

OUTCOMES

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

- ★ Understand the need for fault tolerant networks.
- ★ Understand the need for scalable networks.
- ★ Understand Quality of Service (QoS).
- ★ Know the importance of security in computer networks.

BASIC CHARACTERISTICS OF COMPUTER NETWORK

- ★ Fault Tolerance
- ★ Scalability
- ★ Quality of Service (QoS)
- ★ Security



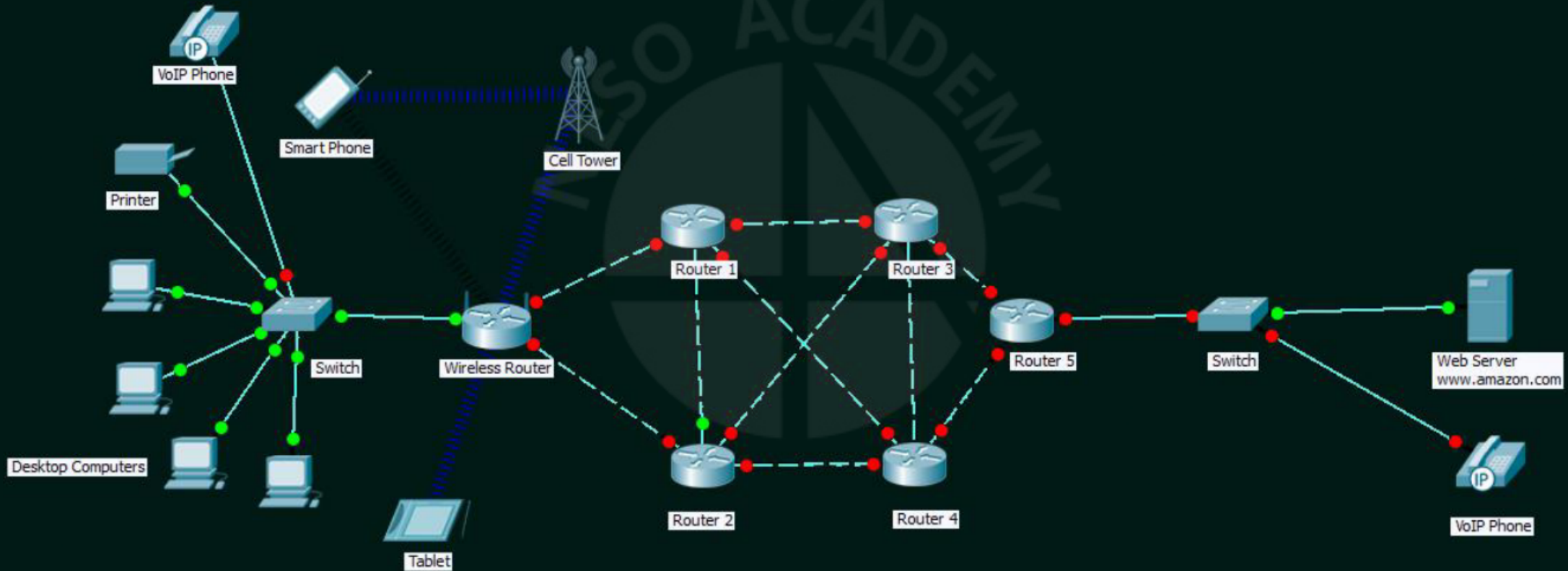
FAULT TOLERANCE

The ability to:

1. Continue working despite failures
2. Ensure no loss of service



AN EXAMPLE COMPUTER NETWORK



SCALABILITY

The ability to:

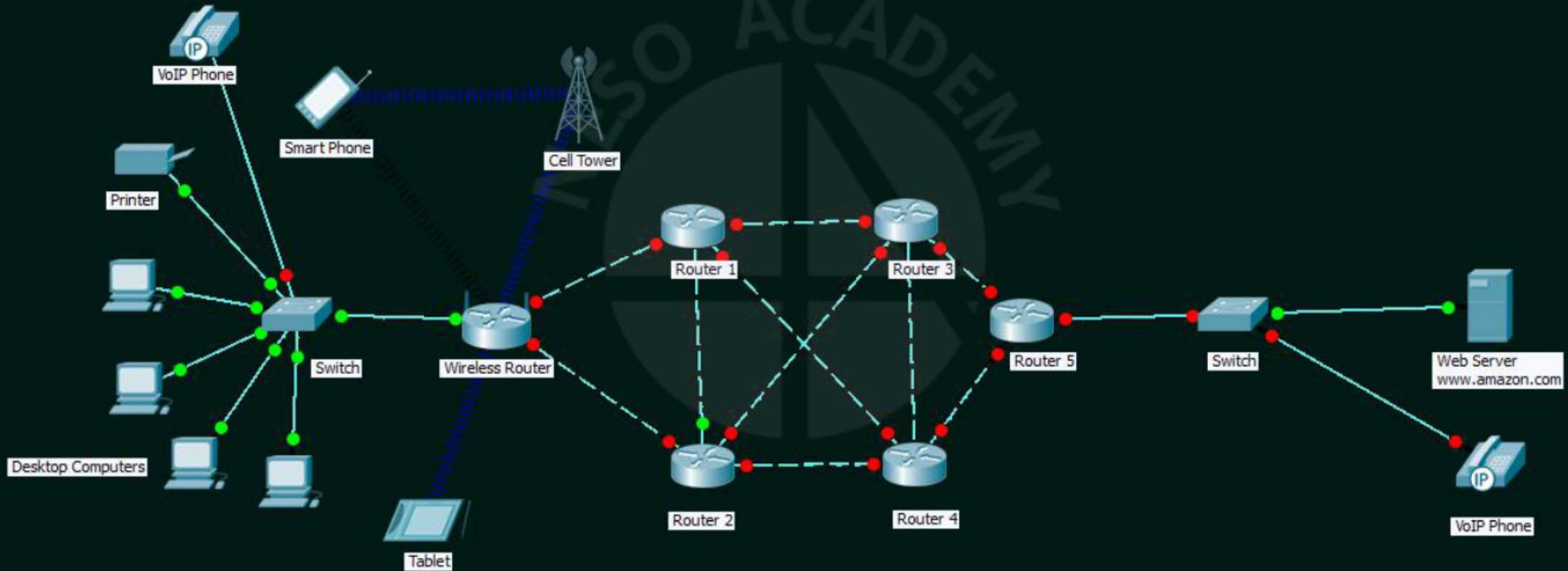
1. Grow based on the needs
2. Have good performance after growth



SCALABLE NETWORK – THE INTERNET



AN EXAMPLE COMPUTER NETWORK

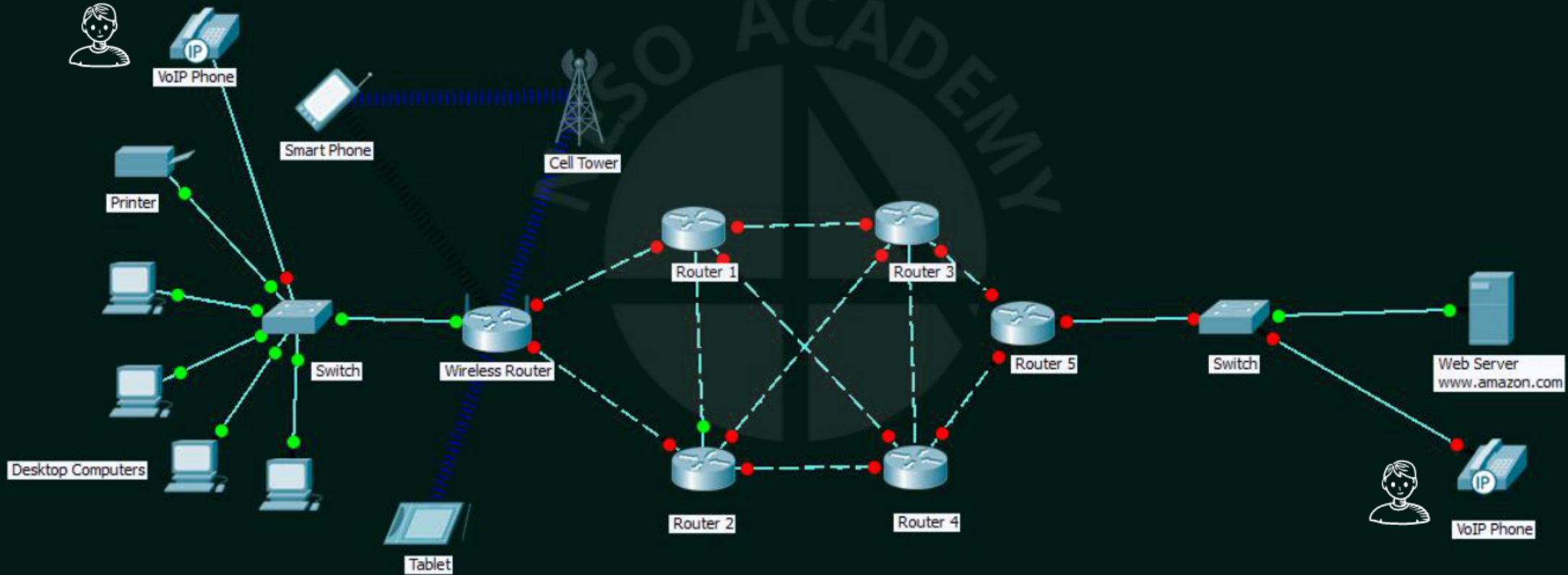


QUALITY OF SERVICE (QoS)

The ability to:

1. Set Priorities
2. Manage data traffic to reduce data loss, delay etc.,

AN EXAMPLE COMPUTER NETWORK



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SECURITY

The ability to prevent:

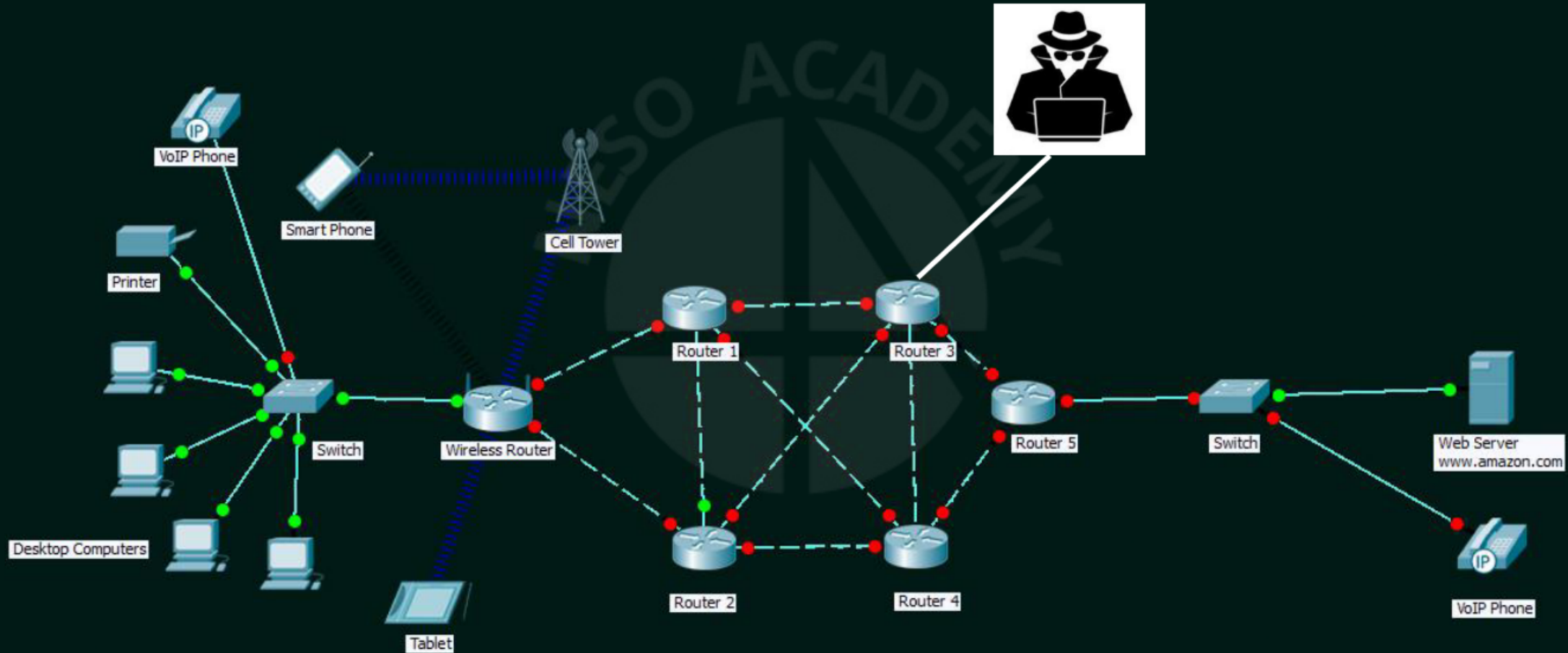
- ★ Unauthorized access
- ★ Misuse
- ★ Forgery

The ability to provide:

- ★ Confidentiality
- ★ Integrity
- ★ Availability



AN EXAMPLE COMPUTER NETWORK



SECURITY

The ability to prevent:

- ★ Unauthorized access
- ★ Misuse
- ★ Forgery

The ability to provide:

- ★ Confidentiality
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- ★ Scalability
- ★ Quality of Service (QoS)
- ★ Security

