Versionning

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Introduction

The Security Team consider a versionning tool mandatory to insure the Disponibility and Integrity of the ressources developped for this project.

Gitlab is DevOps tool that allow to develop, version, secure and push projects. Gitlab can be installed directly on a machine or using a docker container.

Content

Description

The Security Team suggest using a docker container to host a gitlab server for this project. This need to be setted up on a server with at least 8 Go of RAM for it to run smoothly during build and deploy actions.

A Gitlab Runner needs to be used to be able to run the CI/CD proccess on severals servers. The runner will work better if setted up on another server than the one running the gitlab server container, for ressources consumption considerations during build and deploy actions.

The Security Team is open to others suggestions for versionning tools and CI/CD tools from the developpement focused Teams on this project, as long as they have the same securities and we can set up equivalent procedures and policies.

Users

We would have to have 13 users on our gitlab server instance.

The admin user, with the root username, used as the owner of the server.

And then an user for each of the members of all teams working on this project, so as to not work directly with the root user.

Each user’s usernames is their first name with the first letter capitalized.

Users have to set up their password at the first connection.

Users can only sign in, sign up to the application is handled by admins creating the accounts.

Users could have differents permissions depending on their teams.

The Security Team would handle admin actions on the server.

Merging and CI/CD permissions

Merging should be handled by one designated member of each team. All merge requests and others high risks actions for parts of a project related to a team work should be verified and approved by the designated team member.

As a result, merge requests and others high risks actions involving severals teams need to be verified and approved by the designated team member of each involved teams. In case of conflict in between designated team members, the DIT member is to settle the situation.

This procedure is also to be applied to CI/CD procedures. Especielly concerning the deploy phase.

Tools suggested and required budget

- Gitlab (free)
- Half (0.5) a day of man hours (400 €)