

Virtualization :

- It is the technique of splitting/adding a physical resource into many logical resources as we want. Eg : CPU, Memory etc

OR

- Virtualisation is a technology that transform hardware into software

Case Study : Fully Physical VS Physical and Virtual Data Centre Setup

Fully Physical :

1. 2000 Sq. Feet Data Centre
2. 100 Physical Server (4GB, 2 Core CPU, 60GB HDD) : 30 for Infrastructure and 70 for APP
3. Cooling System for 100 Servers
4. 100 Physical disk for server
5. Cabling for 100 Servers & Power Whips
6. PC Staff
7. Electricity & Power Backup

Physical and Virtualization :

1. 10 Physical Servers (64GB Ram, 2TB Harddrive, 32 Core CPU)
2. We install Hypervisor on Server and with the help of Hypervisor we create 10 Virtual Machines on the Physical Server
3. So with only 10 Physical Servers we can build data centre in 250 sq. feet thereby cutting costs associated with Rent, Cooling Systems, Cabling, Staff, Electricity etc