

## Secure Network Architecture

**EX.NO-07**

**DATE: 02-04-2025**

**AIM:**

Learn about and implement security best practices for network environments.

**PROCEDURE:**

- 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
- Task 1 Introduction :**

Answer the questions below

Read the above and continue to the next task.

No answer needed

✓ Correct Answer

**Task 2 Network Segmentation :**

Answer the questions below

How many trunks are present in this configuration?

4

✓ Correct Answer

🔍 Hint

What is the VLAN tag ID for interface eth12?

30

✓ Correct Answer

🔍 Hint

**Task 3 Common Secure Network Architecture :**

Answer the questions below

From the above table, what zone would a user connecting to a public web server be in?

External

✓ Correct Answer

🔍 Hint

From the above table, what zone would a public web server be in?

DMZ

✓ Correct Answer

🔍 Hint

From the above table, what zone would a core domain controller be placed in?

Restricted

✓ Correct Answer

🔍 Hint

**Task 4 Network Security Policies and Controls :**

Answer the questions below

According to the corresponding ACL policy, will the first packet result in a drop or accept?

accept ✓ Correct Answer

According to the corresponding ACL policy, will the second packet result in a drop or accept?

drop ✓ Correct Answer

### Task 5 Zone-Pair Policies and Filtering :

Answer the questions below

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

THM(M05tly\_53cure) ✓ Correct Answer

### Task 6 Validating Network Traffic :

Answer the questions below

Does SSL inspection require a man-in-the-middle proxy? (Y/N)

Y ✓ Correct Answer

What platform processes data sent from an SSL proxy?

Unified Threat Management ✓ Correct Answer

### Task 7 Addressing Common Attacks :

Answer the questions below

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

### Task 8 Conclusion :

Answer the questions below

Read the above and continue learning!

No answer needed ✓ Correct Answer

### RESULT:

Thus the Secure Network Architecture is completed using tryhackme platform.