

# LESSON – 2

---

INTRODUCTION TO SYSTEM ADMINISTRATION &  
INSTALLATION OF UBUNTU LINUX OPERATING SYSTEM

# LEARNING OUTCOMES

---

- 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

---

- 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

---

- 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

---

## 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

---

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

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

# OS INSTALLATION

---

- Virtual Machine
- New Computer

## OS Installation

- o 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

---

*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