Домашнее задание №6 по теме "Работа в терминале (лекция 1)"

Установка Vagrant и VirtualBox пункты дз 1-5:
вывод с терминала:
~ cd vagrant   ✔
~/vagrant
~/vagrant vagrant up

✔
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Box 'bento/ubuntu-20.04' could not be found. Attempting to find and install...
    default: Box Provider: virtualbox
    default: Box Version: >= 0
==> default: Loading metadata for box 'bento/ubuntu-20.04'
    default: URL: https://vagrantcloud.com/bento/ubuntu-20.04
==> default: Adding box 'bento/ubuntu-20.04' (v202206.03.0) for provider: virtualbox
    default: Downloading:
https://vagrantcloud.com/bento/boxes/ubuntu-20.04/versions/202206.03.0/providers/virtualbox.box
==> default: Successfully added box 'bento/ubuntu-20.04' (v202206.03.0) for 'virtualbox'!
==> default: Importing base box 'bento/ubuntu-20.04'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'bento/ubuntu-20.04' version '202206.03.0' is up to date...
==> default: Setting the name of the VM:
vagrant_default_1661460200877_16407
Vagrant is currently configured to create VirtualBox synced folders with the `SharedFoldersEnableSymlinksCreate` option enabled. If the Vagrant guest is not trusted, you may want to disable this option. For more information on this option, please refer to the VirtualBox manual:

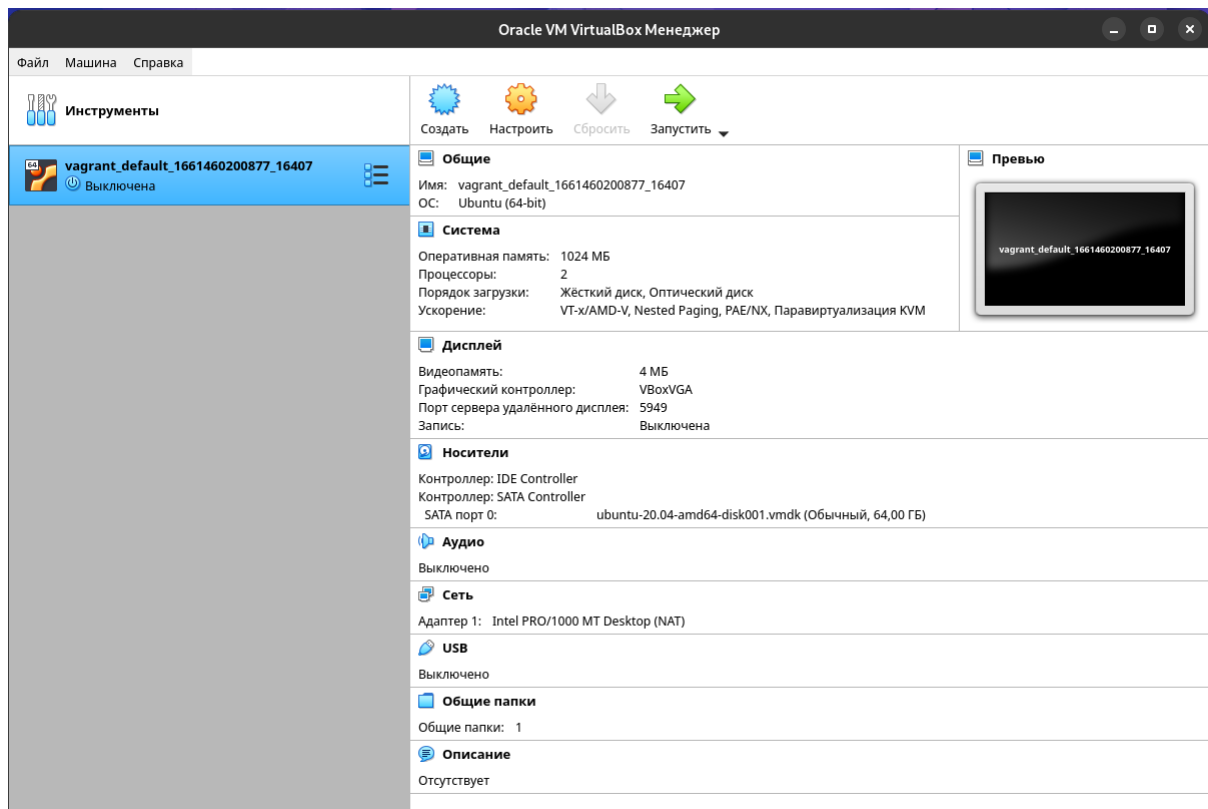 https://www.virtualbox.org/manual/ch04.html#sharedfolders

This option can be disabled globally with an environment variable:

  VAGRANT_DISABLE_VBOXSYMLINKCREATE=1

or on a per folder basis within the Vagrantfile:

```
  config.vm.synced_folder '/host/path', '/guest/path',
SharedFoldersEnableSymlinksCreate: false
==> default: Clearing any previously set network interfaces...
==> default: Preparing network interfaces based on configuration...
    default: Adapter 1: nat
==> default: Forwarding ports...
    default: 22 (guest) => 2222 (host) (adapter 1)
==> default: Booting VM...
==> default: Waiting for machine to boot. This may take a few minutes...
    default: SSH address: 127.0.0.1:2222
    default: SSH username: vagrant
    default: SSH auth method: private key
    default: Warning: Remote connection disconnect. Retrying...
    default: Warning: Connection reset. Retrying...
    default:
    default: Vagrant insecure key detected. Vagrant will automatically replace
    default: this with a newly generated keypair for better security.
    default:
    default: Inserting generated public key within guest...
    default: Removing insecure key from the guest if it's present...
    default: Key inserted! Disconnecting and reconnecting using new SSH
key...
==> default: Machine booted and ready!
==> default: Checking for guest additions in VM...
==> default: Mounting shared folders...
    default: /vagrant => /home/alex/vagrant
    ~/vagrant
✔  43m 15s
```

Скриншот VirtualBox

6. Из документации к Vagrant-у

отредактировать скрипт добавить памяти в виртуальную машину
config.vm.provider "virtualbox" do |v|
  v.memory = 1024
  v.cpus = 2
end

7. Вывод с терминала:

```
~  cd vagrant                                      1 ✘
~/vagrant  vagrant up                                      ✔
```
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Checking if box 'bento/ubuntu-20.04' version '202206.03.0' is up to date...
==> default: Clearing any previously set forwarded ports...
==> default: Clearing any previously set network interfaces...
==> default: Preparing network interfaces based on configuration...
    default: Adapter 1: nat
==> default: Forwarding ports...
    default: 22 (guest) => 2222 (host) (adapter 1)

==> default: Booting VM...
==> default: Waiting for machine to boot. This may take a few minutes...
    default: SSH address: 127.0.0.1:2222
    default: SSH username: vagrant
    default: SSH auth method: private key
==> default: Machine booted and ready!
==> default: Checking for guest additions in VM...
==> default: Mounting shared folders...
    default: /vagrant => /home/alex/vagrant
==> default: Machine already provisioned. Run `vagrant provision` or use the `--provision`
==> default: flag to force provisioning. Provisioners marked to run always will still run.
    ~/vagrant **vagrant ssh**   ✔ 29s
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.4.0-110-generic x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/advantage

 System information disabled due to load higher than 2.0

This system is built by the Bento project by Chef Software
More information can be found at https://github.com/chef/bento
Last login: Thu Aug 25 20:47:59 2022 from 10.0.2.2
vagrant@vagrant:~$ **man bash**
vagrant@vagrant:~$

8. HISTSIZE - строка 957
    команда **man bash | nl | grep "HISTSIZE"**

    ignoreboth - значение ignoreboth является сокращением для
ignorespace и ignoredups. Использование ignoreboth позволяет не
сохранять в HISTCONTROL, строки, начинающиеся с пробела и
дубликаты.

9. Скобки { } применяется для создания составных команд, команды находящиеся в скобках будут выполнены в контексте текущего процесса, и результаты их вызова будут сохранены в текущем контексте. Строка 253.

10. `Для создания 10000 файлов`
                       `touch {000001..100000}.txt`
    `Создать 300000 файлов не получится`
                       `touch {000001..300000}.txt`
         `-bash: /usr/bin/rm: Argument list too long`

11. проверка условия у -d /tmp и возврат статуса (0 или 1), `проверяет наличие директории tmp.`

12. Вывод с терминала:
hachiko@hachik-O:~$ mkdir /tmp/new_path_directory/
hachiko@hachik-O:~$ cp /bin/bash /tmp/new_path_directory/
hachiko@hachik-O:~$ PATH=/tmp/new_path_directory/:$PATH
hachiko@hachik-O:~$ type -a bash
bash является /tmp/new_path_directory/bash
bash является /tmp/new_path_directory/bash
bash является /usr/bin/bash
bash является /bin/bash
hachiko@hachik-O:~$

13. **batch** планирует задания и выполняет их в пакетной очереди,
    at принимает дату и время и команду, которая должна быть выполнена из стандартного ввода.

14. **Вывод с терминала:**
vagrant@vagrant:~$ exit
logout
   ~/vagrant vagrant halt
✔ 5m 27s
==> default: Attempting graceful shutdown of VM...
 ~/vagrant