

Структура научной презентации

Простейший шаблон

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Информация

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Загрузка образа ОС

The screenshot shows the Ubuntu 20.04.5 LTS (Focal Fossa) Daily Build download page. At the top, it says "ubuntu® releases" and "Ubuntu 20.04.5 LTS (Focal Fossa) Daily Build". Below that, there's a large orange banner with the text "Select an image". Under the banner, there are two main options:

- Desktop image**: Described as a "64-bit PC (AMD64) desktop image". It says: "Choose this if you have a computer based on the AMD64 or EM64T architecture (e.g., Athlon64, Opteron, EM64T Xeon, Core 2). Choose this if you are at all unsure." A warning follows: "Warning: This image is oversized (which is a bug) and will not fit onto a standard 703MB CD. However, you may still test it using a DVD, a USB drive, or a virtual machine." Below this, it says: "For ARM hardware for which we do not ship preinstalled images, see ARM/Server/Install for detailed installation information." It also mentions: "A full list of available files can be found below." and "If you need help burning these images to disk, see the Image Burning Guide."
- 64-bit ARM (ARMv8/AArch64) desktop image**: Described as "For 64-bit ARMv8 processors and above."

At the bottom, there's a table showing the available files:

Name	Last modified	Size	Description
Parent Directory		-	
SHA256SUMS	2023-02-18 08:02	280	
SHA256SUMS.gpg	2023-02-18 08:02	833	
focal-desktop-amd64+intel-iot.OVERRIDEOVERSIZE	2022-11-11 08:07	0	

Рис. 1: Загрузка образа ОС

Установка образа в виртуальную машину

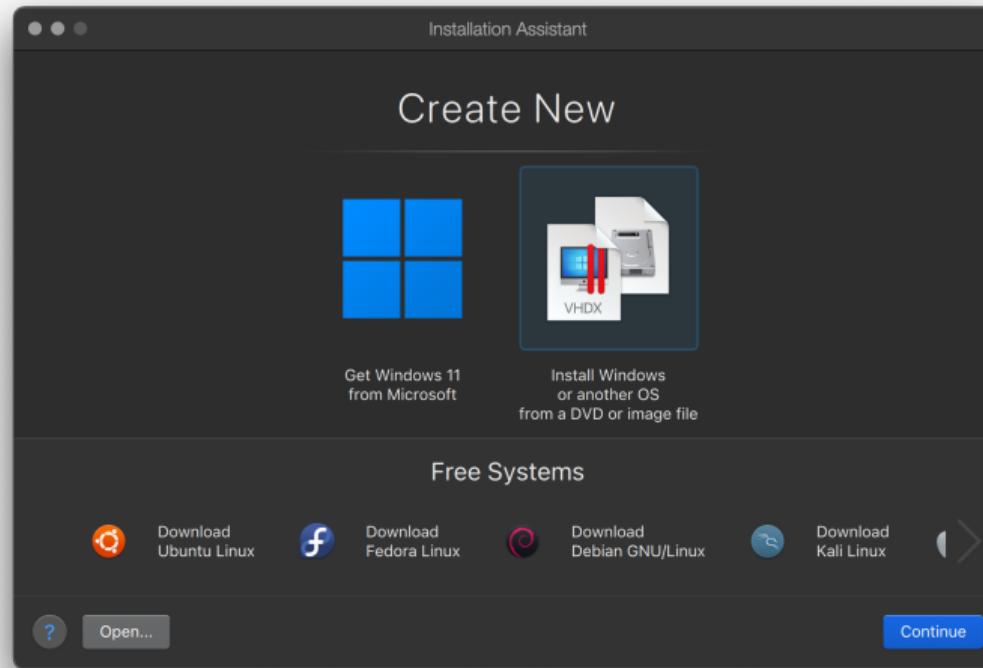


Рис. 2: Установка образа в виртуальную машину

Запуск ОС

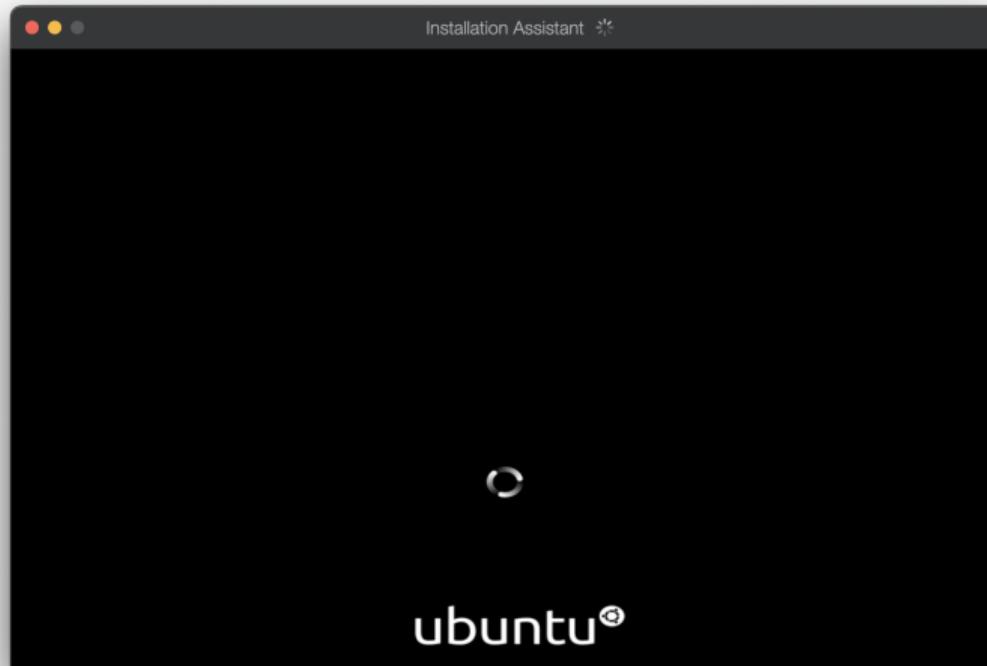


Рис. 3: Запуск ОС

Настройка ОС

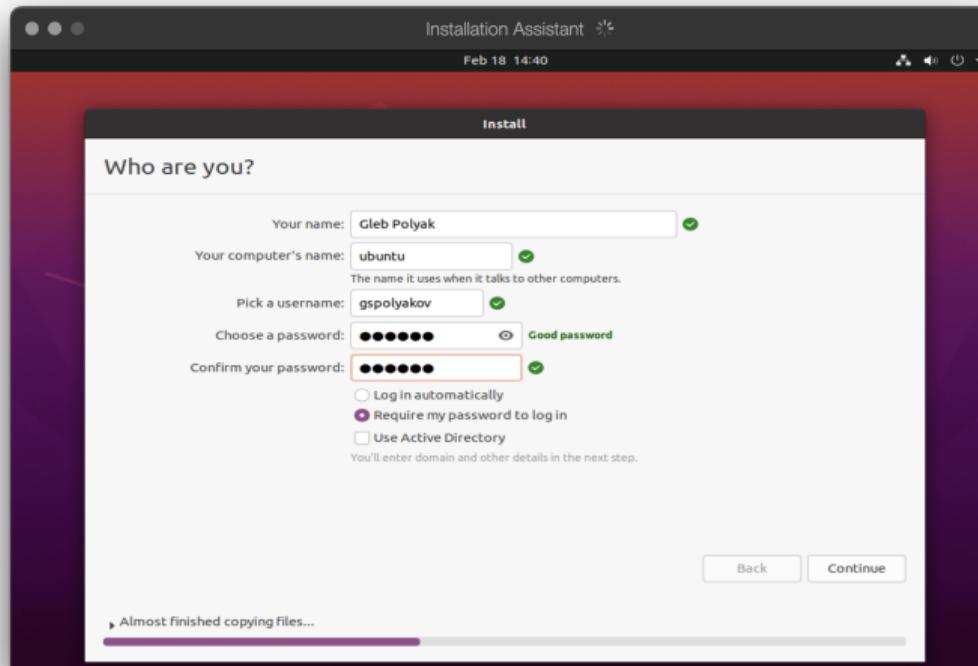


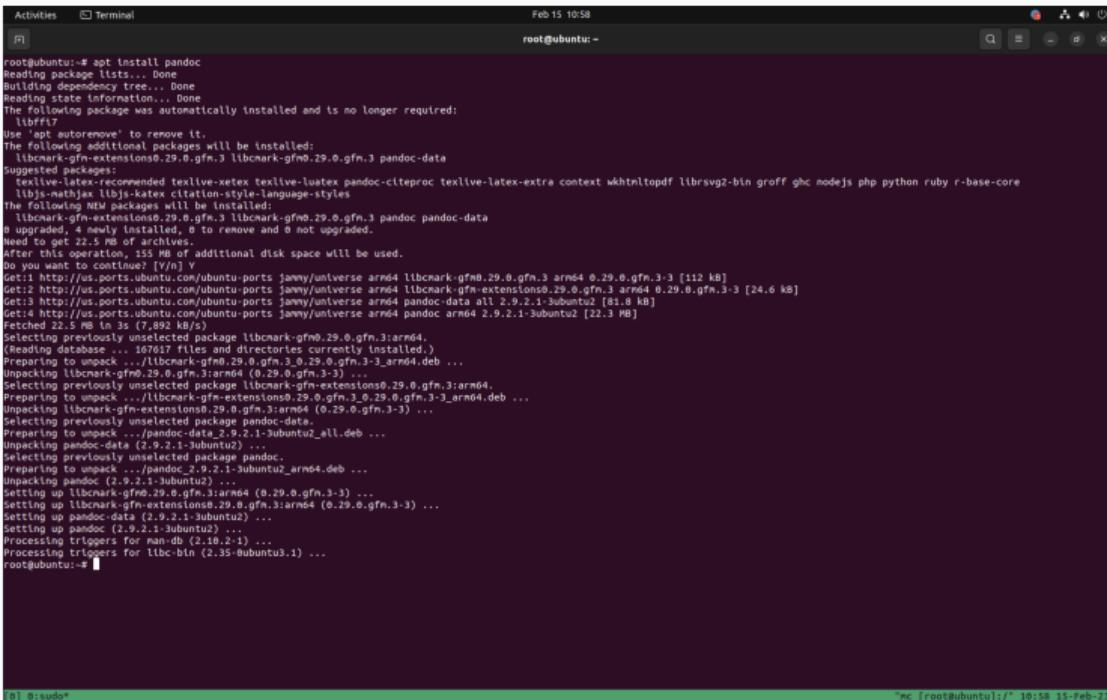
Рис. 4: Настройка ОС

Установка Тмух

```
root@ubuntu:~# apt install tmux mc
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  libffl7
Use 'apt autoremove' to remove it.
The following additional packages will be installed:
  libssh2-1 mc debhelper
Suggested packages:
  arj catv1 | texlive-binaries dvbview dvjvultbre-bin epub-utils genisoimage gv imagemagick libaspell-dev links | w3m | lynx odt2txt python python-boto python-tz unar wimtools
The following NEW packages will be installed:
  libssh2-1 mc nc-data
libssh2-1 is already the newest version (3.24-0ubuntu0.2).
mc-data is already the newest version (0.6.1-1).
debhelper is already the newest version (9.0.20-1).
libssh2-1 was previously selected.
  nc mc-data
  nc upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/2,322 kB of archives.
After this operation, 4,556 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 https://us.archive.ubuntu.com/ubuntu-ports jammy/universe arm64 libssh2-1 arm64 1:10.8-3 [108 kB]
Get:2 https://us.archive.ubuntu.com/ubuntu-ports jammy/universe arm64 mc-data all 3:4.8.27-1 [1,427 kB]
Get:3 https://us.archive.ubuntu.com/ubuntu-ports jammy/universe arm64 mc arm64 3:4.8.27-1 [549 kB]
Get:4 https://us.archive.ubuntu.com/ubuntu-ports jammy/universe arm64 debhelper all 9.0.20-1 [1,044 kB]
Selecting previously unselected package libssh2-1:arm64.
(Reading database... 167232 files and directories currently installed.)
Preparing to unpack .../libssh2-1:1.10.8-3_arm64.deb ...
Unpacking libssh2-1:arm64 (1:10.8-3) ...
Selecting previously unselected package nc-data.
Preparing to unpack .../nc-data_3:4.8.27-1_all.deb ...
Unpacking nc-data (3:4.8.27-1) ...
Selecting previously unselected package nc.
Preparing to unpack .../nc_3:4.8.27-1_arm64.deb ...
Unpacking nc (3:4.8.27-1) ...
Setting up mc-data (3:4.8.27-1) ...
Setting up libssh2-1:arm64 (1:10.8-3) ...
Setting up nc (3:4.8.27-1) ...
update-alternatives: using /usr/bin/mcview to provide /usr/bin/view (view) in auto mode
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for mailcap (3.70-1ubuntu1) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.30.0-0ubuntu3) ...
root@ubuntu:~#
```

Рис. 5: Установка Ттих

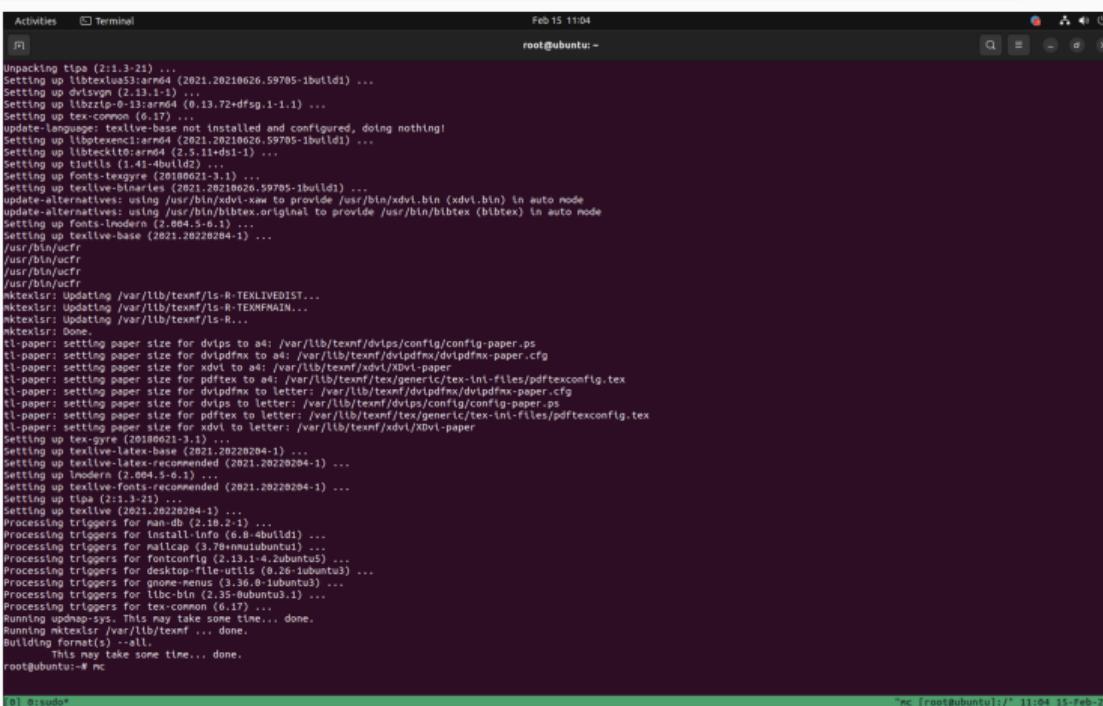
Установка Pandoc



root@ubuntu:~# apt install pandoc
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
 libfftw3f7
Use 'apt autoremove' to remove it.
The following additional packages will be installed:
 libcurl-gfm-extensions0.29.0.gfm.3 libcurlk-gfm0.29.0.gfm.3 pandoc-data
Suggested packages:
 texlive-latex-recommended texlive-latex-base texlive-latex-extra context wktexm topdf librsvg2-bin groff ghc nodejs php python ruby r-base-core
 libjs-mathjax libjs-katex citation-style-language-styles
The following NEWER packages will be installed:
 libcurlk-gfm-extensions0.29.0.gfm.3 libcurlk-gfm0.29.0.gfm.3 pandoc pandoc-data
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 22.5 MB of archives.
After this operation, 81.8 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu universe arm64 libcurlk-gfm0.29.0.gfm.3 arm64 0.29.0.gfm.3-3 [112 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu universe arm64 libcurlk-gfm-extensions0.29.0.gfm.3 arm64 0.29.0.gfm.3-3 [24.6 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu universe arm64 pandoc-data all 2.9.2.1-3ubuntu2 [81.8 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu universe arm64 pandoc arm64 2.9.2.1-3ubuntu2 [22.3 kB]
Fetched 22.5 MB in 3s (7,892 kB/s)
Selecting previously unselected package libcurlk-gfm0.29.0.gfm.3:arm64.
(Reading database ... 10951 files and directories currently installed.)
Preparing to unpack .../libcurlk-gfm0.29.0.gfm.3-3_arm64.deb ...
Unpacking libcurlk-gfm0.29.0.gfm.3:arm64 (0.29.0.gfm.3-3) ...
Selecting previously unselected package libcurlk-gfm-extensions0.29.0.gfm.3:arm64.
Preparing to unpack .../libcurlk-gfm-extensions0.29.0.gfm.3-3_arm64.deb ...
Unpacking libcurlk-gfm-extensions0.29.0.gfm.3:arm64 (0.29.0.gfm.3-3) ...
Selecting previously unselected package pandoc-data.
Preparing to unpack .../pandoc-data_2.9.2.1-3ubuntu2_all.deb ...
Unpacking pandoc-data (2.9.2.1-3ubuntu2) ...
Selecting previously unselected package pandoc.
Preparing to unpack .../pandoc_2.9.2.1-3ubuntu2_arm64.deb ...
Unpacking pandoc (2.9.2.1-3ubuntu2) ...
Setting up libcurlk-gfm0.29.0.gfm.3:arm64 (0.29.0.gfm.3-3) ...
Setting up libcurlk-gfm-extensions0.29.0.gfm.3:arm64 (0.29.0.gfm.3-3) ...
Setting up pandoc-data (2.9.2.1-3ubuntu2) ...
Setting up pandoc (2.9.2.1-3ubuntu2) ...
Processing triggers for man-db (2.18.2-1) ...
Processing triggers for libcurl-bin (2.35-1ubuntu3.1) ...
root@ubuntu:~#

Рис. 6: Установка Pandoc

Установка дополнений Pandoc

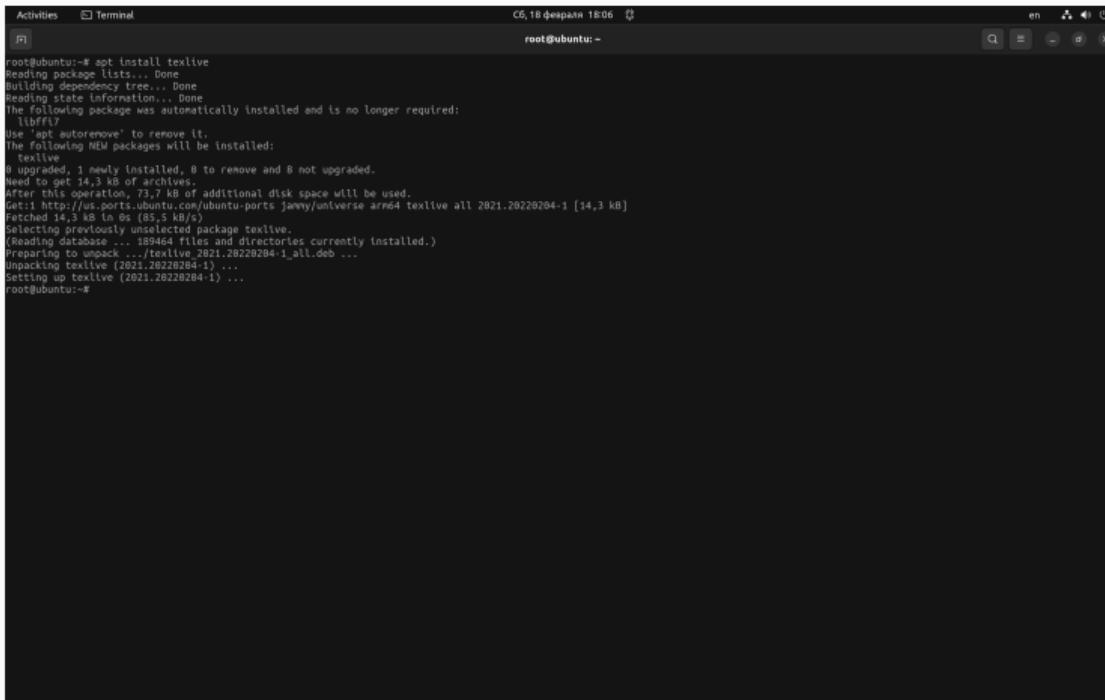


The screenshot shows a terminal window titled "Terminal" with the command "root@ubuntu: ~" at the top. The window displays a log of package installations:

```
root@ubuntu: ~
Unpacking tipa (2:1.3-21) ...
Setting up texlive-base (2021.20210626.59705-1build1) ...
Setting up texlive-latex-base (2021.20210626.59705-1build1) ...
Setting up libtipa0:13:arm64 (0.13.72+dfsg.1-1.1) ...
Setting up tex-common (6.17) ...
update-language: texlive-base not installed and configured, doing nothing!
Setting up libptexenc1:arm64 (2021.20210626.59705-1build1) ...
Setting up libtexc1t0:arm64 (2.5.11+d51-1) ...
Setting up t1tutils (1.41-4ubuntu2) ...
Setting up texlive-texmf (2021.20210626.59705-1build1) ...
Setting up texlive-binaries (2021.20210626.59705-1build1) ...
update-alternatives: using /usr/bin/xdvil-xw to provide /usr/bin/xdvi.bin (xdvi.bin) in auto mode
update-alternatives: using /usr/bin/bibtex.original to provide /usr/bin/bibtex (bibtex) in auto mode
Setting up fonts-lmodern (2.004.5-6.1) ...
Setting up texlive-base (2021.20220204-1) ...
Setting up /usr/bin/ucfr ...
/usr/bin/ucfr ...
/usr/bin/ucfr ...
/usr/bin/ucfr ...
nktexlsr: Updating /var/lib/texmf/tls-R-TEXLIVEDIST...
nktexlsr: Updating /var/lib/texmf/tls-R-TEXMFMAIN...
nktexlsr: Updating /var/lib/texmf/tls-R...
nktexlsr: Done.
tl-paper: setting paper size for dvips to a4: /var/lib/texmf/dvips/config/config-paper.ps
tl-paper: setting paper size for dvipdfmx to a4: /var/lib/texmf/dvipdfmx/dvipdfmx-paper.cfg
tl-paper: setting paper size for dvxvi to a4: /var/lib/texmf/tex/generic/tex-uni-files/pdftexconfig.tex
tl-paper: setting paper size for dvipdfmx to letter: /var/lib/texmf/dvipdfmx/dvipdfmx-paper.cfg
tl-paper: setting paper size for dvips to letter: /var/lib/texmf/dvips/config/config-paper.ps
tl-paper: setting paper size for pdftex to letter: /var/lib/texmf/tex/generic/tex-uni-files/pdftexconfig.tex
tl-paper: setting paper size for xdvil to letter: /var/lib/texmf/xdvi/Xdvil-paper
pdftexconfig.tex
Setting up texlive-latex-base (2021.20220204-1) ...
Setting up texlive-latex-recommended (2021.20220204-1) ...
Setting up lmodern (2.004.5-6.1) ...
Setting up texlive-foms-recommended (2021.20220204-1) ...
Setting up tipa (2:1.3-21) ...
Setting up texlive (2021.20220204-1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for install-info (6.8-4ubuntu1) ...
Processing triggers for malicious (3.79+multiarch0ubuntu1) ...
Processing triggers for fontconfig (2.13.1-4.2ubuntu5) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for libc-bin (2.35-0ubuntu0.1) ...
Processing triggers for tex-common (6.17) ...
Running mktextsr /var/lib/texmf ... done.
Running mformat(5) ... may take some time... done.
Building formats(5) --all.
      This may take some time... done.
root@ubuntu: ~# mc
```

Рис. 7: Установка дополнений Pandoc

Установка TexLive



root@ubuntu:~# apt install texlive
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
 libfffl7
Use 'apt autoremove' to remove it.
The following NEW packages will be installed:
 texlive
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 14,3 kB of archives.
After this operation, 73,7 kB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu/ jammy/universe arm64 texlive all 2021.20220204-1 [14,3 kB]
Fetched 14,3 kB in 0s (85,5 kB/s)
Selecting previously unselected package texlive.
(Reading database ... 399464 files and directories currently installed.)
Preparing to unpack .../texlive_2021.20220204-1_all.deb ...
Unpacking texlive (2021.20220204-1) ...
Setting up texlive (2021.20220204-1) ...
root@ubuntu:~#

Рис. 8: Установка TexLive

Выполнение домашнего задания

```
gdb main
(gdb) run
[...]
Program received signal SIGSEGV, Segmentation fault.
[Current Thread]
```

```
[...]
Program terminated with exit code 134 (0x8c).
```

Вывод

Выполняя данную лабораторную работу, я приобрел практические навыки установки операционной системы на виртуальную машину и настройки мини- мально необходимых для дальнейшей работы сервисов.