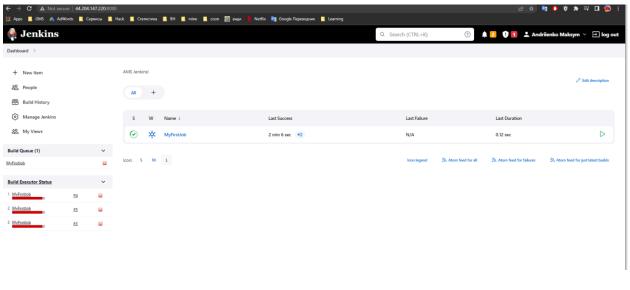
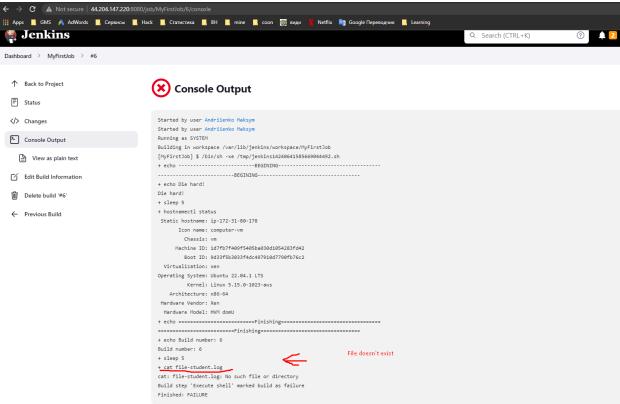
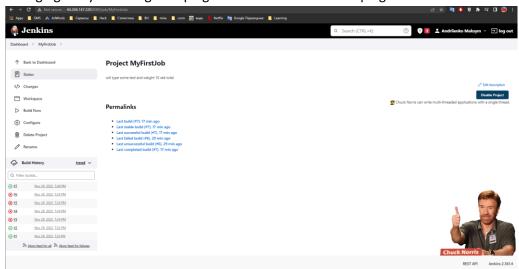
1) Created new job, add sleep timer and run it parallel at 3 agents:





2) Changing UI by installing new plugins – added Chuck Norris plugin:



3) Changing saving builds quantity according to instructions:

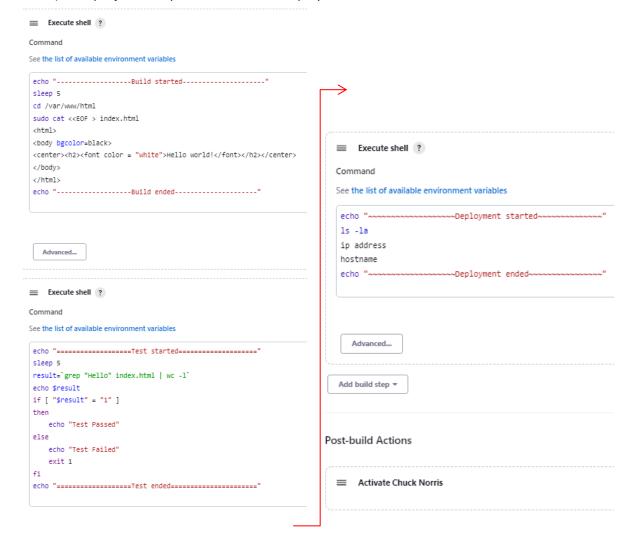
Before changing:

```
ubuntu@ip-172-31-80-178:/var/lib/jenkins/jobs/MyFirstJob/builds$ ls
1 10 11 2 3 4 5 6 7 8 9 legacyIds permalinks
```

After changes:

```
ubuntu@ip-172-31-80-178:/var/lib/jenkins/jobs/MyFirstJob/builds$ ls
10 11 12 9 legacyIds permalinks
```

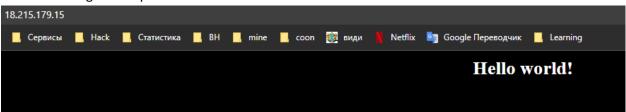
4) Simple job example in Jenkins with deploy

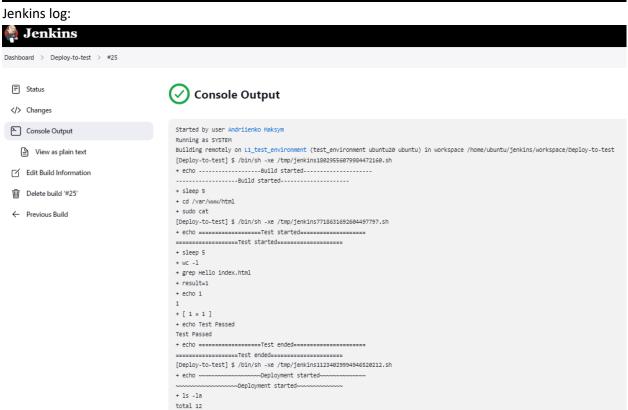


Before executing the script:



After executing the script:

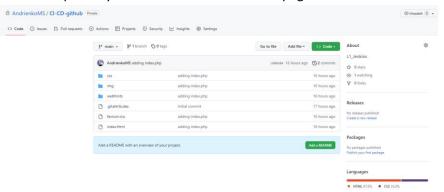




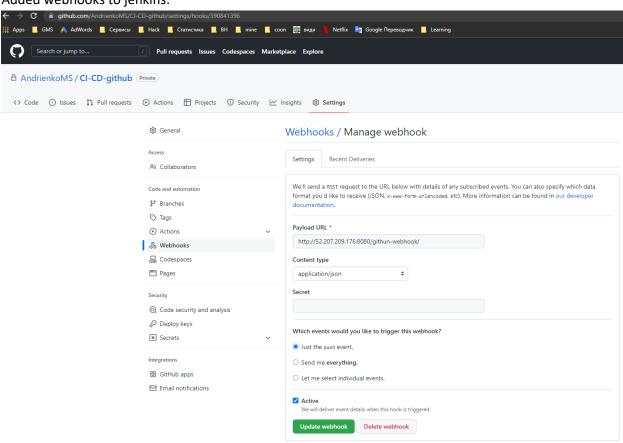
```
drwxrwxr-x 2 ubuntu ubuntu 4096 Nov 30 17:14 .
drwxrwxr-x 5 ubuntu ubuntu 4096 Nov 30 17:14 ..
-rw-rw-r-- 1 ubuntu ubuntu 141 Nov 30 17:33 index.html
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
   link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
      valid lft forever preferred lft forever
    inet6 ::1/128 scope host
      valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9001 qdisc fq_codel state UP group default qlen 1000
    link/ether @a:4e:82:a2:76:5f brd ff:ff:ff:ff:ff
    inet 172.31.22.191/20 metric 100 brd 172.31.31.255 scope global dynamic eth0
      valid_lft 2822sec preferred_lft 2822sec
    inet6 fe80::84e:82ff:fea2:765f/64 scope link
      valid_lft forever preferred_lft forever
ip-172-31-22-191
                       ----Deployment ended-----
          -----Deployment ended-----
Finished: SUCCESS
```

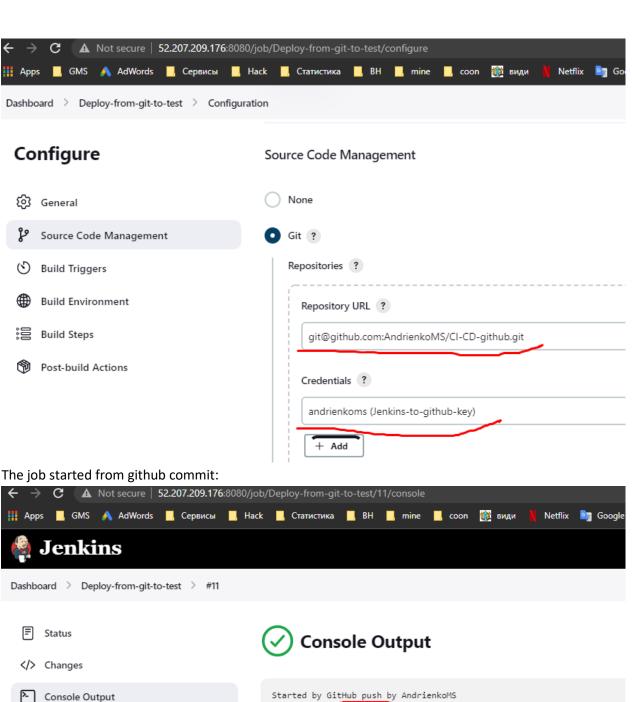
5) Launching from github:

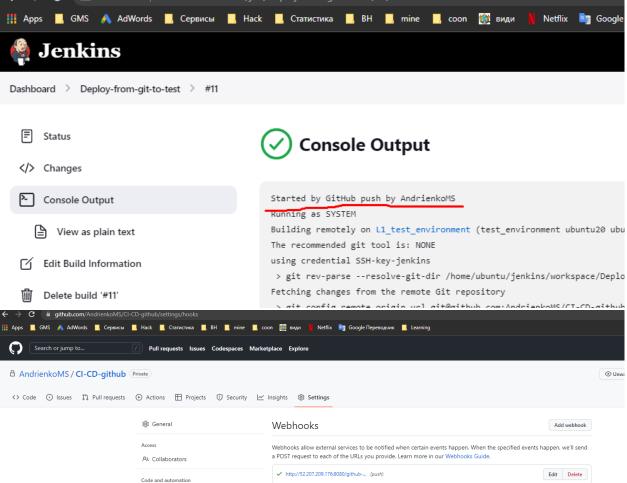
Created repository and filled it with static html page:



Added webhooks to jenkins:







P Branches

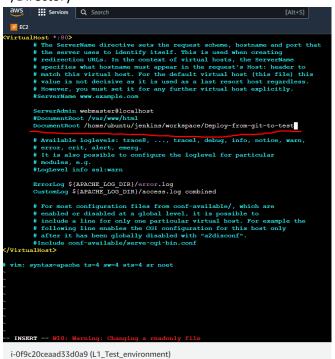
Files are delivered to server:

```
ubuntu@ip-172-31-22-191:~/jenkins/workspace/Deploy-from-git-to-test$ ls
     favicon.ico
                 img index.html
                                   test.txt
                                             webfonts
                 mpor befreez ricip
 GNU nano 4.8
                                            svzax-custom.conf
VirtualHost *:80>
       <Directory /home/svzax/public_html/>
                Options Indexes FollowSymLinks
                AllowOverride None
                Require all granted
       </Directory>
       DocumentRoot /home/svzax/public_html/
/VirtualHost>
```

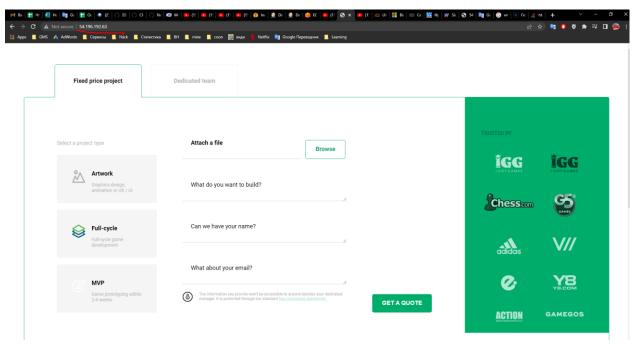
cd /etc/apache2/sites-available sudo a2dissite * sudo a2ensite custom.conf sudo service apache2 restart ========= sudo vim /etc/apache2/apache2.conf

<Directory /home/ubuntu/jenkins/workspace/Deploy-from-git-to-test/>
 Options Indexes FollowSymLinks
 AllowOverride None
 Require all granted

</Directory>

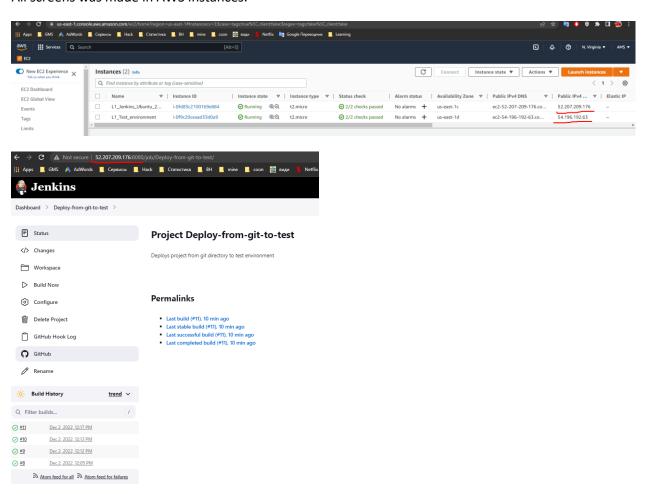


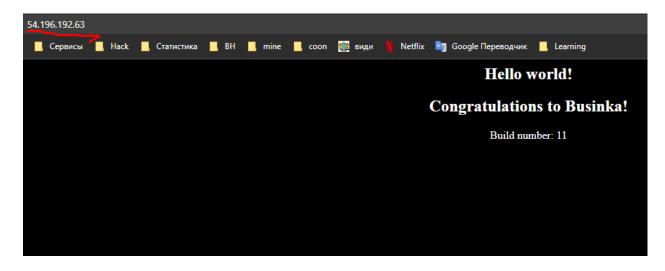
sudo chmod 777 /home/ubuntu/jenkins/workspace/Deploy-from-git-to-test -R



6) Simple CI/CD pipeline example using AWS

All screens was made in AWS instances:





7) Jenkins CLI client

From host, ubuntu:

wget localhost:8080/jnlpJars/jenkins-cli.jar

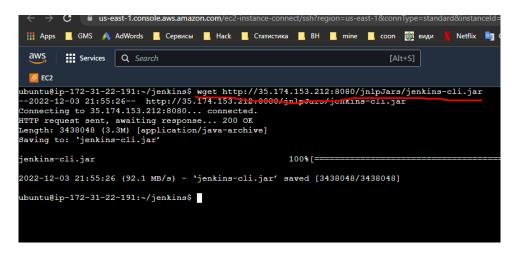
sudo java -jar jenkins-cli.jar -auth ams:11d330eecc7b55ef974d6c339a6b2f59ef -s

http://localhost:8080 who-am-i

ubuntu@ip-172-31-80-178:-\$ sudo java -jar jenkins-cli.jar -auth ams:11d330eecc7b55ef974d6c339a6b2f59ef -s http://localhost:8080 who-am-i Authenticated as: ams Authorities: authenticated

8) From remote linux:

wget http://35.174.153.212:8080/jnlpJars/jenkins-cli.jar



java -jar jenkins-cli.jar -auth ams:11d330eecc7b55ef974d6c339a6b2f59ef -s http:// 35.174.153.212:8080 who-am-i

```
ubuntu@ip-172-31-22-191:~/jenkins$ java -jar jenkins-cli.jar -auth ams:11d330eecc7b55ef974d6c339a6b2f59ef -s http://35.174.153.212:8080 who-am-i
Authorities:
authenticated
authenticated
ubuntu@ip-172-31-22-191:~/jenkins$
```

9) From windows (powershell):

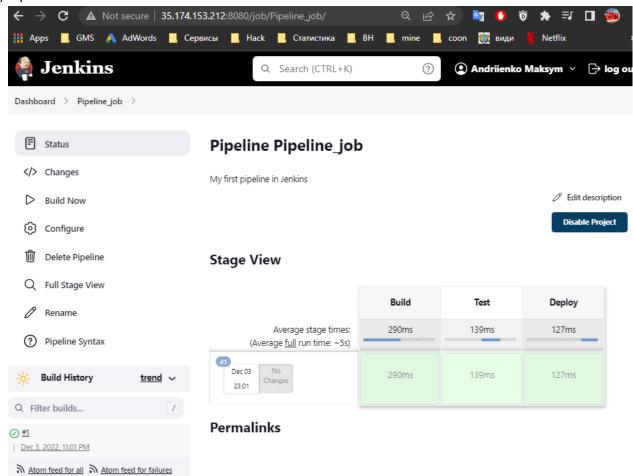
\$env:JENKINS_USER_ID="ams"

\$env:JENKINS API TOKEN="11d330eecc7b55ef974d6c339a6b2f59ef"

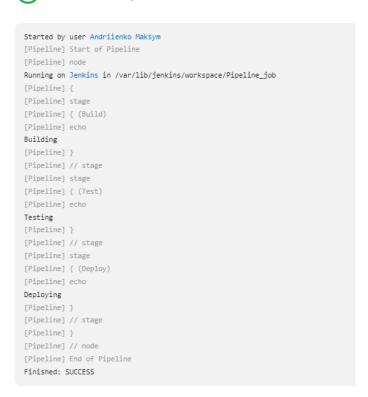
java -jar .\jenkins-cli.jar -s http://35.174.153.212:8080 who-am-i

```
Даминистратор: Windows PowerShell
PS D:\KHиги\DevOps\L1\Lectures\Jenkins> Senv: JENKINS_USER_ID="ams"
PS D:\KHиги\DevOps\L1\Lectures\Jenkins> Senv: JENKINS_API_TOKEN="11d330eecc7b55ef974d6c339a6b2f59ef"
PS D:\KHиги\DevOps\L1\Lectures\Jenkins> java -jar .\jenkins-cli.jar -s http://35.174.153.212:8080 who-am-i
Authenticated as: ams
Authorities:
authenticated
PS D:\KHиги\DevOps\L1\Lectures\Jenkins>
```

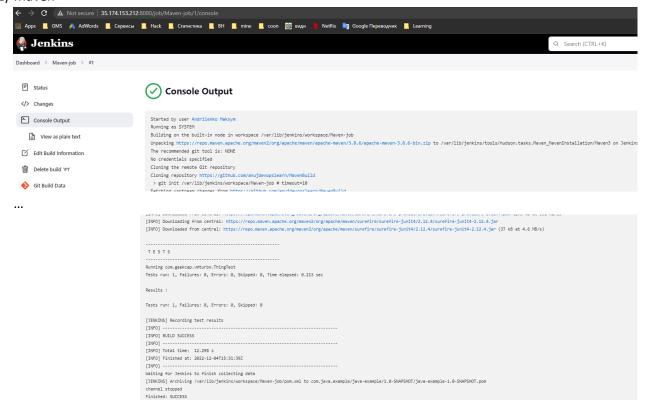
10) Pipeline



Console Output



11) Maven



```
Last login: Sat Dec 3 21:25:16 2022 from 18.206.107.27

ubuntu@ip-172-31-80-178:~$ cd /var/lib/jenkins/workspace/Maven-job

ubuntu@ip-172-31-80-178:/var/lib/jenkins/workspace/Maven-job$ ls -la

total 44

drwxr-xr-x 5 jenkins jenkins 4096 Dec 4 15:31 .

drwxr-xr-x 12 jenkins jenkins 4096 Dec 4 15:31 .

drwxr-xr-x 8 jenkins jenkins 4096 Dec 4 15:31 .

drwxr-xr-x 1 jenkins jenkins 117 Dec 4 15:31 Dockerfile

-rw-r--r- 1 jenkins jenkins 800 Dec 4 15:31 Jenkinsfile

-rw-r--r- 1 jenkins jenkins 370 Dec 4 15:31 README.md

-rw-r--r- 1 jenkins jenkins 266 Dec 4 15:31 deploy.yml

-rw-r--r- 1 jenkins jenkins 263 Dec 4 15:31 sonar-project.properties

drwxr-xr-x 4 jenkins jenkins 4096 Dec 4 15:31 src

drwxr-xr-x 5 jenkins jenkins 4096 Dec 4 15:31 target

ubuntu@ip-172-31-80-178:/var/lib/jenkins/workspace/Maven-job$
```