

Setup Firewall Pentest Lab using Clear OS

 hackingarticles.in/setup-firewall-pentest-lab-using-clear-os

Raj

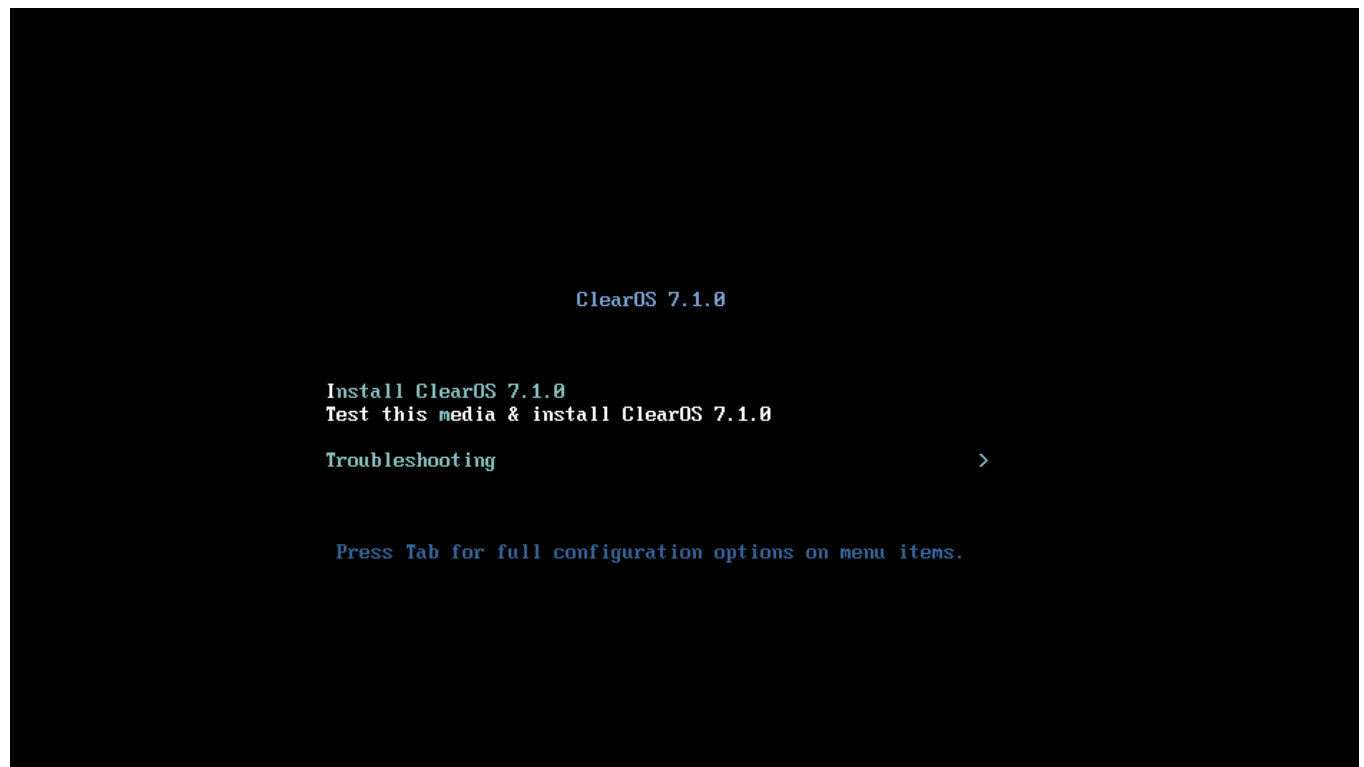
May 2, 2016

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**

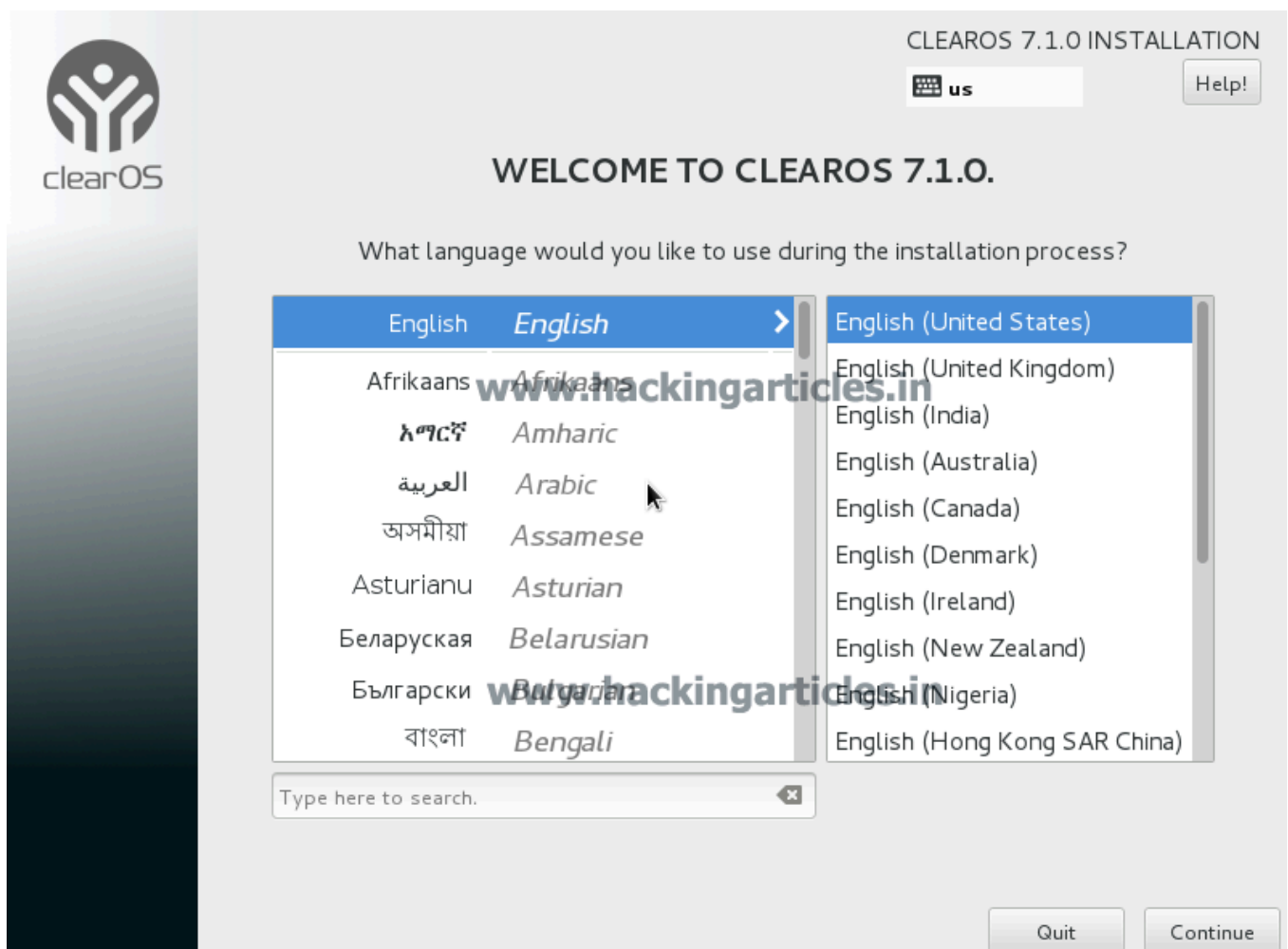
```

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

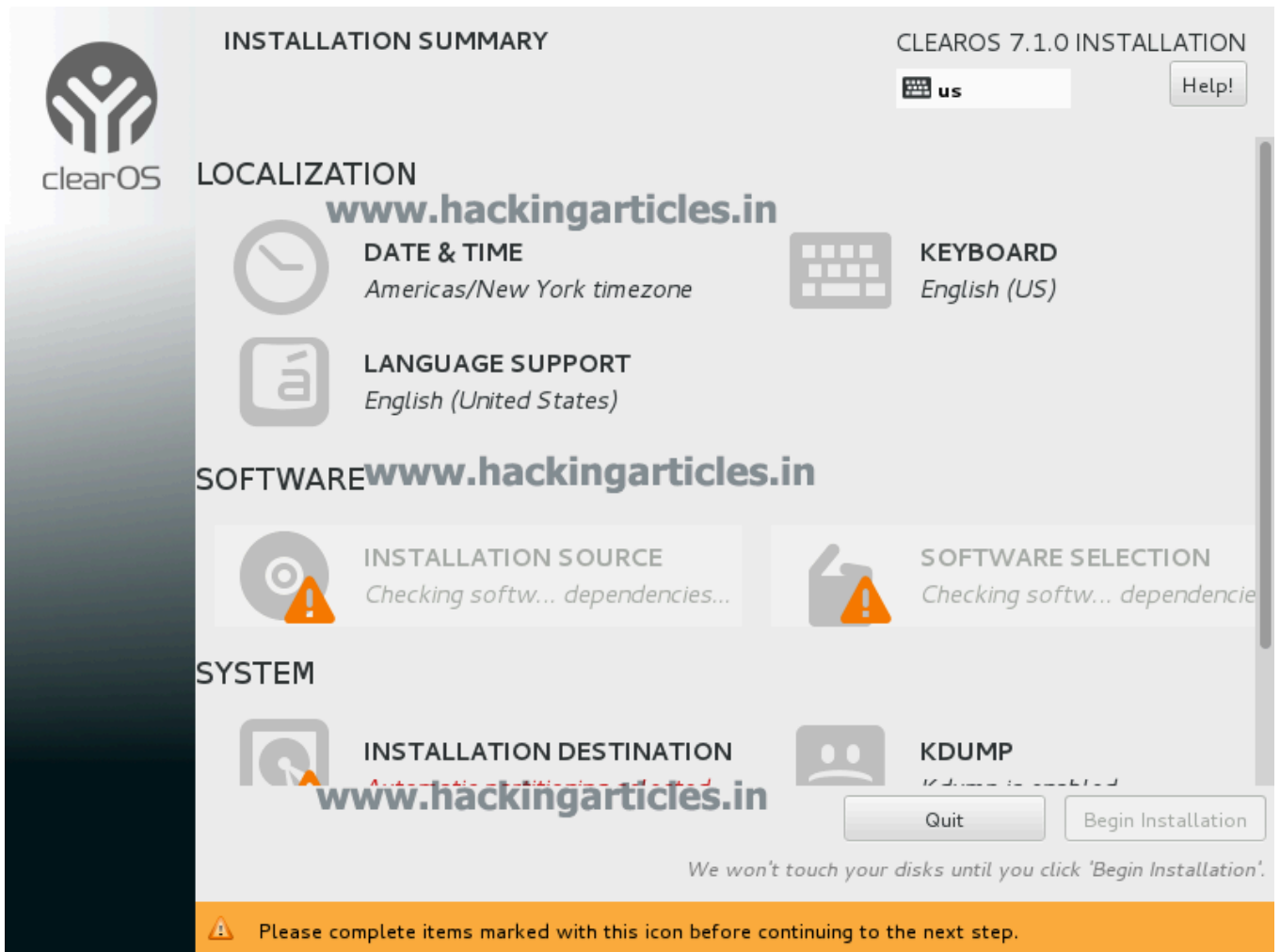
[ 23.249234] sd 2:0:0:0: [sd] Assuming drive cache: write through
[ OK ] Started Show Plymouth Boot Screen.
[ OK ] Reached target Paths.
[ OK ] Reached target Basic System.
dracut-initqueue[8461]: mount: /dev/sr0 is write-protected, mounting read-only
[ OK ] Started Show Plymouth Boot Screen.
[ OK ] Reached target Paths.
[ OK ] Reached target Basic System.
dracut-initqueue[8461]: mount: /dev/sr0 is write-protected, mounting read-only
Starting Media check on /dev/sr0...
/dev/sr0: 8ef3cf33223738534608649e5728abbe
Fragment sums: 16bcd1f8fcbdcac9c9db8e8a9c97651f965a63a9caa6ec6c85fea3bd6fdf
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




Select Date and Time from localization section.

DATE & TIME

Done



CLEAROS 7.1.0 INSTALLATION


 us

Help!

Region: Asia

City: Kolkata

Network Time  OFF 



www.hackingarticles.in

www.hackingarticles.in

^

20:34

▼


^


PM

▼

^

▼

 24-hour

 AM/PM


04

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27

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2016

 You need to set up networking first if you want to use NTP

Then select installation source and click on done.

Verify

Enabled	Name

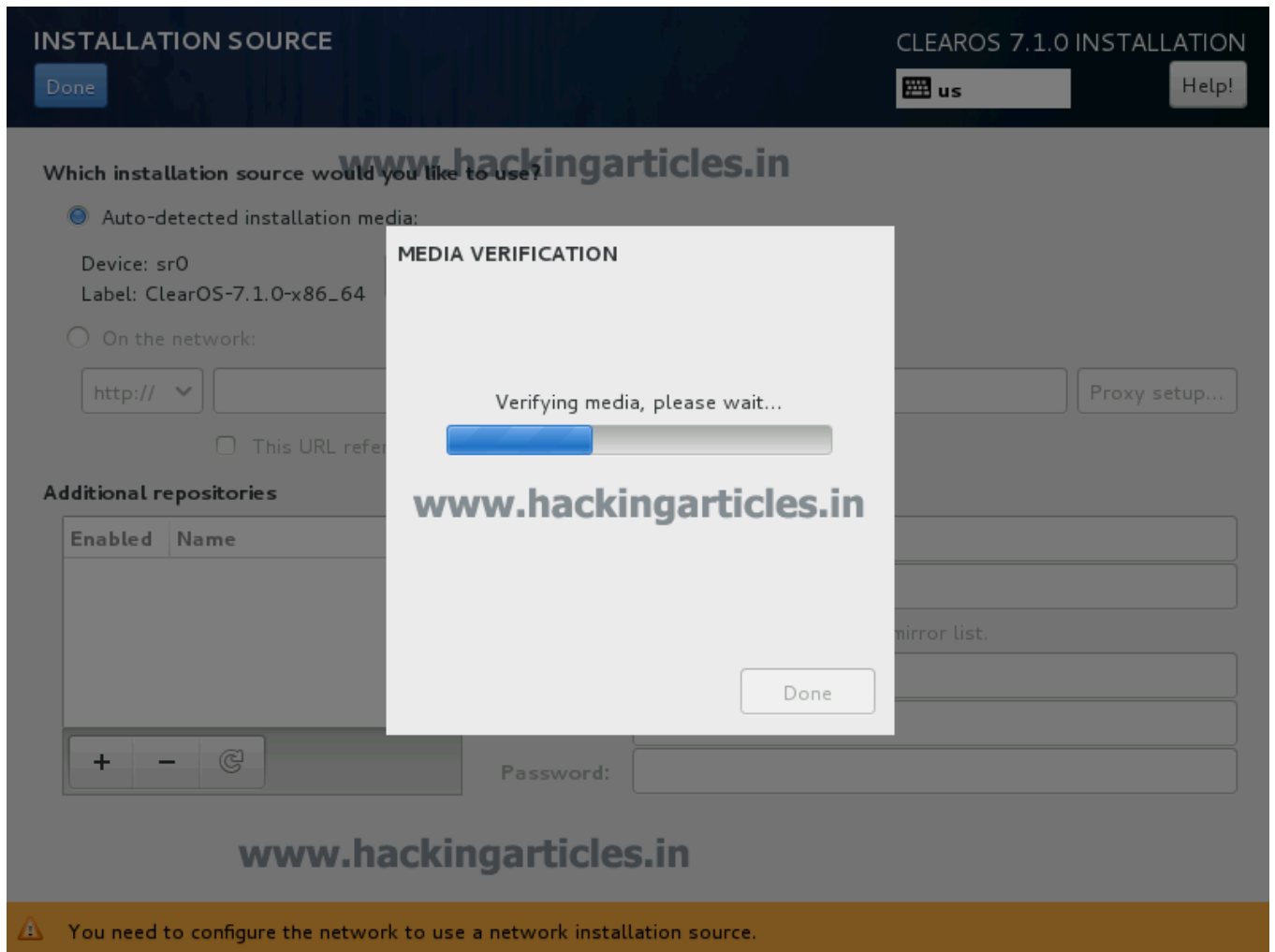
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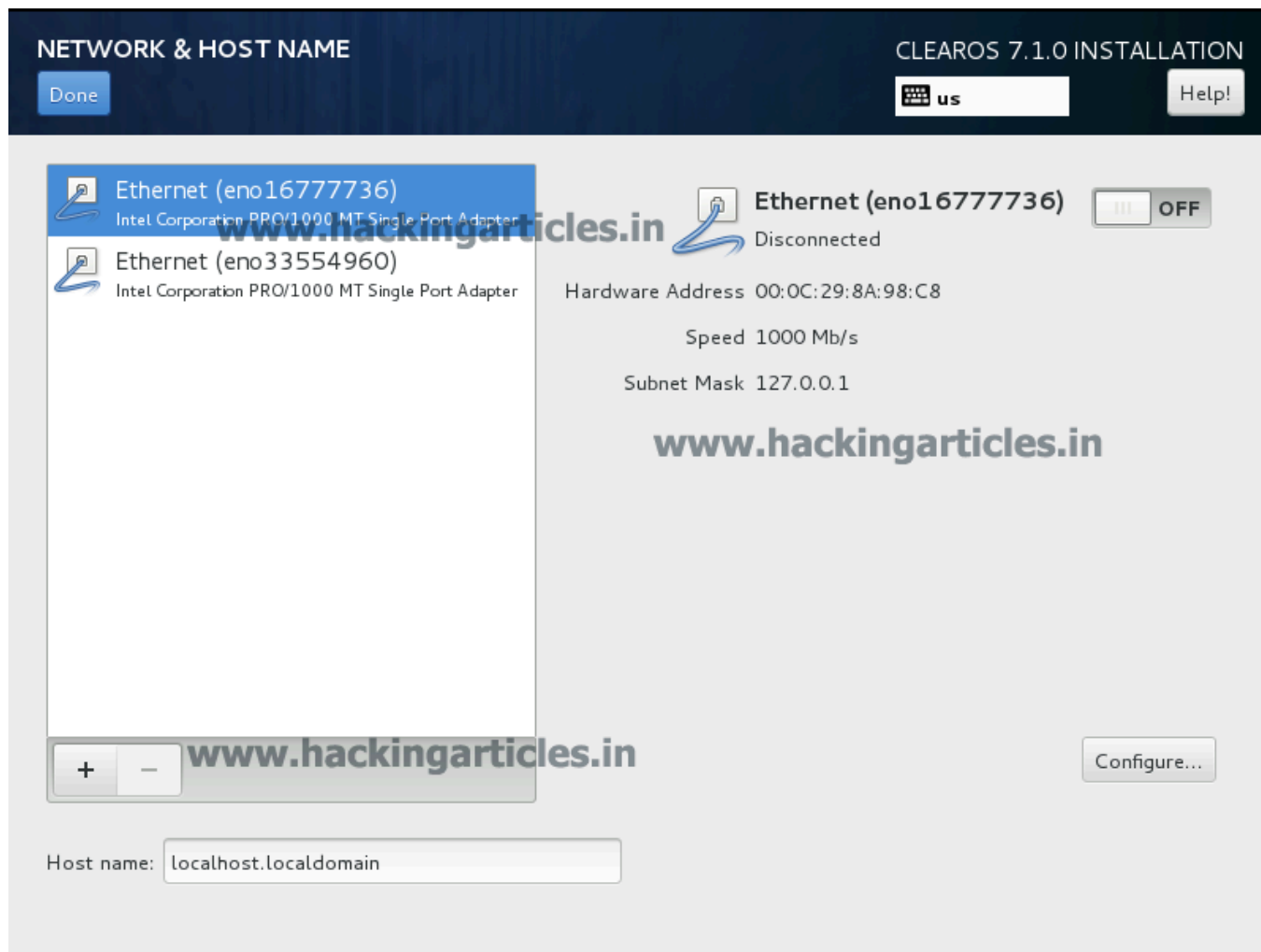
↺

Password:

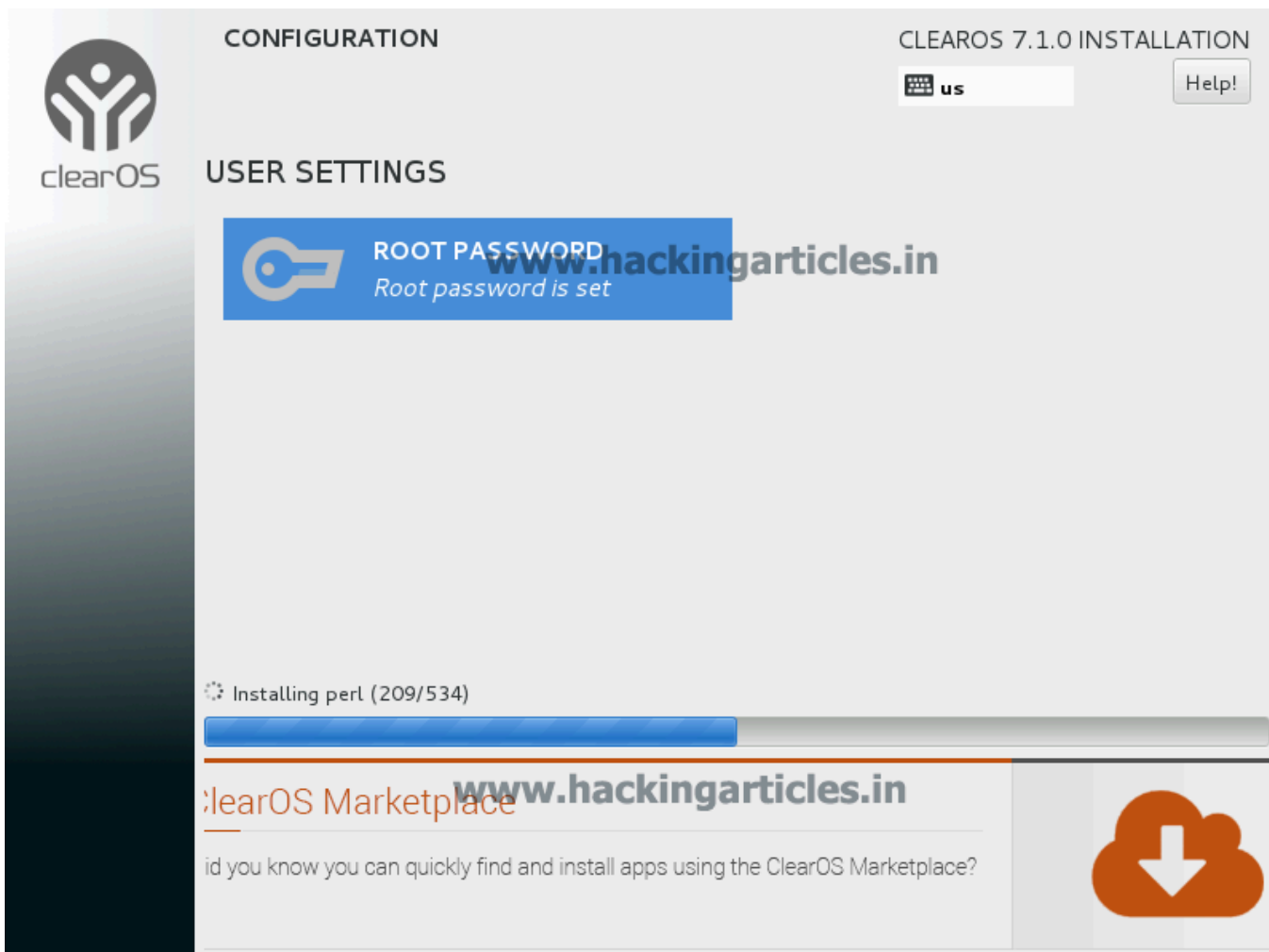
You need to configure the network to use a network installation source.



After that select Network and host name. Turn on and configure your network setting.



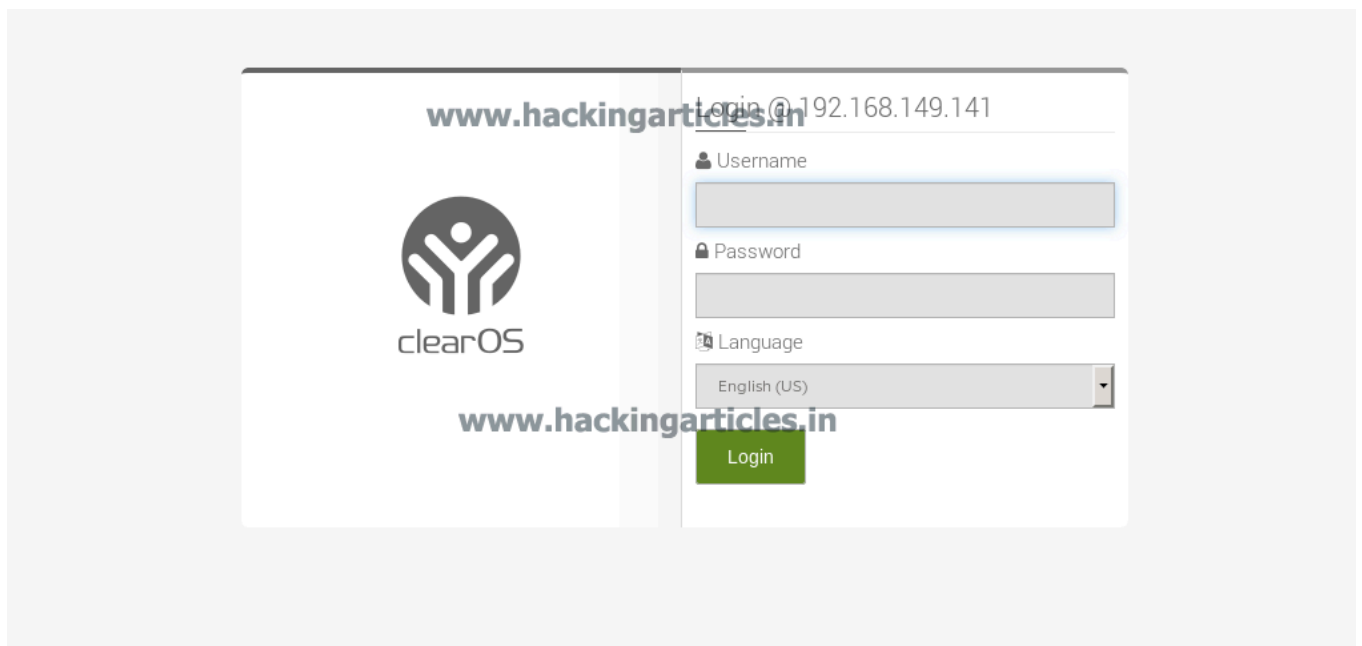
Now after setting everything, clicks on Begin Installation and then installation will start. You have to set root password also.



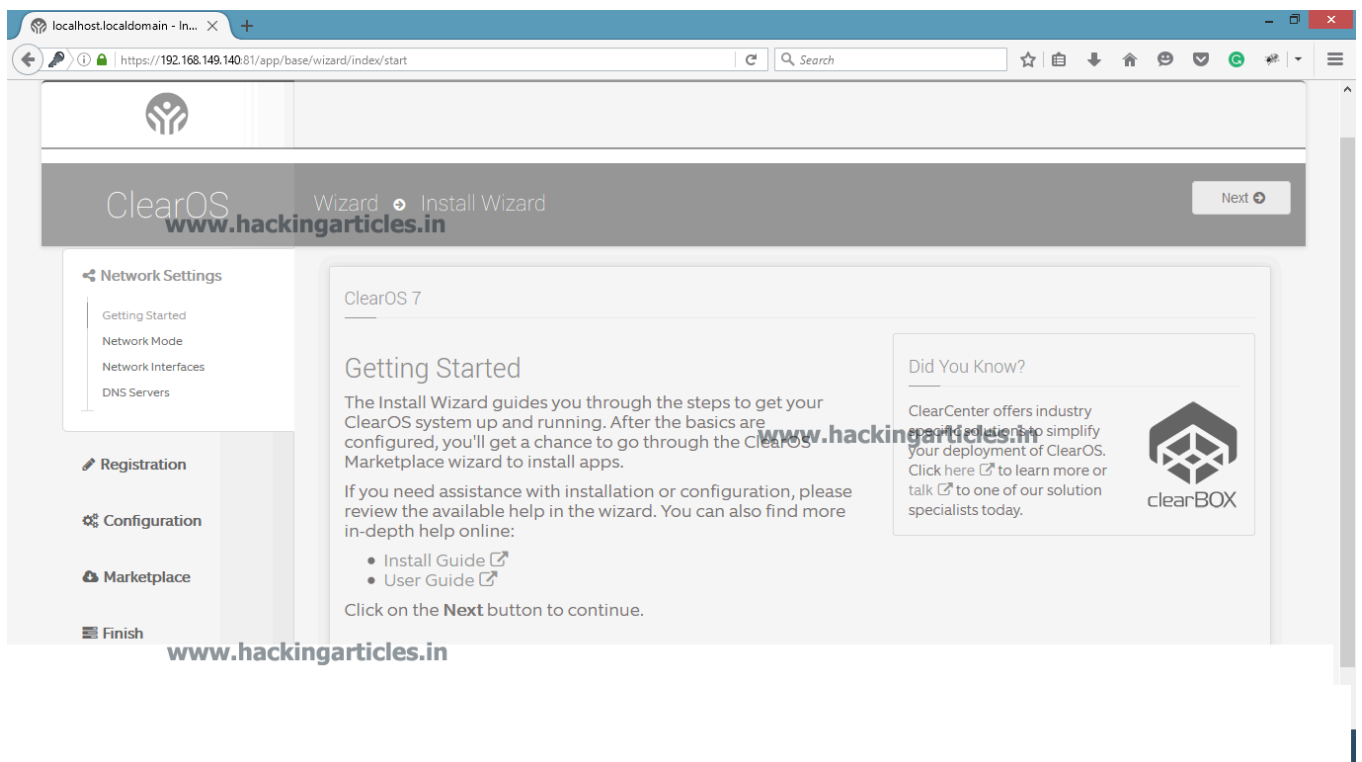
After finish installing system will reboot. And then clear OS will provide you with a link that contains IP address. Open that link in a browser.



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 [www.hackingarticles.in](https://192.168.149.140:81/app/network/iface) Previous Next

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 [www.hackingarticles.in](https://192.168.149.140:81/app/edition) Wizard Select Edition Previous Next

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 [www.hackingarticles.in](https://192.168.149.140:81/app/registration/register) Wizard System Registration Previous Next

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)

Password

Type

System Name

Environment

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.

The screenshot shows the 'Hostname' configuration page in the ClearOS web interface. The left sidebar contains navigation links: Network Settings, Registration, Configuration (with sub-links for Internet Domain, Hostname, and Date and Time), Marketplace, and Finish. The main content area has a 'Hostname' section with a help icon and text explaining the purpose of hostnames. Below this is a 'Settings' section with two input fields: 'Hostname' and 'Internet Hostname', both containing the text 'internal.www.google.com'. A 'Help' section on the right provides detailed information about hostnames. The browser's address bar shows the URL 'https://192.168.149.140:81/app/network/hostname'.

Community Wizard Settings Previous Next

Network Settings Registration Configuration Internet Domain Hostname Date and Time Marketplace Finish

Hostname

It is time to define the hostname for your system. Hey, wait a minute... why do you need two hostnames? Often, these two hostnames are the same, but please read the help section for more information.

Settings

Hostname

Internet Hostname

Help

Hostname

The hostname is the name of your system when accessed from the Internet or VPN. For example, a file server might have the hostname fileserver.lan. In the end, it is what you normally expect for a hostname.

Internet Hostname

The Internet hostname is the name of your system if accessed from the Internet. Continuing our file server example, there may be a public web folder available for downloading files. The Internet hostname could be set to fileserver.example.com.

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.

The screenshot shows the ClearOS dashboard. The top navigation bar includes links for DASHBOARD, MARKETPLACE, SUPPORT, and ROOT. The left sidebar lists various system components: Cloud, Gateway, Server, Network, System (with sub-links for Accounts, Account Manager, Backup, Base, ClearOS Marketplace, Dashboard, Support, and Settings), and Reports. The main content area features a 'Dashboard' overview section, an 'Events - Last 24 Hours' summary table, and a 'Recent Software Activity' table. The browser's address bar shows the URL 'https://192.168.149.140:81/app/dashboard'.

DASHBOARD MARKETPLACE SUPPORT ROOT

Dashboard

The dashboard provides a high-level overview of your system. It is customizable - installed apps may provide Dashboard Widgets that you can add to your layout.

Events - Last 24 Hours

Event Type	Count
Informational Events	0
Warning Events	0
Critical Events	0

Recent Software Activity

Show 10 Rows Search

Package	Action	Date/Time
dracut-network-033-360.el7_2	Updated	Apr 27, 00:25:27
dracut-config-rescue-033-360.el7_2	Updated	Apr 27, 00:25:27
app-dmz-2.1.6-1.v7	Installed	Apr 27, 00:25:26