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Q) What is Operating System ?

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- => OS is a mediator between user and computer
- => OS is mandatory to use any computer
- => Using OS we can run our applications in the computer
- => We have below 3 types Operating System

1) Windows OS

2) Linux OS

3) MAC OS

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Windows OS

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- => Developed by Microsoft
- => Single User OS
- => It is GUI based
- => It is used for personal purpose (games, movies, work)
- => Less Security
- => Windows OS License is commercial

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Linux OS

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- => It is free & Open source OS
- => Linux is Very Secured
- => Linux is Multi User Operating System
- => Linux is Highly recommend OS to run Servers and Databases...
- => Linux is recommended for Business Purpose
- => Linux is CLI based.

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Linux History

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-> Initially we had UNIX OS

-> Linus Torvalds identified some issues in UNIX OS and informed to Unix Team.

-> Unix Team did not accept Linus Torvalds suggestions.

-> Linus Torvalds developed his own Operating System by using Minux OS.

(Li) nus + Mi (nux) ==> Linux OS

-> Linus Torvalds released Linux OS into market with free of cost along with source code.

-> So many companies taken Linux OS source code and modified according to their requirement and released into market with different names those are called as Linux Distributions.

- 1) Ubuntu Linux
- 2) Red Hat Linux
- 3) Debian Linux
- 4) Fedora Linux
- 5) SUSE Linux
- 6) Kali Linux
- 7) Cent OS Linux
- 8) Amazon Linux

Note: We have 200+ Linux Distributions.

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Linux Environment Setup
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- 1) Create AWS account (Free Tier)
- 2) Create EC2 instance with Amazon Linux
- 3) Download MobaXterm Software
- 4) Connect to EC2 Linux VM using MobaXterm

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Linux Commands
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whoami : Displays logged in user information

date: Prints today's date

cal : Print current month calendar

pwd : Display present working directory

mkdir : Create new directory

rmmdir : Remove empty directory

cd : change directory

ls : list files

touch : To create empty file

cat : Create file with content & display file content

cat > filename : Create file with data (we will loose old data)

cat >> filename : append data at the bottom

cat filename : display file content

rm : It is used to remove file

mv : To rename file / directory

cp : To copy data from one file to another file

wc : word count (lines, words, characters)