Setup Firewall Pentest Lab using Clear OS

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Clear OS is basically a Linux based server operating system for small business which comes with server, networking and gateway related functions. Clear OS is available in a Home, Business and free Community Edition. It is normally managed from a web-based interface but it can also be completely operated from a command line. But mostly ClearOS is used as firewall.

Let's see how to install Clear OS.

First, make bootable disk or pen drive from Yumi or Rufus.

Then restart your computer and select: Install ClearOS
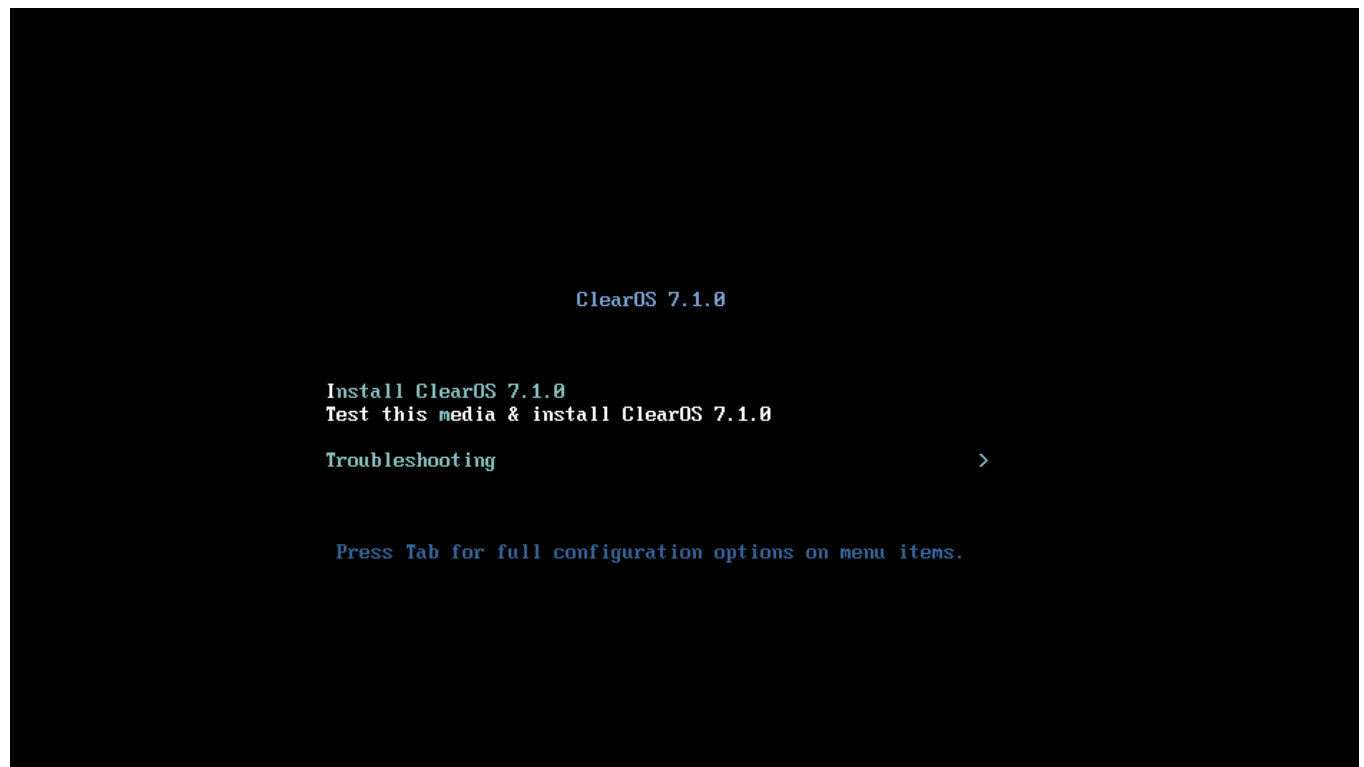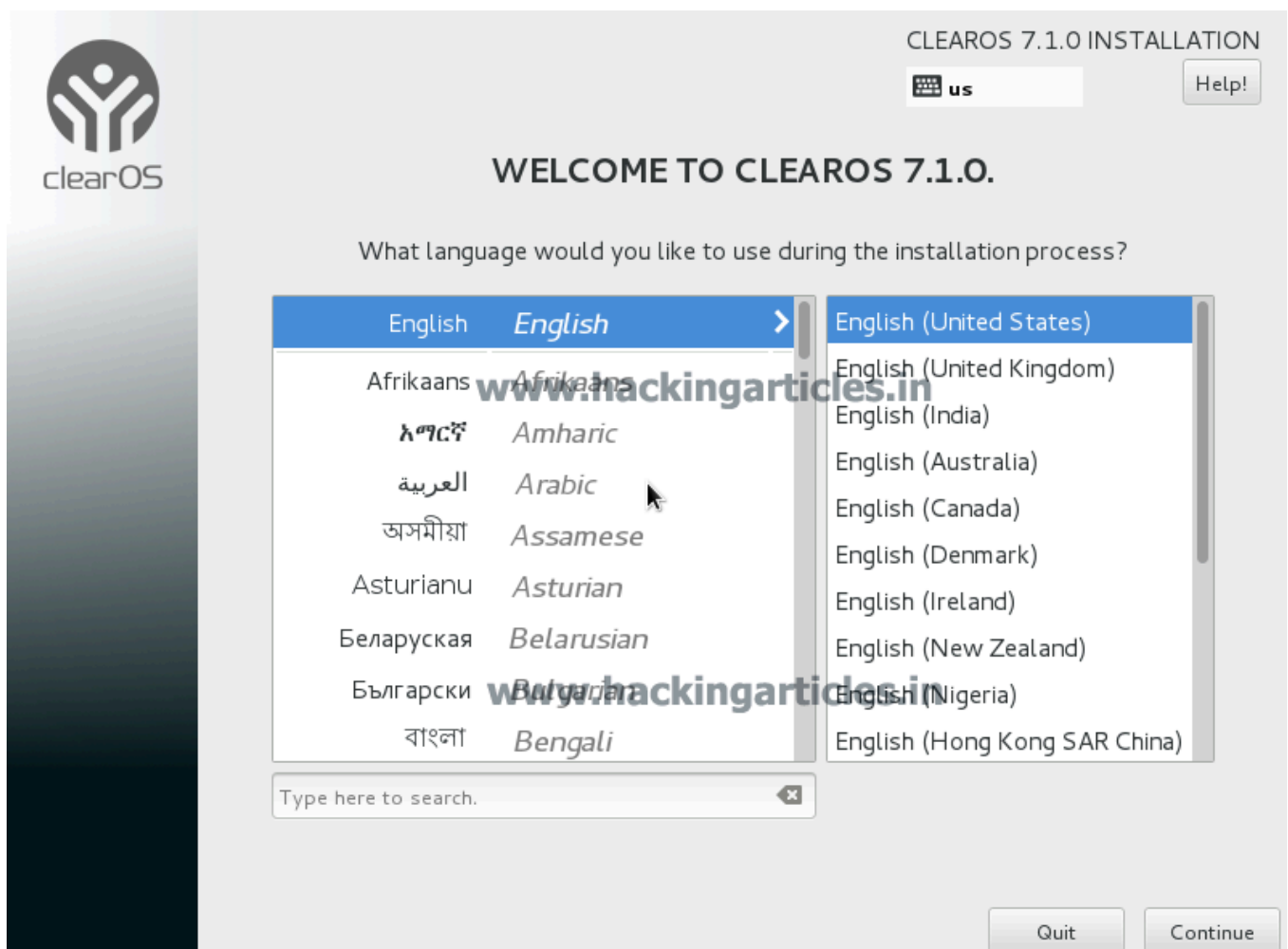

After selecting press **Enter**

```
    -   Press the <ENTER> key to begin the installation process.

[   23.249234] sd 2:0:0:0: [sda] Assuming drive cache: write through
[  OK  ] Started Show Plymouth Boot Screen.
[  OK  ] Reached target Paths.
[  OK  ] Reached target Basic System.
dracut-initqueue[846]: mount: /dev/sr0 is write-protected, mounting read-only
[  OK  ] Started Show Plymouth Boot Screen.
[  OK  ] Reached target Paths.
[  OK  ] Reached target Basic System.
dracut-initqueue[846]: mount: /dev/sr0 is write-protected, mounting read-only
        Starting Media check on /dev/sr0...
/dev/sr0:    8ef3cf33223738534608649e5728abbe
Fragment sums: 16bcdf18fcbdcac9c9db8e8a9c97651f965a63a9caa6ec6c85fea3bd6fdf
Fragment count: 20
Press [Esc] to abort check.
Checking: 053.9%_
```
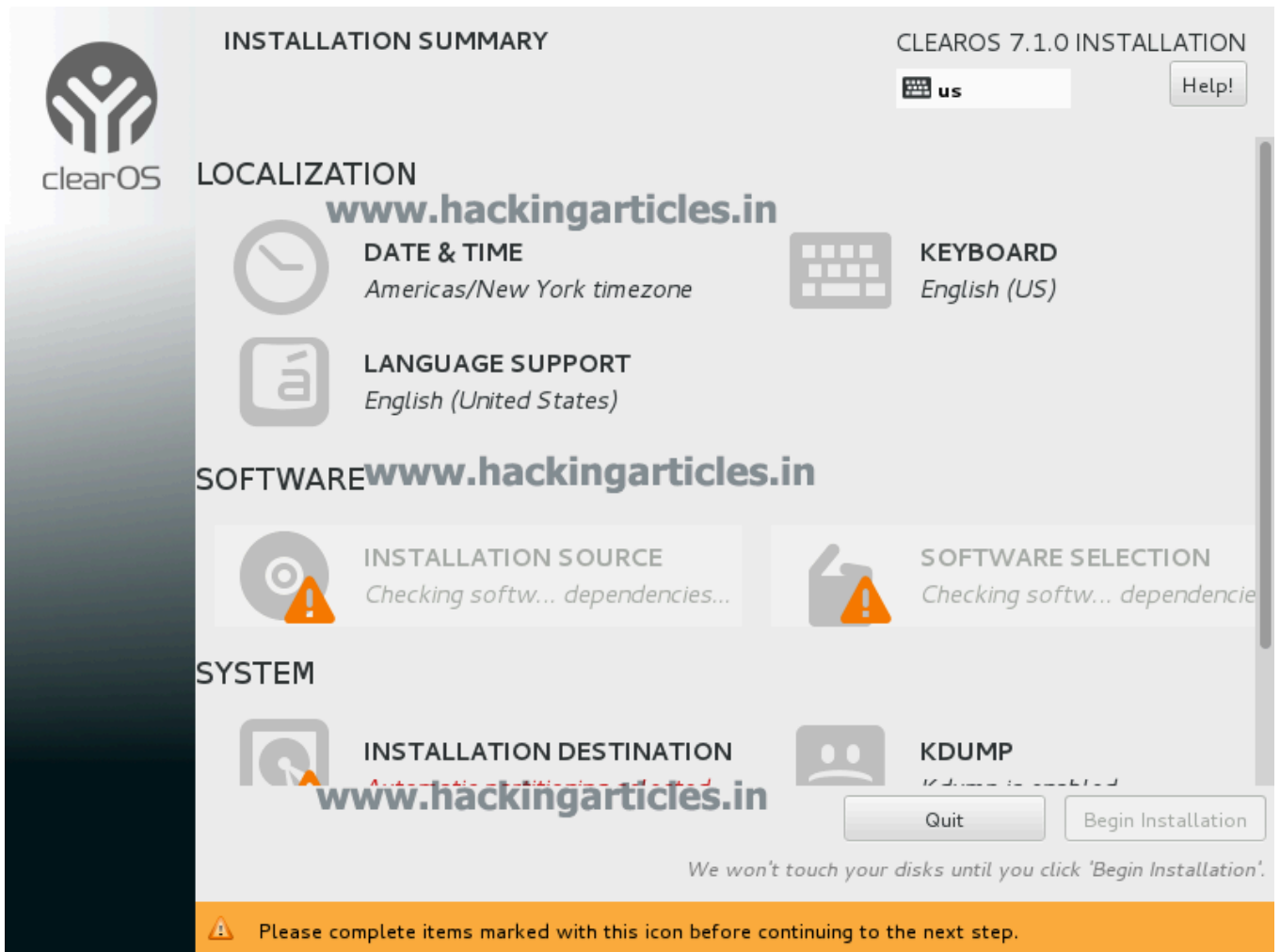
Select the language in which you are comfortable.

After that Installation summary interface will appear

us   Help!

LOCALIZATION

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DATE & TIME
Americas/New York timezone

KEYBOARD
English (US)

LANGUAGE SUPPORT
English (United States)

SOFTWARE www.hackingarticles.in

INSTALLATION SOURCE
Checking softw... dependencies...

SOFTWARE SELECTION
Checking softw... dependencie

SYSTEM

INSTALLATION DESTINATION
Automatic partitioning selected

KDUMP
Kdump is enabled

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Quit   Begin Installation

We won't touch your disks until you click 'Begin Installation'.

⚠ Please complete items marked with this icon before continuing to the next step.

Select Date and Time from localization section.

Then select installation source and click on done.

Done

🖮 us

Help!

Which installation source would you like to use?

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● Auto-detected installation media:

Device: sr0
Label: ClearOS-7.1.0-x86_64

Verify

○ On the network:

http:// ▾

This URL refers to a mirror list

Proxy setup...

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Additional repositories

Enabled	Name

＋ － ↻

Name:

http:// ▾

This URL refers to a mirror list.

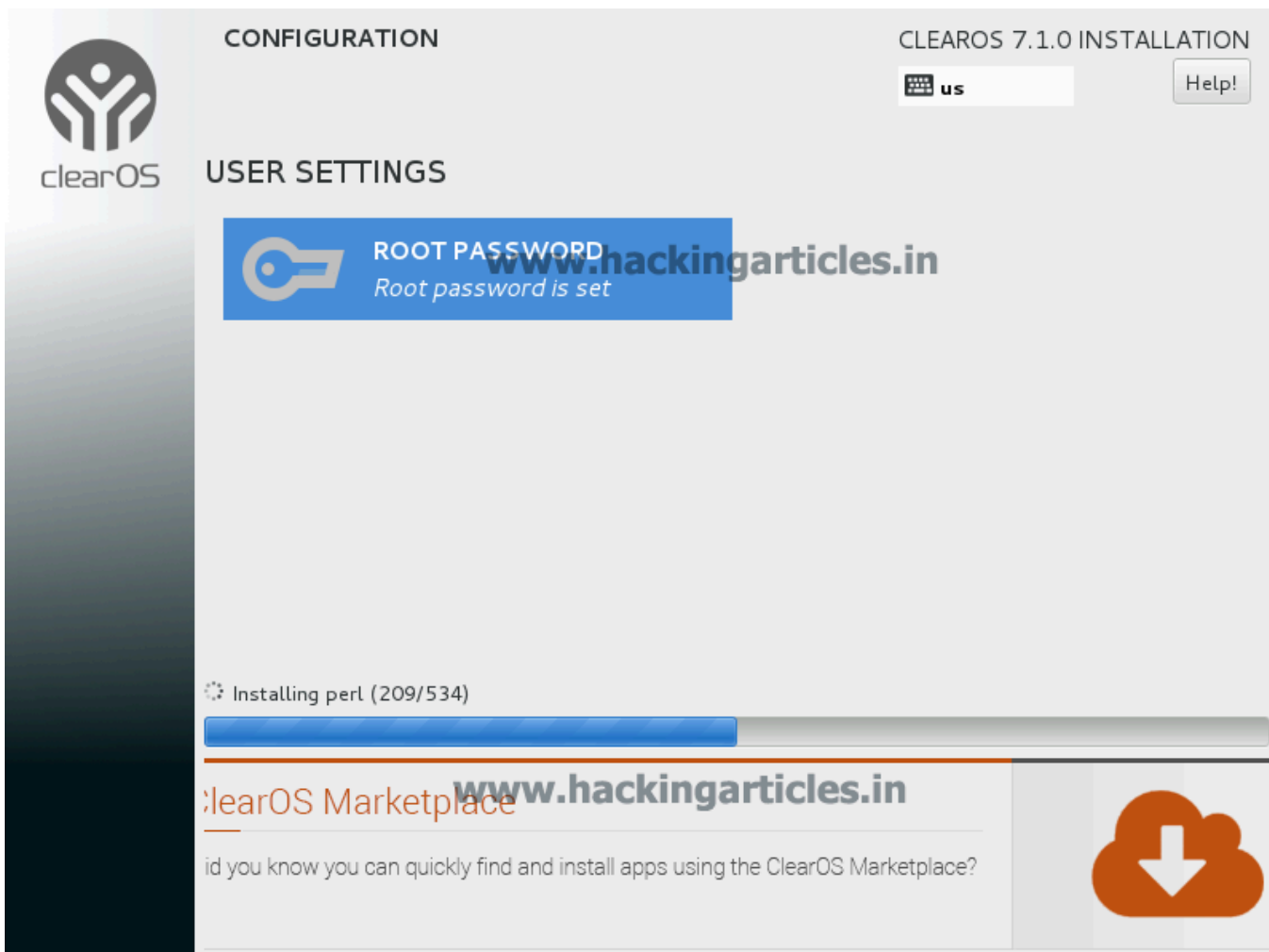Proxy URL:

User Name:

Password:

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⚠ You need to configure the network to use a network installation source.
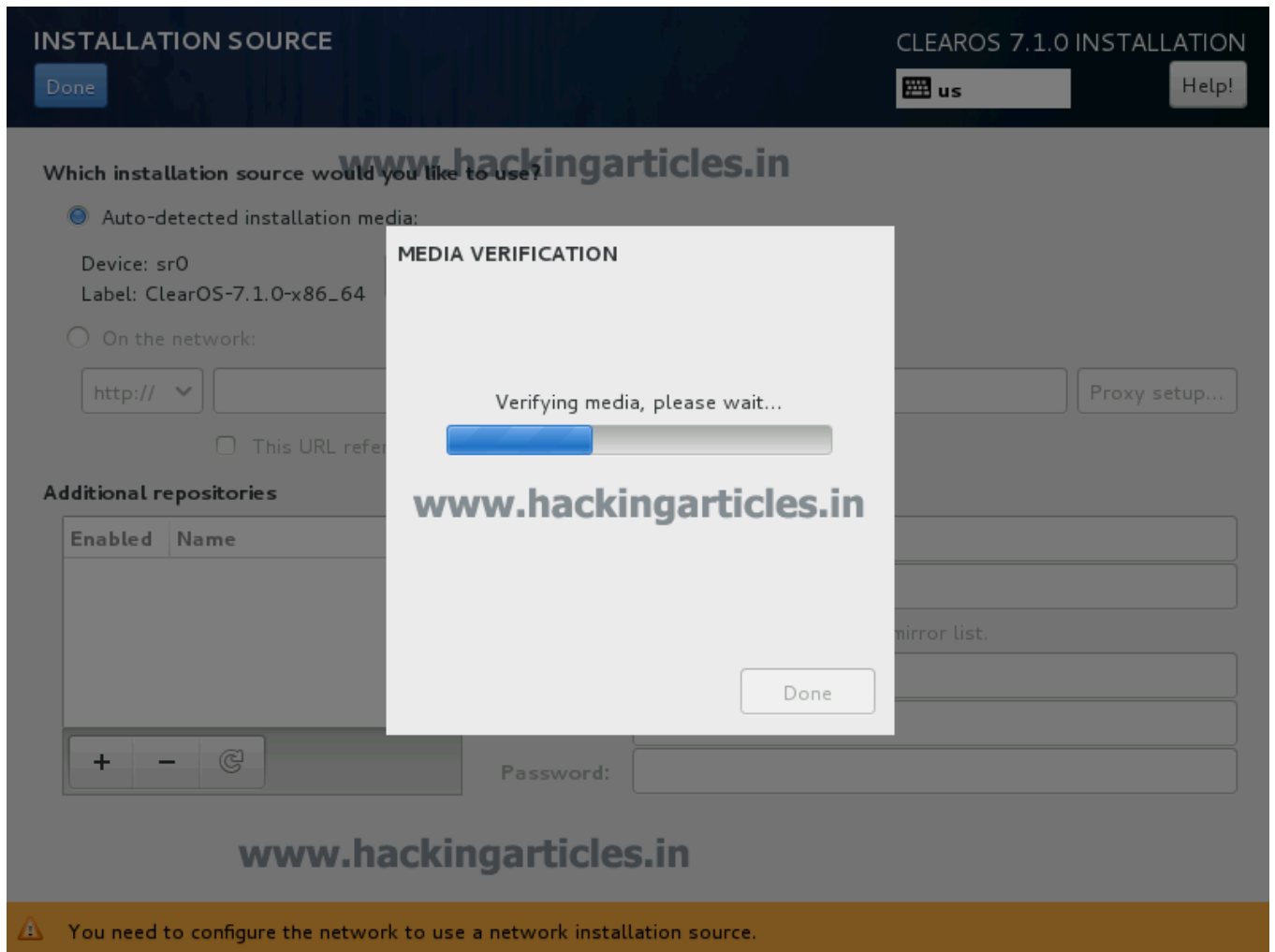
After that select Network and host name. Turn on and configure your network setting.
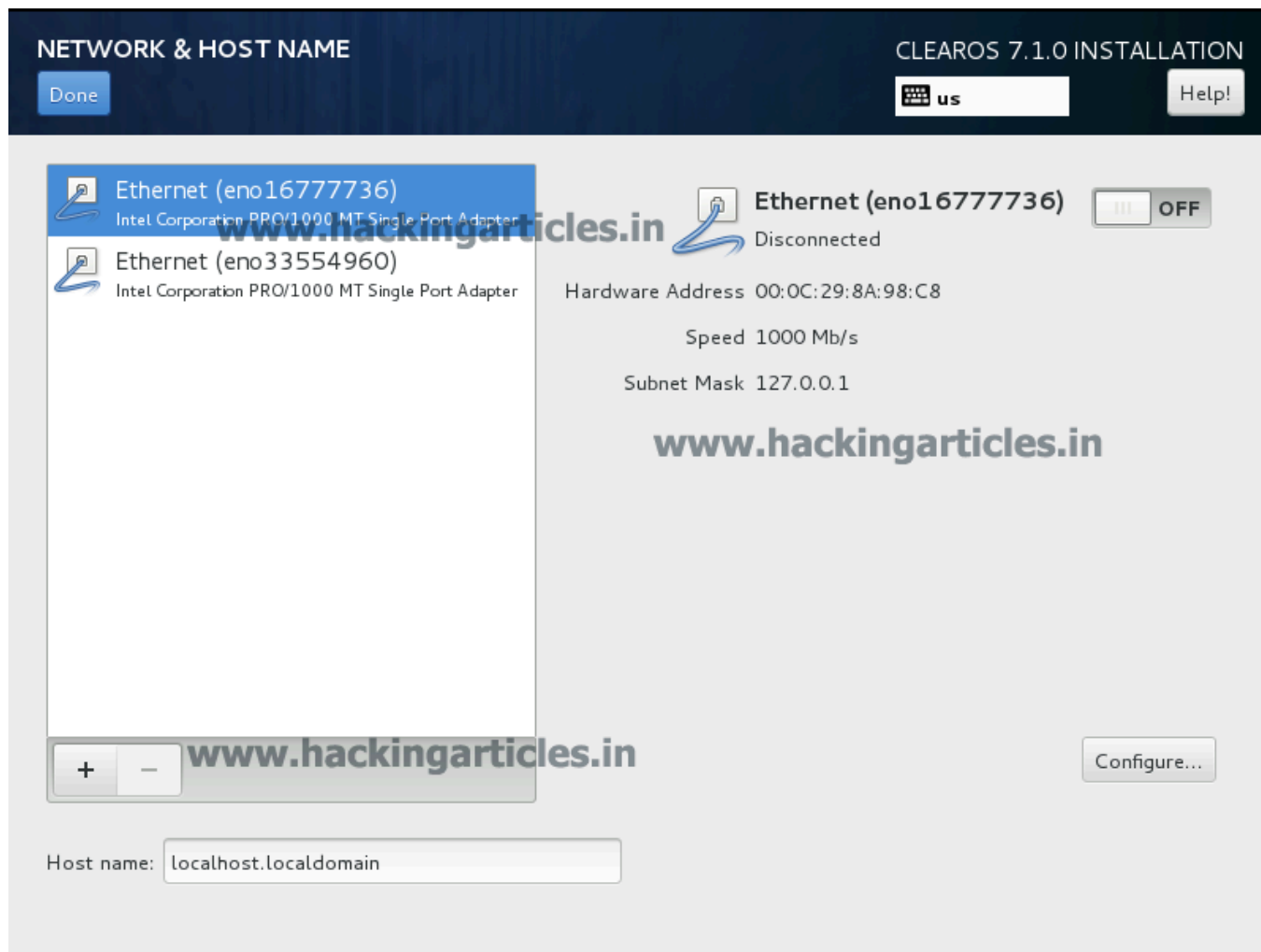
Now after setting everything, clicks on Begin Installation and then installation will start. You have to set root password also.
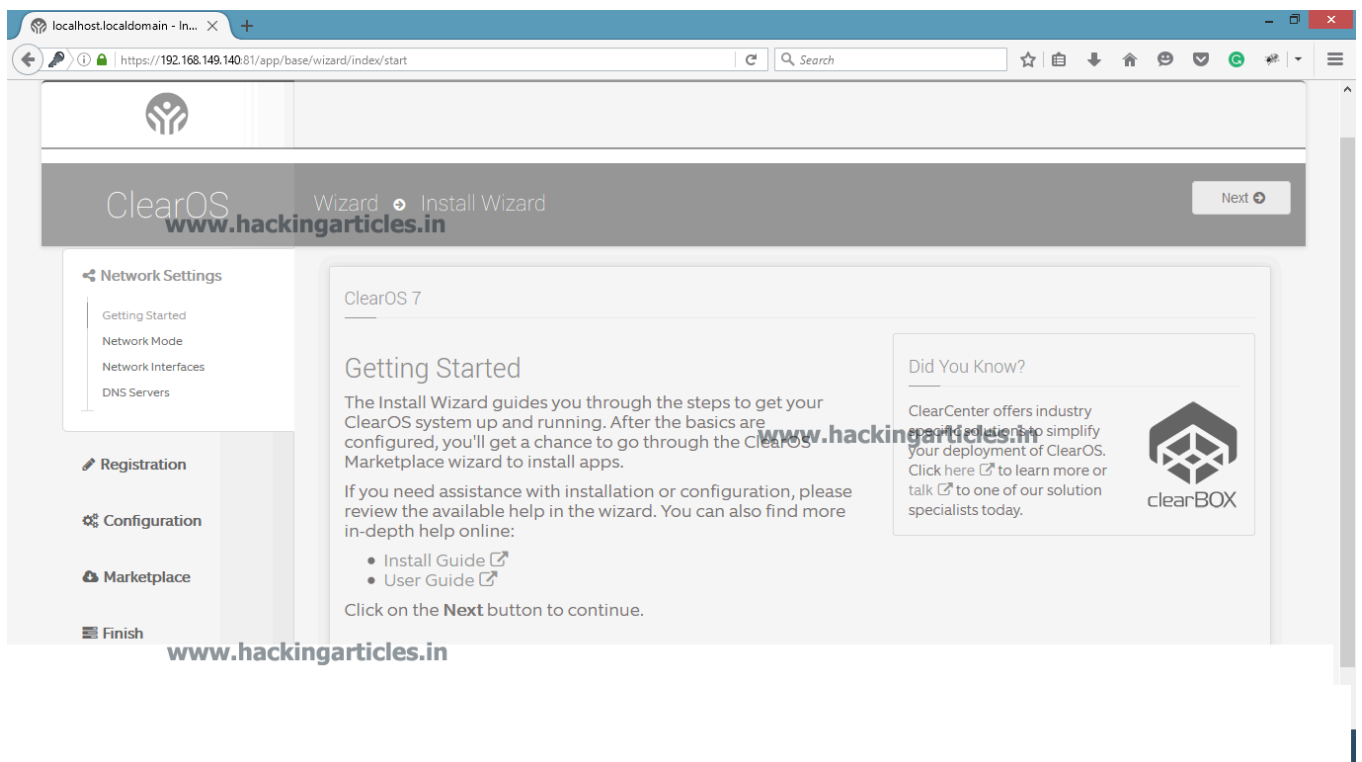
After finish installing system will reboot. And then clear OS will provide you with a link that contains IP address. Open that link in a browser.

When you will open that link in your browser it will ask you to login into your account, use username as **root** and password what you set at the time of installation and login.
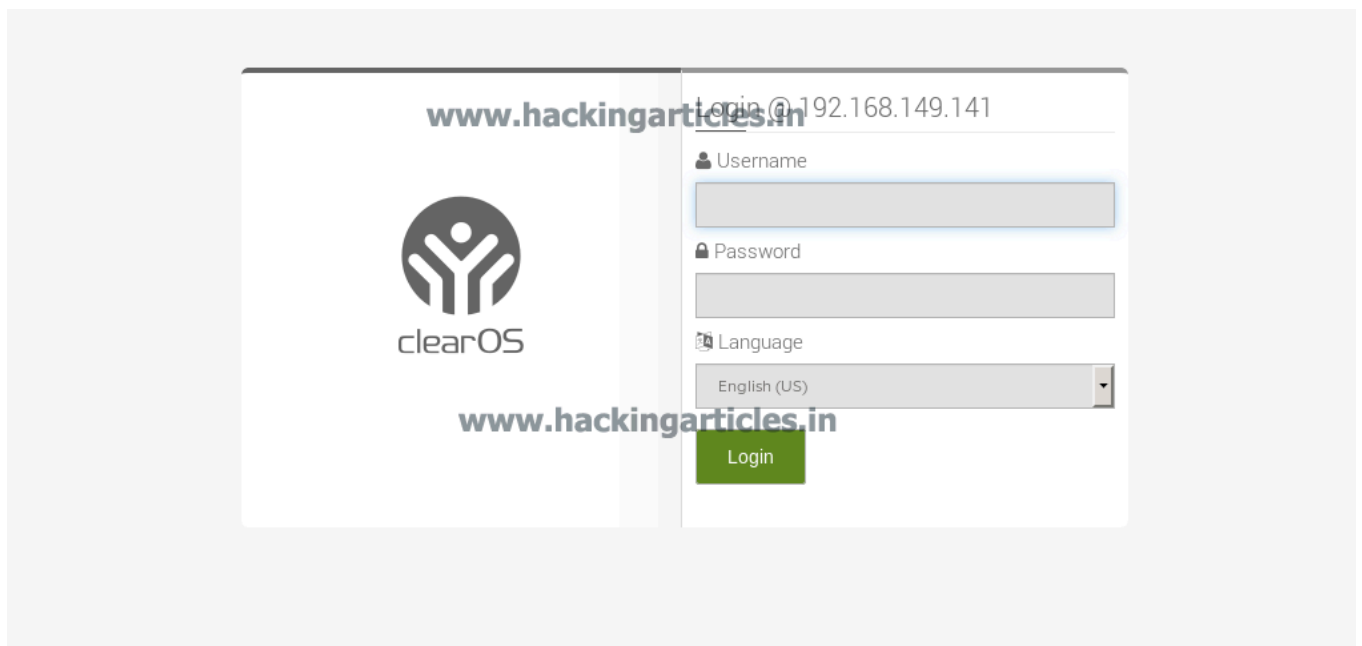
After login you have to configure clearOS

Configure network interfaces. Change type to static and set ip address what you set IP address and then click next.

ClearOS

Network Settings
- Getting Started
- Network Mode
- Network Interfaces
- DNS Servers

Registration

Configuration

Marketplace

Finish

Network Interfaces

Configuring your network interfaces can be a bit tricky. In order for the system to reach the Internet, you need at least one network interface configured with an external role.

Settings

Interface	Role	Type	IP Address	Link	Action
eno16777736	External	DHCP	192.168.149.140	Yes	Edit Delete
eno33554960	LAN	DHCP		No	Edit Delete

Help

External

An external role means the network interface can be used to gain access the Internet; it does not necessarily mean the interface is connected directly to the Internet.

LAN

In gateway mode, the LAN role is for connecting a local network.

ClearOS — Wizard › Select Edition

Network Settings

Registration
- Select Edition
- System Registration
- Software Updates

Configuration

Marketplace

Finish

Thank You for Choosing ClearOS

Community Edition

Free now, free forever. Intended for experienced Linux admins or those who like to "tinker".

Select

Home Edition

Help spread the word and share ClearOS Home Edition with your friends and family.

Select

Business Edition

Professionally supported IT platform for businesses who want to minimize the risk of downtime.

Select

ClearOS Home Edition is ideal for home environments where individuals want more features and integrated cloud services than those that are typically provided by ISP-issued gateways or home-targeted network devices.

Select your Edition and click next.

Community — Wizard › System Registration

Network Settings

Registration
- Select Edition
- System Registration
- Software Updates

Configuration

Marketplace

Finish

System Registration

System registration provides access to the Marketplace - a place where you will find the latest apps. Creating an account and registering your system is quick and easy.

System Registration

Account (ClearCenter)	Greyart
Password	••••••••••••
Type	New Install
System Name	localhost
Environment	Home Office

Help

Registering

If you are upgrading or re-installing a system, please make sure you select this type of registration. This option makes it easy to restore apps and services on your system.

Creating an Account

If you do not have a ClearCenter account, you can create one in just one step!

Fill system registration form and click next.

Now you have to set hostname for your NIC (Network Interface Card). Set hostname for internal and external NIC and click next.

After that from marketplace you have select and install apps which is required for monitoring, administration. After finishing your configuration a simple dashboard will appear, from here you can utilize clearOS as per your need.