

Objectives (Paragraph Form):

To give a basic overview of network security, including its significance, principles, and typical threats. It discusses necessary security features, such as firewalls, VPNs, and access controls, and Defense in Depth approaches. It also assists users in planning and implementing a secure network using Cisco Packet Tracer, including subnets, firewalls, ACLs, and secure protocols. Lastly, it involves security testing to ensure firewall and access control effectiveness.

Objectives (Bullet Form):

The goals of Building a Secure Network are to:

- Learn about the significance of network security and fundamental principles such as confidentiality, integrity, and availability.
- Recognize typical cyber threats and security technologies such as firewalls, VPNs, and intrusion detection systems.
- Enforce Defense in Depth practices, access control systems, and network segmentation.
- Create a secure network through Cisco Packet Tracer, including subnets, firewalls, ACLs, and secure protocols.
- Configure and implement the network design with proper security controls.
- Test network security by verifying access controls and firewall configurations.