescript REACTJS, JS, FRONT
- https://docs.nestjs.com/ NESTJS, JS, API
- https://flask.palletsprojects.com/en/2.2.x/ FLASK , PYTHON , API
- https://spring.io/guides/gs/spring-boot/ SPRING BOOT, JAVA, API

Examples with python pip

- Hands on pipenv, lockfile generation
- Reduce size of image using a slim base layer (from ubuntu to debian slim OS)
- Security hardening (from debian to alpine) + hands on USER keyword to avoid run as superuser in a container
- 2 stages builds