МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ
РОССИЙСКОЙ ФЕДЕРАЦИИ
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высшего образования
«КРЫМСКИЙ ФЕДЕРАЛЬНЫЙ УНИВЕРСИТЕТ им. В. И. ВЕРНАДСКОГО»
ФИЗИКО-ТЕХНИЧЕСКИЙ ИНСТИТУТ
Кафедра компьютерной инженерии и моделирования

ОТЧЁТ ПО ПРАКТИЧЕСКОМУ ЗАДАНИЮ №5
«Основы Git. GitHub Actions»

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

Симферополь, 2025

Ход работы

1-3.

```
Last login: Tue May 13 06:15:27 2025 from 10.99.2.255
boss@ubuntu-serv:~$ git config --global user.name "Your Name"
git config --global user.email "your_email@whatever.com"
boss@ubuntu-serv:~$ ls
compose             docs            go          project_copy
content             flask           new_site    random-api
docker-compose.yml  get-docker.sh   project
boss@ubuntu-serv:~$ mkdir var_keeper
boss@ubuntu-serv:~$ cd var_keeper/
boss@ubuntu-serv:~/var_keeper$ ls
boss@ubuntu-serv:~/var_keeper$
```

4-5.

```
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/boss/var_keeper/.git/
boss@ubuntu-serv:~/var_keeper$ ls -al
total 12
drwxrwxr-x  3 boss boss 4096 May 18 13:02 .
drwxr-x--- 14 boss boss 4096 May 18 13:02 ..
drwxrwxr-x  7 boss boss 4096 May 18 13:02 .git
boss@ubuntu-serv:~/var_keeper$
```

6-8.

```
boss@ubuntu-serv:~/var_keeper$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)
boss@ubuntu-serv:~/var_keeper$ vim ReadMe.md
boss@ubuntu-serv:~/var_keeper$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        ReadMe.md

nothing added to commit but untracked files present (use "git add" to track)
boss@ubuntu-serv:~/var_keeper$
```

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```
boss@ubuntu-serv:~/var_keeper$ git add ReadMe.md
boss@ubuntu-serv:~/var_keeper$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   ReadMe.md

boss@ubuntu-serv:~/var_keeper$
```

10-11

```
boss@ubuntu-serv:~/var_keeper$ vim ReadMe.md
boss@ubuntu-serv:~/var_keeper$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   ReadMe.md

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   ReadMe.md

boss@ubuntu-serv:~/var_keeper$ git add ReadMe.md
boss@ubuntu-serv:~/var_keeper$ git commit -m "Добавлен ReadMe.md"
[master (root-commit) 0aafde9] Добавлен ReadMe.md
 1 file changed, 3 insertions(+)
 create mode 100644 ReadMe.md
```

12-16

```
boss@ubuntu-serv:~/var_keeper$ git status
On branch master
nothing to commit, working tree clean
boss@ubuntu-serv:~/var_keeper$ vim .gitignore
boss@ubuntu-serv:~/var_keeper$ git add .gitignore
boss@ubuntu-serv:~/var_keeper$ git commit -m"Был добавлен .gitignore"
[master 1e19a88] Был добавлен .gitignore
 1 file changed, 262 insertions(+)
 create mode 100644 .gitignore
boss@ubuntu-serv:~/var_keeper$ ls -al
total 24
drwxrwxr-x  3 boss boss 4096 May 18 13:08 .
drwxr-x--- 14 boss boss 4096 May 18 13:08 ..
drwxrwxr-x  8 boss boss 4096 May 18 13:09 .git
-rw-rw-r--  1 boss boss 5813 May 18 13:08 .gitignore
-rw-rw-r--  1 boss boss  190 May 18 13:05 ReadMe.md
boss@ubuntu-serv:~/var_keeper$
```

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```
boss@ubuntu-serv:~/var_keeper$ git log
commit 1e19a88a4100ed7ac0369b155194955f96183c0b (HEAD -> master)
Author: Your Name <your_email@whatever.com>
Date:   Sun May 18 13:09:13 2025 +0000

    Был добавлен .gitignore

commit 0aafde94431337aad4114addb4a04249daa9e973
Author: Your Name <your_email@whatever.com>
Date:   Sun May 18 13:06:17 2025 +0000

    Добавлен ReadMe.md
boss@ubuntu-serv:~/var_keeper$ git config --global user.email "ilya212006@ma
il.ru"
boss@ubuntu-serv:~/var_keeper$ git config --global user.name "ilyas"
```

18-20

```
boss@ubuntu-serv:~/var_keeper$ git push -u origin main
Username for 'https://github.com': Adventure-r
Password for 'https://Adventure-r@github.com':
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 2.34 KiB | 599.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Adventure-r/var_keeper.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
boss@ubuntu-serv:~/var_keeper$
```

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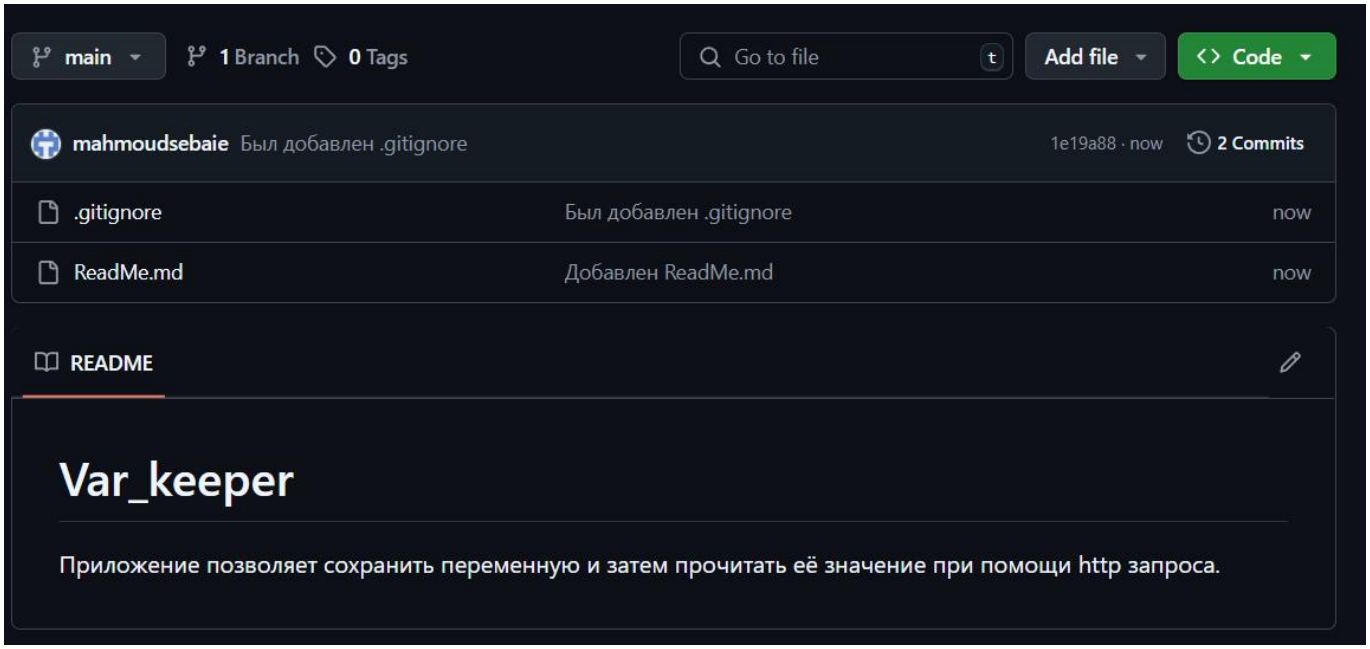

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```
boss@ubuntu-serv:~/var_keeper$ mkdir actions-runner && cd actions-runner
boss@ubuntu-serv:~/var_keeper/actions-runner$ curl -o actions-runner-linux-x64-
2.324.0.tar.gz -L https://github.com/actions/runner/releases/download/v2.324.0/
actions-runner-linux-x64-2.324.0.tar.gz
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
  0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--     0
100  114M  100  114M    0     0  3034k      0  0:00:38  0:00:38 --:--:-- 1359k
boss@ubuntu-serv:~/var_keeper/actions-runner$ echo "e8e24a3477da17040b4d6fa6d34
c6ecb9a2879e800aa532518ec21e49e21d7b4  actions-runner-linux-x64-2.324.0.tar.gz"
 | shasum -a 256 -c
actions-runner-linux-x64-2.324.0.tar.gz: OK
boss@ubuntu-serv:~/var_keeper/actions-runner$ tar xzf ./actions-runner-linux-x6
4-2.324.0.tar.gz
boss@ubuntu-serv:~/var_keeper/actions-runner$
```

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```
Enter the name of runner: [press Enter for ubuntu-serv]

This runner will have the following labels: 'self-hosted', 'Linux', 'X64'
Enter any additional labels (ex. label-1,label-2): [press Enter to skip]

√ Runner successfully added
√ Runner connection is good

# Runner settings

Enter name of work folder: [press Enter for _work]

√ Settings Saved.

boss@ubuntu-serv:~/var_keeper/actions-runner$
```

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```
boss@ubuntu-serv:~/var_keeper/actions-runner$ sudo ./svc.sh install
Creating launch runner in /etc/systemd/system/actions.runner.Adventure-r-var_ke
eper.ubuntu-serv.service
Run as user: boss
Run as uid: 1001
gid: 1001
Created symlink /etc/systemd/system/multi-user.target.wants/actions.runner.Adve
nture-r-var_keeper.ubuntu-serv.service → /etc/systemd/system/actions.runner.Adv
enture-r-var_keeper.ubuntu-serv.service.
boss@ubuntu-serv:~/var_keeper/actions-runner$ sudo ./svc.sh start

/etc/systemd/system/actions.runner.Adventure-r-var_keeper.ubuntu-serv.service
● actions.runner.Adventure-r-var_keeper.ubuntu-serv.service - GitHub Actions Ru
nner (Adventure-r-var_keeper.ubuntu-serv)
     Loaded: loaded (/etc/systemd/system/actions.runner.Adventure-r-var_keeper.
ubuntu-serv.service; enabled; preset: enabled)
     Active: active (running) since Sun 2025-05-18 13:34:48 UTC; 31ms ago
   Main PID: 3262 (runsvc.sh)
```

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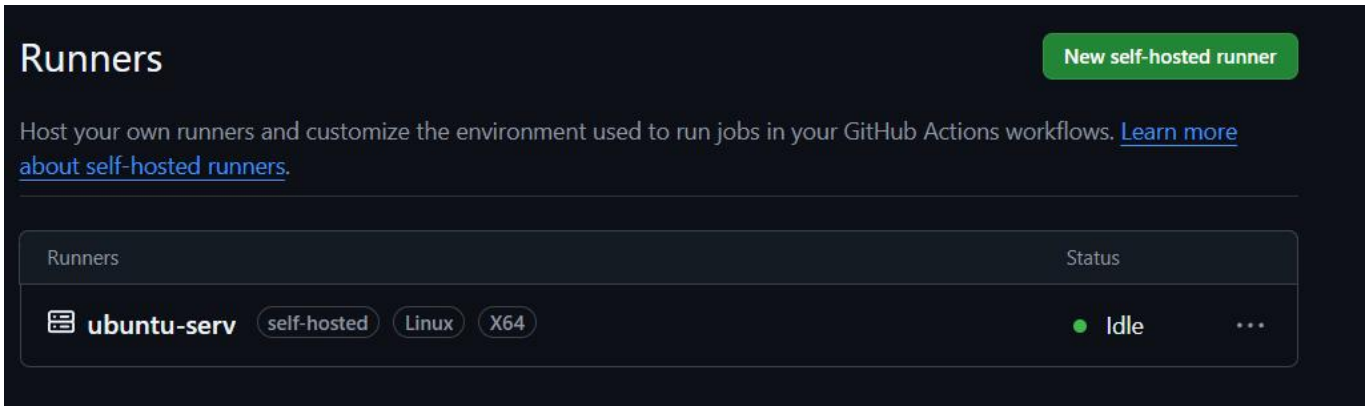

27-28

```
boss@ubuntu-serv:~/var_keeper$ git branch
* main
boss@ubuntu-serv:~/var_keeper$ git branch teat
boss@ubuntu-serv:~/var_keeper$ git branch test
```

29-30

```
boss@ubuntu-serv:~/var_keeper$ git branch
* main
  test
boss@ubuntu-serv:~/var_keeper$ git checkout test
M       .gitignore
Switched to branch 'test'
```

31-33

```
boss@ubuntu-serv:~/var_keeper$ mkdir -p .github/workflows
boss@ubuntu-serv:~/var_keeper$ cd .github/workflows/
boss@ubuntu-serv:~/var_keeper/.github/workflows$
boss@ubuntu-serv:~/var_keeper/.github/workflows$ vim welcome.yml
boss@ubuntu-serv:~/var_keeper/.github/workflows$ cd ../..
boss@ubuntu-serv:~/var_keeper$ ls -al
total 36
drwxrwxr-x  5 boss boss 4096 May 18 13:39 .
drwxr-x--- 14 boss boss 4096 May 18 13:40 ..
drwxr-xr-x  5 boss boss 4096 May 18 13:34 actions-runner
drwxrwxr-x  8 boss boss 4096 May 18 13:38 .git
drwxrwxr-x  3 boss boss 4096 May 18 13:39 .github
-rw-rw-r--  1 boss boss 5826 May 18 13:26 .gitignore
-rw-rw-r--  1 boss boss  190 May 18 13:05 ReadMe.md
-rw-rw-r--  1 boss boss   41 May 18 13:25 token
boss@ubuntu-serv:~/var_keeper$
```

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```
boss@ubuntu-serv:~/var_keeper$ git add .
boss@ubuntu-serv:~/var_keeper$ git commit -m "Added workflow welcome"
[test 70d5f36] Added workflow welcome
 2612 files changed, 1038709 insertions(+)
 create mode 100644 .github/workflows/welcome.yml
 create mode 100644 actions-runner/.credentials
 create mode 100644 actions-runner/.credentials_rsaparams
 create mode 100644 actions-runner/.path
 create mode 100644 actions-runner/.runner
 create mode 100644 actions-runner/.service
 create mode 100644 actions-runner/actions-runner-linux-x64-2.324.0.tar.gz
 create mode 100755 actions-runner/bin/Azure.Core.dll
 create mode 100755 actions-runner/bin/Azure.Storage.Blobs.dll
```

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```
boss@ubuntu-serv:~/var_keeper$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
boss@ubuntu-serv:~/var_keeper$ ls -al
total 32
drwxrwxr-x  4 boss boss 4096 May 18 13:44 .
drwxr-x--- 14 boss boss 4096 May 18 13:42 ..
drwxr-xr-x  5 boss boss 4096 May 18 13:44 actions-runner
drwxrwxr-x  8 boss boss 4096 May 18 13:44 .git
-rw-rw-r--  1 boss boss 5813 May 18 13:44 .gitignore
-rw-rw-r--  1 boss boss  190 May 18 13:05 ReadMe.md
-rw-rw-r--  1 boss boss   41 May 18 13:25 token
boss@ubuntu-serv:~/var_keeper$
```

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```
boss@ubuntu-serv:~/var_keeper$ git checkout test
Updating files: 100% (2612/2612), done.
Switched to branch 'test'
boss@ubuntu-serv:~/var_keeper$ ls -al
total 36
drwxrwxr-x  5 boss boss 4096 May 18 13:44 .
drwxr-x--- 14 boss boss 4096 May 18 13:42 ..
drwxr-xr-x  5 boss boss 4096 May 18 13:45 actions-runner
drwxrwxr-x  8 boss boss 4096 May 18 13:45 .git
drwxrwxr-x  3 boss boss 4096 May 18 13:44 .github
-rw-rw-r--  1 boss boss 5826 May 18 13:44 .gitignore
-rw-rw-r--  1 boss boss  190 May 18 13:05 ReadMe.md
-rw-rw-r--  1 boss boss   41 May 18 13:25 token
```

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```
boss@ubuntu-serv:~/var_keeper$ git config --global credential.helper store
boss@ubuntu-serv:~/var_keeper$ git push -u origin test
Username for 'https://github.com': Adventure-r
Password for 'https://Adventure-r@github.com':
Enumerating objects: 915, done.
Counting objects: 100% (915/915), done.
Delta compression using up to 4 threads
Compressing objects: 100% (839/839), done.
error: RPC failed; HTTP 408 curl 22 The requested URL returned error: 408
send-pack: unexpected disconnect while reading sideband packet
Writing objects: 100% (913/913), 193.36 MiB | 2.86 MiB/s, done.
Total 913 (delta 311), reused 0 (delta 0), pack-reused 0
fatal: the remote end hung up unexpectedly
Everything up-to-date
boss@ubuntu-serv:~/var_keeper$
```

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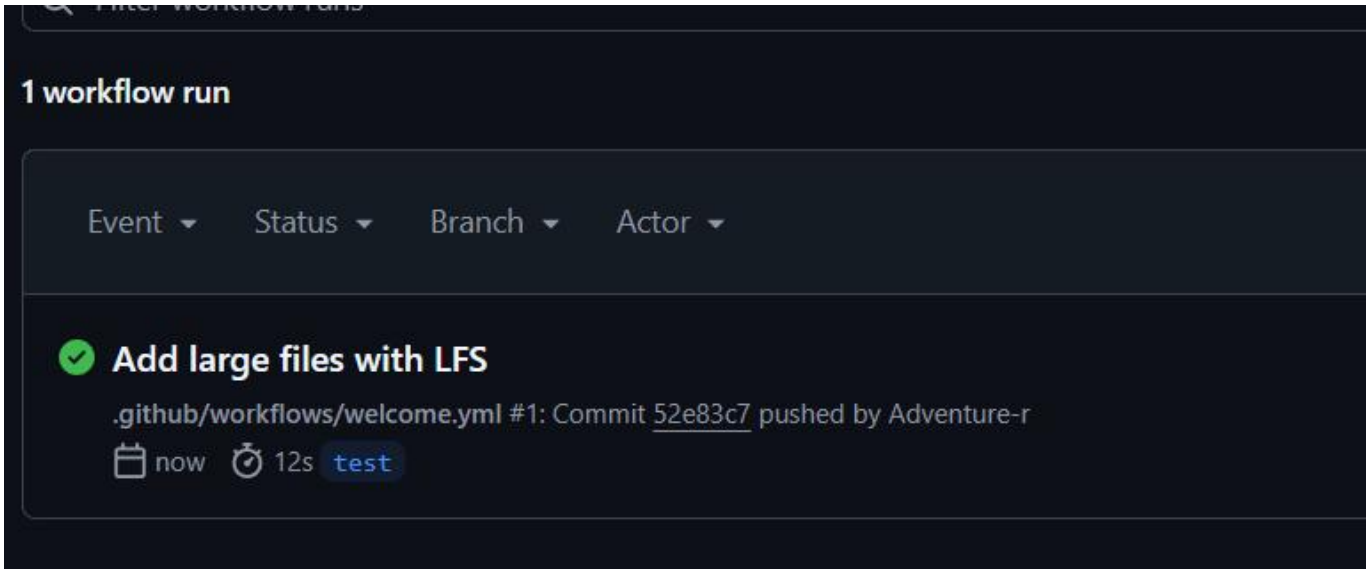

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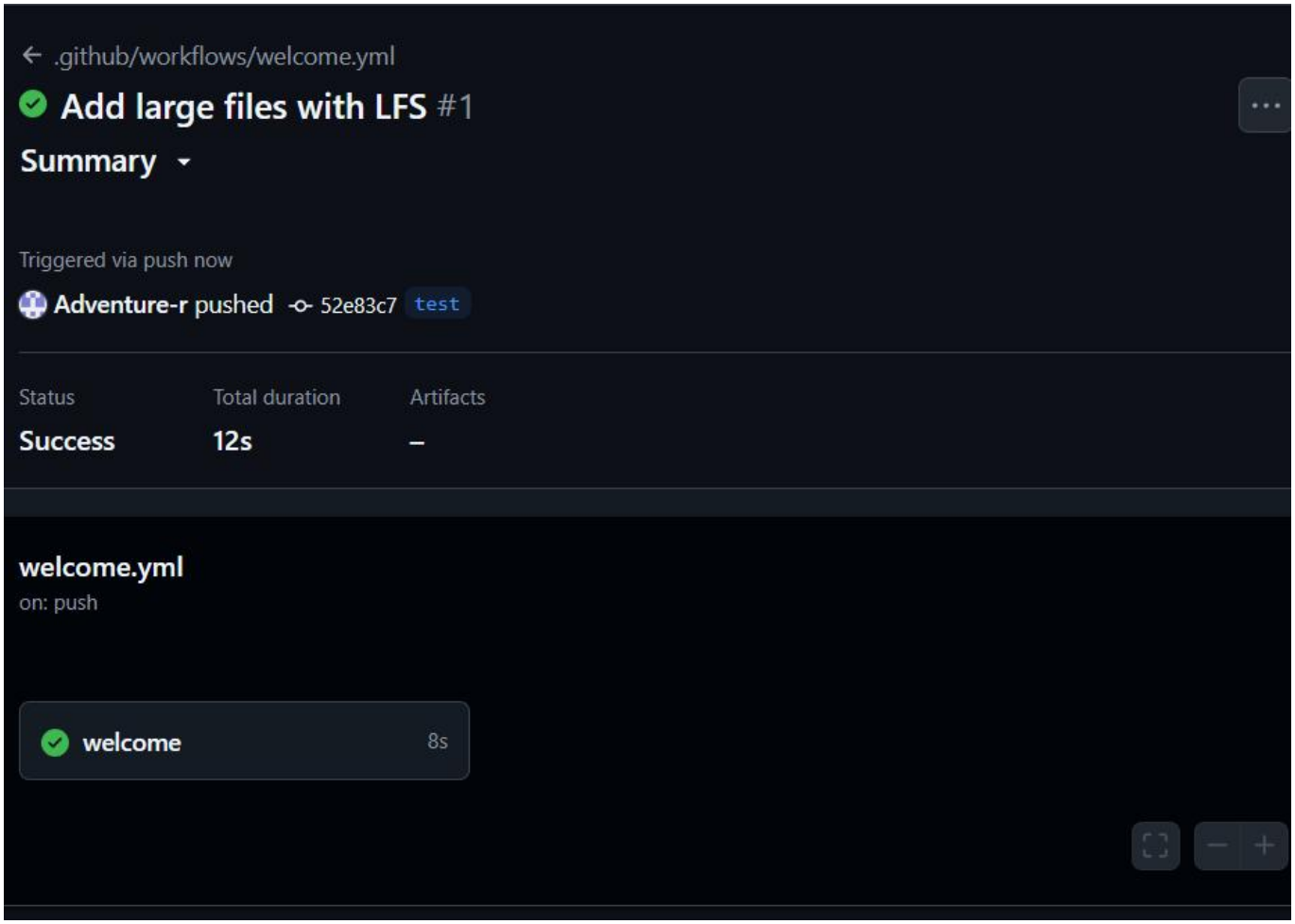
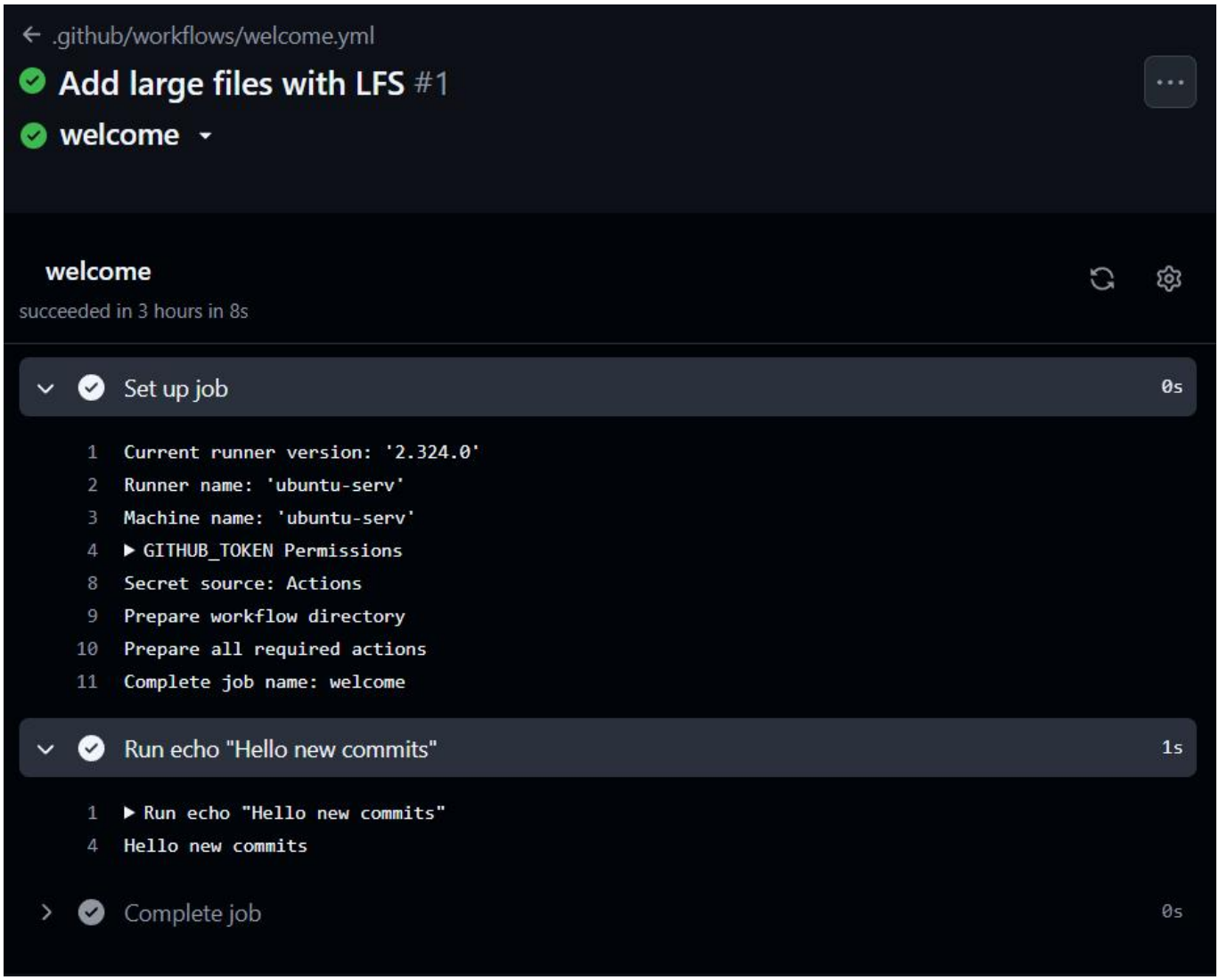

.github/workflows/welcome.yml
Add large files with LFS #1
Summary
Triggered via push now
Adventure-r pushed 52e83c7 test
Status
Total duration
Artifacts
Success
12s
–
welcome.yml
on: push
welcome
8s

40



Дальше, не могу сделать пуш на ветку test в origin, пишу тот же токен, но не работает. Возможно я сломал когда скачал lfs для загрузки больших объёмов данных на git. Не знаю в общем в чём дело.