МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ РОССИЙСКОЙ ФЕДЕРАЦИИ

Федеральное государственное автономное образовательное учреждение высшего образования «КРЫМСКИЙ ФЕДЕРАЛЬНЫЙ УНИВЕРСИТЕТ им. В. И. ВЕРНАДСКОГО» ФИЗИКО-ТЕХНИЧЕСКИЙ ИНСТИТУТ

Кафедра компьютерной инженерии и моделирования

ОТЧЕТ ПО ПРАКТИЧЕСКОМУ ЗАДАНИЮ №6 «Знакомство с Jenkins»

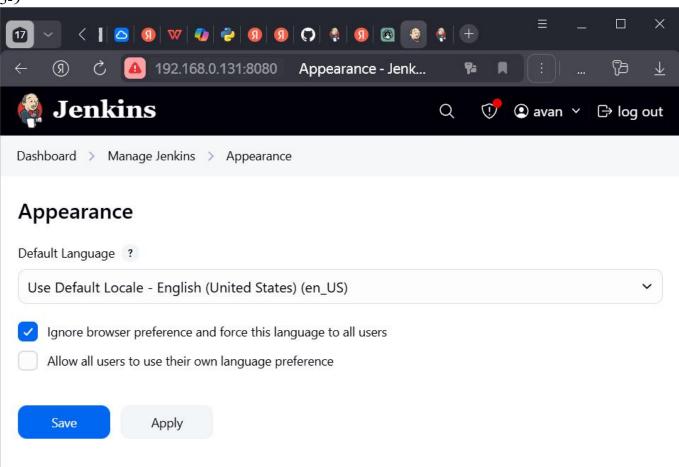
Практическая работа по дисциплине «Программная инженерия» студента 1 курса группы ПИ-б-о-241(1) Коробка Илья Леонидович

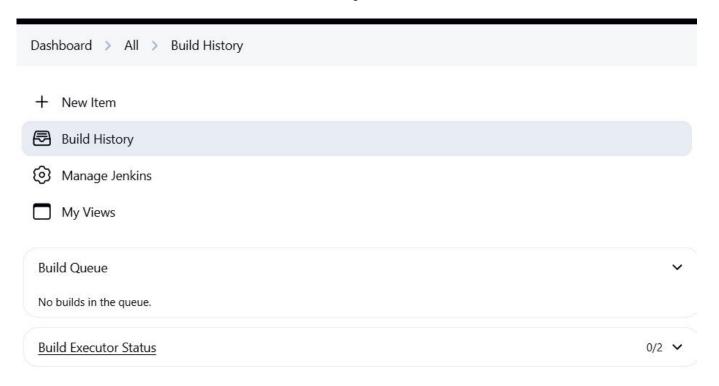
09.03.04 «Программная инженерия»

Ход работы

1-2 \USEFS\ILYaZ> VIM C:\\USEFS\\ILYaZ/.SSN/KNOWN_NOSCS PS C:\Users\ilya2> ssh avan@192.168.0.131 The authenticity of host '192.168.0.131 (192.168.0.131)' can't be establishe ED25519 key fingerprint is SHA256:K9xTTLq1Q4UtW1D/fzVULKpH/40IDJ035MX+0b/WXG This key is not known by any other names. Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '192.168.0.131' (ED25519) to the list of known ho avan@192.168.0.131's password: Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-60-generic x86_64) * Documentation: https://help.ubuntu.com https://landscape.canonical.com * Management: https://ubuntu.com/pro * Support:

3-9



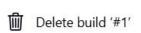


Build History of Jenkins



REST API Jenkins 2.504.1

6



Console Output



7 Add description Αll Last Last Name ↓ Last Success Failure Duration 1 min 44 sec (Simple N/A 0.17 sec #1 S Icon: 000

avan@ubuntu6lab: ~/6lab
× + avan@ubuntu6lab:~/6lab\$ git branch -M main avan@ubuntu6lab:~/6lab\$ git remote add origin https://github.com/Adventure-r avan@ubuntu6lab:-/6lab\$ git remote add origin https://github
/qr.git
git push -u origin main
error: remote origin already exists.
Username for 'https://github.com': Adventur-er
Password for 'https://github.com': Adventur-er
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 409 bytes | 58.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Adventure-r/qr.git
* Inew branch| main -> main
branch 'main' set up to track 'origin/main'.
avan@ubuntu6lab:-/6lab\$ |

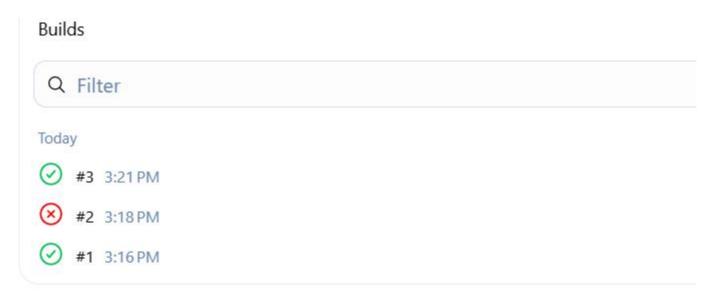
avan@ubuntu6lab:-/6lab\$ | ⑨ ♂ ⊜ github.com Adventure-r/qr Q 🖴 🧰 Code 💿 Issues 🏗 Pull requests 🕞 Actions 🖽 Projects 🖾 Wiki 🕚 Security 0 stars 💡 0 forks ⊙ 0 watching 🐉 1 Branch ♡ 0 Tags 🥕 Activity Ilya first commit import qrcode
img = qrcode.make('Some data here')
img.save("some_file.png") main.py o requirements.txt requirements.txt qrcode[pil] □ README 3. Инициируйте в этой папке локальный репозиторий и закоммитьте содержимое; 4. Создайте на github.com репозиторий и синхронизируйте его с локальным. В моём Pure python QR Code generator случае это $\underline{\mathsf{qr}}_\mathsf{code}_\mathsf{generator}.$ Создаём и настраиваем job 1. Перейдите в раздел управления плагинами и установите плагин <u>Git</u>, также как вы ^ ☐ ENG 🛜 Ф) 🗗 18:12 25.05.2025

🔡 🚞 🕜 😘 🦁 🔀

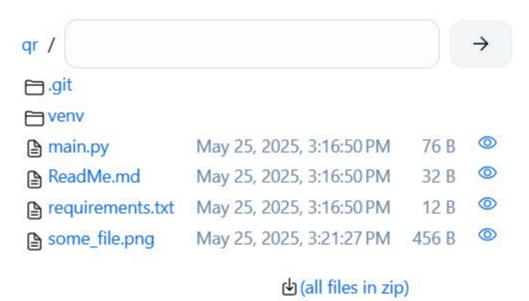
4.1-8

```
< | | 8 | 6 | 9 | W | 4 | 6 | 9 | 9 | 9 | 6 | 9 | 6 | 6 |
               4 192.168.0.131:8080
                                         gr #1 C...
                                                                                       阳
Dashboard > qr > #1 > Console Output
  Fetching upstream changes from https://github.com/Adventure-r/qr
   > git --version # timeout=10
   > git --version # 'git version 2.43.0'
   > git fetch --tags --force --progress -- https://github.com/Adventure-r/qr
  +refs/heads/*:refs/remotes/origin/* # timeout=10
   > git config remote.origin.url https://github.com/Adventure-r/qr # timeout=10
   > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* #
  timeout=10
  Avoid second fetch
   > git rev-parse refs/remotes/origin/main^{commit} # timeout=10
  Checking out Revision 5ef0148024d7b6b50500711fdcc7def36aa9edd4
  (refs/remotes/origin/main)
   > git config core.sparsecheckout # timeout=10
   > git checkout -f 5ef0148024d7b6b50500711fdcc7def36aa9edd4 # timeout=10
  Commit message: "first commit"
  First time build. Skipping changelog.
  [qr] $ /bin/sh -xe /tmp/jenkins12277485003897795274.sh
  + ls -al
  total 24
  drwxr-xr-x 3 jenkins jenkins 4096 May 25 15:16 .
  drwxr-xr-x 4 jenkins jenkins 4096 May 25 15:16 ...
  drwxr-xr-x 8 jenkins jenkins 4096 May 25 15:16 .git
  -rw-r--r-- 1 jenkins jenkins 76 May 25 15:16 main.py
  -rw-r--r-- 1 jenkins jenkins 32 May 25 15:16 ReadMe.md
  -rw-r--r-- 1 jenkins jenkins 12 May 25 15:16 requirements.txt
  Finished: SUCCESS
```

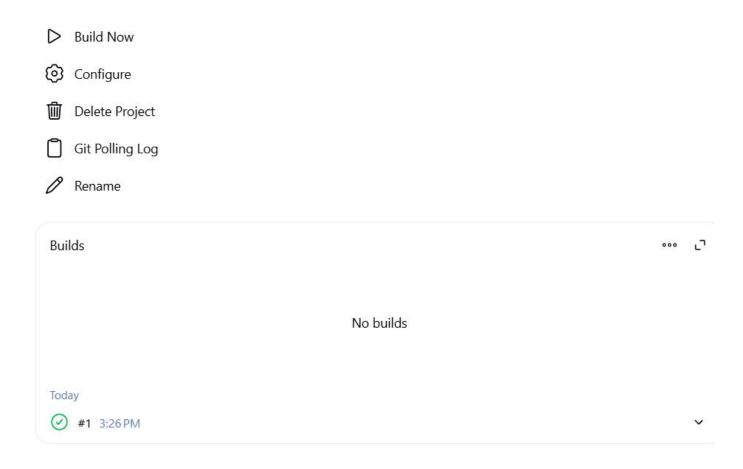
```
Dashboard > gr > #2 > Console Output
    > git rev-parse refs/remotes/origin/main^{commit} # timeout=10
  Checking out Revision 5ef0148024d7b6b50500711fdcc7def36aa9edd4
  (refs/remotes/origin/main)
   > git config core.sparsecheckout # timeout=10
   > git checkout -f 5ef0148024d7b6b50500711fdcc7def36aa9edd4 # timeout=10
  Commit message: "first commit"
   > git rev-list --no-walk 5ef0148024d7b6b50500711fdcc7def36aa9edd4 # timeout=10
  [qr] $ /bin/bash /tmp/jenkins7588686003941723817.sh
  The virtual environment was not created successfully because ensurepip is not
  available. On Debian/Ubuntu systems, you need to install the python3-venv
  package using the following command.
      apt install python3.12-venv
  You may need to use sudo with that command. After installing the python3-venv
  package, recreate your virtual environment.
  Failing command: /var/lib/jenkins/workspace/qr/venv/bin/python3
  /tmp/jenkins7588686003941723817.sh: line 3: venv/bin/activate: No such file or
  directory
  /tmp/jenkins7588686003941723817.sh: line 4: pip: command not found
  /tmp/jenkins7588686003941723817.sh: line 5: python: command not found
  Build step 'Execute shell' marked build as failure
  Finished: FAILURE
```



Workspace of qr on Built-In Node



5.1-6

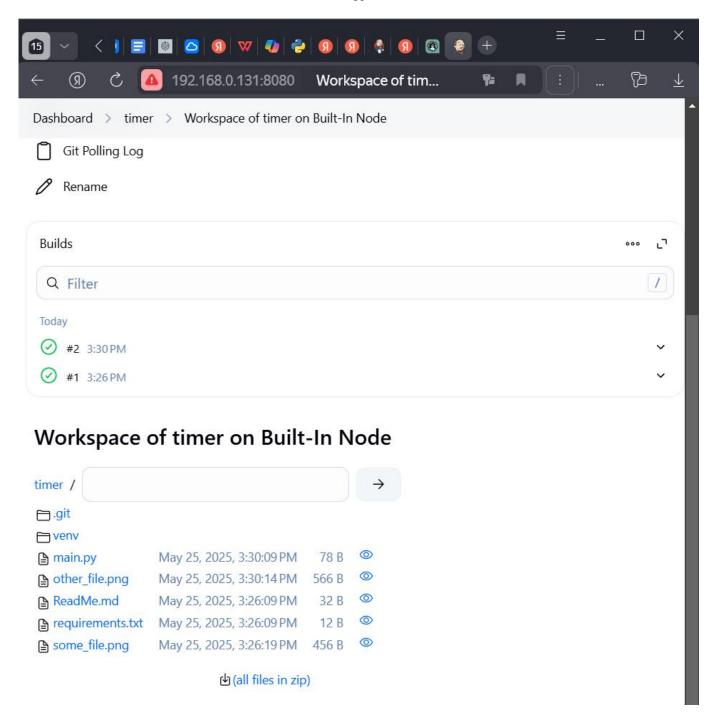


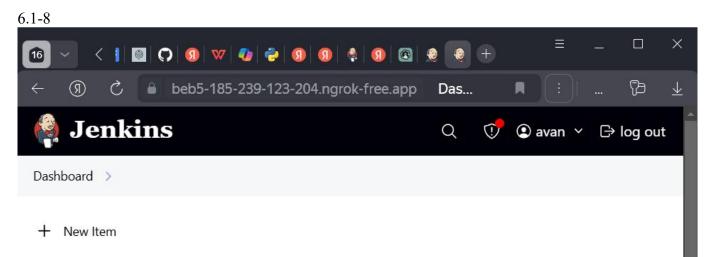
timer

Add description

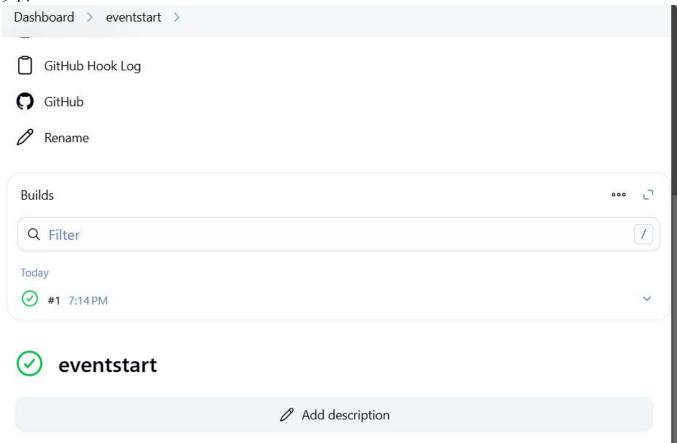
- ...

7-10





9-14



Permalinks

Last build (#1), 1 min 15 sec ago

[docker] \$ /bin/sh -xe /tmp/jenkins12733634978859378094.sh

- · Last stable build (#1), 1 min 15 sec ago
- Last successful build (#1), 1 min 15 sec ago
- Last completed build (#1), 1 min 15 sec ago

REST API Jenkins 2.504.1

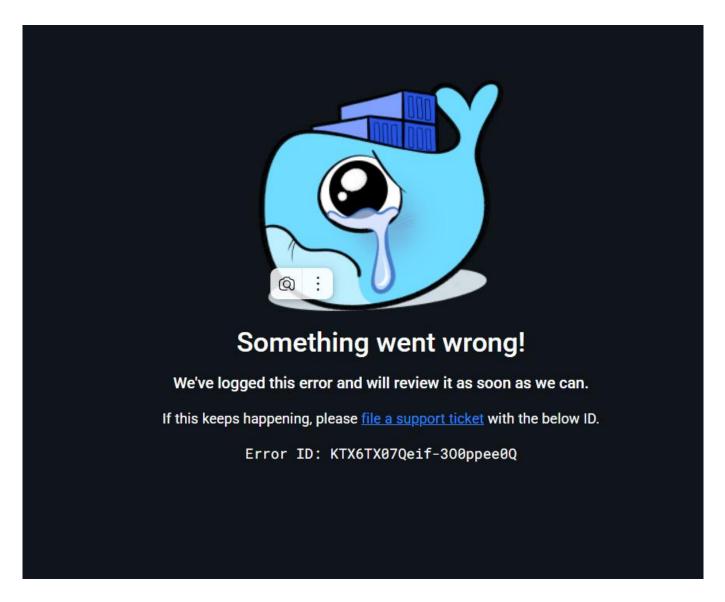
7.1-12

Последний вывод

Started by user avan Running as SYSTEM Building in workspace /var/lib/jenkins/workspace/docker The recommended git tool is: NONE No credentials specified > git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/docker/.git # timeout=10 Fetching changes from the remote Git repository > git config remote.origin.url https://github.com/Adventure-r/qr.git # timeout=10 Fetching upstream changes from https://github.com/Adventure-r/qr.git > git --version # timeout=10 > git --version # 'git version 2.43.0' $> git\ fetch\ --tags\ --force\ --progress\ --\ \underline{https://github.com/Adventure-r/qr.git}\ +refs/heads/*:refs/remotes/origin/*\ \#\ timeout=10$ > git rev-parse refs/remotes/origin/main^{commit} # timeout=10 Checking out Revision f863bab6d901fa33f13179d034226ba4b9c7c399 (refs/remotes/origin/main) > git config core.sparsecheckout # timeout=10 > git checkout -f f863bab6d901fa33f13179d034226ba4b9c7c399 # timeout=10 Commit message: "added Dockerfile" > git rev-list --no-walk f863bab6d901fa33f13179d034226ba4b9c7c399 # timeout=10

```
+ docker build --file=docker/Dockerfile -t qrcode .
 #0 building with "default" instance using docker driver
#1 [internal] load build definition from Dockerfile
#1 transferring dockerfile: 201B 0.0s done
#1 DONE 0.1s
#2 [internal] load metadata for docker.io/library/python:3.12.3-alpine
#3 [auth] library/python:pull token for registry-1.docker.io
#3 DONE 0.0s
#2 [internal] load metadata for docker.io/library/python:3.12.3-alpine
#2 DONE 1.8s
 #4 [internal] load .dockerignore
#4 transferring context: 2B done
#4 DONE 0.0s
#5 [1/5] FROM docker.io/library/python:3.12.3-alpine@sha256:32385e61c3414ffa5a6dbf52feace89f758ad68709a48d376d56a0232162665a
#5 DONE 0.0s
#6 [internal] load build context
#6 transferring context: 64B done
#6 DONE 0.1s
#7 [2/5] WORKDIR /app
#7 CACHED
 #8 [3/5] COPY requirements.txt /app
#8 CACHED
#9 [4/5] COPY main.py /app
#9 CACHED
#10 [5/5] RUN pip install -r requirements.txt
 #10 CACHED
#11 exporting to image
#11 exporting layers done
#11 writing image sha256:1a470d945fae48447ba5ab1d7d4a814f86a134d64bf208da3a0abbc800fcbc4e 0.0s done
#11 naming to docker.io/library/qrcode 0.0s done
#11 DONE 0.1s
[docker] $ /bin/sh -xe /tmp/jenkins12692903441516672690.sh
+ docker run --rm -d --name=qrcodegen -p 5000:5000 qrcode
e5bc57d4f4f80046fbfcc9508d2cee7a7002f5ab9d1882b610d899f375096587
 + sleep 5
[docker] $ /bin/sh -xe /tmp/jenkins14543678624176593693.sh
 + curl localhost:5000/qr?msg=hello
   % Total % Received % Xferd Average Speed Time Time
                                                                                                                                                  Time Current
                                             Dload Upload Total Spent Left Speed
   0 0 0 0 0 0
                                                                   0 --:--:- 0
 100 634 100 634 0 0 16013
                                                                                    0 --:--: 16256
 <img src="data:image/png;base64,
iVBORw0KGgoAAAANSUhEUgAAASIAAAEiAQAAAAB1xelbAAABfElEQVR4nO2YS27DMAxEH2vtFaAHvFGsG/TK8VF6A2sZwMF0lblO+kG7Ue
w41EIQiAd4IFA0OSb+XsPLPyBwyimnnHJq65TVFWCwAOQ5klbV9RRUL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw+I3O6LTv1GmRNL0kawVKcADpJkm6p++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmVZ7C2rj1T4Wugfw++t6CirXHNeJSzmV
0lS3f84vNSc95HARmWUet66Nqq+l1Qg5mZHcBSDgCX0uasrWvXVMn762zPF6vPYE1dz0BRWsl+7MqmU5zmmOpJp62qf2yq3q7GThDrqW6aauPvd9+
SGo5nk94DtejHyfv75lStL0SpDrfSVd57zWl06ZSriwM5YAmwR0eeQksK3a4SKz/cEa/37anFxyw3Tg4/UPfXtW/qs59cWhyAOLc4Xu/bU7OPaYla/hdHc/v
qH5P66mNqOAr68QDkwzzwblX9vihLOWApSpboZkdzfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6AdxArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6AdxArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6EdxTaE199zHLJsBnK6eccsqp/VAfweHzVhgEgGwArfV17pL75mMPbiMivE8Szed43pFg6SygNfSf6AdxArfV17pL75mMPbiMpbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfV17pMPbiMzf6AdxArfW17pMPbiMzf6AdxArfW17pMPbiMzf6AdxArfW17pMPbiMzf6AdxArfW17pMPbiMzf6AdxArfW17pMPbiMzf6AdxArfW17pMPbiMzf6AdxArfW17pMPbiMzf6AdxArfW17pMPbiMzf6AdxArfW17pMPbiMzf6AdxArfW17pMPbiMzf6AdxAr
 AAAAASUVORK5CYII=" alt="qrcode" />[docker] $ /bin/sh -xe /tmp/jenkins12848422709115248946.sh
 + docker stop grcodegen
 grcodegen
[docker] $ /bin/sh -xe /tmp/jenkins210036801185164438.sh
  + docker login -u avangarden -p ****
 WARNING! Using --password via the CLI is insecure. Use --password-stdin.
 Login Succeeded
 [docker] $ /bin/bash /tmp/jenkins16838719604984599246.sh
 Finished: SUCCESS
```

Попытался открыть докерхаб, image beta и теперь всё время



Возможно проблема с впн, но я не знаю рабочих на пк бесплатных впн