Outcomes

Upon the completion of this session, the learner will be able to

- ★ Understand LAN, MAN and WAN.
- ★ Know various devices involved in LAN, MAN and WAN.
- ★ Know the new trends in computer networks.

Classification of Computer Networks

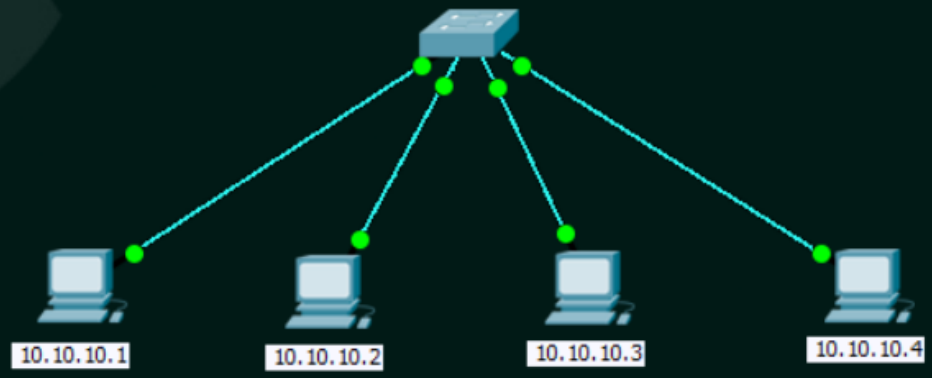
1. Local Area Network (LAN)
2. Metropolitan Area Network (MAN)
3. Wide Area Network (WAN)

1. Local Area Network (LAN)

A Local Area Network (LAN) is a computer network that interconnects computers within a limited area such as a residence, school, laboratory, university campus or office building.

LAN – DEVICES

- ★ Wired LAN (Example: Ethernet – Hub, Switch)
- ★ Wireless LAN (Example: Wi-Fi)



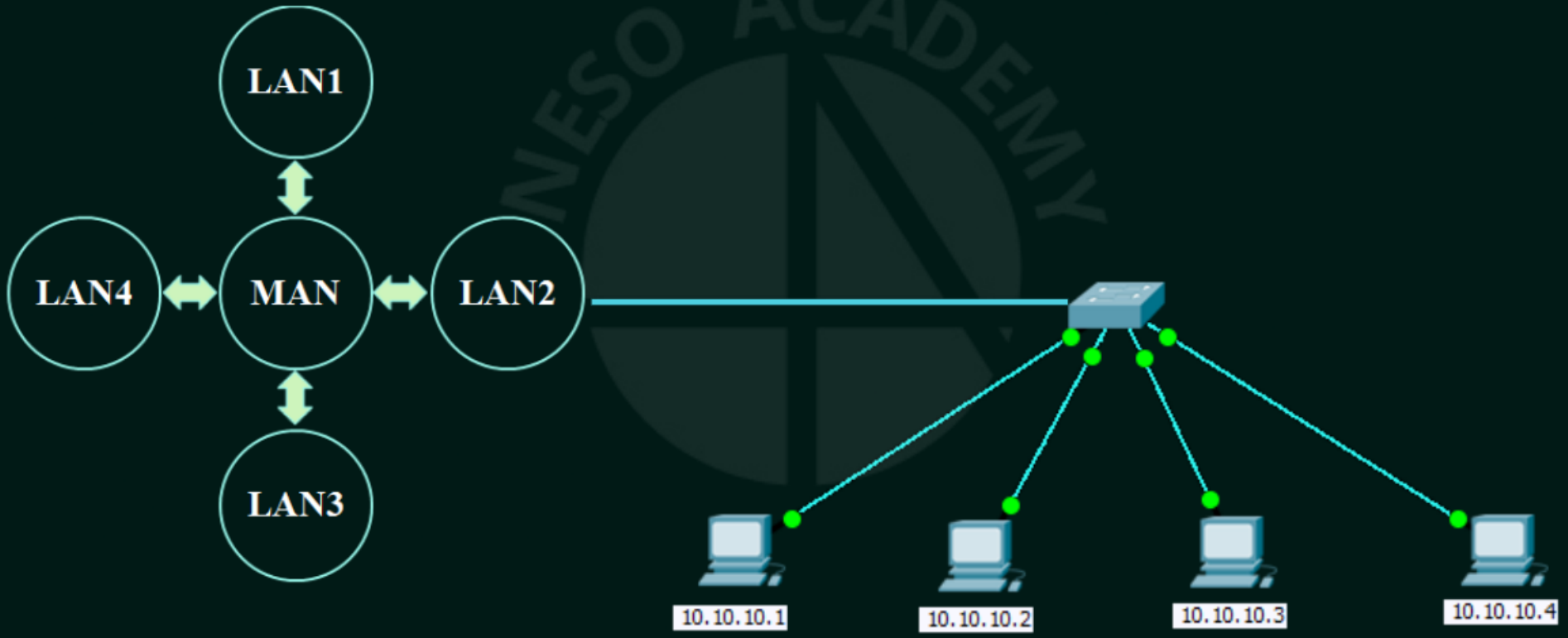
2. Metropolitan Area Network (MAN)

A metropolitan area network (MAN) is a computer network that interconnects users with computer resources in a geographic region of the size of a metropolitan area (City).

MAN- DEVICES

- ★ Switches/Hub
- ★ Routers/Bridges

2. Metropolitan Area Network (MAN)



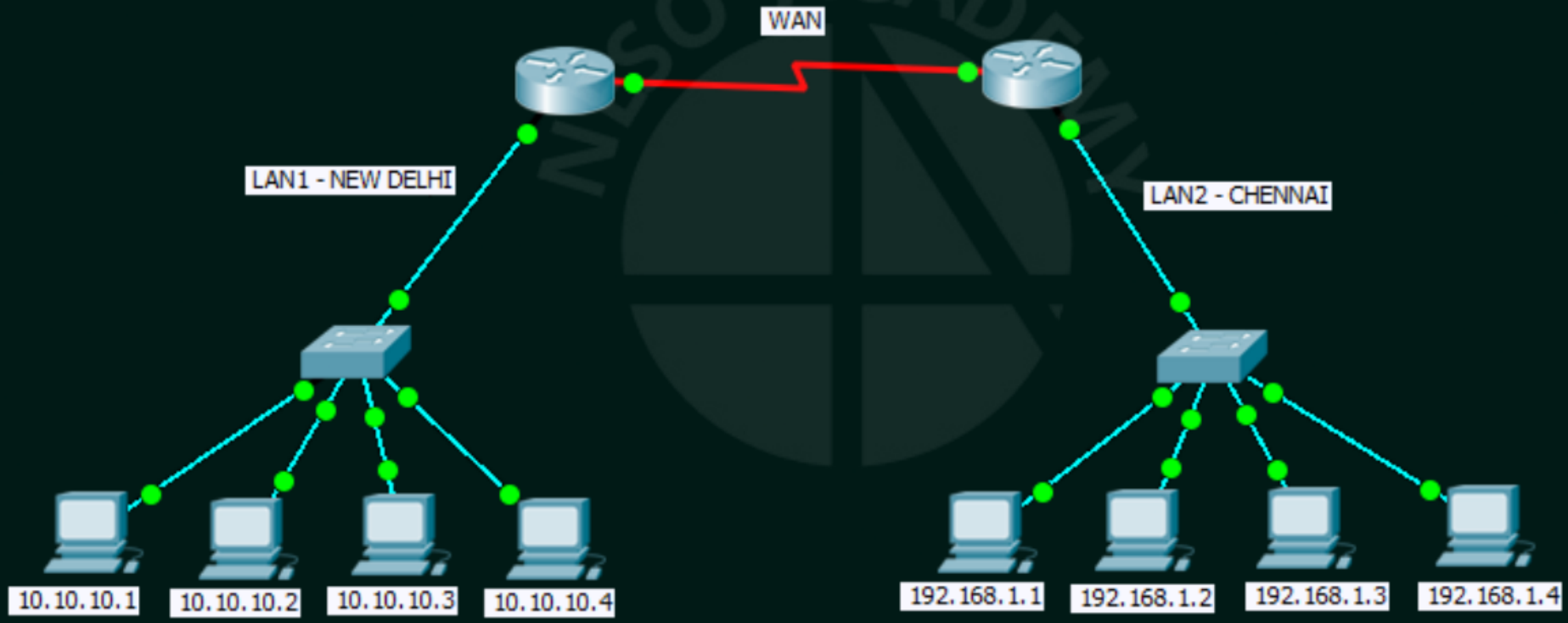
3. Wide Area Network (WAN)

A wide area network (WAN) is a telecommunications network that extends over a large geographical area for the primary purpose of computer networking.

WAN – Devices

End devices and intermediary devices

3. Wide Area Network (WAN)



The Internet

New trends

Bring Your Own Device (BYOD)

Online collaboration

Cloud computing

Storage Area Network (SAN)

Cloud Computing

It is the on-demand availability of computer system resources, especially data storage and computing power, without direct active management by the user.