



CERCETARE

CI / CD

pipeline cu Jenkins

Student:

Eusebiu Rizescu

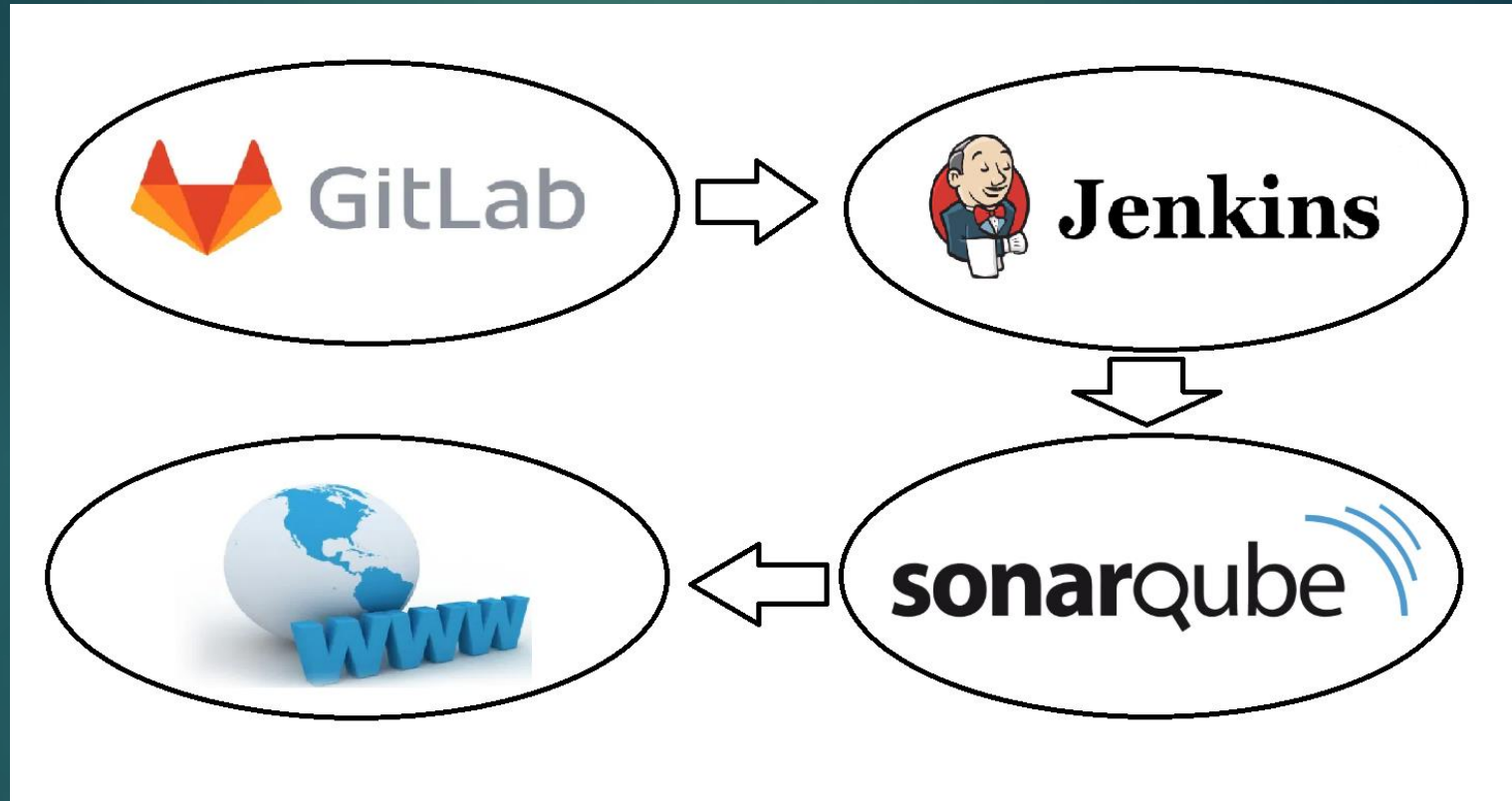
Coordonator științific:

S.I.dr.ing. Radu-Ioan Ciobanu


Ce tooluri am folosit


- ▶ GitLab – Source Code Management
- ▶ Jenkins – Build and Deploy
- ▶ SonarQube – Source code analysis

Pipeline





GitLab





TESTPROJECT 


Project ID: 1


 ▾


 Star 0


 Fork 0

 31 Commits

 1 Branch

 0 Tags


 215 KB Files

 215 KB Storage


master ▾

testproject / + ▾


History

 Find file

Web IDE


 ▾


Clone ▾





Update home.html


Administrator authored 1 month ago


859784b0 


 Auto DevOps enabled





 Add README

 Add LICENSE

 Add CHANGELOG

 Add CONTRIBUTING

 Add Kubernetes cluster

Name	Last commit	Last update
 static	Upload New File	1 month ago
 templates	Update home.html	1 month ago
 issuesFile.py	Update issuesFile.py	1 month ago
 testApp.py	Update testApp.py	1 month ago

Cum porneste si ce face Jenkins

- ▶ GitLab este configurat, ca atunci cand s-a comis ceva, sa apeleze un webhook al lui Jenkins
- ▶ Planul e Jenkins este astfel pornit si apoi:
 - ▶ 1) Porneste analiza de Sonar
 - ▶ 2) Buikeaza aplicatia

Jenkins

Build

Execute shell

Command `echo "Running Sonar"`
`sonar-scanner -Dsonar.projectKey=TESTPRJ -Dsonar.projectName=Test-Project -Dsonar.sources=. -`

See [the list of available environment variables](#)

Advanced...

Execute shell



Command `echo "Building App"`
`sudo systemctl stop flaskapp`
`sudo rm -rf /data/flaskApp/*`
`sudo cp -R * /data/flaskApp`
`sudo systemctl start flaskapp`

See [the list of available environment variables](#)

Advanced...

Add build step ▾

Exemplu fisier cu probleme

 **issuesFile.py** 191 Bytes 

```
1  a1 = b1
2  a2 = b2
3  a3 = b3
4  #a4 = b4
5  #a5 = b5
6  #a6 = b6
7  #a7 = b7
8
9  print __doc__
10
11 class Class(_TEST):
12     def __init__(self, param1, param2, param3, param4, param5, param6, param7, param8):
13         pass
```

SonarQube

Test-Project master

OverviewIssuesSecurity HotspotsMeasuresCodeActivity

Filters

Type

Bug4

Vulnerability0

Code Smell4

Severity

Blocker4

Minor0

Critical1

Info0

Major3

Resolution

Status

Security Category

Creation Date

Language

Rule

Tag

Directory

File

Assignee

Author

issuesFile.py

b1 is not defined. Change its name or define it before using itWhy is this an issue?

BugBlockerOpenNot assigned10min effort

b2 is not defined. Change its name or define it before using itWhy is this an issue?

BugBlockerOpenNot assigned10min effort

b3 is not defined. Change its name or define it before using itWhy is this an issue?

BugBlockerOpenNot assigned10min effort

Remove this commented out code. Why is this an issue?

Code SmellMajorOpenNot assigned5min effort

Replace print statement by built-in function. Why is this an issue?

Code SmellMajorOpenNot assigned5min effort

_TEST is not defined. Change its name or define it before using itWhy is this an issue?

BugBlockerOpenNot assigned10min effort

Add a nested comment explaining why this method is empty, or complete the implementation. Why is this an issue?

Code SmellCriticalOpenNot assigned5min effort

Method "__init__" has 9 parameters, which is greater than the 7 authorized. Why is this an issue?

Code SmellMajorOpenNot assigned20min effort

8 of 8 shown

Semstrele Urmatoare

- ▶ Semestrul 3:
 - ▶ Implementarea in Docker
 - ▶ Alegerea mediului masini virtuale locale, cloud sau cluster de Raspberry Pi
 - ▶ Se vor urmari aspecte de high availibilty, automatic failover, monitorizare, healthcheck, scalare automata a numarului de agenti de Jenkins
- ▶ Semestrul 4: Unificarea muncii anterioare, alaturi de documentarea, testarea si utilizarea sistemului de pipeline final

Demo

- ▶ Un demo complet (2 minute) se poate gasi in urmatorul video:
- ▶ <https://vimeo.com/412082201>