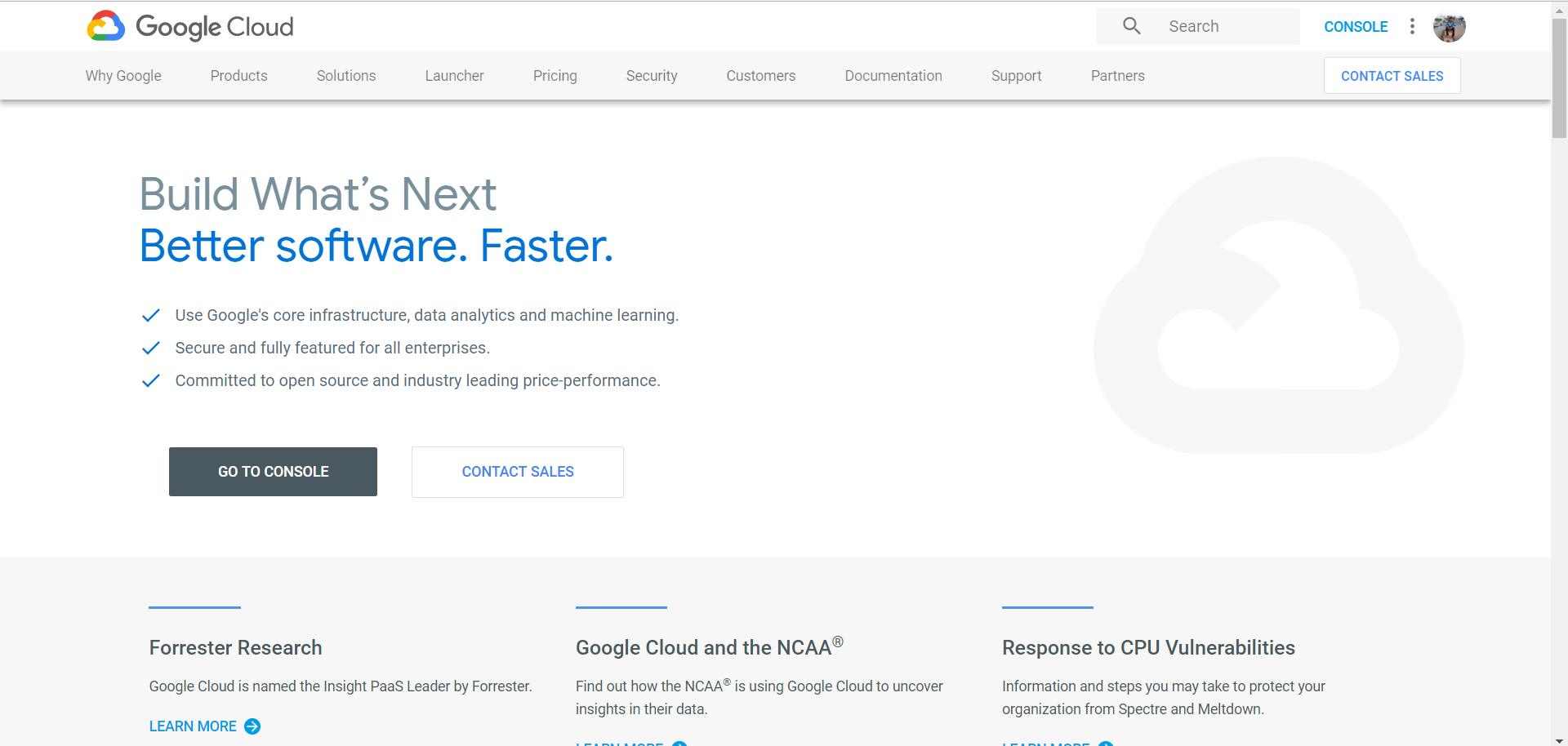
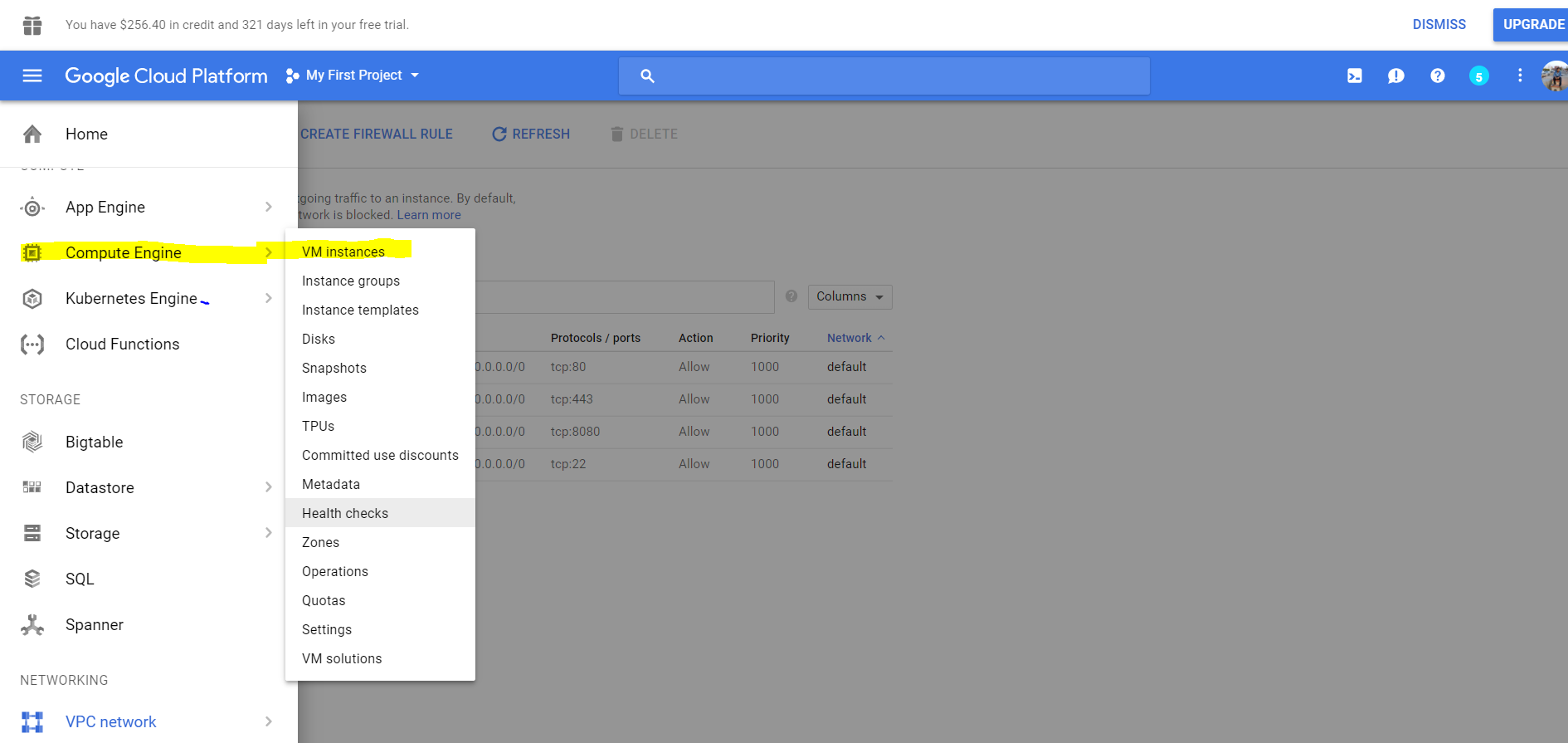
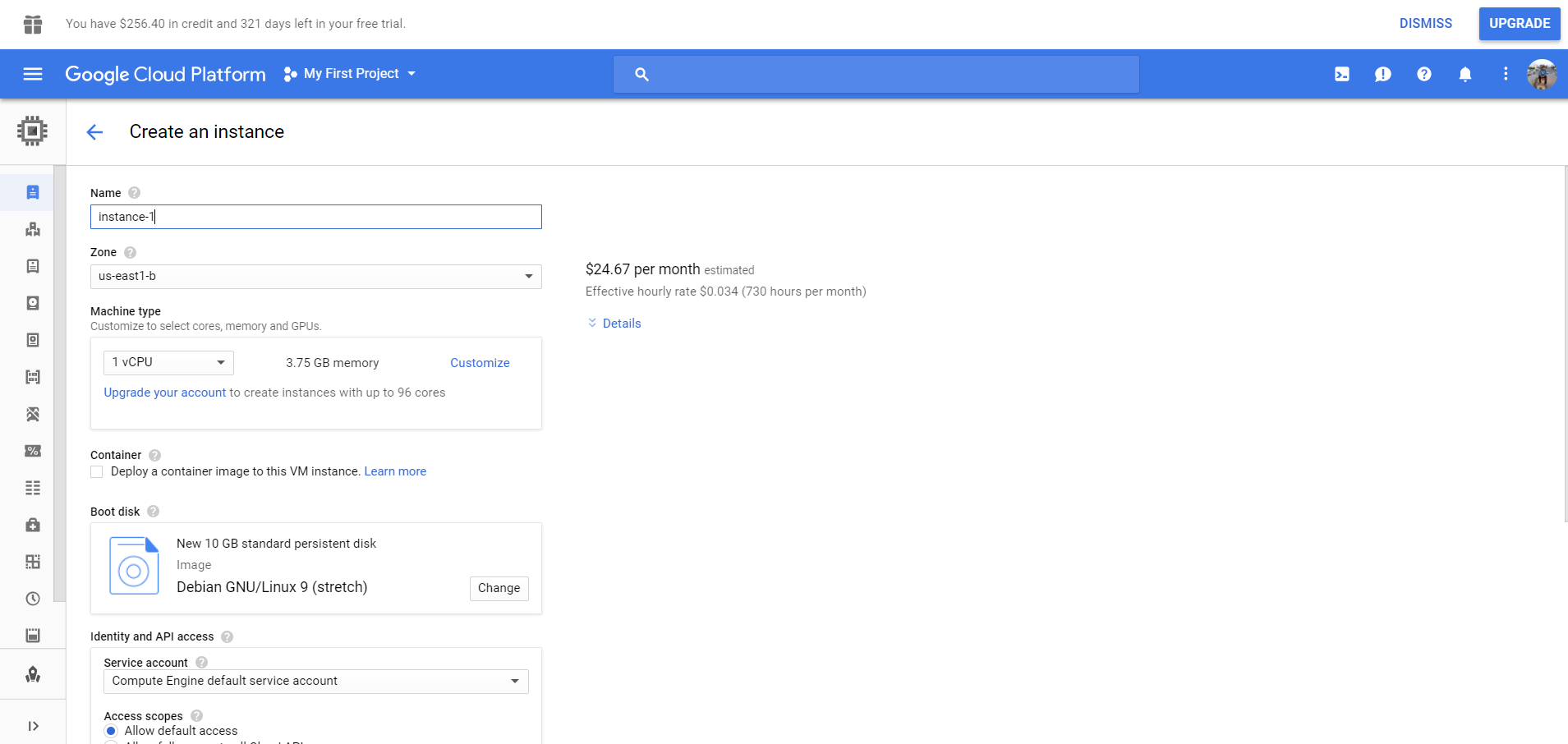
To create instance in google cloud visit <https://cloud.google.com/>



Then select the go to console option

You can see the following GUI on screen there select the product and services





Jenkins installation in centos 7

su jenkins -s /bin/bash to change to Jenkins user

1. <https://www.vultr.com/docs/how-to-install-jenkins-on-centos-7> is good\*\*\*\*

install wget

set environment variables for java

for assigning varables used command is

1. <http://kanchana-myworld.blogspot.com/2017/11/installing-jenkins-in-gcp-instance.html>

<https://hostpresto.com/community/tutorials/how-to-install-jenkins-on-centos-7/>

<https://wiki.jenkins.io/display/JENKINS/Installing+Jenkins+on+Red+Hat+distributions>

<https://stackoverflow.com/questions/48871323/setting-java-environmental-variables-on-centos-7-breaks-the-path>

[https://www.2daygeek.com/setup-java-environment-variables-on-ubuntu-centos-debian-fedora-mint-rhel-opensuse/#](https://www.2daygeek.com/setup-java-environment-variables-on-ubuntu-centos-debian-fedora-mint-rhel-opensuse/)

<https://www.centoshowtos.org/environment-variables/>

if you get any error 403 with git integration http://www.technowise.in/2016/10/fix-no-valid-crumb-was-included-in.html

java installation and settingup environment varables:

1.wget --no-check-certificate -c --header "Cookie: oraclelicense=accept-securebackup-cookie" <http://download.oracle.com/otn-pub/java/jdk/8u161-b12/2f38c3b165be4555a1fa6e98c45e0808/jdk-8u161-linux-x64.rpm>

2.yum install –y jdk-8u161-linux-x64.rpm

3. alternatives --config java

4.export the java-home,path

export JAVA\_HOME=/usr/java/jdk1.8.0\_161/jre

export PATH=$PATH:JAVA\_HOME/bin

export PATH=$PATH:$JAVA\_HOME/bin

<https://help.github.com/articles/changing-a-remote-s-url/> -----git conflicts answers

what maven do?

1.validate code

2.compile code

3.test the code

4.package code

5.verfiy the code

6.install required packages

7.deploy

Jenkins Installation procedure:

1.wget <https://pkg.jenkins.io/redhat-stable/jenkins-2.89.4-1.1.noarch.rpm>

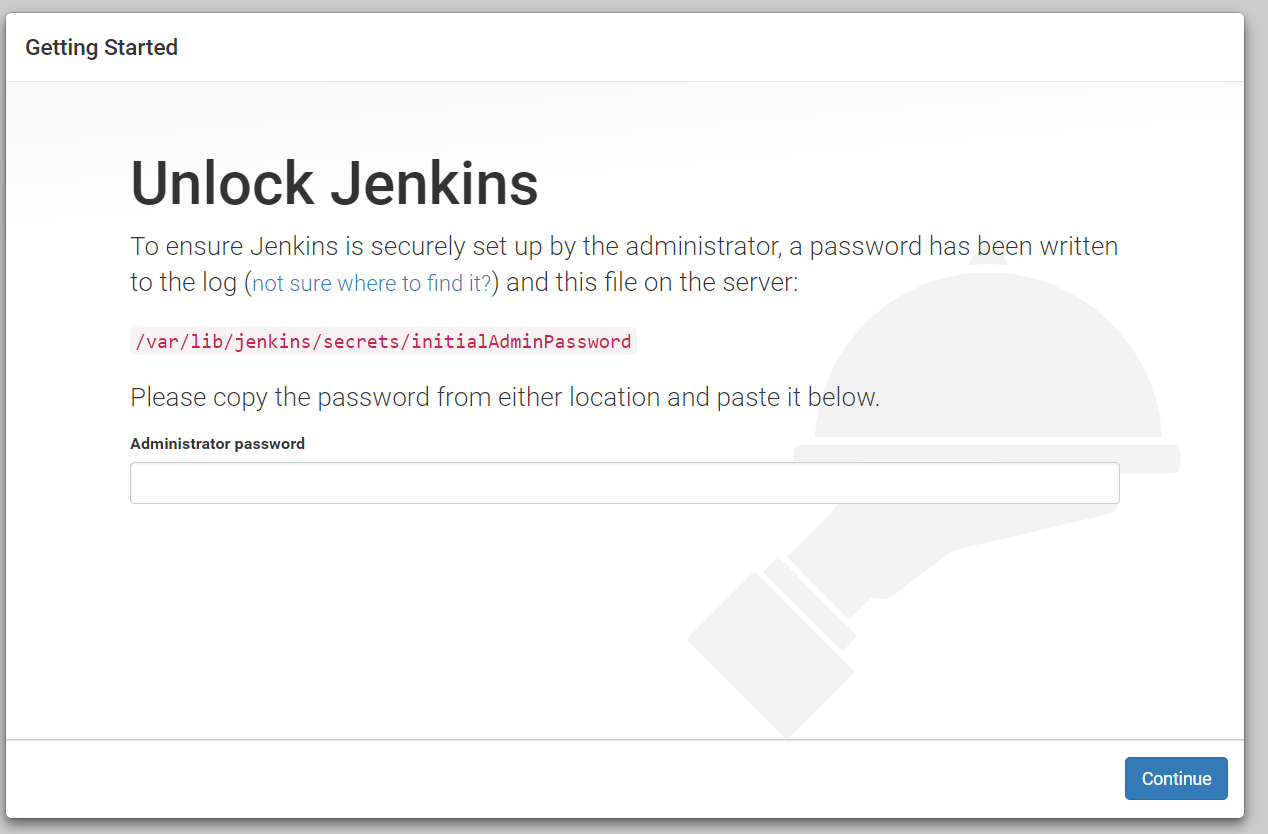
2. rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key

3.Yum install –y jenkins-2.89.4-1.1.noarch.rpm

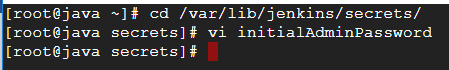
4.rpm –qa Jenkins

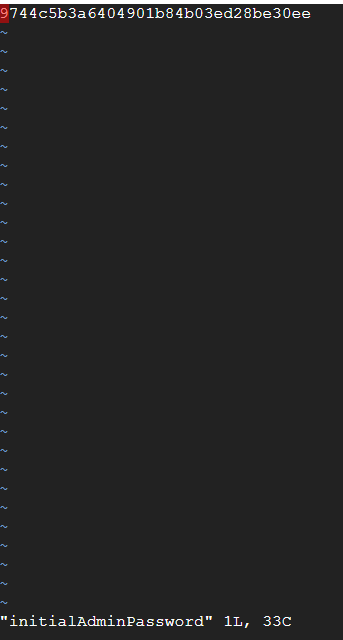
5.systemctl start jenkins

6.systemctl status jenkins

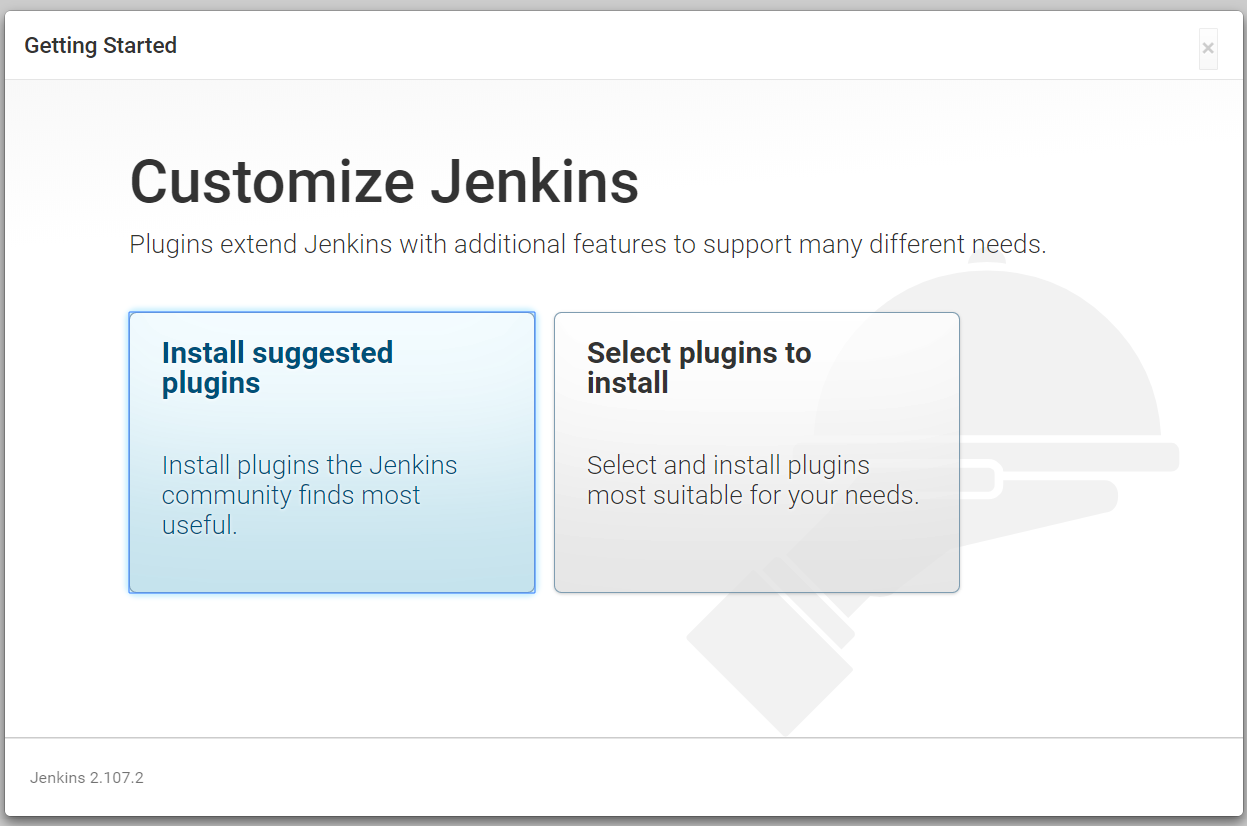


7.it shows the Jenkins passwords location





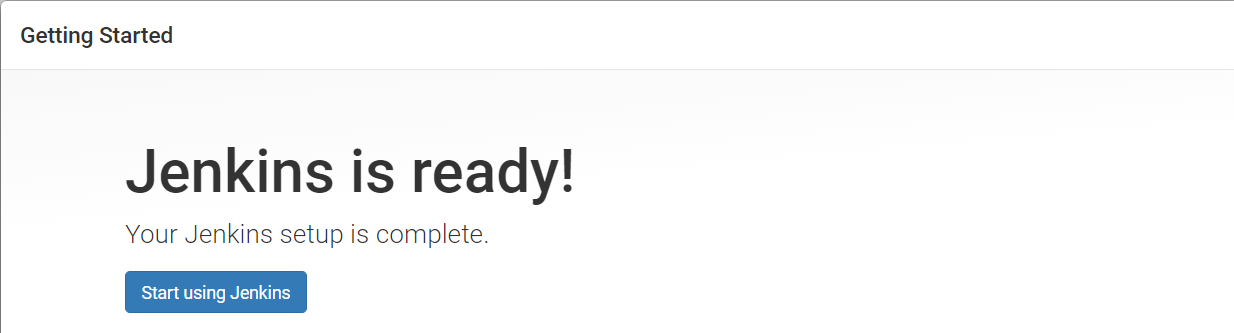
9.after entering the intial password you will see this screen



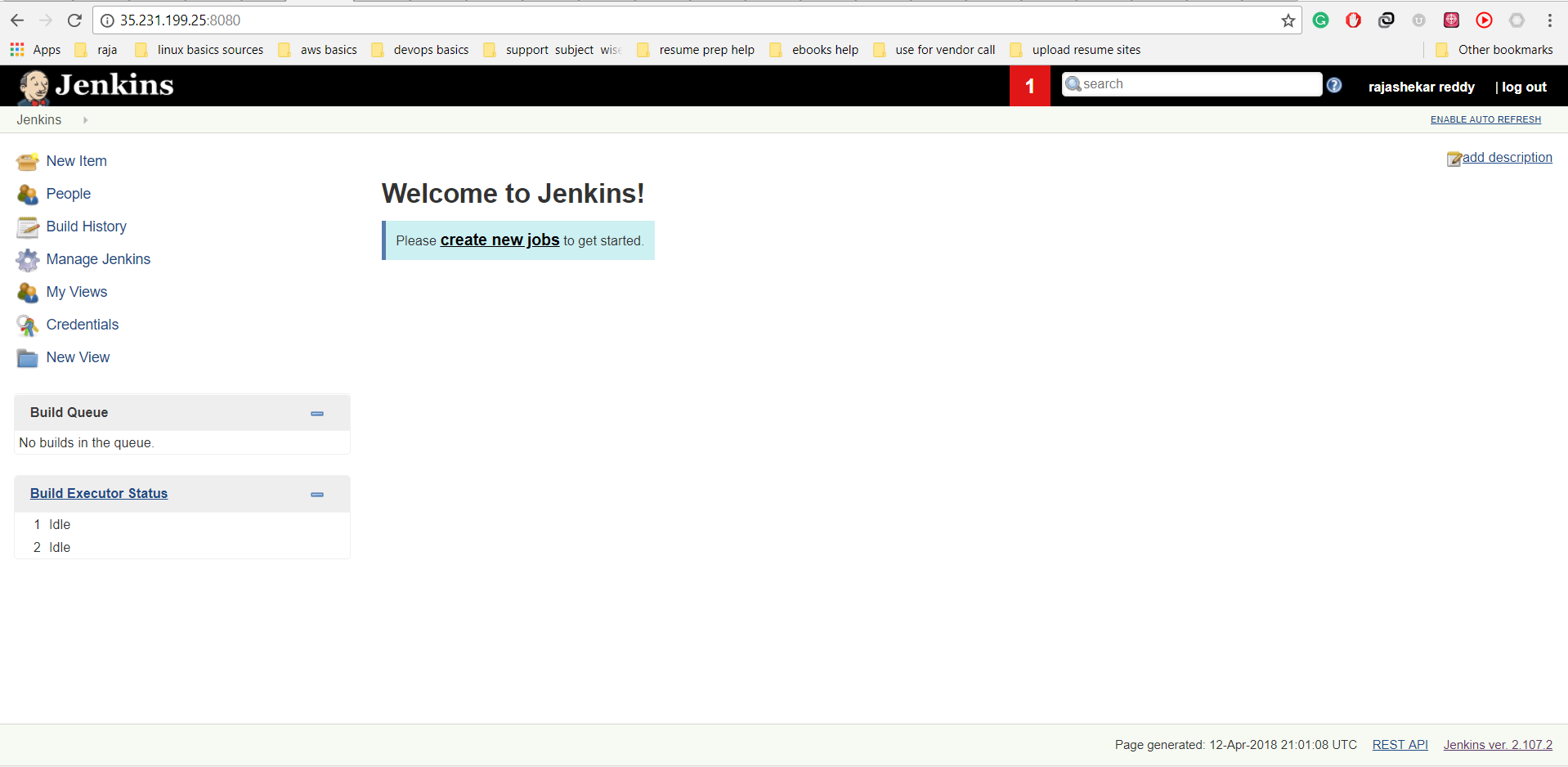
10.You have two options to install plugins install suggested plugin or select plugins to install you can choose any option depends on your requirement

11.For initially it ask for add admin details you can fill your details here

12.after filling of admin details Jenkins setup is complete it pop-up the below screen



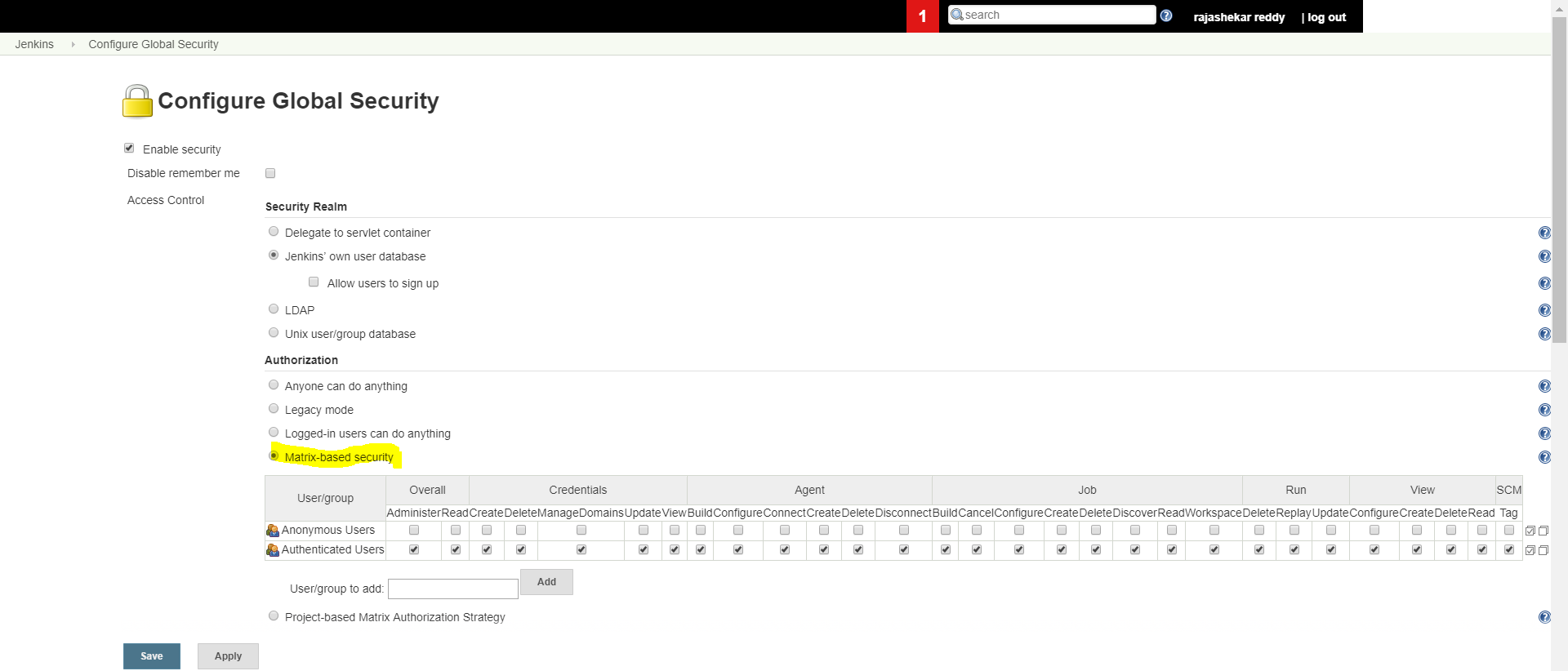
13.if you click the start Jenkins option it will shows Jenkins dashboard



14.first we will see about Jenkins administration

Check the security is enabled or not ,if not make sure to enable it

For the Authentication you have different options you can choose the option the depends on the size of your organizations

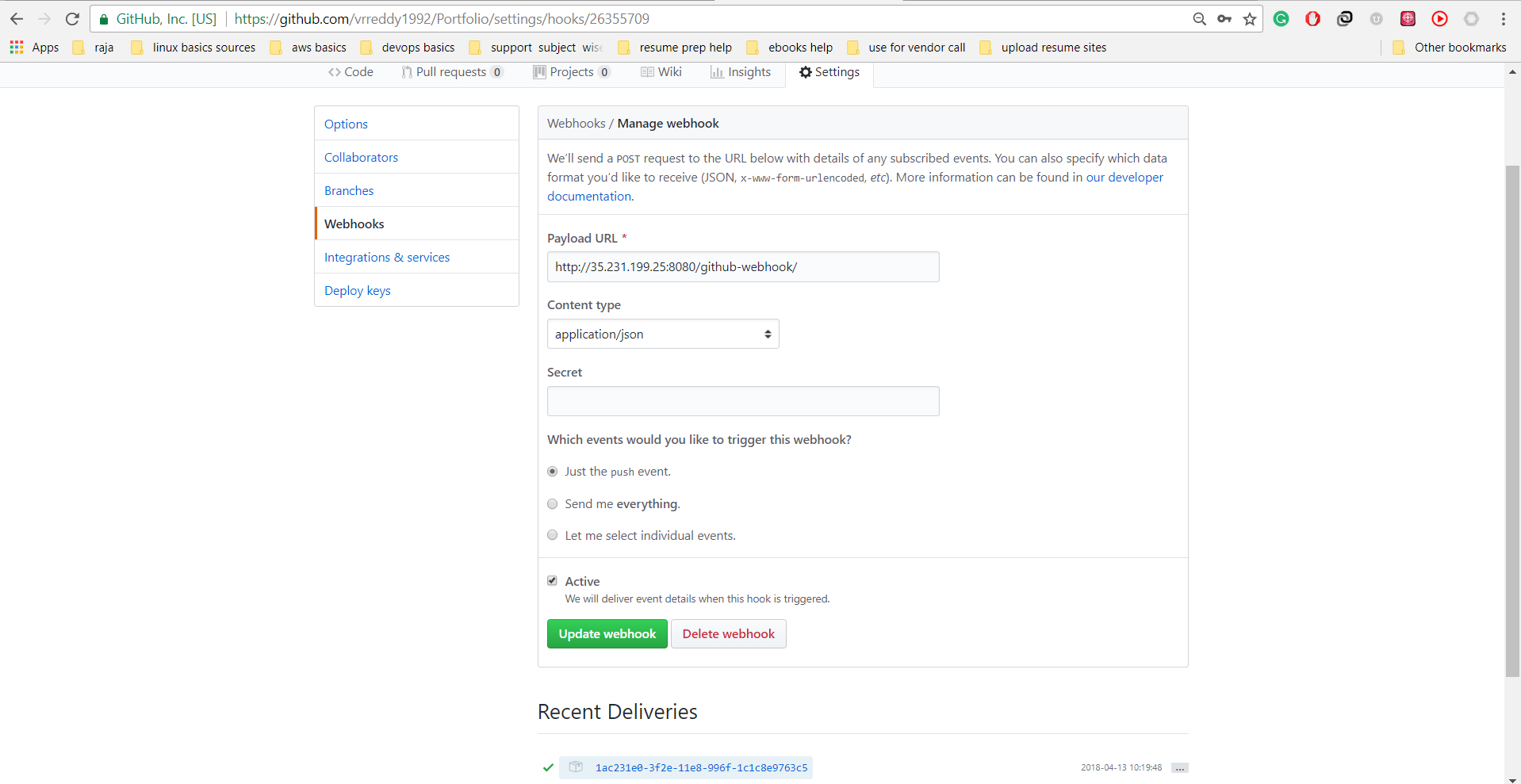


If you want to go with role base strategy you need to install role base strategy plugin

Jenkins integration with github:

Payload URL:Jenkins url/github-webhook/

Content type:select json



Tomcat Installation

<https://www.youtube.com/watch?v=kH8iupBo0Yc>

Tomcat Installation:

Before installing java installation is reqired

1.sudo –i to goto root

2.yum install –y wget

create group tomcat for maintaining security

3.groupadd tomcat

first you need to deside the where do you want to install Tomcat here I’m creating tomcat directory in /opt

4.cd /opt

5.mkdir tomcat

6.cd tomcat

Then create the user tomcat in the tomcat group

7. useradd -g tomcat -d /opt/tomcat tomcat

8.wget <http://www-eu.apache.org/dist/tomcat/tomcat-8/v8.5.30/bin/apache-tomcat-8.5.30.tar.gz>

9. tar –xvzf apache-tomcat-8.5.30.tar.gz

10.yum install –y tomcat

11.cd /opt/tomcat/ apache-tomcat-8.5.30

12. [root@java apache-tomcat-8.5.30]# ls -ltr

total 92

drwxr-x---. 2 root root 6 Apr 3 20:04 work

drwxr-x---. 2 root root 6 Apr 3 20:04 logs

drwxr-x---. 7 root root 81 Apr 3 20:04 webapps

-rw-r-----. 1 root root 16246 Apr 3 20:07 RUNNING.txt

-rw-r-----. 1 root root 7138 Apr 3 20:07 RELEASE-NOTES

-rw-r-----. 1 root root 1723 Apr 3 20:07 NOTICE

-rw-r-----. 1 root root 57092 Apr 3 20:07 LICENSE

drwx------. 2 root root 238 Apr 3 20:07 conf

drwxr-x---. 2 root root 30 Apr 15 01:18 temp

drwxr-x---. 2 root root 4096 Apr 15 01:18 lib

drwxr-x---. 2 root root 4096 Apr 15 01:18 bin

[root@java apache-tomcat-8.5.30]#

cd ..

[root@java tomcat]# ls -ltr

total 9320

-rw-r--r--. 1 root root 9541892 Apr 3 20:35 apache-tomcat-8.5.30.tar.gz

drwxrw-r-x. 9 root root 160 Apr 15 01:18 apache-tomcat-8.5.30

[root@java tomcat]# chmod 775 apache-tomcat-8.5.30 here we are giving execution permission to group

14.we want tomcat as a tomcat group and tomcat user for that use the following command

15. [root@java tomcat]# chown tomcat:tomcat -R apache-tomcat-8.5.30

[root@java tomcat]# cd apache-tomcat-8.5.30

[root@java apache-tomcat-8.5.30]# ls –ltr

total 92

drwxr-x---. 2 tomcat tomcat 6 Apr 3 20:04 work

drwxr-x---. 2 tomcat tomcat 6 Apr 3 20:04 logs

drwxr-x---. 7 tomcat tomcat 81 Apr 3 20:04 webapps

-rw-r-----. 1 tomcat tomcat 16246 Apr 3 20:07 RUNNING.txt

-rw-r-----. 1 tomcat tomcat 7138 Apr 3 20:07 RELEASE-NOTES

-rw-r-----. 1 tomcat tomcat 1723 Apr 3 20:07 NOTICE

-rw-r-----. 1 tomcat tomcat 57092 Apr 3 20:07 LICENSE

drwx------. 2 tomcat tomcat 238 Apr 3 20:07 conf

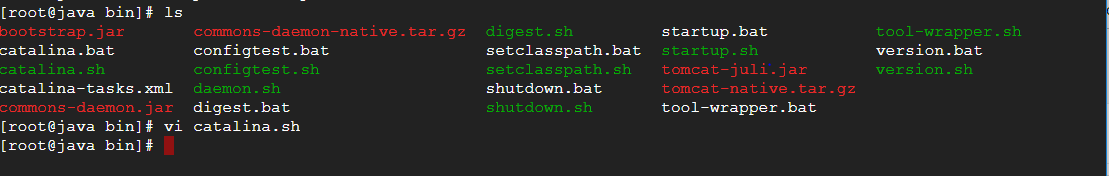
drwxr-x---. 2 tomcat tomcat 30 Apr 15 01:18 temp

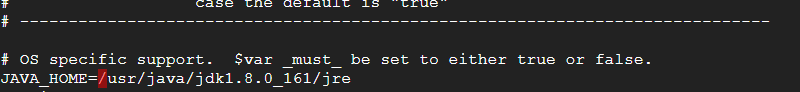
drwxr-x---. 2 tomcat tomcat 4096 Apr 15 01:18 lib

drwxr-x---. 2 tomcat tomcat 4096 Apr 15 01:18 bin

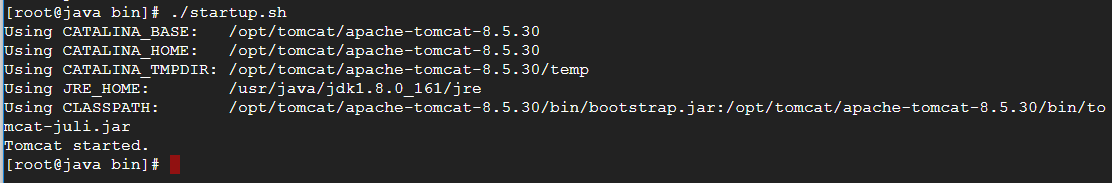
[root@java apache-tomcat-8.5.30]#

16. chmod 775 \* changing permissions we are giving allrights to tomcat group and tomcat user

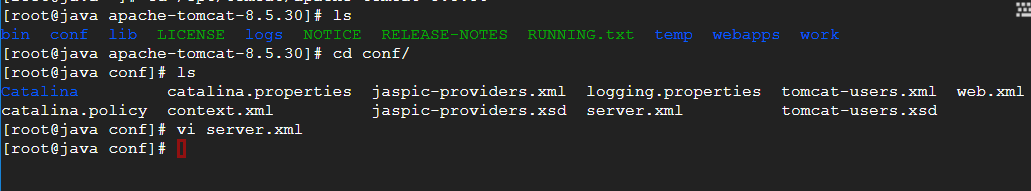
17. 

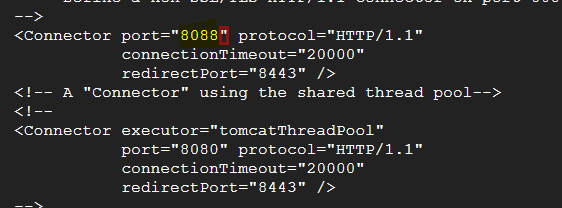


18.

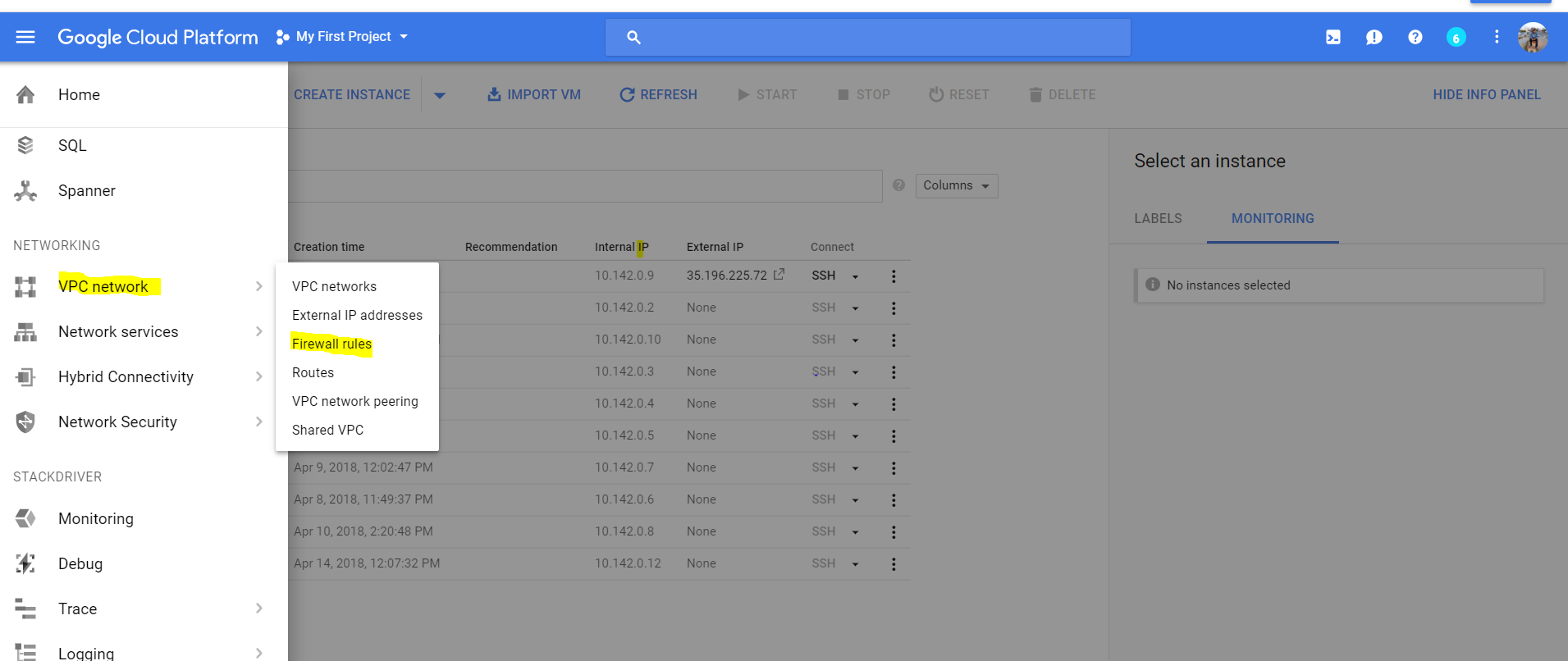


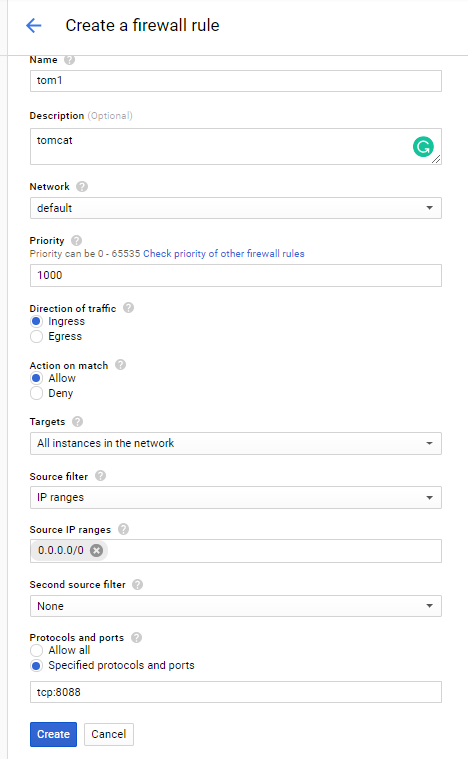
19.if you want to change port number

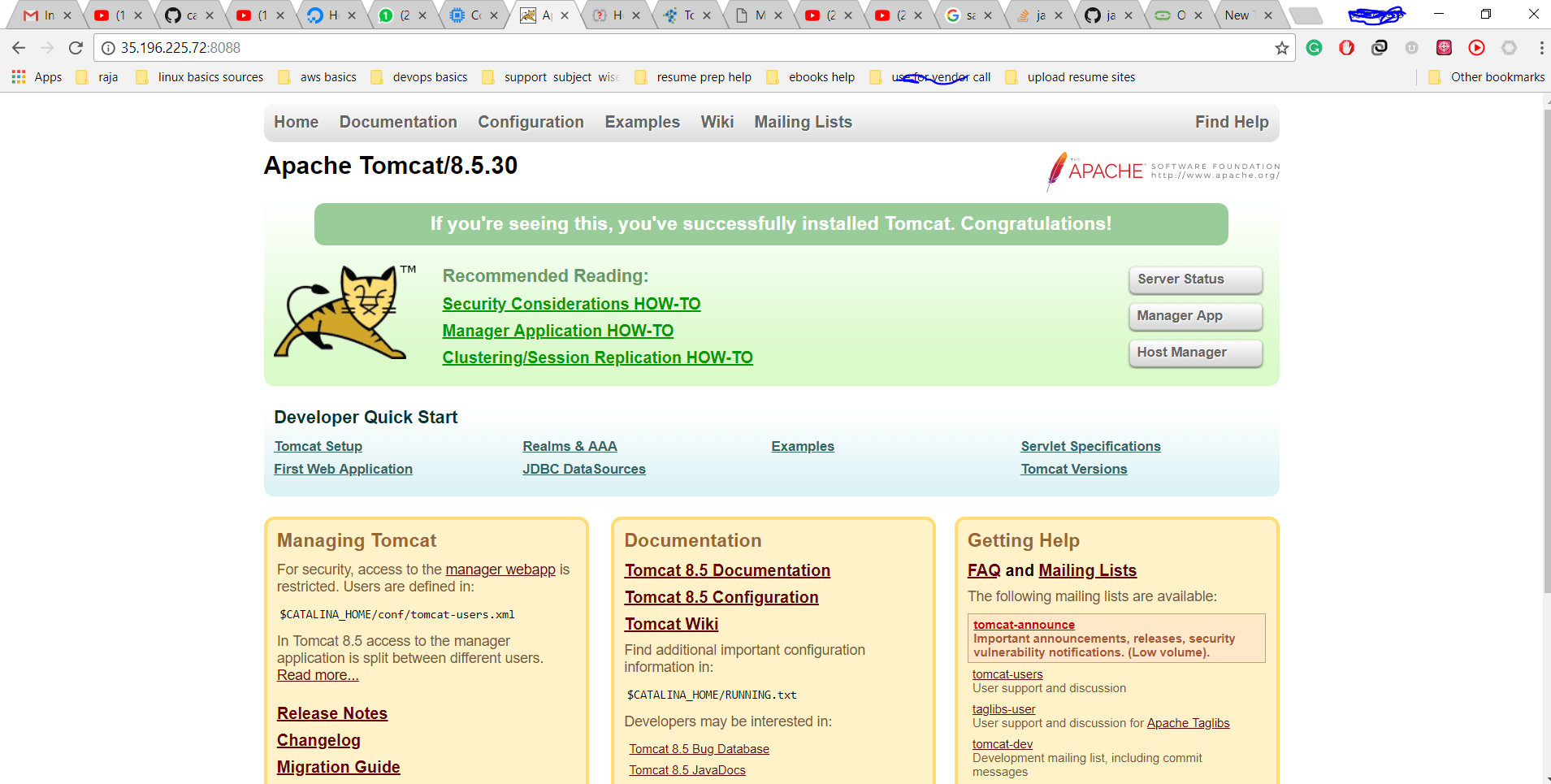




20. add the port number to instance firewall

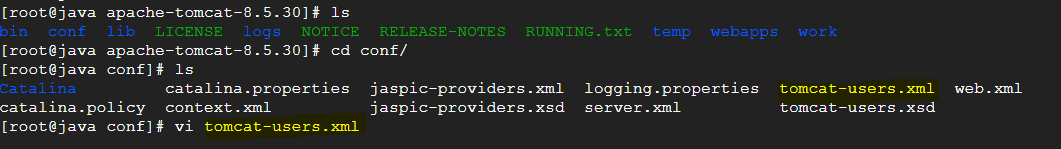


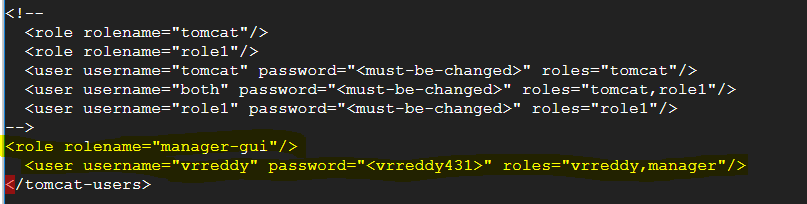


21

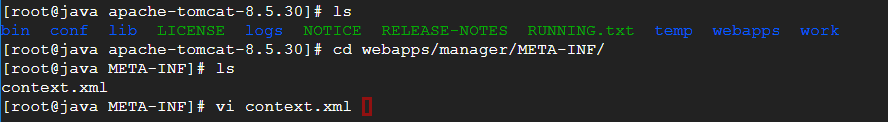
22.to setup user name and password for tomcat

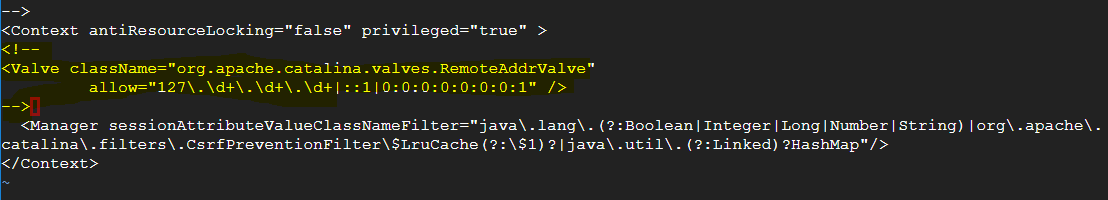
<user username="deployer" password="deployer" roles="manager-gui,manager-script,admin" />

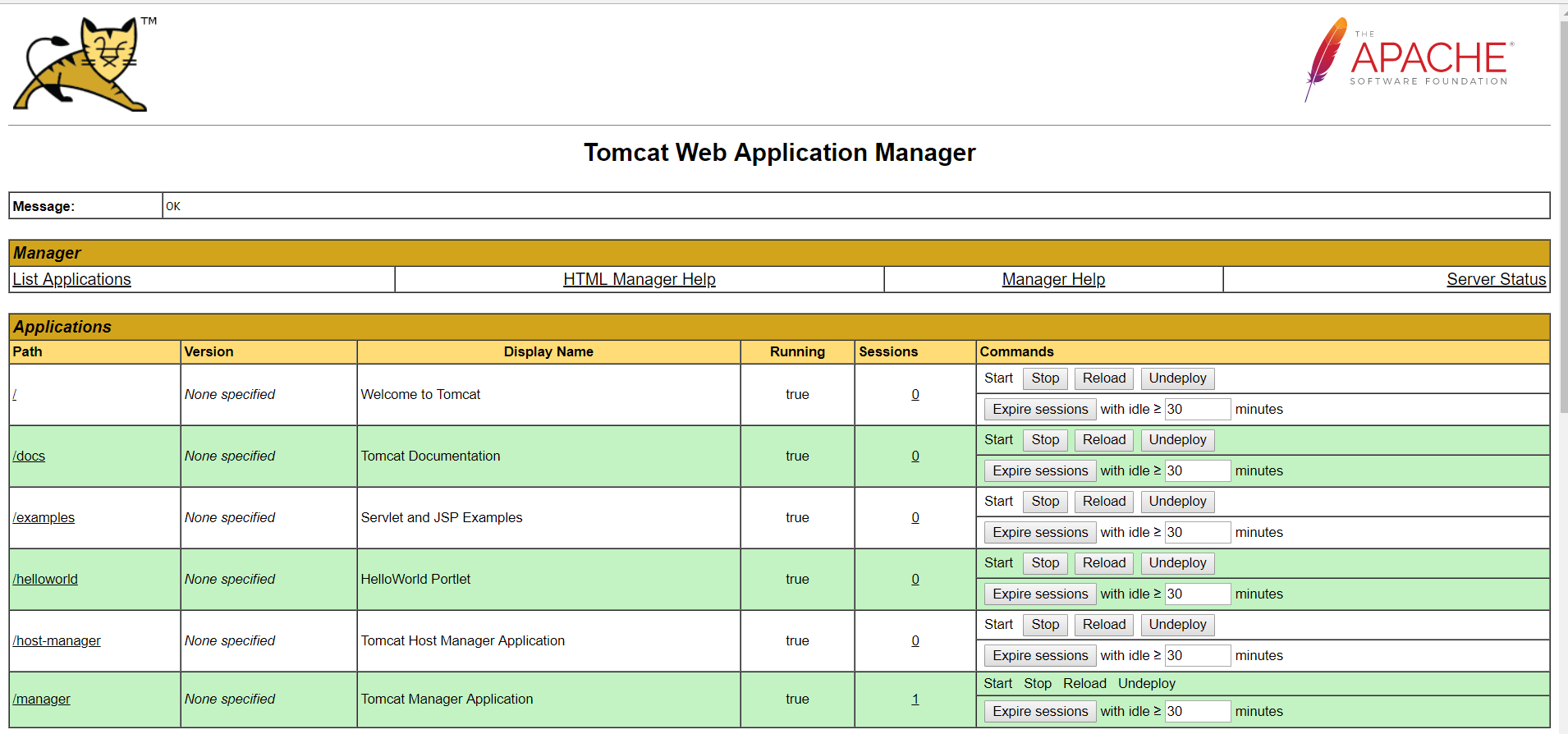




23.







<https://github.com/sivajavatechie/JenkinsWar----basic> war file deployment in tomcat