How to Setup VyOS (Virtual Router Pentest Lab)

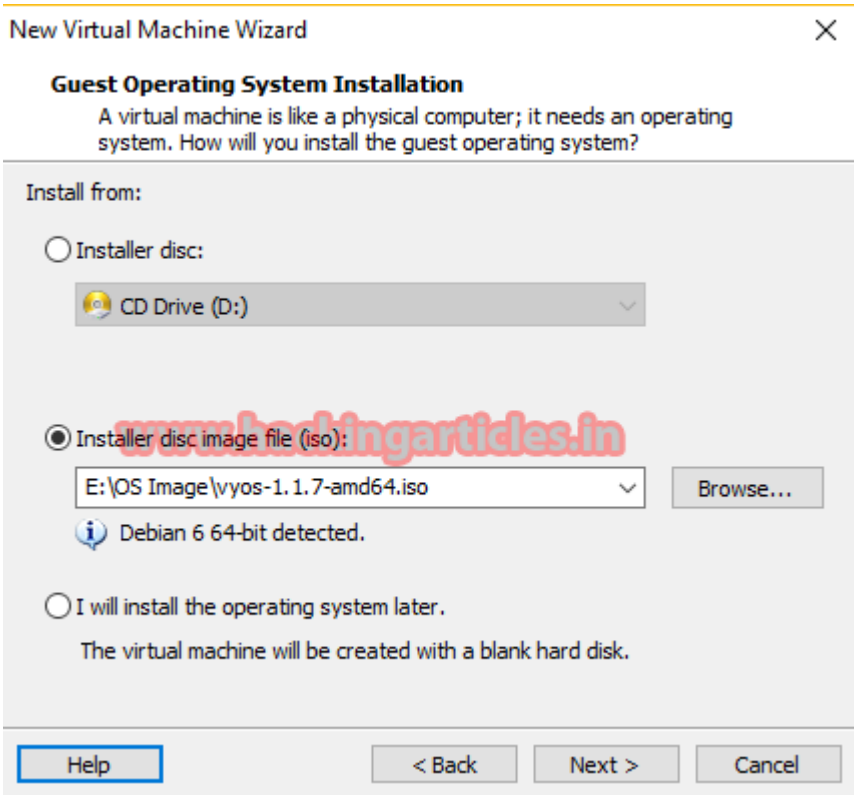
hackingarticles.in/setup-vyos-virtual-router-pentest-lab

Raj March 7, 2016

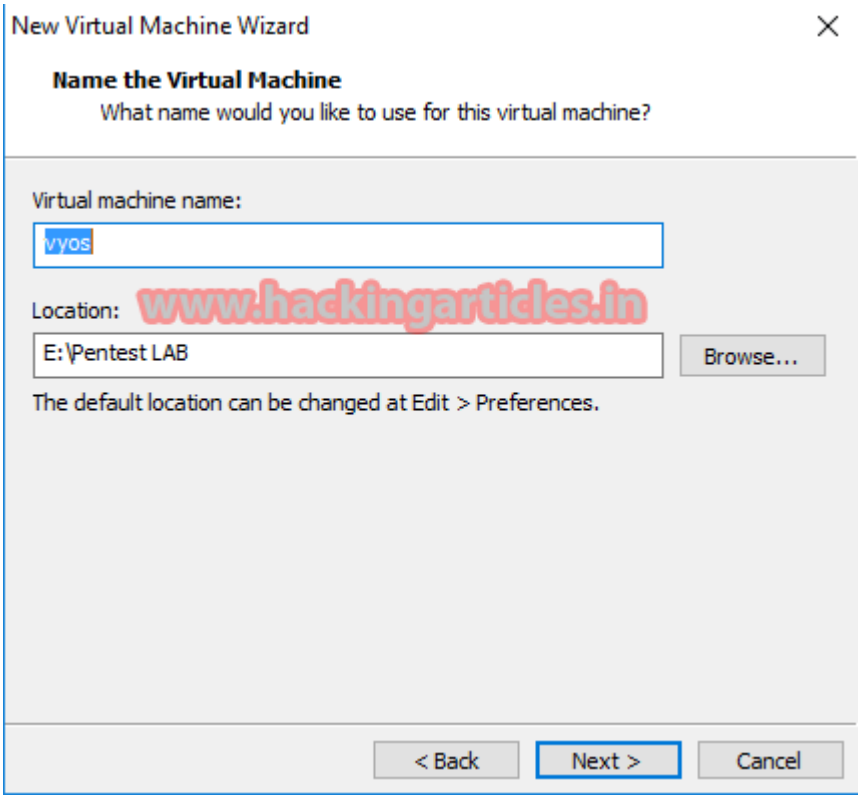
VyOS is a Linux-based network operating system that provides software-based network routing, firewall, and VPN functionality. Its configuration syntax and command-line interface are loosely derived from Juniper JUNOS as modeled by the XORP project.

First Download Vyos iso image from **here**

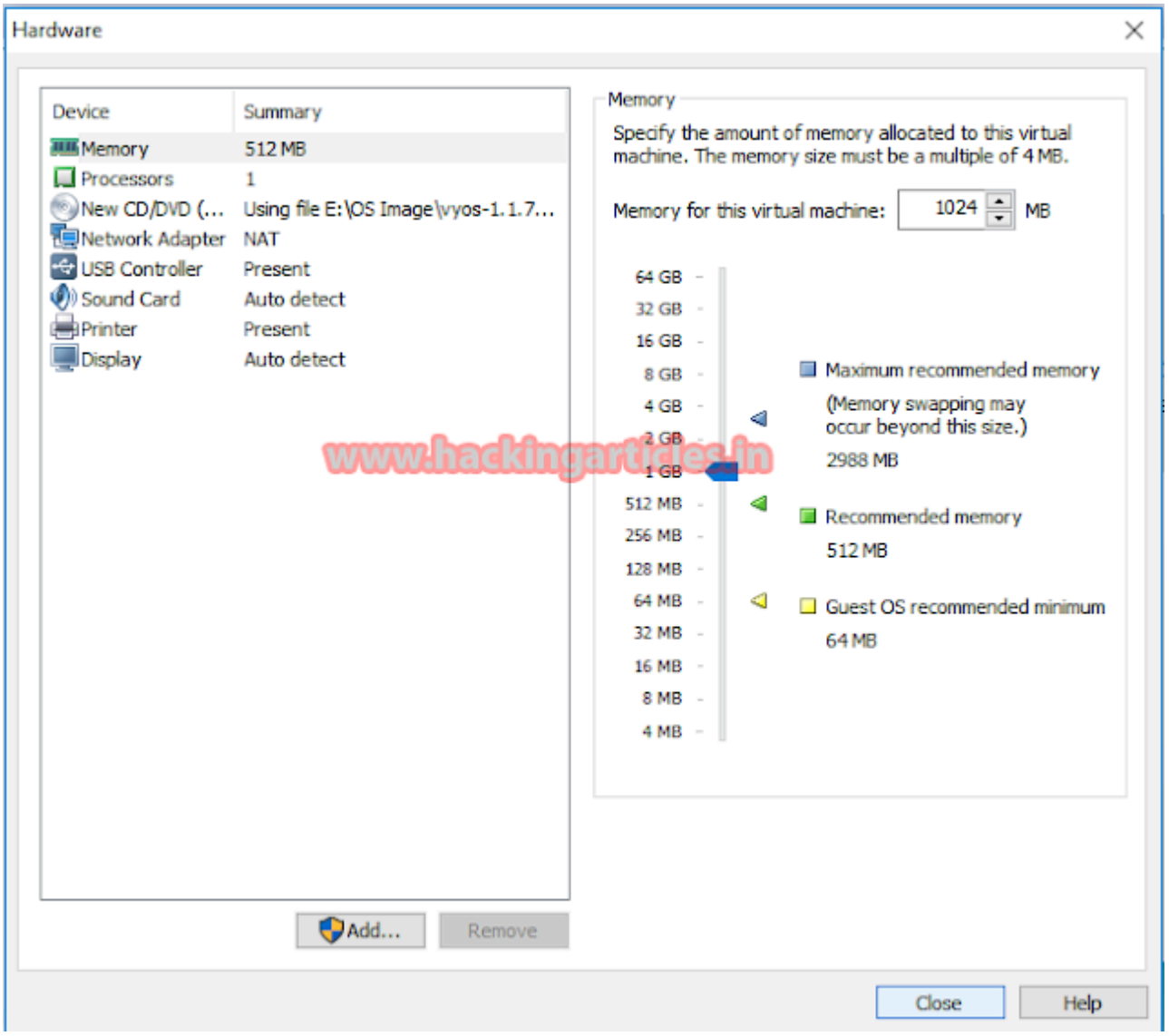
Open **VMWARE** tool, create a new virtual machine. Select **Installer disc image file** and select the OS image of **vyos** and click on **next**.



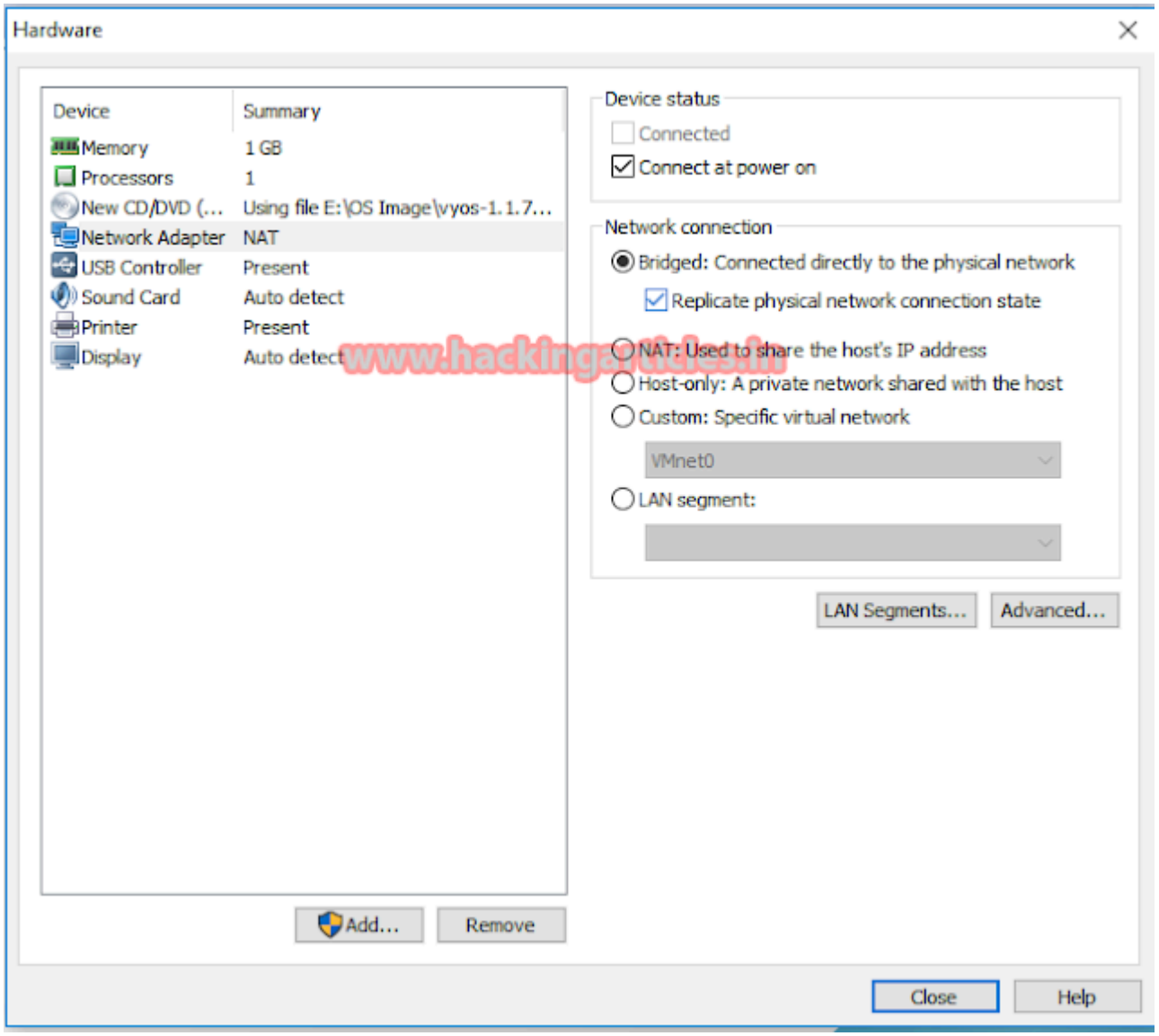
Enter your **virtual machine name** and **location**. Click **next**.



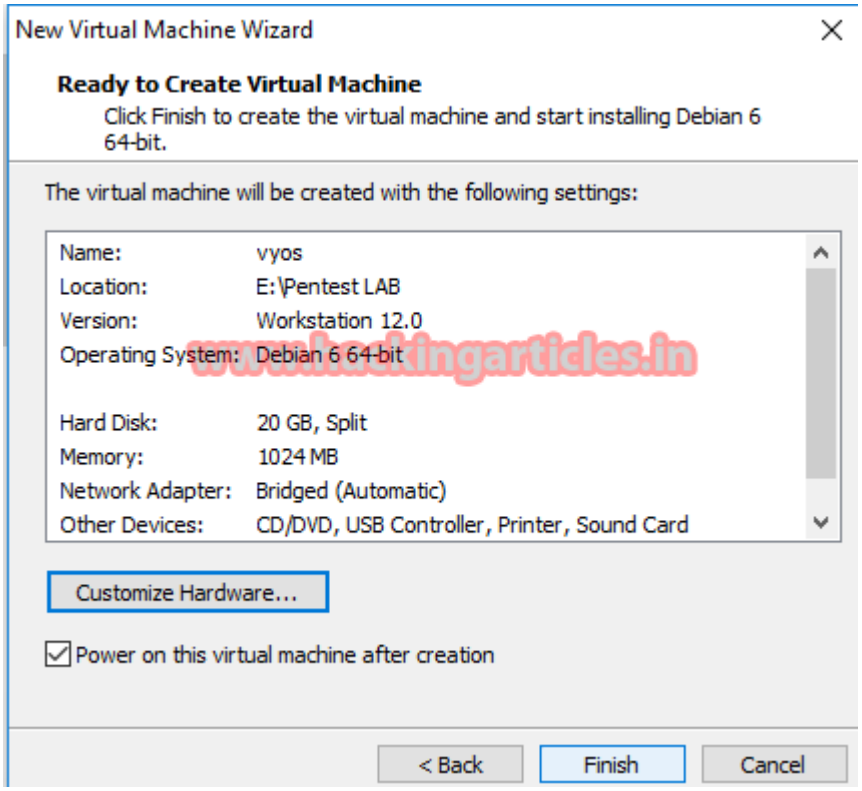
Set Ram up to 1 GB for vyos and click to the network adapter



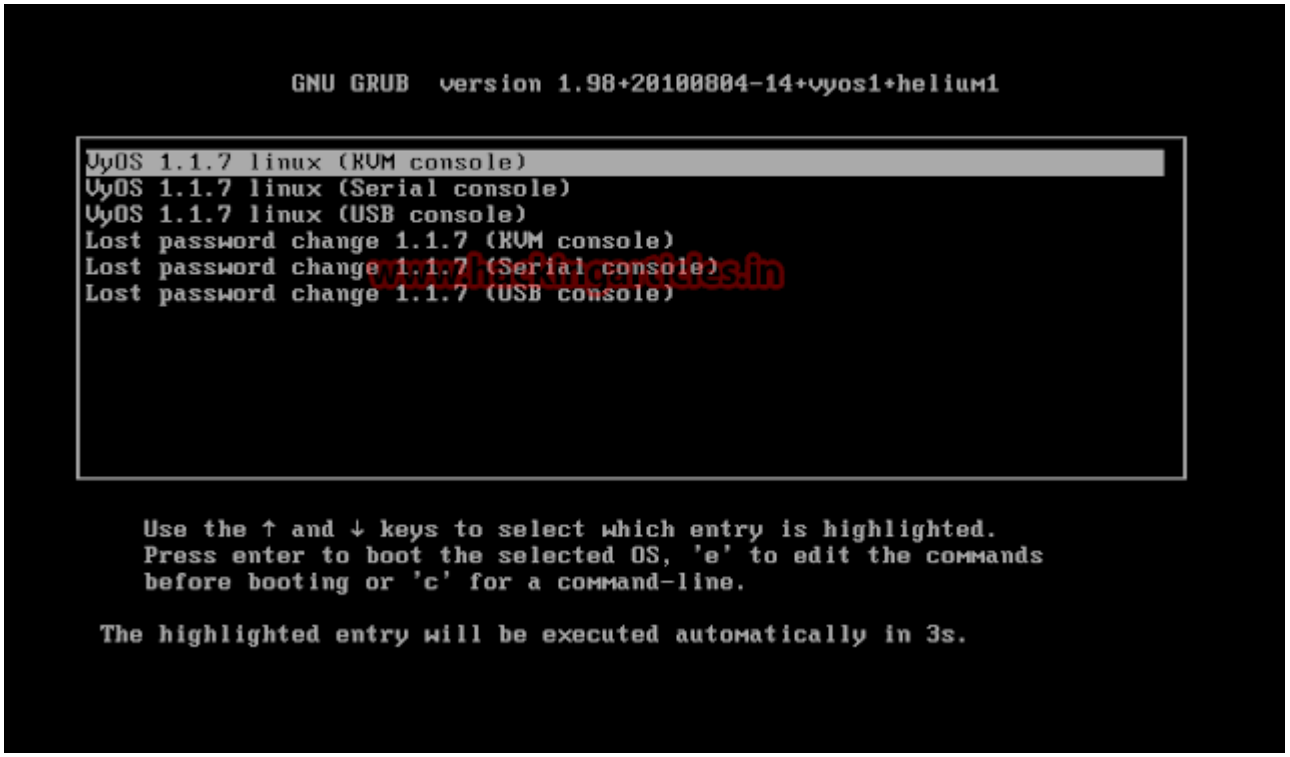
Next, we are choosing our first network adapter. Connect it to the Bridge Adapter and click on **close**.



Then click on **finish**.



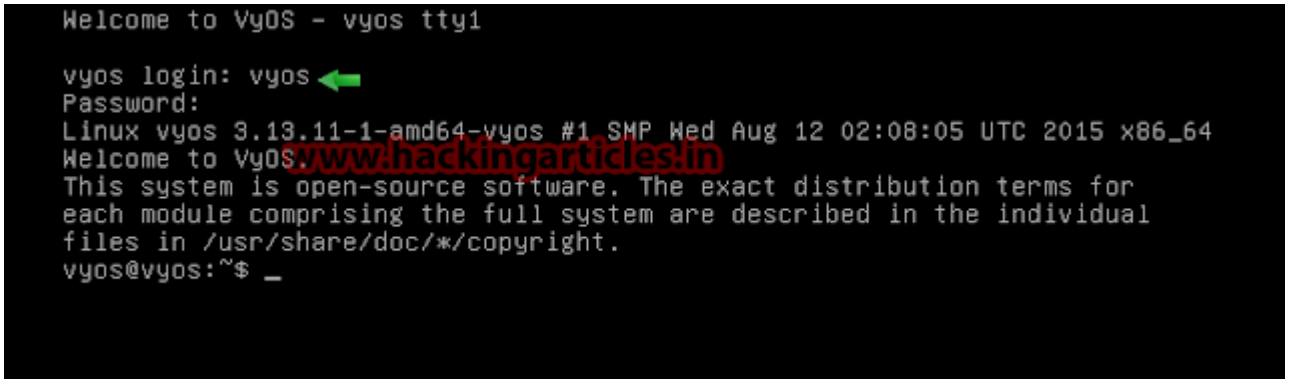
Now the installation process will start automatically. It takes a few seconds for the VM to boot and VyOS to load.



After boot screen hit enter and login to **vyos** using the following credentials:

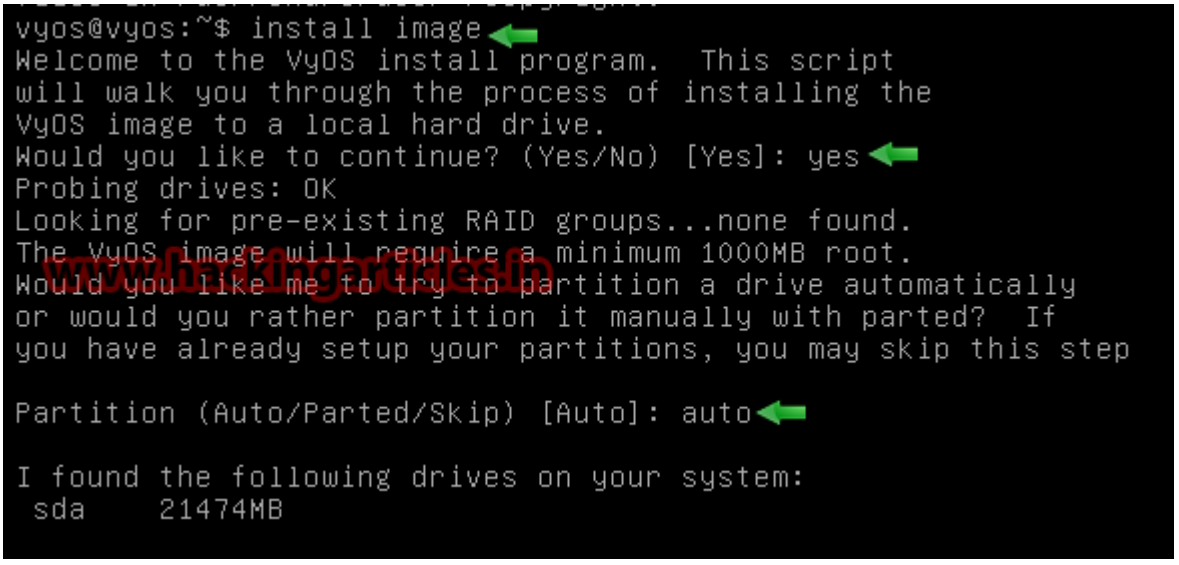
Username: vyos

Password: vyos

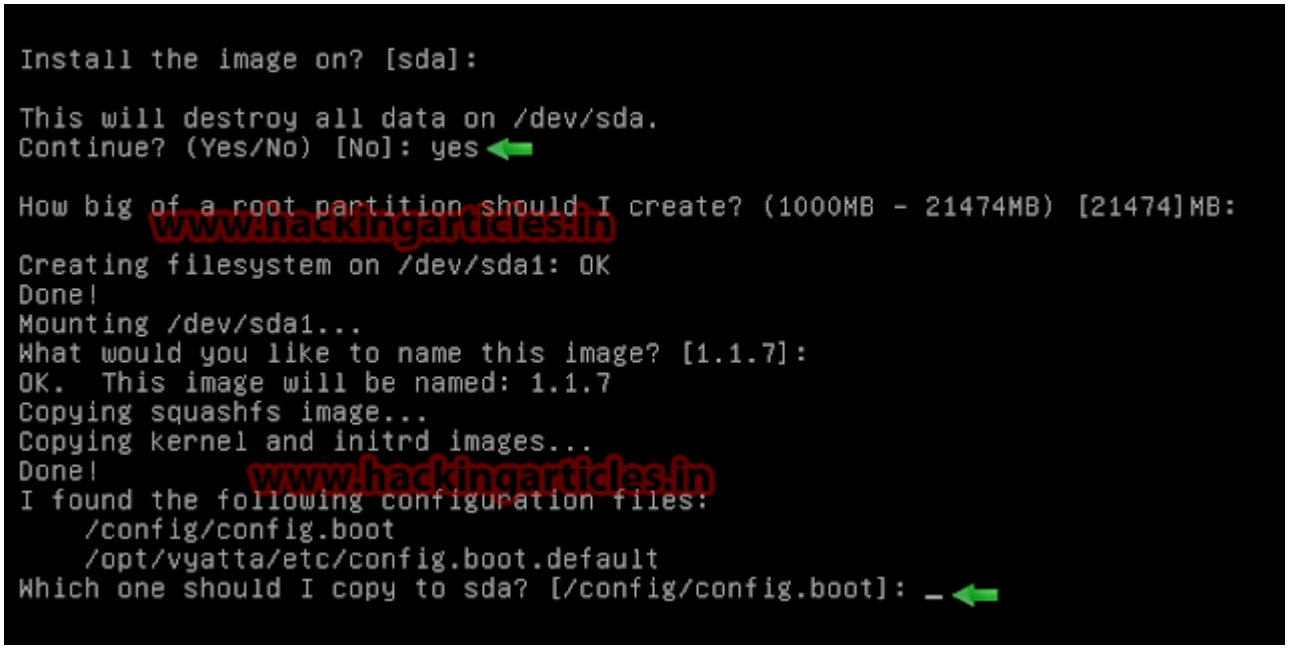


Installation of Vyos on local disk. In order to do that simply execute the command: **install image** and press **enter**

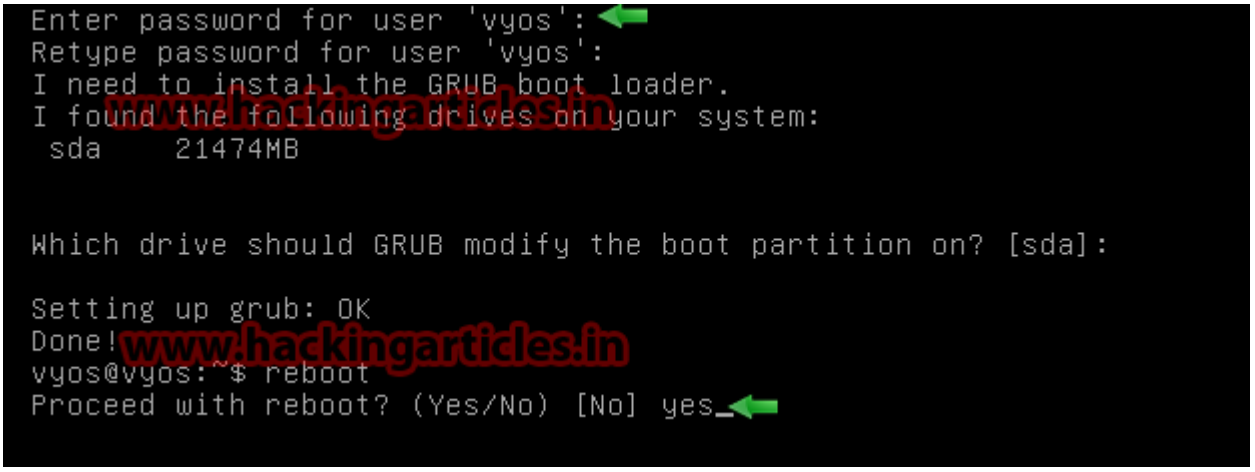
Now type **yes** and press **enter** in next option Select **auto** partition press **enter**



In next option type **yes** to continue press **enter**



After the installation is complete Issue the **reboot** command Again type: **yes** press **enter**



Login again to **vyos** and we will start with setting

Now we will check network interfaces using **show interfaces** command

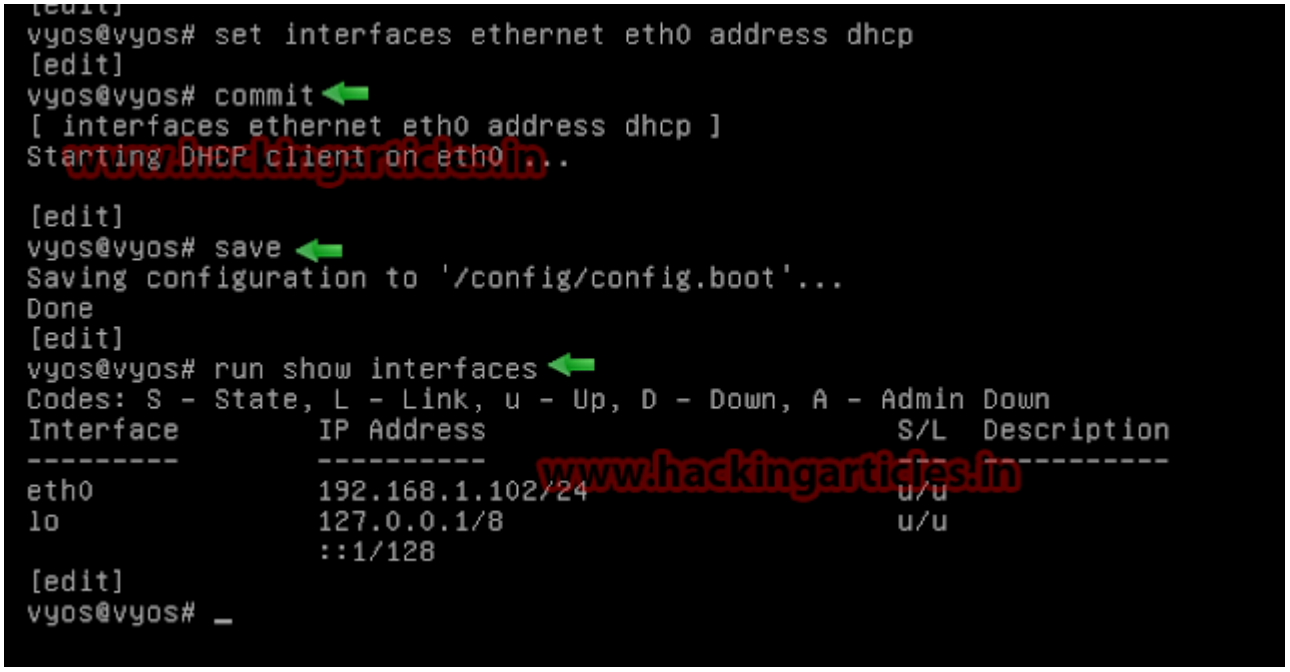
Now Enter configuration mode by typing "**conf**" and have a look at the current interfaces:

After you made some changes, you need to enter the "**commit**" and "**save**" commands.

Now we will setup network interfaces:

```
set interfaces ethernet eth0 address dhcp
```

Now again you need to enter the "**commit**" and "**save"** commands. Now we will check network interfaces using run show interfaces command.



Now before we are able to connect to our router with SSH, we will enable SSH In order to do it execute the following commands:

```
set service ssh
commit
save
```

Now before we are able to connect to our router with **TELNET**, we need to enable that. To do so, issue the following commands

```
set service telnet
commit
save
```

```
[edit]
vyos@vyos# save
Saving configuration to '/config/config.boot'...
Done
[edit]
vyos@vyos# set service ssh
[edit]
vyos@vyos# commit
[ service ssh ]
Restarting OpenBSD Secure Shell server: sshd.

[edit]
vyos@vyos# save
Saving configuration to '/config/config.boot'...
Done
[edit]
vyos@vyos# set service telnet
[edit]
vyos@vyos# commit
[edit]
vyos@vyos# save
Saving configuration to '/config/config.boot'...
Done
[edit]
vyos@vyos# _
```


To check all enable service type the following command

```
show service
```

```
[edit]
vyos@vyos# show
Possible completions:
 > interfaces    Network interfaces
 > service       Services
 > system        System parameters
[edit]
vyos@vyos# show service
 ssh {
 }
 telnet {
 }
[edit]
vyos@vyos# _
```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