

## E-Content of INTERNET TECHNOLOGY AND WEB DESIGN

### Chapter : 4.3 Common Terminologies

#### Topic : 4.3.9 Interoperability

##### Interoperability

- Interoperability is the ability of different networks or programs to work or communicate together without the need of additional tools or interfaces required by the user.
- For example, most networks use TCP/IP, which is available on all operating systems, computers and supported with most networks.
- In this current Internet age, it is important that networks of different type are able to communicate with other types of network.
- Not being able to transfer data between networks may isolate a network and decrease efficiency.



**FIG 4.15: Interoperability**

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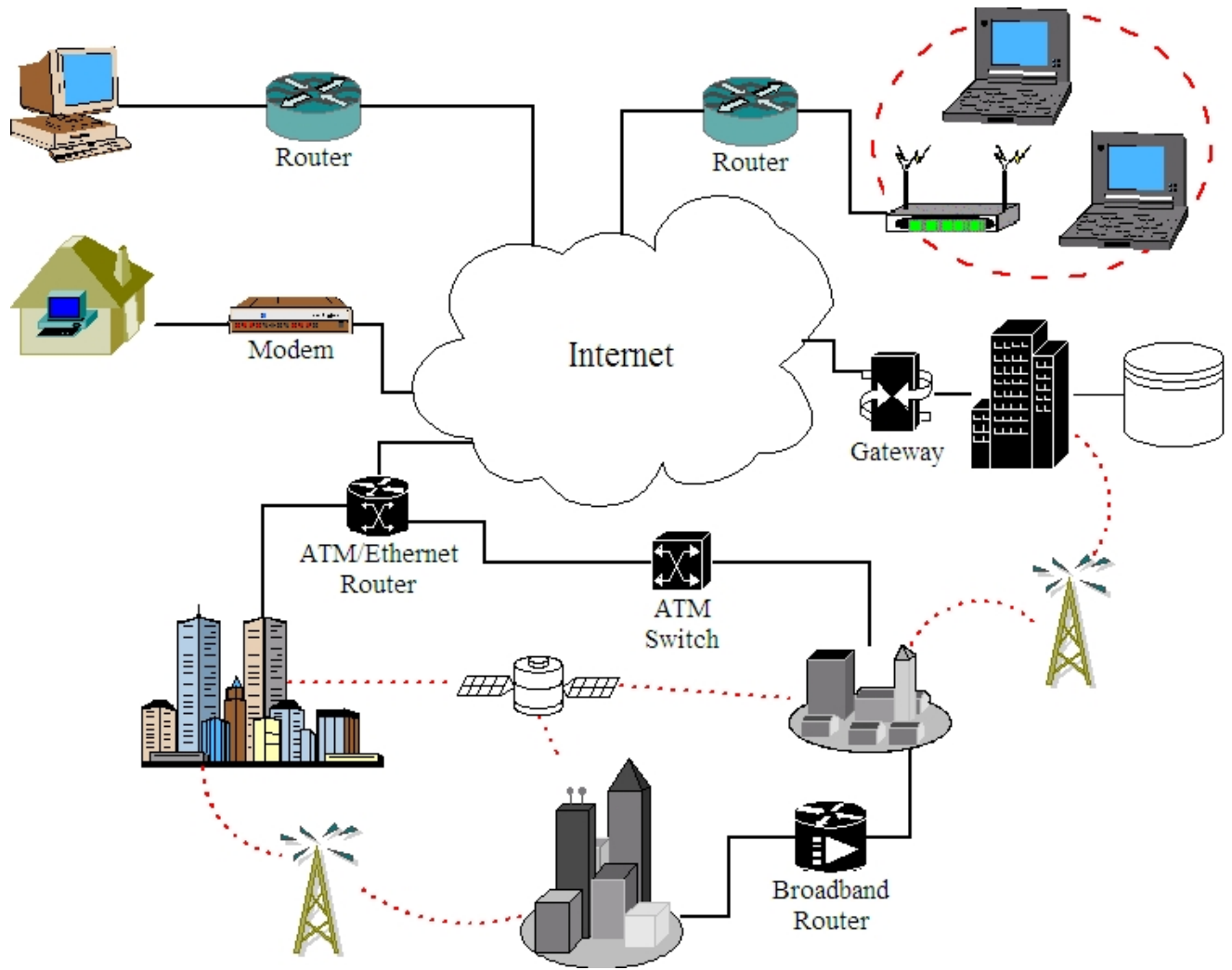
### Chapter : 4.3 Common Terminologies

#### Topic : 4.3.10 Network Administrator

#### Network Administrator

- A network administrator is an individual or group of individuals responsible for the maintenance and operation of a network or server.
- A network administrator may be responsible for maintaining a network and may be assigned to one or more of the below tasks.
- Network administrator responsibilities.
  - Allocating and adding disk storage space.
  - Designing or redesigning the network.
  - Expanding the network.
  - Helping employees with computer questions.
  - Installing and upgrading computers and network equipment on the network.
  - Managing filters and rules (e.g. ACL's, firewalls, QoS, SPAM filters).
  - Monitoring the network.
  - Resetting user names and passwords.
  - Setting up a network, network device, or computers on the network.
  - Testing a network for security vulnerabilities.
- Examples of network administrator certifications
  - MCSA
  - Network+
  - CCNP
  - CNA
  - RHCE

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**FIG 4.16: Network Administrator**

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### Chapter : 4.3 Common Terminologies

#### Topic : 4.3.11 Network Security

##### Network Security

- A specialized field in computer networking that involves securing a computer network infrastructure.
- Network security is typically handled by a network administrator or system administrator who implements the security policy, network software and hardware needed to protect a network and the resources accessed through the network from unauthorized access and also ensure employees to have adequate access to the network and resources to work.
- A network security system typically relies on layers of protection and consists of multiple components including networking monitoring and security software in addition to hardware and appliances.
- All components work together to increase the overall security of the computer network.



**FIG 4.17: Network Security**