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 :

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.