

```
ubuntu@ubuntu-virtual-machine:~$ sudo apt update
[sudo] password for ubuntu:
Sorry, try again.
[sudo] password for ubuntu:
E: Invalid operation update
ubuntu@ubuntu-virtual-machine:~$ sudo apt update
Hit:1 http://ru.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ru.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu jammy-backports InRelease [107 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://ru.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [949 kB]
Get:6 http://ru.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [459 kB]
Get:7 http://ru.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [101 kB]
Get:8 http://ru.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages [605 kB]
Get:9 http://ru.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [895 kB]
Get:10 http://ru.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 DEP-11 Metadata [269 kB]
Get:11 http://ru.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 DEP-11 Metadata [940 B]
Get:12 http://ru.archive.ubuntu.com/ubuntu jammy-backports/main amd64 DEP-11 Metadata [7 972 B]
Get:13 http://ru.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [12,4 kB]
Fetched 3 636 kB in 4s (1 015 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
4 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ubuntu-virtual-machine:~$
```

Установка PostgreSQL

```
ubuntu@ubuntu-virtual-machine:~$ sudo apt install postgresql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
postgresql is already the newest version (14+238).
0 upgraded, 0 newly installed, 0 to remove and 4 not upgraded.
ubuntu@ubuntu-virtual-machine:~$
```

Включение сервера

```
ubuntu@ubuntu-virtual-machine:~$ systemctl enable postgresql
Synchronizing state of postgresql.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable postgresql
ubuntu@ubuntu-virtual-machine:~$
```

Запуск postgresql

```
ubuntu@ubuntu-virtual-machine:~$ systemctl start postgresql
ubuntu@ubuntu-virtual-machine:~$
```

Проверка работы сервера postgresql

```
ubuntu@ubuntu-virtual-machine:~$ sudo -u postgres psql postgres
sudo: psql: command not found
ubuntu@ubuntu-virtual-machine:~$ sudo -u postgres postgres
sudo: postgres: command not found
ubuntu@ubuntu-virtual-machine:~$ sudo -u postgres createdb medb
could not change directory to "/home/ubuntu": Permission denied
ubuntu@ubuntu-virtual-machine:~$ sudo -u postgres createdb medb
could not change directory to "/home/ubuntu": Permission denied
createdb: error: database creation failed: ERROR: database "medb" already exists
ubuntu@ubuntu-virtual-machine:~$ sudo systemctl status postgresql
● postgresql.service - PostgreSQL RDBMS
   Loaded: loaded (/lib/systemd/system/postgresql.service; enabled; vendor preset: enabled)
   Active: active (exited) since Fri 2023-03-24 19:05:33 MSK; 11min ago
     Main PID: 1022 (code=exited, status=0/SUCCESS)
        CPU: 1ms

map 24 19:05:33 ubuntu-virtual-machine systemd[1]: Starting PostgreSQL RDBMS...
map 24 19:05:33 ubuntu-virtual-machine systemd[1]: Finished PostgreSQL RDBMS.
ubuntu@ubuntu-virtual-machine:~$ sudo -i -u postgres
postgres@ubuntu-virtual-machine:~$ psql
psql (14.7 (Ubuntu 14.7-0ubuntu0.22.04.1))
Type "help" for help.

postgres=#
```