

# LESSON – 2

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INTRODUCTION TO SYSTEM ADMINISTRATION &  
INSTALLATION OF UBUNTU LINUX OPERATING SYSTEM

# LEARNING OUTCOMES

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- On completion of this session, you will be able to:
  - ✓ Identify the role of system administrator
  - ✓ Apply strategies of system administration for more uptime and undisturbed running of services
  - ✓ Switch users of the system
  - ✓ Install Ubuntu operating system
  - ✓ Identify methods of installation
  - ✓ Apply logically divide the disk and perform disk partitioning

# INTRODUCTION TO SYSTEM ADMINISTRATION

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- What is Systems Administration?

- System administration refers to the management of one or more hardware.
- Managing systems for other people use
- System administration is a task performed by IT experts for an organization.
- Mainly focuses on **stability**, **reliability** and **security**. Other focuses include:
  - ▶ Change management & documentation
  - ▶ Service to the user community
  - ▶ Ethical consideration
- A System Administrator is a person responsible for the **upkeep, configuration, and reliable** operations of computer systems; especially multi-users computers, such as **Servers** [Wikipedia]

# SYSTEM ADMINISTRATOR ROLES

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- Roles of system administrator:
  - Accounting provisioning
  - Adding and removing hardware
  - Performing backup
  - Monitoring the system
  - Troubleshooting
  - Maintaining local documentation
  - Vigilantly monitoring security

# STRATEGIES OF SYSTEM ADMINISTRATION

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## Few Strategies of Systems Administration

- Plan it before you do it
  - Make it reversible (***Always make copy of original file***)
- Make changes incrementally
- Test, Test & Test before you release it on the world
- Know how things really work

## BECOMING SUPERUSER

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```
$ su  
Password: (Not echoed)  
#
```

```
$ su -  
Password: (Not echoed)  
#
```



# OS INSTALLATION

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- Virtual Machine
- New Computer

## OS Installation

### ○ Installation Procedure

- ✓ System Requirement
- ✓ Installation method: FTP, HTTP, NFS, SMB
- ✓ Disk Partitioning: Mount point and Size
  - § /boot = 500MB
  - § / = 150GB
  - § SWAP = 12GB (**Double of RAM Size**)
  - § /home = 100GB
  - § /var = 200GB (**Rest of the Space**)

Installation: *Lab Work*

# SUMMARY

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*In this lesson, you have learnt that:*

- The system administration mainly focuses on **stability**, **reliability** and **security**.
  - A System Administrator is a person responsible for the **upkeep, configuration, and reliable** operations of computer systems.
- Roles of system administrator.
- Tips to management system
- Ways of Installing OS