

# Отчет по лабораторной работе № \_\_\_\_\_ по курсу Фундаментальная информатика

Студент группы M8О-110Б-22 Филиппов Владимир Михайлович, № по списку 23

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Работа выполнена: «     » 20 22 г.

Преподаватель: \_\_\_\_\_ каф. 806 Днепров Иван Сергеевич

Входной контроль знаний с оценкой \_\_\_\_\_

Отчет сдан «     » 20 22 г., итоговая оценка \_\_\_\_\_

Подпись преподавателя \_\_\_\_\_

1. Тема: Сети и телекоммуникации в ОС Linux

2. Цель работы: Изучить работу сетевых команд в ОС Linux. Научиться работать с удаленными ЭВМ.

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3. Задание (вариант №     ): \_\_\_\_\_

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4. Оборудование (лабораторное):

ЭВМ \_\_\_\_\_, процессор \_\_\_\_\_, имя узла сети \_\_\_\_\_ с ОП \_\_\_\_\_ Мб, НМД \_\_\_\_\_ Мб. Терминал \_\_\_\_\_ адрес \_\_\_\_\_ . Принтер \_\_\_\_\_  
Другие устройства \_\_\_\_\_

Оборудование ПЭВМ студента, если использовалось:  
Процессор AMD Ryzen PRO 5650U с ОП 8192 Мб, НМД \_\_\_\_\_ Мб. Монитор \_\_\_\_\_

Другие устройства \_\_\_\_\_

5. Программное обеспечение (лабораторное):

Операционная система семейства \_\_\_\_\_, наименование \_\_\_\_\_ версия \_\_\_\_\_  
интерпретатор команд \_\_\_\_\_ версия \_\_\_\_\_

Система программирования \_\_\_\_\_ версия \_\_\_\_\_

Редактор текстов \_\_\_\_\_ версия \_\_\_\_\_

Утилиты операционной системы \_\_\_\_\_

Прикладные системы и программы \_\_\_\_\_

Местонахождение и имена файлов программ и данных \_\_\_\_\_

Программное обеспечение ЭВМ студента, если использовалось:

Операционная система семейства UNIX \_\_\_\_\_, наименование Ubuntu Linux \_\_\_\_\_ версия 20.04.5 LTS  
интерпретатор команд bash \_\_\_\_\_ версия \_\_\_\_\_.

Система программирования \_\_\_\_\_ версия \_\_\_\_\_

Редактор текстов \_\_\_\_\_ версия \_\_\_\_\_

Утилиты операционной системы \_\_\_\_\_

Прикладные системы и программы \_\_\_\_\_

Местонахождение и имена файлов программ и данных на домашнем компьютере \_\_\_\_\_

**6. Идея, метод, алгоритм** решения задачи (в формах: словесной, псевдокода, графической [блок-схема, диаграмма, рисунок, таблица] или формальные спецификации с пред- и постусловиями)

- 1) Сходить на лекцию. Изучить дополнительную литературу
- 2) Запустить удаленный сервер. Подключиться к нему. Опробовать команды
- 3) Запротоколировать результат. Заполнить отчёт

**7. Сценарий выполнения работы** [план работы, первоначальный текст программы в черновике (можно на отдельном листе) и тесты либо соображения по тестированию].

№	Команда	Краткое описание
1	ping [ip_адрес]	узнать пинг сети
2	ifconfig	узнать ip адрес и краткую информацию о сети
3	ssh [имя пользователя]@[ip адрес]	подключение к удаленному серверу
4	scp file1 [имя пользователя]@[ip адрес]:[директория dir]	копирование файла file1 с компьютера в директорию dir удаленной ЭВМ.
5	scp [имя пользователя]@[ip адрес]:[путь до файла file1] [директория dir]	копирование файла file1 с удаленной ЭВМ в директорию dir компьютера
6	sftp [имя_пользователя]@[ip_адрес]	подключение к удаленной машине через sftp
7	get file1	получить file1 с удаленной машины
8	put file1	отправить file1 на удаленную машину
9	pax -w [директория dir] > arch.pax	архивация директории dir в архив arch.pax
10	pax -w -x cpio ~/test > test.pax	упаковка директории test

*Пункты 1-7 отчета составляются сторого до начала лабораторной работы.*

*Допущен к выполнению работы. Подпись преподавателя \_\_\_\_\_*

**8. Распечатка протокола** (подклейте листинг окончательного варианта программы с тестовыми примерами, подписанный преподавателем).

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Обзор Терминал 07.16 сентября 21:38 zloyaloha@zloyaloha-VirtualBox ~
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/home/zloyaloha/home/test: No Such File or Directory

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root@194.67.112.64:~$ scp root@194.67.112.64:~/vt/virtual.bash ~/test
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zloyaloha@zloyaloha-VirtualBox:~/test$ ls
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f.txt s.txt virtual.bash
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zloyaloha@zloyaloha-VirtualBox:~/test$ ./virtual.bash
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Hello, world
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zloyaloha@zloyaloha-VirtualBox:~/test$ cat f.txt
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root@194.67.112.64's password:                                         100% 12   1.3KB/s  00:00
Last login: Fri Oct 10 21:38
[royalohs@royalohs-VirtualBox ~]# test$ ls
text.txt
v1/f.txt
f.txt
[royalohs@royalohs-VirtualBox ~]# test$ sftp root@194.67.112.64
root@194.67.112.64's password:                                          100% 12   1.3KB/s  00:00
sftp> get v1/f.txt
sftp> get f.txt
sftp> put f.txt v1/f.txt
sftp> put v1/f.txt f.txt
sftp> stat v1/f.txt
sftp> stat /test/virtual_bash
stat: /test/virtual_bash: No such file or directory
sftp> stat /test/virtual_bash
stat: /test/virtual_bash: No such file or directory
sftp> put f.txt v1/f.txt
sftp> put v1/f.txt f.txt
sftp> cd ..
[royalohs@royalohs-VirtualBox ~]# test$ cd
[royalohs@royalohs-VirtualBox ~]# S pax -w -/test > arch.pax
[royalohs@royalohs-VirtualBox ~]# ls
arch.pax
snap
[royalohs@royalohs-VirtualBox ~]# gzip -d < arch.pax > arch2.tar
gzip: arch.tpx.gz: not such file or directory
[royalohs@royalohs-VirtualBox ~]# tar -xvf arch2.tar > arch.pax
[royalohs@royalohs-VirtualBox ~]# ls
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**9. Дневник отладки** должен содержать дату и время сеансов отладки и основные события (ошибки в сценарии и программе, нестандартные ситуации) и краткие комментарии к ним. В дневнике отладки приводятся сведения об использовании других ЭВМ, существенном участии преподавателя и других лиц в написании и отладке программы.

| № | Лаб.<br>или<br>дом. | Дата  | Время | Событие  | Действие по исправлению                            | Примечание   |
|---|---------------------|-------|-------|--|--|--|
| 1 | дом.                | 16.09 | 22:12 | Не копировались файлы с удаленной машины на основную | Попробовал копировать, находясь в основной машине. | Оказывается, что при копировании файла с удаленной машины, находясь на удаленной машине файл просто копируется внутри указанной директории |

**10. Замечания автора** по существу работы \_\_\_\_\_

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**11. Выводы**

После выполнения данной лабораторной я научился пользоваться сетевыми командами в ОС UNIX. При выполнении задачи, поставленной передо мной, я все больше погружался в устройство ОС UNIX, самостоятельно изучал смежные темы, узнавал много нового. В целом я доволен проделанной работой. Уверен, что в будущем эти навыки помогут мне в написании курсовых работ и выполнении других лабораторных.

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Недочёты при выполнении задания могут быть устранены следующим образом: \_\_\_\_\_

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Подпись студента \_\_\_\_\_