Operating System Unix

Description

The main objective of this course is to learn Linux and shell scripting. These lectures teach you all the fundamentals of UNIX/Linux for a beginner and guides you to be advanced user of UNIX/Linux Operating systems. The course is meant for those who are eager to learn UNIX/Linux technology and wants to make a career in IT industry be it a UNIX administrator, Data Base Administrator, Web Manager or DevOps professional.

Learning Objectives and Outcomes

- History of Unix/LINUX
- Learn about UNIX/Linux Operating System and its working in detail
- Learn to install Ubuntu Linux from ISO and prebuilt images with VirtualBox
- Complete Linux Architecture and filesystem
- CLI mode with BASH, I/O redirections etc.
- BASH Scripting
- About Init System, Processes, Users and Groups, etc.
- About File Systems, Files, Ownership, Permissions, etc.
- Learn about VI text editor in detail, nano and pico
- In Depth explanation of commands like Top, vmstat, iostat, etc.

Grading:

Final examination (Open Book with internet access): 100%

Policies

- I expect everyone to contribute during the courses in writing scripting and proposing solutions
- Attendance in every class is expected and class participation and discussion are strongly encouraged.