



## **LINUX with UBUNTU**

### **Duration- 4 Weeks**

#### **Automating Programs**

- Run Levels
- /etc/rc.d Files
- Customization of Run Levels
- cron and anacron
- at and batch

#### **Login Options**

- Console Logon
- Controlling Console Login
- Virtual Consoles
- Serial Login
- Remote Login
- ssh Login

#### **Building a Custom Linux Kernel**

- Kernel Versions
- Kernel Source Files
- Kernel Patch Files
- Kernel Configuration
- Kernel Building
- Testing a New Kernel

#### **The GNU/Linux Filesystem**

- Partition Types
- Filesystem Types
- Mounting
- Automount
- File Types
- File Security



## Key Filesystem Locations

- Boot Files
- User Files
- Administrator Files
- Configuration Files
- Log Files

## The /proc Pseudo Filesystem

- Process Info
- Kernel Config Info
- Hardware Info
- Changing /proc Info
- Sysctl

## BASH\_BorneAgainShell

- Key /bin Commands
- Key /sbin Commands
- History
- man and info
- vi
- Using Shell Scripts

## User Management

- Users and Groups
- Home Directories
- Password Files
- PAM
- Quotas
- NIS Intro

## Software Management

- tar Files
- Patch Files
- RPM

## Hardware Management

- Types of Devices
- /dev Namespace
- Modules



## **Network Management**

- Types of Network Devices
- Monitoring Network Devices
- Controlling Network Services
- xinted
- iptables

## **NetworkServices\_PartI**

- DHCP
- DNS
- SSH

## **NetworkServices\_PartII**

- FTP
- NFS
- Samba

## **NetworkServices\_PartIII**

- Sendmail
- Apache
- Squid Proxy Server

## **The X Window System**

- X Servers and X Clients
- XFree86
- X Fonts
- GTK and KDE
- Exam Practice
- Installation Challenges
- Configuration Challenges
- Troubleshooting Challenges