



Linux

Redhat Linux
(RHCSA & RHCE)
Certification Training



Advantages of Linux

Let us now discuss some **advantages of Linux** in brief:



**Why LINUX
Very Popular
Operating
System**

Open Source

Free of Cost

High Security

Run Fast in Old Hardw

Network Friendliness

Choice

Customizable

Full Use of HDD

Lightweight

Stable Performance

Multitasking

Easy & Fast Installation

What is Open Source



Any software or program which the original source code is made **freely available to use as a user and develop as a developer.**



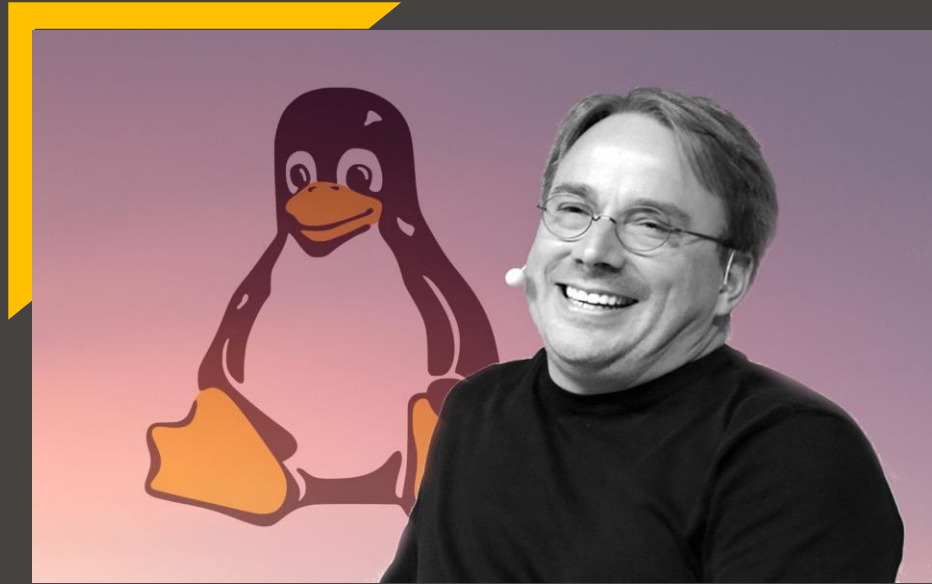
Open source software is usually developed as **a public collaboration and made freely available.**



E.g. Firefox, VLC Player, LibreOffice, Python, Linux OS etc.

Linux Founder - **Linus Torvalds**

- ▶ **Linus Benedict Torvalds** is a Finnish software engineer best known for having initiated the development of the **Linux kernel** and **git revision control system**.



History **LINUX**



Linux came form a Unix family, Linux is free and open-source software operating systems, which was develop **by Linus Torvalds in September 1991.**



In 1991, When **Linus Torvalds** was student of the University of Helsinki, Finland, USA.



He was develop first code of **Linux 0.01** and post it on Minix news group **17 Sep 1991**, his code become so popular **people encourage him to develop new code and he was lead to develop new code** and release first “official” version of Linux, **version 0.02 on October 5, 1991.**

History **LINUX**



Today many year pass and Linux become one of the most popular operating system.

Today's 90% fastest Supercomputer out of 500 run on Linux variant including top 10.

UNIX




Unix is a **family of multitasking, multiuser computer operating systems** that was develop in 1969 at the Bell Labs research center **by Ken Thompson, Dennis Ritchie, and others.**

Why Become RHCSA/RHCE Certified?



Operating System

- ① An operating system (OS) is system software that manages computer hardware, software resources, and provides common services for computer programs. like Window, Linux, Mac.
- ① An operating system is a program that acts as an interface between the user and the computer hardware and controls the execution of all kinds of programs.



Before Starting
Server Operating
System first
understanding

Type Of OS?

Client & Server OS

What is Client & Server OS?

▶ Client OS:

It is an operating system that operates within desktop.

It is used to obtain services from a server. It run on the client devices like laptop, computer and is very simple operating system

▶ Server OS:

It is an operating system that is designed to be used on server.

It is used to provide services to multiple client. It can serve multiple client at a time and is very advanced operating system.



Server Vs Client OS

Server OS

- + It run on the server.
- + Provide services to multiple client.
- + It is complex OS.
- + Provide More Security.
- + Examples: RHEL, Windows 2k16.

Client OS

- It run on the client.
- Obtain services from server.
- It is simple OS.
- Provide less security.
- Example: Windows 7/8/10,Android

What is Red Hat



Red Hat is **an American multinational software company** like Microsoft.



Founded in 1993, Red Hat has its **corporate headquarters in Raleigh**, North Carolina, USA, with other satellite offices worldwide.

Red Hat Founder –

▶ Red Hat Enterprise Linux is the product of a U.S. company called Red Hat, Inc., based in Raleigh, North Carolina near the campus of NC State University.

The company was founded in the mid 1990s when Marc Ewing and Bob Young merged two companies.



Red Hat CEO –

▶ **Paul Cormier** is president and CEO of Red Hat since April 6, 2020.



Red Hat Enterprises Linux 9 (RHEL9)



Red Hat Enterprise Linux is a Linux distribution developed by **Red Hat and targeted toward the commercial market.**

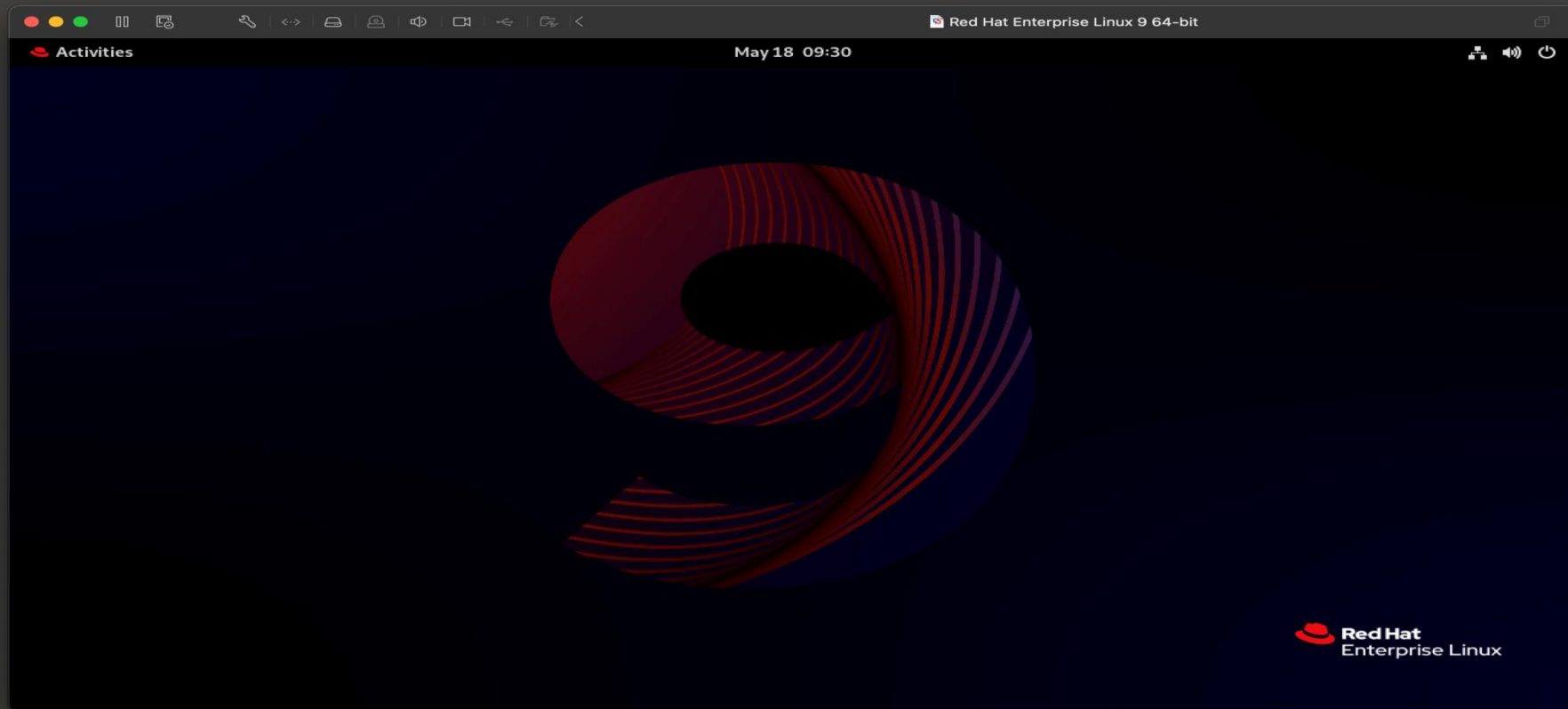


RHEL is one of the **trusted server** by the Enterprises/Corporate IT world.



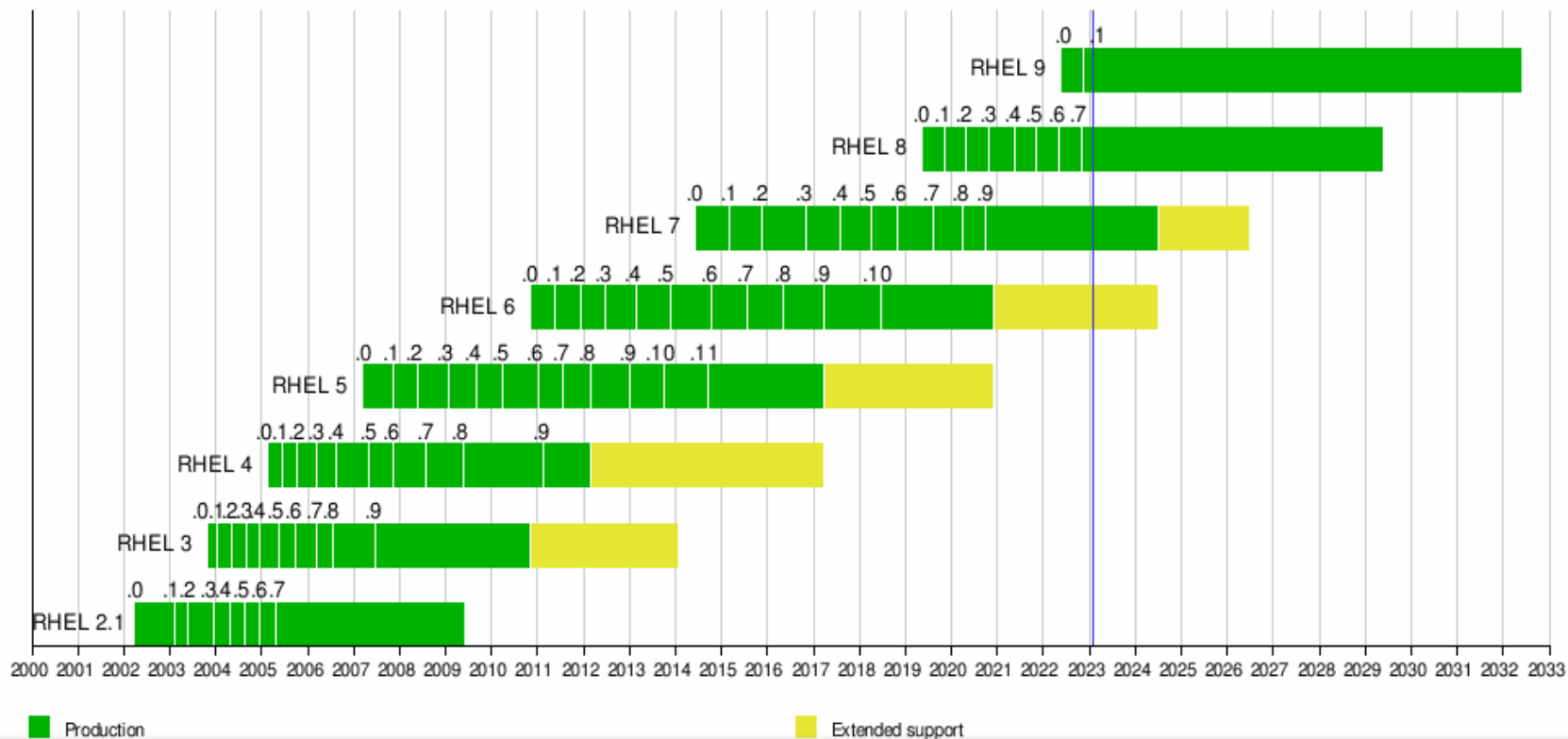
Red Hat Enterprise Linux is released in server versions like **RHEL2, RHEL3, RHEL4, RHEL5, RHEL6, RHEL7, RHEL8, RHEL9**

RHEL 9 Desktop Preview



RHEL Version History and Timeline

Red Hat Enterprise Linux release timeline





Thank you