

## EXERCISE 7

### Secure Network Architecture

#### AIM:

Learn about and implement security best practices for network environments.

**Secure Network Architecture**  
Learn about and implement security best practices for network environments.  
Medium 60 min

Share your achievement Help Save Room 518 Options

Room completed (100%)

- Task 1 Introduction
- Task 2 Network Segmentation
- Task 3 Common Secure Network Architecture
- Task 4 Network Security Policies and Controls
- Task 5 Zone-Pair Policies and Filtering
- Task 6 Validating Network Traffic
- Task 7 Addressing Common Attacks
- Task 8 Conclusion

Answer the questions below

What is the flag found after filling in all blanks on the static site?

THMIM05tly\_53cure ✓ Correct Answer

Where does DHCP snooping store leased IP addresses from untrusted hosts?

DHCP Binding Database ✓ Correct Answer

Will a switch drop or accept a DHCPRELEASE packet?

Drop ✓ Correct Answer

Does dynamic ARP inspection use the DHCP binding database? (Y/N)

Y ✓ Correct Answer

Dynamic ARP inspection will match an IP address and what other packet detail?

MAC Address ✓ Correct Answer

#### RESULT:

Designed a secure network architecture with firewalls, intrusion detection systems, and encrypted communication channels to mitigate cyber threats.