

Setup Firewall Pentest Lab using Clear OS

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

Raj

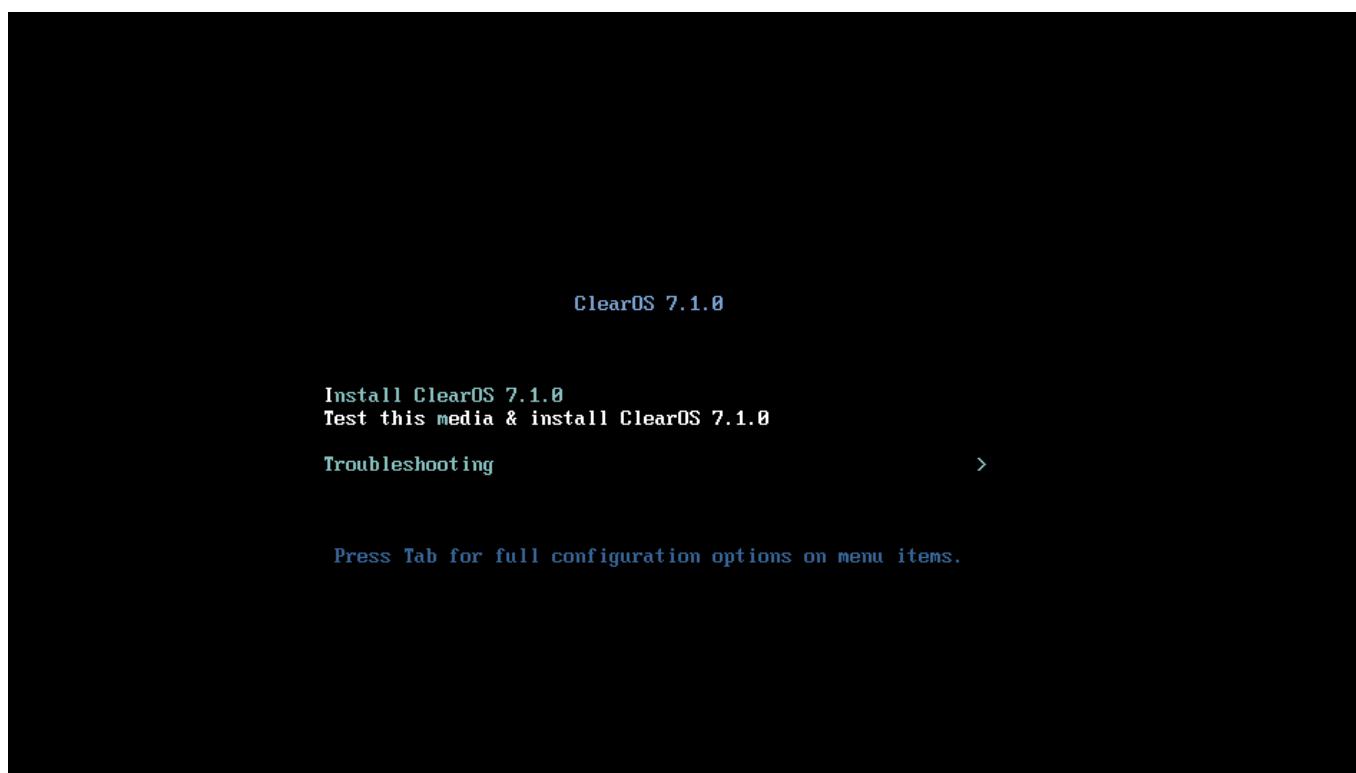
May 2, 2016

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

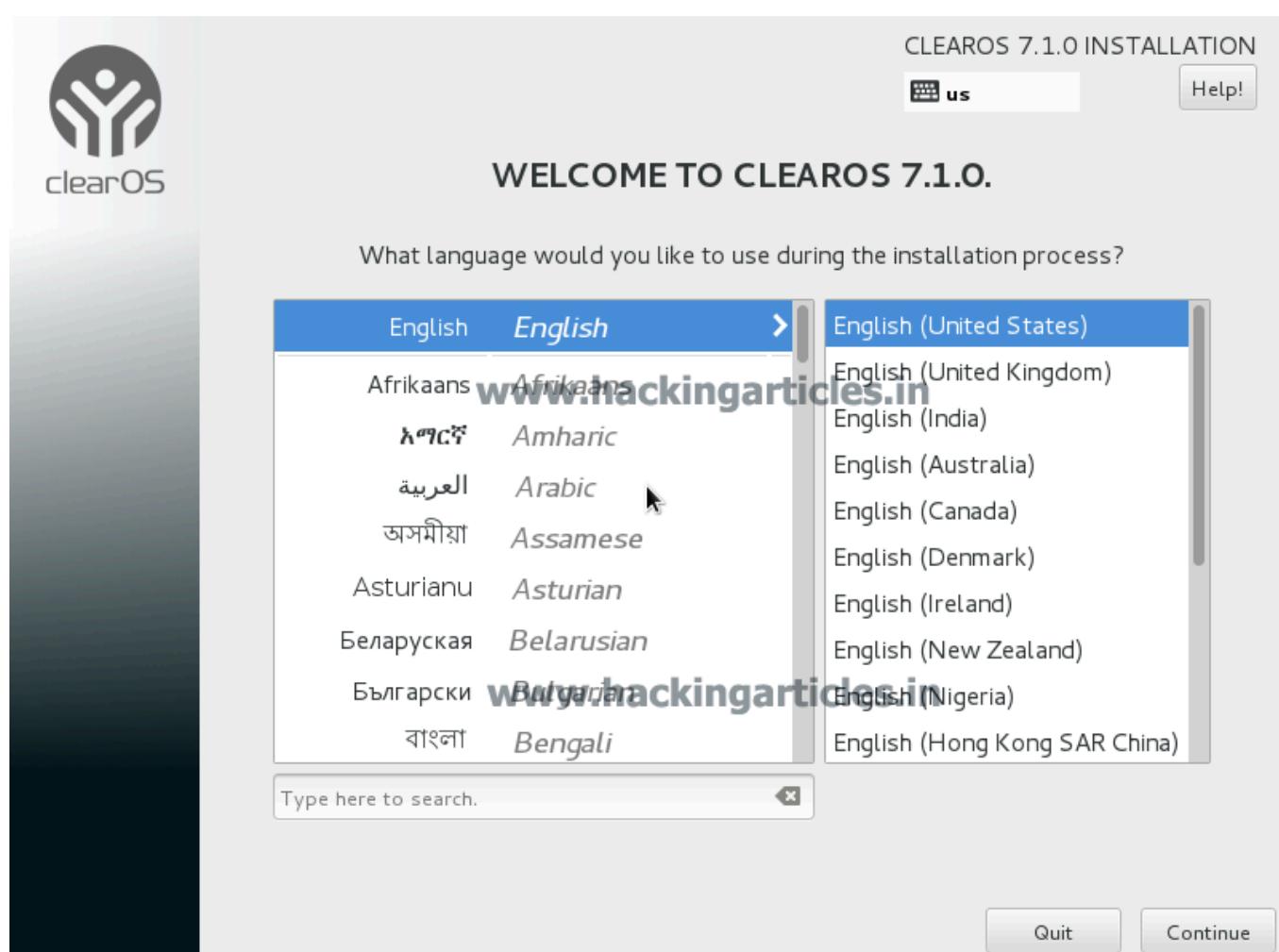


After selecting press **Enter**

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

```
[ 23.249234] sd 2:0:0:0: [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: 16bcd18fcbdcac9c9db8e8a9c97651f965a63a9caa6ec6c85fea3bd6fdf
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



INSTALLATION SUMMARY

CLEAROS 7.1.0 INSTALLATION

us

Help!

clearOS

LOCALIZATION

www.hackingarticles.in



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... dependencies...

SYSTEM



INSTALLATION DESTINATION

www.hackingarticles.in



KDUMP

Disabled

Quit

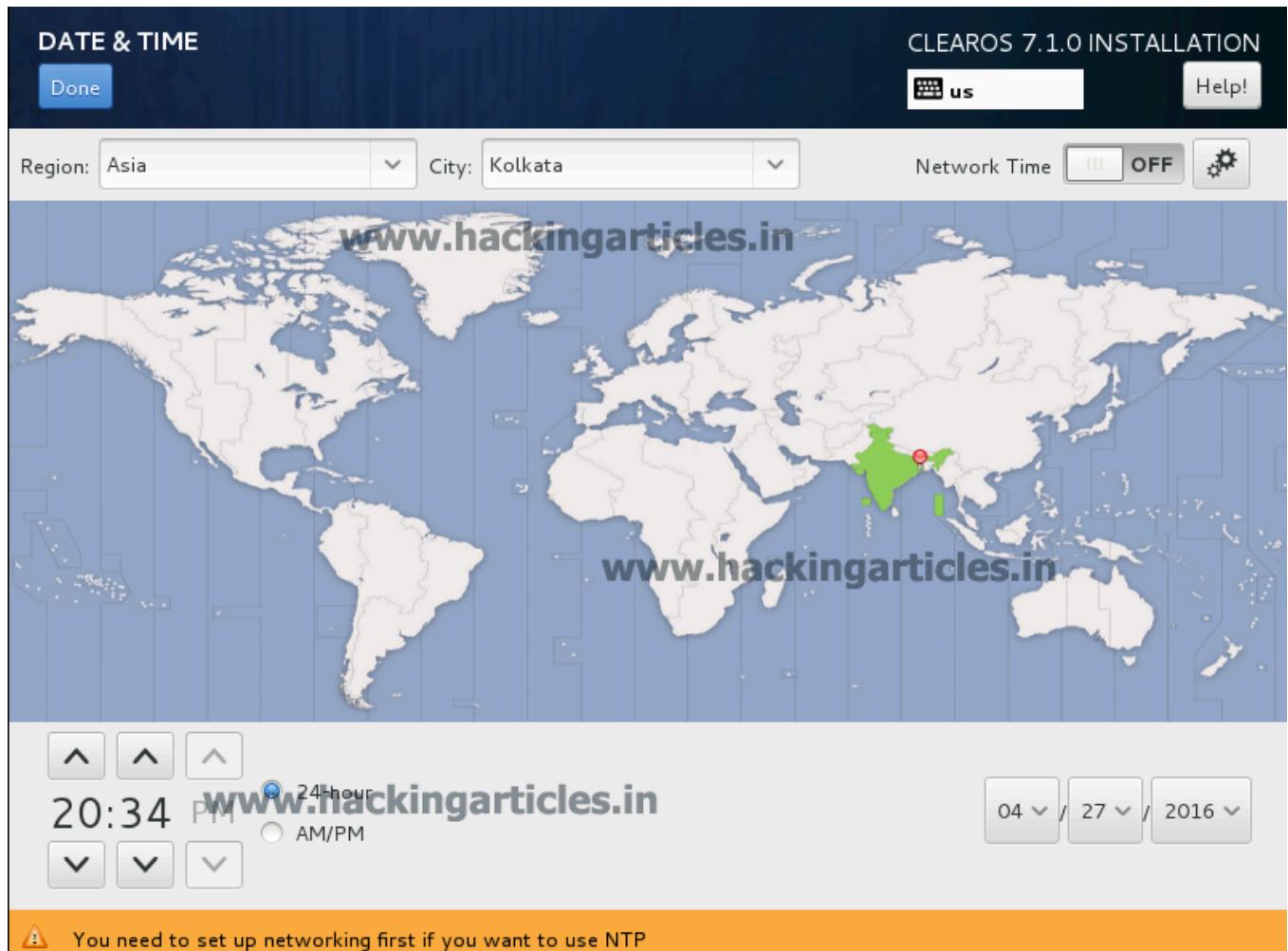
Begin Installation

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.

INSTALLATION SOURCE

CLEAROS 7.1.0 INSTALLATION

Done

us

Help!

Which installation source would you like to use?

Auto-detected installation media:

Device: sr0

Label: ClearOS-7.1.0-x86_64

Verify

On the network:

http://



▼

[]

Proxy setup...

This URL refers to a mirror list.

www.hackingarticles.in

Additional repositories

Enabled	Name

Name:

http://

[]

This URL refers to a mirror list.

Proxy URL:

User Name:

Password:

[]

[]



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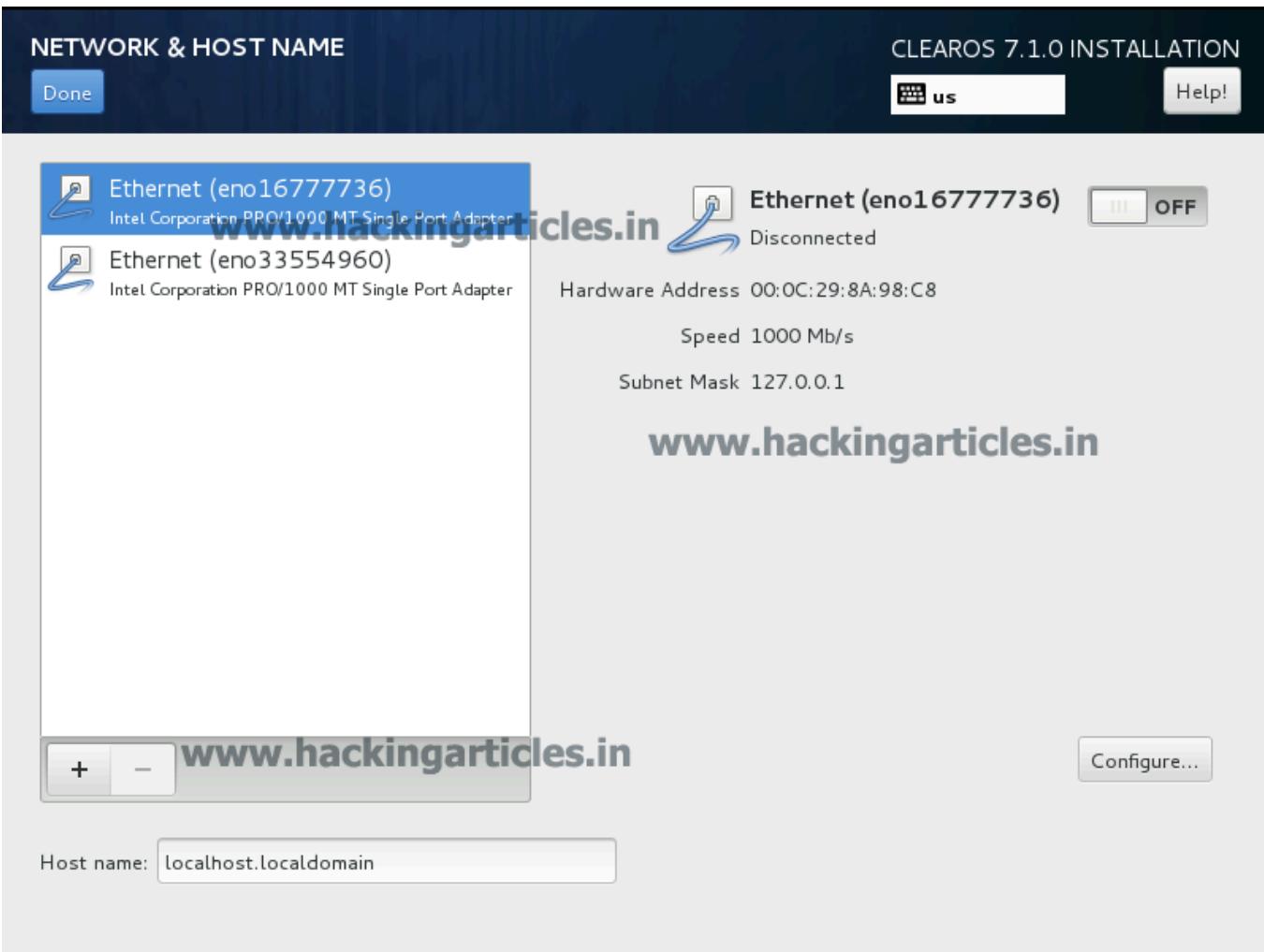
You need to configure the network to use a network installation source.

INSTALLATION SOURCE**Done****CLEAROS 7.1.0 INSTALLATION****us****Help!**

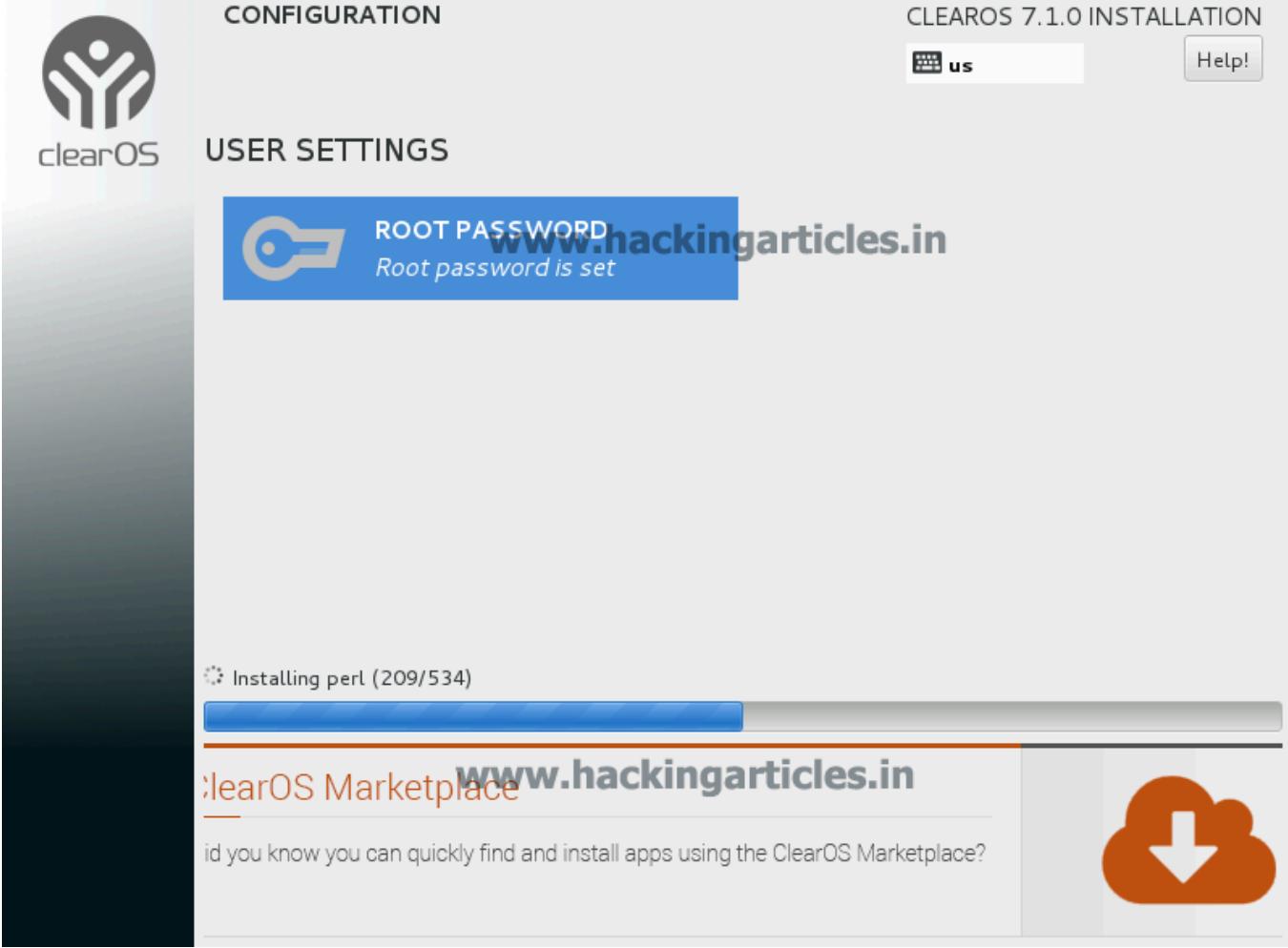
Which installation source would you like to use?

 Auto-detected installation media:Device: sr0
Label: ClearOS-7.1.0-x86_64 On the network: http://
 This URL refers to a mirror list.**Additional repositories**

Enabled	Name



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.

ClearOS 7.1.0

Welcome! This console is used to configure the network settings on this system. Once you have your network up and running, you can install, configure and manage apps using a standard web browser.

[www.hackingarticles.in](https://192.168.149.140:81)

Step 1. Configure Your Network Settings

The IP address of this system: **192.168.149.140**
Please follow the link to change your settings: Network Console

Step 2. Connect With Your Web Browser

The web-based interface can be accessed on port 81 using the secure web protocol - HTTPS. Start your web browser and type the following web address:

https://192.168.149.140:81
[www.hackingarticles.in](https://192.168.149.140:81)

Help

Web Browser Security Warning
When you connect with your web browser the first time, you will see a security warning displayed. Please don't fret!

What Next?
[www.hackingarticles.in](https://192.168.149.140:81)

Command Line
For those of you who prefer the command line, you can jump right in by hitting the exit button.

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

localhost.localdomain - In... +

https://192.168.149.140:81/app/base/wizard/index/start

Search

ClearOS Wizard + Install Wizard

www.hackingarticles.in

Next ➞

Network Settings

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

Registration

Configuration

Marketplace

Finish

ClearOS 7

Getting Started

The Install Wizard guides you through the steps to get your ClearOS system up and running. After the basics are configured, you'll get a chance to go through the ClearOS Marketplace wizard to install apps.

If you need assistance with installation or configuration, please review the available help in the wizard. You can also find more in-depth help online:

- Install Guide ➞
- User Guide ➞

Click on the **Next** button to continue.

Did You Know?

ClearCenter offers industry solutions to simplify your deployment of ClearOS. Click here ➞ to learn more or talk ➞ to one of our solution specialists today.

www.hackingarticles.in

clearBOX

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

ClearOS www.hackingarticles.in

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.

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

Wizard Select Edition

Network Settings

- 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)

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 'Community' interface of the ClearOS registration wizard. The left sidebar includes 'Network Settings', 'Registration', 'Configuration' (selected), 'Internet Domain', 'Hostname' (selected), and 'Date and Time'. The main content area displays the 'Hostname' step with the URL www.hackingarticles.in. It contains a note about defining hostnames and two input fields: 'Hostname' set to 'internal.www.google.com' and 'Internet Hostname' set to 'internet.www.google.com'. To the right, a 'Help' section defines 'Hostname' as the system name on the network and 'Internet Hostname' as the name visible from the Internet. Both sections include links to 'www.hackingarticles.in'.

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 'Dashboard' page of the ClearOS interface. The left sidebar lists 'Cloud', 'Gateway', 'Server', 'Network', 'System' (selected), 'Accounts', 'Backup', 'Base', 'ClearOS Marketplace', 'Dashboard' (selected), and 'Support'. The main content area features a 'Dashboard' summary with a clock icon and a note about customizable widgets. Below it is a 'Events - Last 24 Hours' section showing 0 informational, 0 warning, and 0 critical events. Further down is a 'Recent Software Activity' table with three entries:

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