

Virtual machine:

What is VMware or VirtualBox?

VMware and VirtualBox are virtualization software used to create and run virtual machines on a computer.

A virtual machine is a computer inside your computer that works like a real PC but runs inside software.

Simple Definition:

VMware/VirtualBox is software that allows you to install and run another operating system inside your current computer.

Example:

You can run Windows inside Windows or Linux inside Windows using these tools.

Why is it used?

1. Run Multiple Operating Systems

You can use more than one operating system on the same computer such as Windows and Linux together.

2. Learning and Practice

Students and programmers use it to learn Linux, practice commands, test software safely, and learn networking or cybersecurity.

3. Software Testing

Developers test applications on different operating systems without buying new computers.

4. Safe Environment (Sandbox)

You can test unknown software or viruses without damaging your real computer.

5. Server and Networking Practice

Used for networking labs, server installation, database testing, and cloud learning.

Short Definition for Exams:

VMware and VirtualBox are virtualization software used to run multiple operating systems on a single computer by creating virtual machines.