

Title: GitLab CI is failing due to maven-surefire-plugin with VM crash

Post Body:

We have around of 10 different applications that are Spring Boot projects with Groovy.

All of our projects build correctly in all developer work stations and they were running correctly until yesterday, however suddenly all of them stopped working today only in our GitLab CI pipelines with below error:

```
[INFO] Tests run: 0, Failures: 0, Errors: 0, Skipped: 0 [INFO] [INFO] -----
```

I've pulled the same docker image that is using our GitLab CI pipeline, tested building the project and everything works correctly. However, the error occurs only in GitLab CI.

After an investigation looks like surefire is creating a fork that makes GitLab CI docker crash. In order to fix this, I've added below explicit configuration to avoid forked VM and this got rid of above error.

```
<!-- Needed only for GitLab CI --> <plugin>          <groupId>org.apache.maven.plugins</groupId>          <artifactId>maven-surefire-plu
```

Do you know why this is occurring? Is there another way to fix GitLab CI to avoid this issue? I don't really like this workaround, since it is just a way to avoid GitLab CI to explode but don't know how Docker is handled behind the scenes in Gitlab.

Accepted Answer:

The issues are related to the latest maven docker images.

There is an open github issue where people reported the same problem: <https://github.com/carlossg/docker-maven/issues/90>

After an investigation I could sort out the problem using alpine version that saved me of adding the maven-surefire-plugin workaround. It's important to mention that using the surefire workaround brings another problem such as plugins like jacoco don't run since they need the VM fork.

So, these images work seamlessly (no surefire workaround was needed):

- maven:3.3.9-jdk-8
- maven:3.5.3-jdk-8
- maven:3.5.4-jdk-8-alpine
- maven:3.6.0-jdk-8-alpine

However if we use the non alpine version the issue persists.

Highest Rated Answer:

I had the same issue

You can find here the issue I created on gitlab for this, with detailed explanations : <https://gitlab.com/gitlab-org/gitlab-ce/issues/53734>

Also, I found a 'workaround'. maven:3.5.3-jdk-8 as the docker image on which the build is executing. Or, the forkCount=0 property on maven-surefire-plugin.

But this is disturbing. How, out of a sudden, builds start to fail? Don't know, and I don't think I have the experience necessary to solve this.

Till then, maybe this helps you