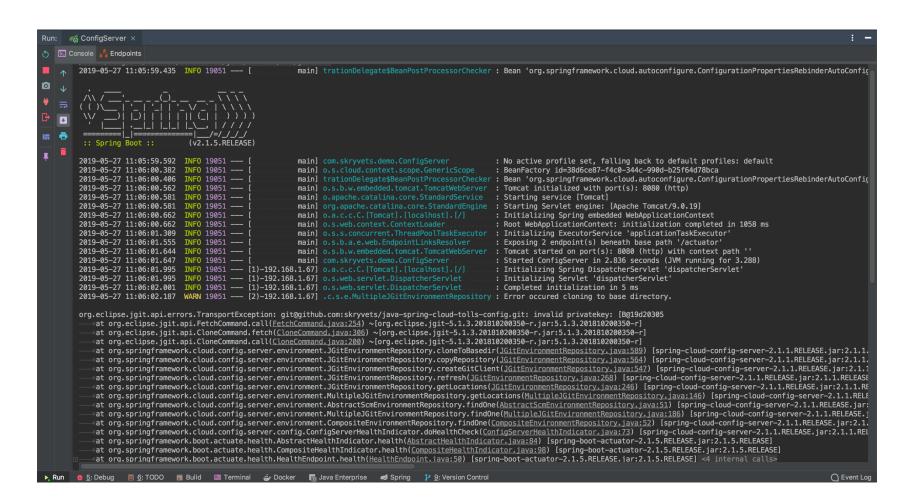
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# Solved - Spring Cloud Config Server invalid SSH key on a MacOS Mojave

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#### Introduction

More and more often it's all about configuration and some hidden "setting" which does the job...

Spring Config Server allows to fetch a configuration from the remote git repository via https:

```
spring:
cloud:
config:
  server:
     git:
     uri: https://github.com/my-organization/my-config-repo.git
     username: goat
     password: mystrongpa$$word
```

I'm not a security expert, but this approach has an obvious downside ("username" and "password" in code). One might argue that it's possible to inject the values via environment variables or using some other technique. Nonetheless, the main flaw is the idea of supplying "username" and "password" in the first place.

## An alternative way and the problem

An better technique is to use ssh key:

```
spring:
cloud:
  config:
   server:
      git:
      uri: git@github.com:my-organization/my-config-repo.git
```

It's a good solution, but **doesn't work out of the box**. According to <u>spring docs</u> it should:

If you do not use HTTPS and user credentials, SSH should also work out of the box when you store keys in the default directories ( ~/ . ssh ) and the URI points to an SSH location, such as git@github.com:configuration/cloud-configuration.It is important that an entry for the Git server be present in the ~/.ssh /known hosts file and that it is in ssh-rsa format. Other formats (such as ecdsa-sha2-nistp256) are not supported. To avoid surprises, you should ensure that only one entry is present in the known\_hosts file for the Git server and that it matches the URL you provided to the config server. If you use a hostname in the URL, you want to have exactly that (not the IP) in the known\_hosts file. The repository is accessed by using JGit, so any documentation you find on that should be applicable. HTTPS proxy settings can be set in ~/.git/config or (in the same way as for any other JVM process) with system properties ( -Dhttps.proxyHost and -Dhttps.proxyPort).

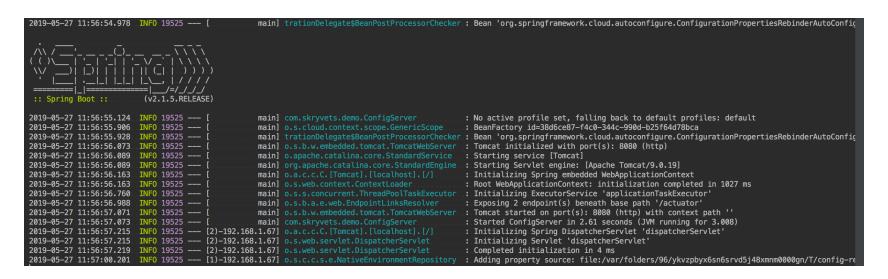
After googling around I found multiple threads on StackOverflow that helped other people. Particularly, this one <a href="Spring Cloud Config cannot clone private bitbucket">Spring Cloud Config cannot clone private bitbucket</a> repository using ssh key. However, after applying proper configuration in my ~/.ssh /config file it still didn't work (as you can see from the screenshot for this post).

#### The solution

Turns out the problem is hidden in the bowels of Mac OS Mojave (and any later version). By default, It creates the key in different, new "OpenSSH" format where Spring only supports ssh-rsa (more on this <a href="here">here</a>). The solution is to re-generate ssh key for the account using the following command:

```
ssh-keygen -m PEM -t rsa -b 4096 -C "your_email@example.com"
```

Once I applied newly generated key, the application was able to start successfully:



Thanks to Wpigott who pointed this solution.

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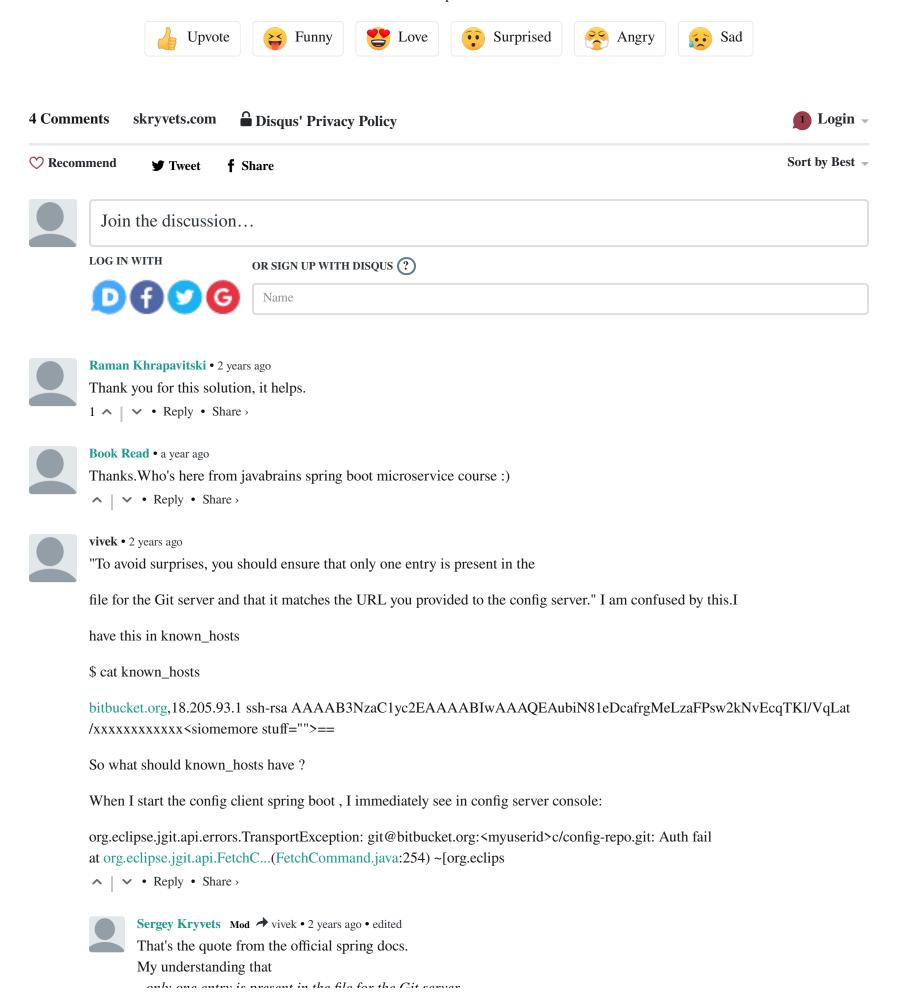
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#### What do you think?

#### 2 Responses



- it matches the URL you provided to the config server

Url you have in your known\_hosts (like on your example bitbucket.org) matches the url in your application properties or yml file:

spring:

cloud:

config:

server:

git:

uri: bitbucket.org/path-to-your-repo

Now, if that correct, and you still don't have it working (and as you showed in your example you have ssh-rsa which is supported encryption format) are you sure that you can access that repository from your local machine directly (without using spring server)? Try out ssh -T bitbucket.org command as it's described in more details here https://help.github.com/en/....

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