**Virtualization**

In computing, virtualization refers to the act of creating a virtual (rather than actual) version of something, this includes virtual computer hardware, virtual storage devices and virtual network resources.

**Levels of Virtualization**

**Virtualization at Instruction Set Architecture(ISA) level**

Every machine has an instruction set . This instruction set is an interface between software and hardware.

Using this instructions software can communicate with hardware.

**Virtualization at Operating System(O.S.) level**

In virtualization at HAL level each virtual machine is built from scratch i.e. by installing O.S., application suites, networking systems, etc.

In cloud sometimes we need to initialize 100 Virtual machines at a single time, If we use virtualization at Hardware abstraction layer(HAL) level this can take too much time.

So to overcome this in Virtualization at Operating system level we share operating system between Virtual machines along with the hardware.