

Лабораторная работа №2

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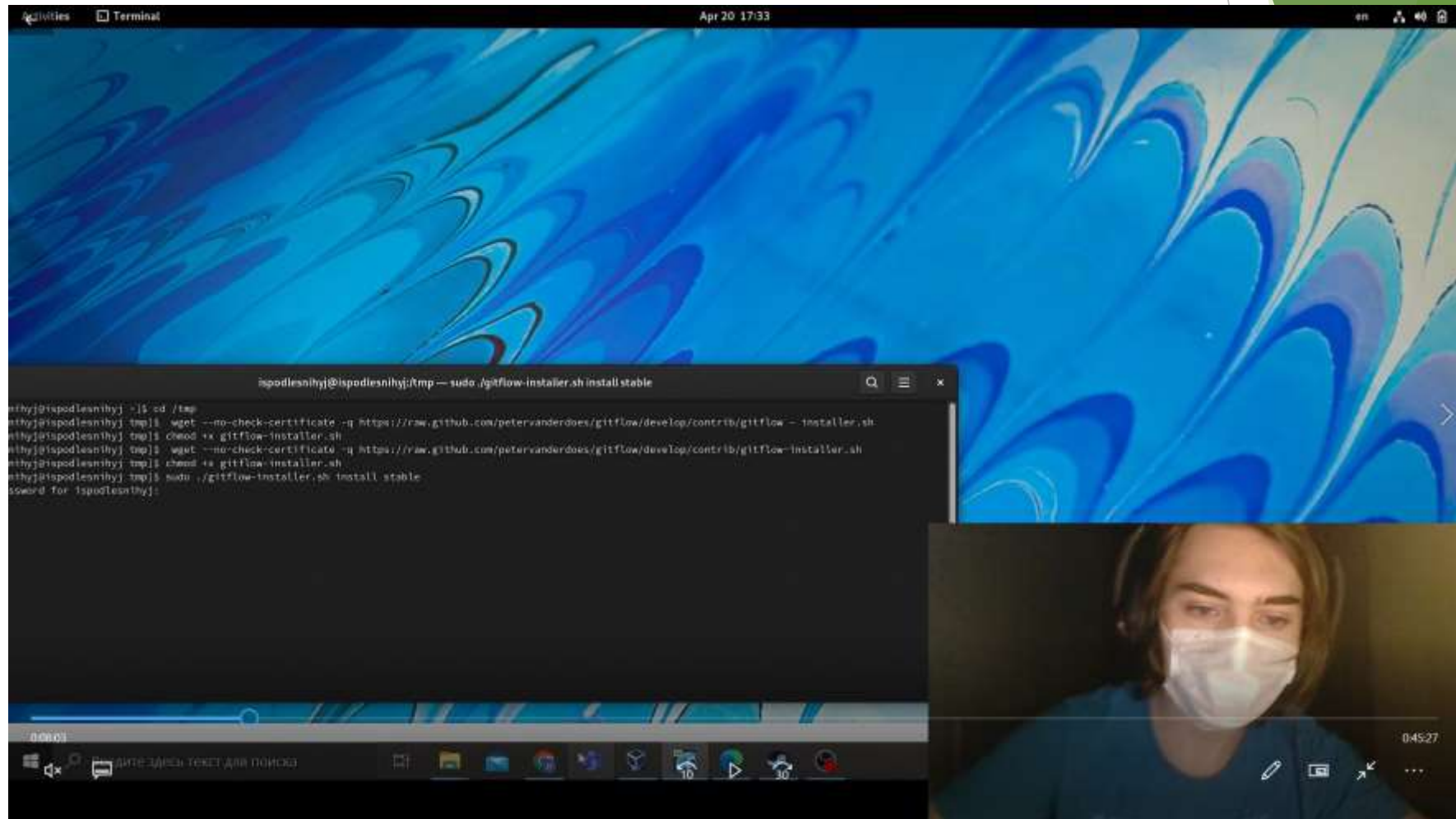
Группа: НКНбд-01-21

Цель Работы

Изучить идеологию и применение средств контроля версий. Освоить умения по работе с git.

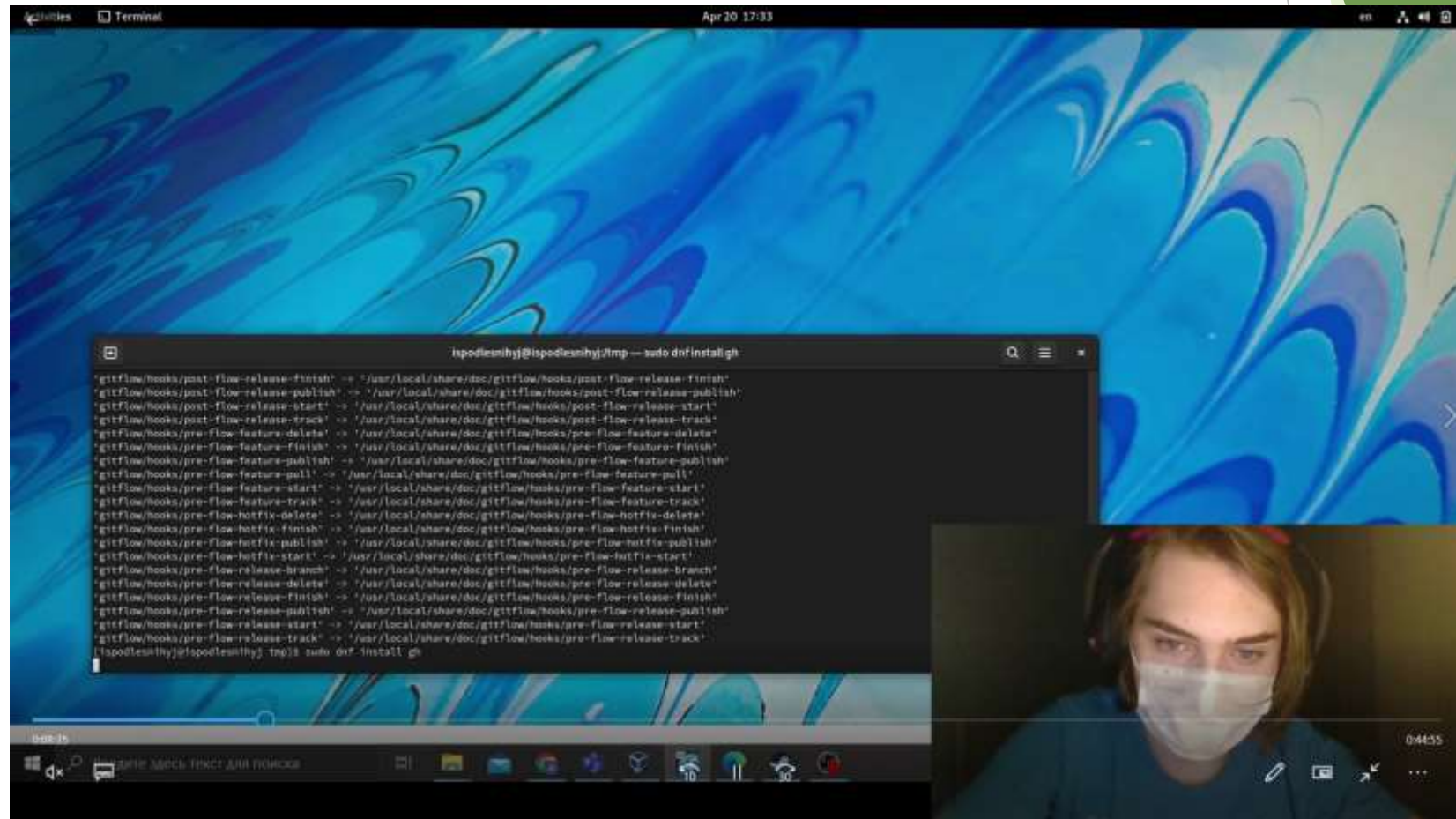
Ход Работы

1. . Устанавливаем git-flow в Fedora Linux. Это программное обеспечение удалено из репозитория. – Необходимо устанавливать его вручную



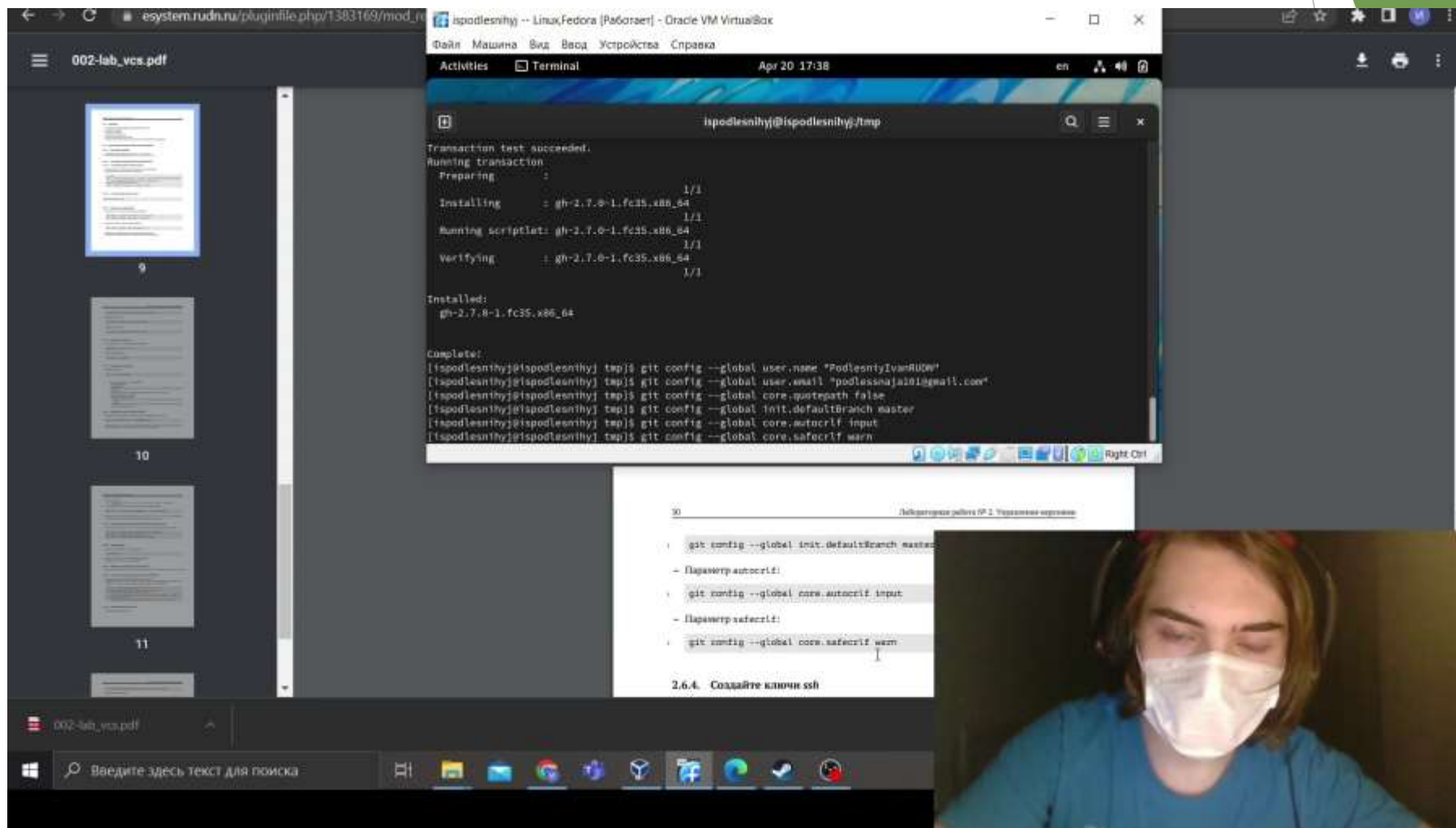
Ход Работы

2. Установка gh в Fedora Linux



Ход Работы

3. Базовая настройка git:



Ход Работы

4. Создание ключей ssh

The screenshot displays a video recording interface. On the left, a sidebar shows a document titled '002-lab_vcs.pdf' with page numbers 9, 10, and 11. The main area features a terminal window titled 'ispodlesnihyj -- Linux Fedora [Работаю] - Oracle VM VirtualBox'. The terminal output shows the execution of the command `ssh-keygen -t rsa -b 4096` and the subsequent generation of an RSA key pair. The user is prompted to enter a file name (defaulting to `SSH_KEY.txt`) and a passphrase. The terminal also displays the key fingerprint and a randomart image for the RSA 4096 key. Below the terminal, a text overlay provides instructions for creating SSH keys, including the command `ssh-keygen -t rsa -b 4096`. In the bottom right corner, a video feed shows a person wearing a white face mask and headphones. The video player controls at the bottom indicate a duration of 0:13:44 and a current time of 0:39:46.

```
[ispodlesnihyj@ispodlesnihyj tmp]$ ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ispodlesnihyj/.ssh/id_rsa): SSH_KEY.txt
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in SSH_KEY.txt
Your public key has been saved in SSH_KEY.txt.pub
The key fingerprint is:
SHA256:pa6gtffLHLRAkttw+8xmQ2iv8z00wM9tMk1T3v33g ispodlesnihyj@ispodlesnihyj
The key's randomart image is:
+--[RSA 4096]-----
  .  .  .
  .nE+ .
  o.. + .
  O O + =
  . o = S B
  . + B + =
  . o X + .
  o o . % + +
  . . o X o
+-----[SHA256]-----
[ispodlesnihyj@ispodlesnihyj tmp]$
```

2.6.4. Создайте ключи ssh

- по алгоритму rsa с ключем размером 4096 бит:

```
ssh-keygen -t rsa -b 4096
```

по алгоритму ed25519:

```
ssh-keygen -t ed25519
```

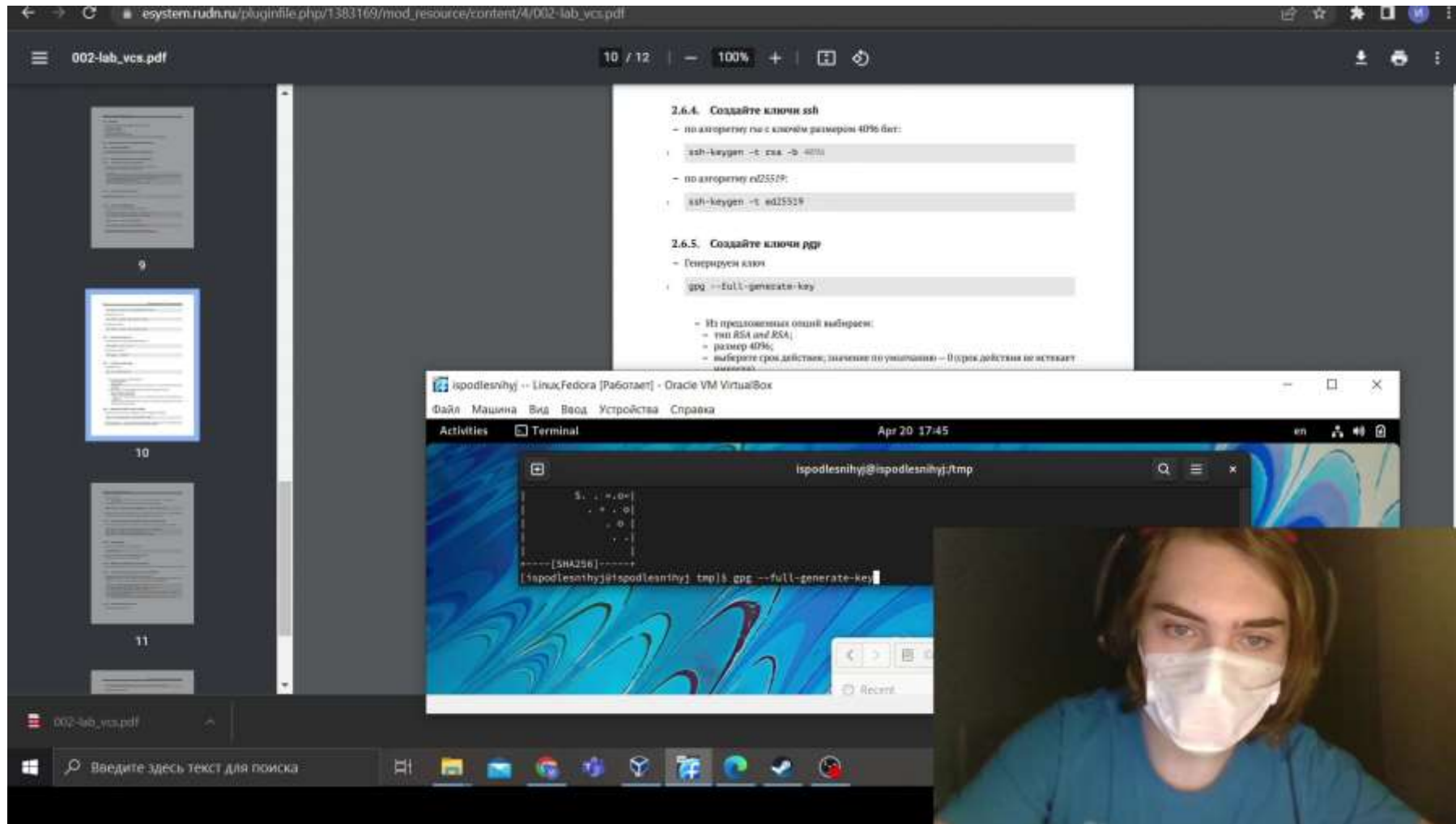
2.6.5. Создайте ключи dgp

- генерируем ключ

```
gpg --full-generate-key
```


Ход Работы

5. Создание GPG ключей



Ход Работы

6.Добавление GPG ключей

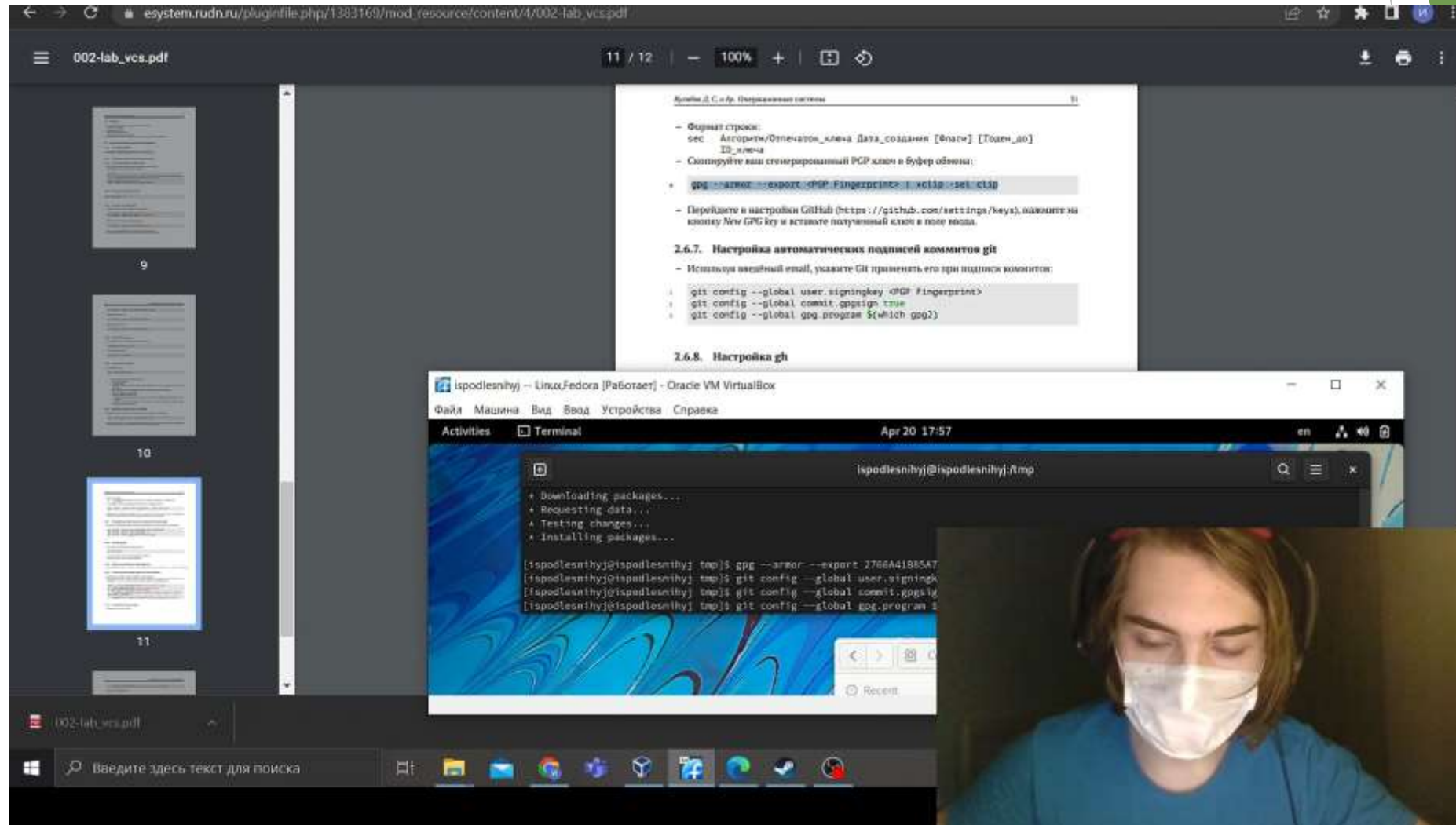
The screenshot displays a video recording interface. On the left, a PDF document titled '002-lab_vcs.pdf' is shown with a sidebar containing thumbnails of pages 9, 10, and 11. The main content area shows page 11, which contains instructions for generating a GPG key. The instructions include:

- Формат строки: `sec Алгоритм/Отпечаток_ключа Дата_создания [Флаги] [Годен_до]`
- Скопируйте ваш сгенерированный PGP ключ в буфер обмена: `gpg --armor --export <PGP_fingerprint> | xclip -sel clip`
- Перейдите в настройки GitHub (<https://github.com/settings/keys>), нажмите на кнопку New GPG key и вставьте полученный ключ в поле ввода.

Below the PDF, a terminal window is open, showing the command `gpg --armor --export <PGP_fingerprint> | xclip -sel clip` being executed. The terminal output shows a syntax error, followed by a successful execution of the command. The video player interface at the bottom shows a progress bar at 0:26:26 and a search bar.

Ход Работы

7. Настройка автоматических подписей коммитов



Ход Работы

8. Настройка gh

The screenshot displays a video player interface. The main content area shows a PDF document titled "002-lab_vcs.pdf" with a table of contents on the left. The current page (11/12) contains instructions for setting up GitHub CLI (gh) on Linux. The instructions include:

- 2.6.7. Настройка автоматических подписей коммитов git
- 2.6.8. Настройка gh

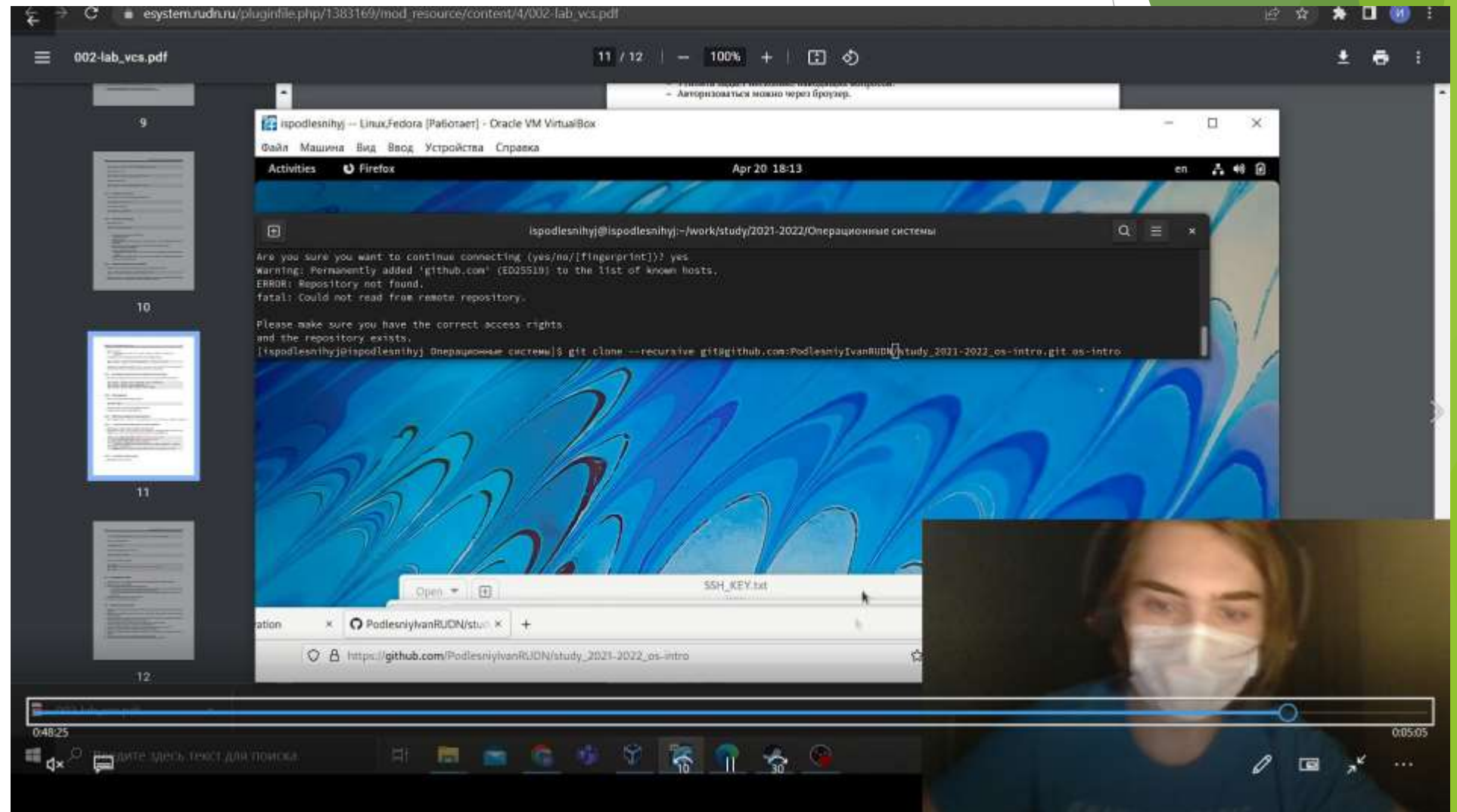
The terminal window shows the following commands and output:

```
[ispodlesnihy]@ispodlesnihy:tmp$ gpg --armor --export 2766A41885A7F2B17C448E82ABE848D2FC2B1215 | ac1ip --sel c1ip
[ispodlesnihy]@ispodlesnihy:tmp$ git config --global user.signingkey 2766A41885A7F2B17C448E82ABE848D2FC2B1215
[ispodlesnihy]@ispodlesnihy:tmp$ git config --global commit.gpgsign true
[ispodlesnihy]@ispodlesnihy:tmp$ git config --global gpg.program gpg
[ispodlesnihy]@ispodlesnihy:tmp$ gh auth login
? what account do you want to log into? (Use arrows to move, type : to search)
> github.com
GitHub Enterprise Server
```

The video player interface includes a progress bar at the bottom, a search bar, and a list of thumbnails on the left. The video title is "002-lab_vcs.pdf".

Ход Работы

- 9. Создание репозитория на основе курса



Ход Работы

► 10. Настройка каталога курса

The screenshot displays a video recording interface. On the left, a sidebar shows a list of documents, with '002-lab_vcs.pdf' selected. The main area is divided into two panes. The top pane shows a PDF document with instructions in Russian for setting up a course catalog, including commands like `make COURSE-os-intro` and `git push`. The bottom pane shows a terminal window with the following commands and output:

```
ispodlesnihyj@ispodlesnihyj:~/work/study/2021-2022/Операционные системы/os-intro$  
create node 100644 project-personal/stage6/presentation/presentation.md  
create node 100644 project-personal/stage6/report/Makefile  
create node 100644 project-personal/stage6/report/bib/cite.bib  
create node 100644 project-personal/stage6/report/image/placeimg_888_888_tech.jpg  
create node 100644 project-personal/stage6/report/pandoc/csl/post-r-7-8-5-2008-numeric.csl  
create node 100644 project-personal/stage6/report/report.md  
create node 100644 structure  
[ispodlesnihyj@ispodlesnihyj os-intro]$ git push
```

Below the terminal, a video call window shows a person wearing a headset and a face mask. The video player controls at the bottom indicate a duration of 0:53:30.

Вывод

- Мы изучили идеологию и применение средств контроля версий. Освоили умения по работе с git.