


Защита лабораторной работы № 1

Подготовка лабораторного стенда

Администрирование сетевых подсистем

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Цель работы

Целью данной работы является приобретение практических навыков установки Rocky Linux на виртуальную машину с помощью инструмента Vagrant.

Подготовка необходимых файлов

```
*01-user - Notepad
File Edit Format View Help
#!/bin/bash

echo "Provisioning script $0"

username=saismael
userpassword=123456

encpassword=`openssl passwd -1 ${userpassword}`

id -u $username
if [[ $? ]]
then
    adduser -G wheel -p ${encpassword} ${username}
    homedir=`getent passwd ${username} | cut -d: -f6`
    echo "export PS1='[\u@\H \W]\$ '" >> ${homedir}/.bashrc
fi
```

Ln 5, Col 18 100% Unix (LF) UTF-8

```
01-hostname - Notepad
File Edit Format View Help
#!/bin/bash

username=saismael

hostnamectl set-hostname "${HOSTNAME%%.*}.${username}.net"
```

Развертывание образа виртуальной машины

```
C:\Users\Scorpion 1.0\Desktop\AC\packer\vagrant>vagrant box add rocky9 vagrant-virtualbox-rocky-9-x86_64.box
==> box: Box file was not detected as metadata. Adding it directly...
==> box: Adding box 'rocky9' (v0) for provider:
    box: Unpacking necessary files from: file:///C:/Users/Scorpion%201.0/Desktop/AC/packer/vagrant/vagrant-virtualbox-rocky-9-x86_64.box
    box:
==> box: Successfully added box 'rocky9' (v0) for 'virtualbox'!
```

Для запуска виртуальной машины Server и Client

Я ИСПОЛЬЗОВАЛ КОМАНДЫ

vagrant up server

vagrant up client

{C:\Users\Scorpion 1.0\Desktop\AC\packer\vagrant} - Far 3.0.6000.0 x86

```
C:\Users\Scorpion 1.0\Desktop\AC\packer\vagrant>vagrant up server
Bringing machine 'server' up with 'virtualbox' provider...
==> server: You assigned a static IP ending in ".1" to this machine.
==> server: This is very often used by the router and can cause the
==> server: network to not work properly. If the network doesn't work
==> server: properly, try changing this IP.
==> server: Preparing master VM for linked clones...
server: This is a one time operation. Once the master VM is prepared,
server: it will be used as a base for linked clones, making the creation
server: of new VMs take milliseconds on a modern system.
==> server: Importing base box 'rocky9'...
==> server: Cloning VM...
==> server: Matching MAC address for NAT networking...
==> server: You assigned a static IP ending in ".1" to this machine.
==> server: This is very often used by the router and can cause the
==> server: network to not work properly. If the network doesn't work
==> server: properly, try changing this IP.
==> server: Setting the name of the VM: server
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:
```

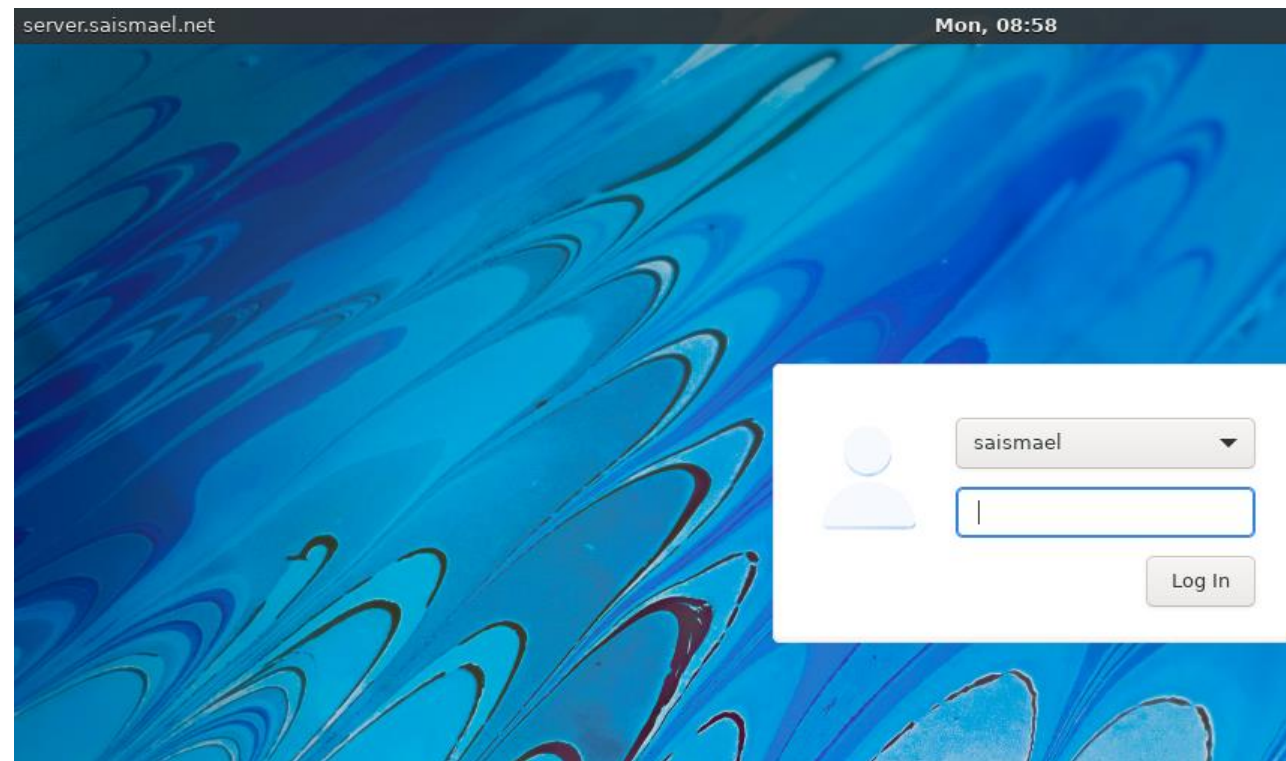
{C:\Users\Scorpion 1.0\Desktop\AC\packer\vagrant} - Far 3.0.6000.0 x86

```
C:\Users\Scorpion 1.0\Desktop\AC\packer\vagrant>vagrant up client
Bringing machine 'client' up with 'virtualbox' provider...
==> client: Cloning VM...
==> client: Matching MAC address for NAT networking...
==> client: Setting the name of the VM: client
==> client: Fixed port collision for 22 => 2222. Now on port 2200.
==> client: Clearing any previously set network interfaces...
==> client: Preparing network interfaces based on configuration...
client: Adapter 1: nat
client: Adapter 2: intnet
==> client: Forwarding ports...
client: 22 (guest) => 2200 (host) (adapter 1)
==> client: Running 'pre-boot' VM customizations...
==> client: Booting VM...
==> client: Waiting for machine to boot. This may take a few minutes...
client: SSH address: 127.0.0.1:2200
client: SSH username: vagrant
client: SSH auth method: password
==> client: Machine booted and ready!
==> client: Checking for guest additions in VM...
client: No guest additions were detected on the base box for this VM! Guest
client: additions are required for forwarded ports, shared folders, host only
client: networking, and more. If SSH fails on this machine, please install
client: the guest additions and repackaging the box to continue.
client:
client: This is not an error message; everything may continue to work properly,
client: in which case you may ignore this message.
==> client: Setting hostname...
==> client: Configuring and enabling network interfaces...
==> client: Mounting shared folders
```

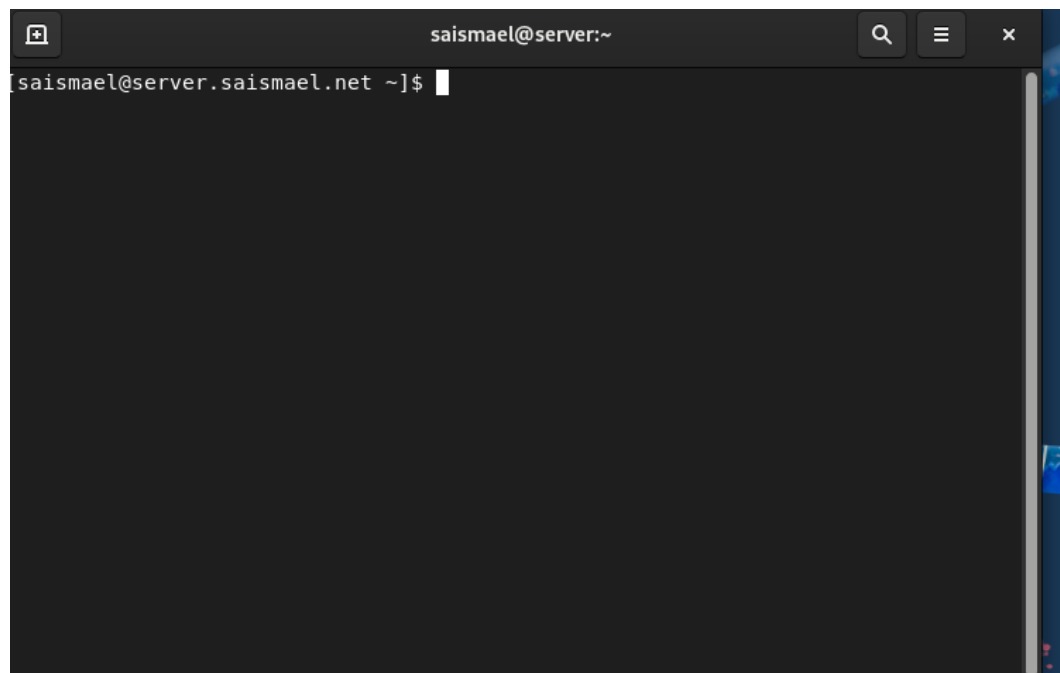

Для работающих под ОС Windows вместо инструкций Makefile следует последовательно ввести в командной строке:

я использовал команды : `vagrant up server --provision` и `vagrant up client --provision`

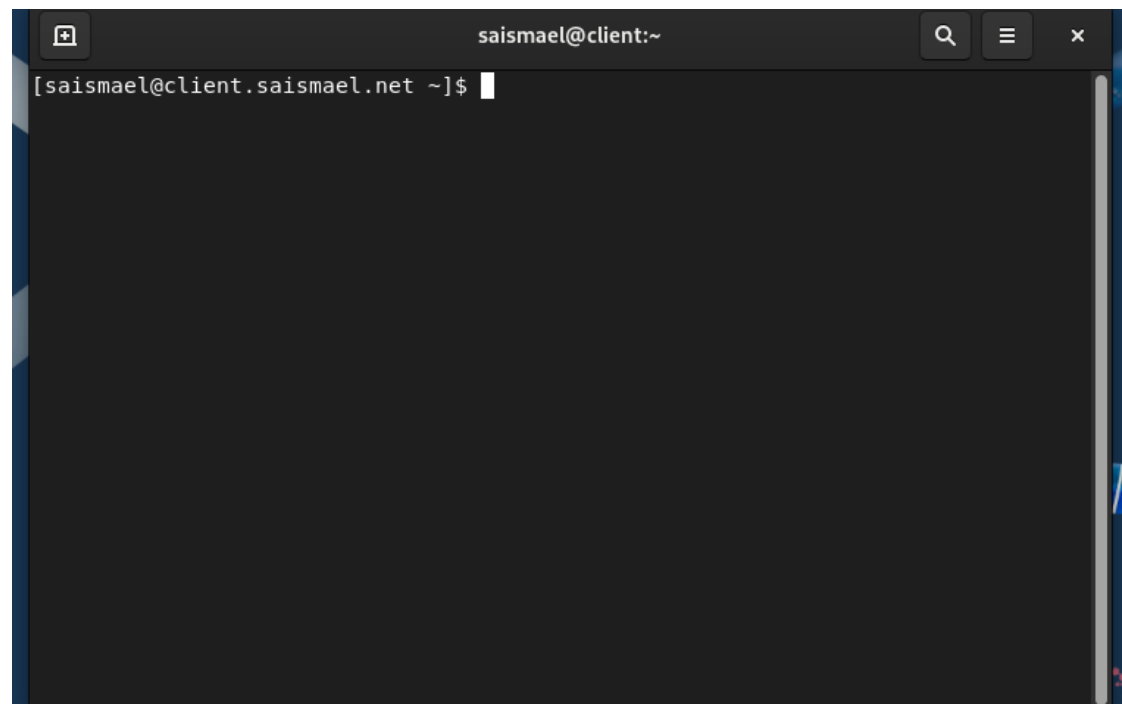
```
{C:\Users\Scorpion 1.0\Desktop\AC\packer\vagrant} - Far 3.0.6000.0 x86
C:\Users\Scorpion 1.0\Desktop\AC\packer\vagrant>vagrant up client --provision
Bringing machine 'client' up with 'virtualbox' provider...
==> client: Clearing any previously set forwarded ports...
==> client: Fixed port collision for 22 => 2222. Now on port 2200.
==> client: Clearing any previously set network interfaces...
==> client: Preparing network interfaces based on configuration...
client: Adapter 1: nat
client: Adapter 2: intnet
==> client: Forwarding ports...
client: 22 (guest) => 2200 (host) (adapter 1)
==> client: Running 'pre-boot' VM customizations...
==> client: Booting VM...
==> client: Waiting for machine to boot. This may take a few minutes...
client: SSH address: 127.0.0.1:2200
client: SSH username: vagrant
client: SSH auth method: password
client: Warning: Remote connection disconnect. Retrying...
client: Warning: Remote connection disconnect. Retrying...
client: Warning: Remote connection disconnect. Retrying...
client: Warning: Remote connection disconnect. Retrying...
client: Warning: Remote connection disconnect. Retrying...
==> client: Machine booted and ready!
==> client: Checking for guest additions in VM...
client: The guest additions on this VM do not match the installed version of
client: VirtualBox! In most cases this is fine, but in rare cases it can
client: prevent things such as shared folders from working properly. If you see
client: shared folder errors, please make sure the guest additions within the
client: virtual machine match the version of VirtualBox you have installed on
client: your host and reload your VM.
client:
```



Залогиньтесь на сервере и клиенте под созданным пользователем

A terminal window with a dark background and a light blue title bar. The title bar contains a window icon, the text 'saismael@server:~', and search, menu, and close buttons. The terminal content shows the prompt '[saismael@server.saismael.net ~]\$' followed by a cursor.

```
saismael@server:~  
[saismael@server.saismael.net ~]$
```

A terminal window with a dark background and a light blue title bar. The title bar contains a window icon, the text 'saismael@client:~', and search, menu, and close buttons. The terminal content shows the prompt '[saismael@client.saismael.net ~]\$' followed by a cursor.

```
saismael@client:~  
[saismael@client.saismael.net ~]$
```

Вывод

Приобрел практические навыки установки Rocky Linux на виртуальную машину с помощью инструмента Vagrant.