

Архитектура компьютера Отчёт по лабораторной работе №4

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1 Описание задачи

Понимать и изучать продвинутые команды git

2 Описание результатов выполнения задания

Установка git-flow

```
liveuser@localhost-live:~$ sudo -i
root@localhost-live:~# dnf copr enable elegos/gitflow
Enabling a Copr repository. Please note that this repository is not part
of the main distribution, and quality may vary.

The Fedora Project does not exercise any power over the contents of
this repository beyond the rules outlined in the Copr FAQ at
<https://docs.pagure.org/copr.copr/user\_documentation.html#what-i-can-build-in-copr>,
and packages are not held to any quality or security level.

Please do not file bug reports about these packages in Fedora
Bugzilla. In case of problems, contact the owner of this repository.

Do you really want to enable copr.fedorainfracloud.org/elegos/gitflow? [y/N]: y
Repository successfully enabled.
root@localhost-live:~#
```

```

Repository successfully enabled.
root@localhost-live:~# dnf install gitflow
Copr repo for gitflow owned by elegos          558 B/s | 916 B      00:01
Fedora 40 - x86_64                             323 kB/s | 20 MB     01:02
Fedora 40 openh264 (From Cisco) - x86_64      913 B/s | 1.4 kB     00:01
Fedora 40 - x86_64 - Updates                  2.5 MB/s | 12 MB     00:04
Dependencies resolved.
=====
Package
  Arch   Version      Repository                               Size
=====
Installing:
gitflow
  x86_64 1.12.3-1.fc34 copr:copr.fedorainfracloud.org:elegos:gitflow 57 k

Transaction Summary
=====
Install 1 Package

Total download size: 57 k
Installed size: 262 k
Is this ok [y/N]: y
Downloading Packages:
gitflow-1.12.3-1.fc34.x86_64.rpm              62 kB/s | 57 kB      00:00
-----
Total                                          62 kB/s | 57 kB      00:00
Copr repo for gitflow owned by elegos         1.3 kB/s | 998 B      00:00
Importing GPG key 0x80F63AA3:
  Userid      : "elegos_gitflow (None) <elegos#gitflow@copr.fedorahosted.org>"
  Fingerprint: 9357 99B0 49C5 C5C3 6CF3 9A22 823C A8E6 80F6 3AA3
  From        : https://download.copr.fedorainfracloud.org/results/elegos/gitflow/pubkey.gpg
Is this ok [y/N]: y
Key imported successfully
Running transaction check

```

2.Установка Node.js

```
root@localhost-live:~# dnf install nodejs
Last metadata expiration check: 0:04:41 ago on Fri 14 Mar 2025 04:25:35 AM EDT.
Dependencies resolved.
=====
Package                Architecture          Version              Repository           Size
=====
Installing:
nodejs                  x86_64                1:20.18.2-2.fc40    updates              52 k
Installing dependencies:
nodejs-libs             x86_64                1:20.18.2-2.fc40    updates              16 M
Installing weak dependencies:
nodejs-docs             noarch                1:20.18.2-2.fc40    updates              8.4 M
nodejs-full-i18n        x86_64                1:20.18.2-2.fc40    updates              8.4 M
nodejs-npm              x86_64                1:10.8.2-1.20.18.2.2.fc40 updates              2.1 M

Transaction Summary
=====
Install 5 Packages

Total download size: 35 M
Installed size: 188 M
Is this ok [y/N]: y
Downloading Packages:
(1/5): nodejs-20.18.2-2.fc40.x86_64.rpm              98 kB/s | 52 kB    00:00
(2/5): nodejs-full-i18n-20.18.2-2.fc40.x86_64.rpm    1.8 MB/s | 8.4 MB  00:04
(3/5): nodejs-npm-10.8.2-1.20.18.2.2.fc40.x86_64.rpm 2.4 MB/s | 2.1 MB  00:00
(4/5): nodejs-libs-20.18.2-2.fc40.x86_64.rpm         2.0 MB/s | 16 MB   00:07
(5/5): nodejs-docs-20.18.2-2.fc40.noarch.rpm         735 kB/s | 8.4 MB  00:11
-----
Total                                           2.6 MB/s | 35 MB   00:13
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Running scriptlet: nodejs-1:20.18.2-2.fc40.x86_64          1/1
  Preparing :                                                1/1
  Installing : nodejs-docs-1:20.18.2-2.fc40.noarch           1/5
  Installing : nodejs-libs-1:20.18.2-2.fc40.x86_64           2/5
  Installing : nodejs-full-i18n-1:20.18.2-2.fc40.x86_64      3/5

root@localhost-live:~# dnf install pnpm
Last metadata expiration check: 0:07:29 ago on Fri 14 Mar 2025 04:25:35 AM EDT.
Dependencies resolved.
=====
Package                Architecture          Version              Repository           Size
=====
Installing:
pnpm                    noarch                9.0.6-1.fc40        updates              2.8 M

Transaction Summary
=====
Install 1 Package

Total download size: 2.8 M
Installed size: 14 M
Is this ok [y/N]: y
Downloading Packages:
pnpm-9.0.6-1.fc40.noarch.rpm                      1.9 MB/s | 2.8 MB  00:01
-----
Total                                           908 kB/s | 2.8 MB  00:03
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing :                                                1/1
  Installing : pnpm-9.0.6-1.fc40.noarch                     1/1
  Running scriptlet: pnpm-9.0.6-1.fc40.noarch                1/1

Installed:
  pnpm-9.0.6-1.fc40.noarch

Complete!
root@localhost-live:~#
```

```

root@localhost-live:~# pnpm setup
Appended new lines to /root/.bashrc

Next configuration changes were made:
export PNPM_HOME="/root/.local/share/pnpm"
case ":$PATH:" in
  *"$PNPM_HOME"*) ;;
  *) export PATH="$PNPM_HOME:$PATH" ;;
esac

To start using pnpm, run:
source /root/.bashrc
root@localhost-live:~#

```

Настройка Node.js

```

source /root/.bashrc
root@localhost-live:~# source ~/.bashrc
root@localhost-live:~#

```

Перелогиньтесь, или выполните

```

liveuser@localhost-live:~/work/student_2025_lx$ git config --global --add safe.directory /home/liveuser/work/student_2025_lx
liveuser@localhost-live:~/work/student_2025_lx$ git flow init

Which branch should be used for bringing forth production releases?
- master
Branch name for production releases: [master] master
Branch name for "next release" development: [develop] develop

How to name your supporting branch prefixes?
Feature branches? [feature/] feature/
Bugfix branches? [bugfix/] bugfix
Release branches? [release/] release
Hotfix branches? [hotfix/] hotfix
Support branches? [support/] support/
Version tag prefix? []
Hooks and filters directory? [/home/liveuser/work/student_2025_lx/.git/hooks] /home/liveuser/work/student_2025_lx/.git/hooks
liveuser@localhost-live:~/work/student_2025_lx$

```

Инициализировать git-flow

```

liveuser@localhost-live:~/work/student_2025_lx$ git config --global --add safe.directory /home/liveuser/work/student_2025_lx
liveuser@localhost-live:~/work/student_2025_lx$ git flow init

Which branch should be used for bringing forth production releases?
- master
Branch name for production releases: [master] master
Branch name for "next release" development: [develop] develop

How to name your supporting branch prefixes?
Feature branches? [feature/] feature/
Bugfix branches? [bugfix/] bugfix
Release branches? [release/] release
Hotfix branches? [hotfix/] hotfix
Support branches? [support/] support/
Version tag prefix? []
Hooks and filters directory? [/home/liveuser/work/student_2025_lx/.git/hooks] /home/liveuser/work/student_2025_lx/.git/hooks
liveuser@localhost-live:~/work/student_2025_lx$

```

Создать новую ветку release1.2.3

```
liveuser@localhost-live:~/work/student_2025_lx$ git flow release start 1.2.3
Switched to a new branch 'release1.2.3'

Summary of actions:
- A new branch 'release1.2.3' was created, based on 'develop'
- You are now on branch 'release1.2.3'

Follow-up actions:
- Bump the version number now!
- Start committing last-minute fixes in preparing your release
- When done, run:

    git flow release finish '1.2.3'

liveuser@localhost-live:~/work/student_2025_lx$
```

```
liveuser@localhost-live:/$ pnpm add -g standard-changelog
```

```
Update available! 9.0.6 → 10.6.3.
Changelog: https://github.com/pnpm/pnpm/releases/tag/v10.6.3
Run "pnpm add -g pnpm" to update.

Follow @pnpmjs for updates: https://twitter.com/pnpmjs
```

```
Packages: +44
```

```
+++++
```

```
Progress: resolved 44, reused 0, downloaded 44, added 44, done
```

```
/home/liveuser/.local/share/pnpm/global/5:
```

```
+ standard-changelog 6.0.0
```

```
liveuser@localhost-live:~/work/student_2025_lx$ standard-changelog
✓ output changes to CHANGELOG.md
liveuser@localhost-live:~/work/student_2025_lx$
```

Создать журнал

Отправить журнал

```
liveuser@localhost-live:~/work/student_2025_lx$ git add .
liveuser@localhost-live:~/work/student_2025_lx$ git commit -am 'chore(site): update changelog'
[release1.2.3 bfbd41d] chore(site): update changelog
1 file changed, 4 insertions(+)
liveuser@localhost-live:~/work/student_2025_lx$
```

релизную ветку в основную ветку

```
liveuser@localhost-live:~/work/student_2025_lx$ git flow release finish 1.2.3
Branches 'master' and 'origin/master' have diverged.
And local branch 'master' is ahead of 'origin/master'.
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 2 commits.
  (use "git push" to publish your local commits)
Merge made by the 'ort' strategy.
 CHANGELOG.md | 4 ++++
 1 file changed, 4 insertions(+)
Already on 'master'
Your branch is ahead of 'origin/master' by 4 commits.
  (use "git push" to publish your local commits)
fatal: no tag message?
Fatal: Tagging failed. Please run finish again to retry.
liveuser@localhost-live:~/work/student_2025_lx$
```

Отправим данные на github

```
liveuser@localhost-live:~/work/student_2025_lx$ git push --all
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 779 bytes | 32.00 KiB/s, done.
Total 7 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (4/4), completed with 2 local objects.
To github.com:Isbigheader/student_2025_lx.git
 ac70d22..758084f  master -> master
 * [new branch]      develop -> develop
 * [new branch]      feature/develop -> feature/develop
 * [new branch]      release1.2.3 -> release1.2.3
liveuser@localhost-live:~/work/student_2025_lx$
```

3 Выводы

Я понимаю и изучаю продвинутые команды git

4 Контрольные вопросы