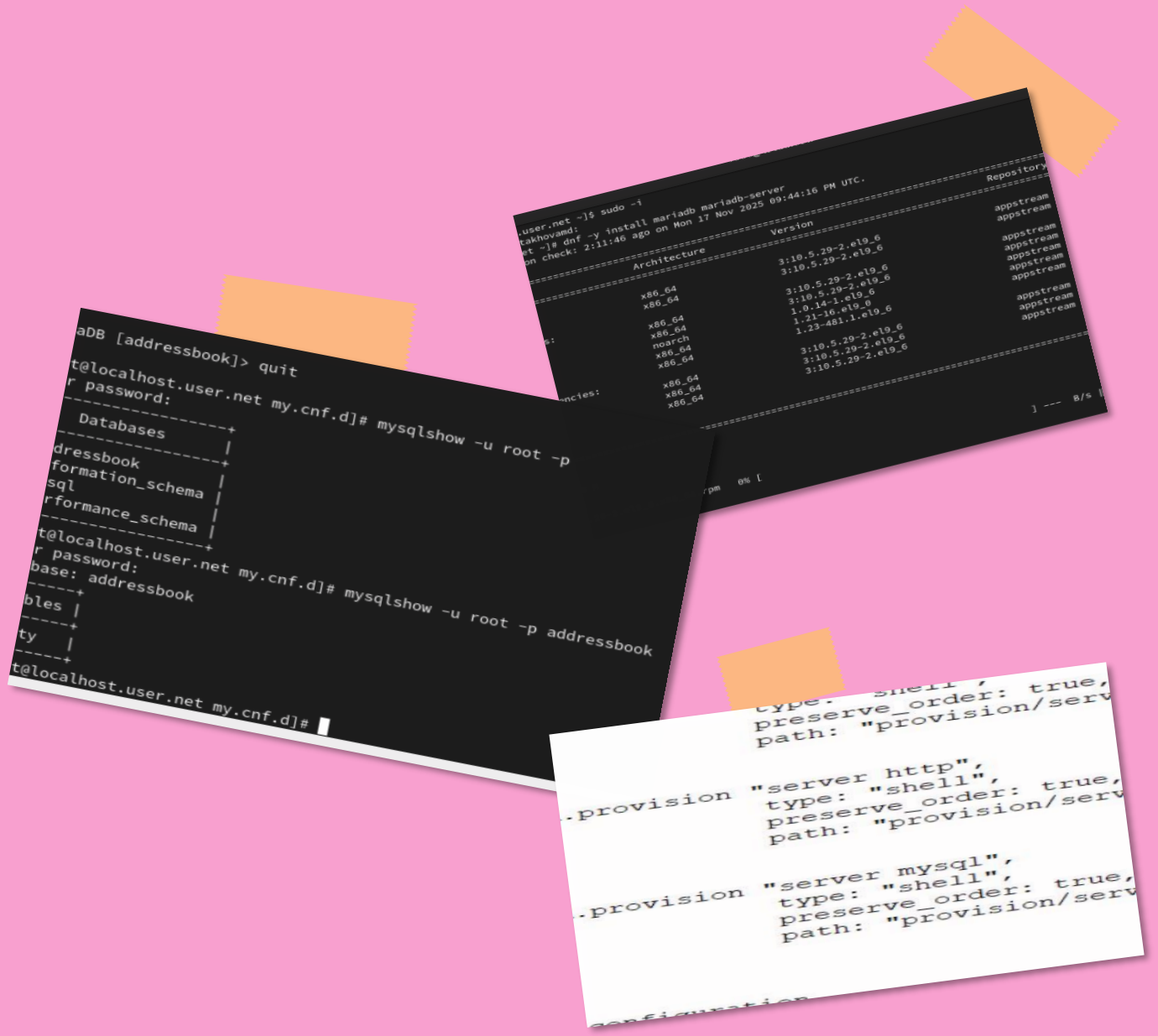
ОТЧЕТ ЛАБОРАТОРНОЙ РАБОТЫ 6

ДИСЦИПЛИНА

АДМИНИСТРИРОВАНИЕ СЕТЕВЫХ ПОДСИСТЕМ



ЦЕЛЬ РАБОТЫ

Приобретение практических навыков по установке и конфигурированию системы управления базами данных на примере программного обеспечения MariaDB.

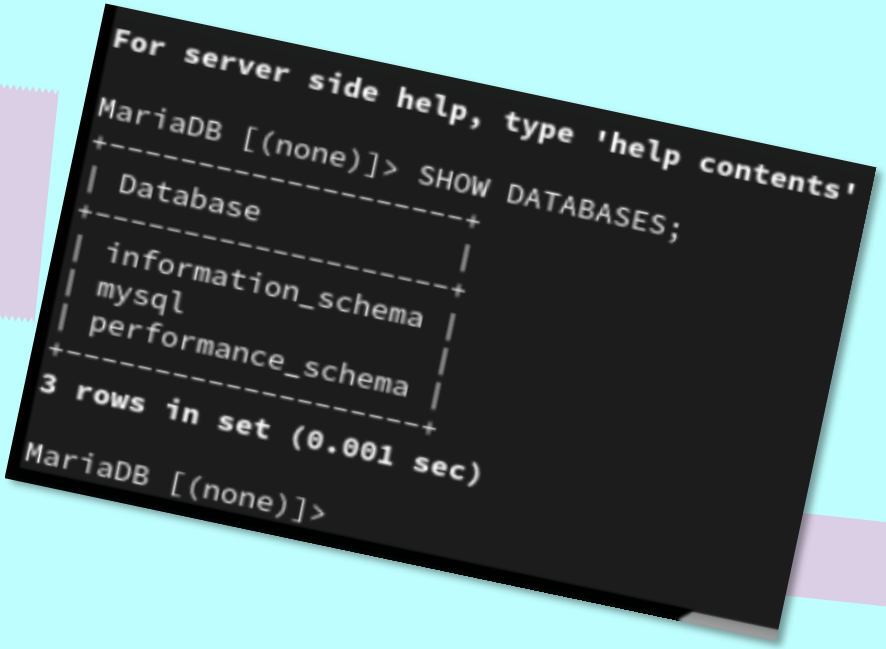
УСТАНОВКА MARIADB

```
Remove anonymous users? [Y/n] Y
 ... Success!

Normally, root should only be allowed to connect from 'localhost'.  This
ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? [Y/n] Y
 ... Success!

By default, MariaDB comes with a database named 'test' that anyone can
access.  This is also intended only for testing, and should be removed
before moving into a production environment.

Remove test database and access to it? [Y/n] Y
 - Dropping test database...
 ... Success!
 - Removing privileges on test database...
 ... Success!

Reloading the privilege tables will ensure that all changes made so far
will take effect immediately.

Reload privilege tables now? [Y/n] Y
 ... Success!

Cleaning up...

All done!  If you've completed all of the above steps, your MariaDB
installation should now be secure.

Thanks for using MariaDB!
[root@localhost.user.net etc]#
```

```
Verifying        : kea-2.6.4-1.el9.x86_64
Verifying        : kea-libs-2.6.4-1.el9.x86_64
Verifying        : log4cplus-2.0.5-15.el9.x86_64
Verifying        : mariadb-connector-c-3.2.6-1.el9_0.x86_64
Verifying        : postgresql-private-libs-13.22-1.el9_6.x86_64
Verifying        : mariadb-connector-c-config-3.2.6-1.el9_0.noarch

stalled:
kea-2.6.4-1.el9.x86_64
kea-libs-2.6.4-1.el9.x86_64
log4cplus-2.0.5-15.el9.x86_64
mariadb-connector-c-3.2.6-1.el9_0.x86_64
mariadb-connector-c-config-3.2.6-1.el9_0.noarch
postgresql-private-libs-13.22-1.el9_6.x86_64

mplete!
```

```
root@localhost:~
                                  x86_64 2:1-117.el9_6            apps
ee-libs
                                  x86_64 1.22.12-4.el9_6          apps
                                  x86_64 5.14.0-570.58.1.el9_6    base
                                  x86_64 5.14.0-570.58.1.el9_6    base
                                  x86_64 5.14.0-570.58.1.el9_6    base
                                  x86_64 1.6.3-1.el9              base
                                  x86_64 1.1.0-2.el9_6.1          base
                                  x86_64 1.4.2-2.el9              apps
                                  x86_64 0.1.1-1.el9              apps
                                  x86_64 2.22.0-1.el9             apps
                                  x86_64 0^20250217.ga1e48a0-13.el9_6
                                                                  apps
                                  noarch 0^20250217.ga1e48a0-13.el9_6
                                                                  apps
fy                                noarch 0.9.6-25.el9             base

mmary
==========================================================
ackages
ackages

 size: 1.4 G
N]:
```

КОНФИГУРАЦИЯ КОДИРОВКИ СИМВОЛОВ

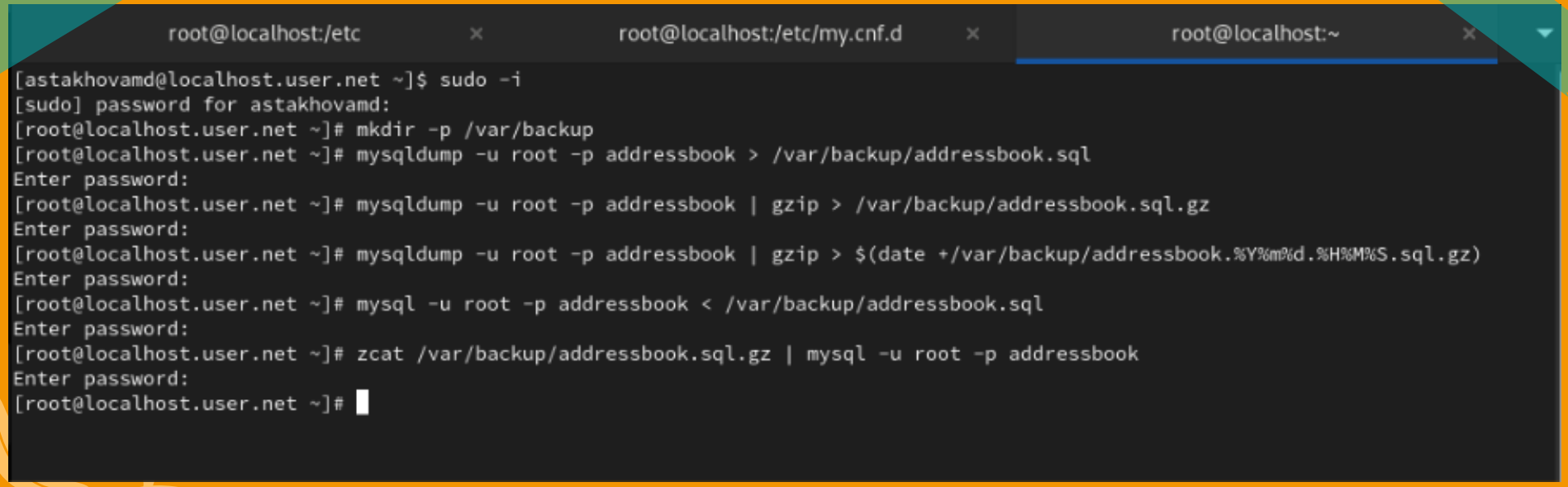


СОЗДАНИЕ БАЗЫ ДАННЫХ

```
MariaDB [addressbook]> SELECT * FROM city;
+---------------+-------------+
| name          | city        |
+---------------+-------------+
| Иванов        | Москва      |
| о Петров      |  Сочи       |
| Сидоров       | Дубна       |
+---------------+-------------+
3 rows in set (0.001 sec)

MariaDB [addressbook]> CREATE USER astakhovamd@'%' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.007 sec)

MariaDB [addressbook]> GRANT SELECT,INSERT,UPDATE,DELETE ON addressbook.* TO astakhovamd@'%';
Query OK, 0 rows affected (0.003 sec)

MariaDB [addressbook]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [addressbook]> DESCRIBE city;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| name  | varchar(40) | YES  |     | NULL    |       |
| city  | varchar(40) | YES  |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.001 sec)

MariaDB [addressbook]> quit
```

```
)]> USE addressbook;
ed
ssbook]> SHOW TABLES;
00 sec)

ssbook]> CREATE TABLE city(name VARCHAR(40), city VARCHA
ws affected (0.006 sec)

ssbook]> CREATE TABLE city(name VARCHAR(40), city VARCHA
S01): Table 'city' already exists
ssbook]> INSERT INTO city(name,city) VALUES ('Иванов','
w affected (0.003 sec)

ssbook]> INSERT INTO city(name,city) VALUES ('о Петров'
w affected (0.006 sec)

ssbook]> INSERT INTO city(name,city) VALUES ('Сидоров',
w affected (0.007 sec)

ssbook]> SELECT * FROM city;
----+---------------+
    | city          |
----+---------------+
    | Москва        |
    |  Сочи         |
    | Дубна         |
----+---------------+
(0.001 sec)
```

РЕЗЕРВНЫЕ КОПИИ



root@localhost:/vagrant/provision/server

root@localhost:/etc | root@localhost:/etc/my.cnf.d | root@localhost:/vagrant/

GNU nano 5.6.1 mysql.sh

```
#!/bin/bash
echo "Provisioning script $0"
systemctl restart named
echo "Install needed packages"
dnf -y install mariadb mariadb-server
echo "Copy configuration files"
cp -R /vagrant/provision/server/mysql/etc/* /etc
mkdir -p /var/backup
cp -R /vagrant/provision/server/mysql/var/backup/* /var/backup
echo "Start mysql service"
systemctl enable mariadb
systemctl start mariadb
if [[ ! -d /var/lib/mysql/mysql ]]
then
echo "Securing mariadb"
mysql_secure_installation <<EOF
y
123456
123456
y
y
y
y
EOF
echo "Create database"
mysql -u root -p123456 <<EOF
CREATE DATABASE addressbook CHARACTER SET utf8 COLLATE utf8_general_ci;
EOF
mysql -u root -p123456 addressbook < /var/backup/addressbook.sql
fi
```

```
                        type: "shell",
                        preserve_order: true,
                        path: "provision/server/dhcp.sh"
  end

server.vm.provision "server http",
                        type: "shell",
                        preserve_order: true,
                        path: "provision/server/http.sh"
  end

server.vm.provision "server mysql",
                        type: "shell",
                        preserve_order: true,
                        path: "provision/server/mysql.sh"
  end

## Client configuration
```

ВНЕСЕНИЕ ИЗМЕНЕНИЙ В НАСТРОЙКИ ВНУТРЕННЕГО ОКРУЖЕНИЯ ВИРТУАЛЬНОЙ МАШИНЫ

СПАСИБО ЗА ВНИМАНИЕ!