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NPTEL

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Courses » Information security - IV Announcements **Course** Ask a Question Progress Mentor

Unit 10 - Week 8

Course outline

Week - 0 Practice Quizzes

Week - 1

Week - 2

Week - 3

Week 4

Week 5

Week 6

Week 7

Week 8

- Evidence collection in Switches and Routers
- Evidence collection in Routers and Firewalls
- IPTables rules and tool usage
- Logs, Rules and Automated Tools
- Re-cap of All Topics
- Introduction to Meltdown Attack
- Introduction to Meltdown - Address Space Basics
- Meltdown Attack - Out of Order Execution

Assignment - 8

The due date for submitting this assignment has passed. **Due on 2018-04-04, 23:59 IST.**

Submitted assignment

1) Linux router stack can be obtained by using the following software 1 point

- Zebra / Quagga
- Ubuntu / Kali Linux
- Kali Linux / Cent OS
- Cent OS / Ubuntu

No, the answer is incorrect.

Score: 0

Accepted Answers:

Zebra / Quagga

2) Identify the one which is not a storage media 1 point

- CAM
- DataStore
- SSD
- ROM

No, the answer is incorrect.

Score: 0

Accepted Answers:

DataStore

3) Choose the most appropriate answer. Irrespective of the type of router, _____ facility is provided by all of them 1 point

- switching
- managing
- logging
- VLAN

No, the answer is incorrect.

Score: 0

Accepted Answers:

logging

4) Better security is obtained if filtering in consumer grade routers are done using 1 point

- MAC address
- Network mask
- Network address

Meltdown
Attack -
Recovering
from Exception

Quiz :
Assignment - 8

Week 8 -
Feedback

**DOWNLOAD
VIDEOS**

Port numbers

No, the answer is incorrect.

Score: 0

Accepted Answers:

MAC address

5) Identify the one that is not a firewall

1 point

- packet filters
- session layer proxies
- IDS / IPS
- application proxies

No, the answer is incorrect.

Score: 0

Accepted Answers:

IDS / IPS

6) Identify one method of router access which is non intrusive on the router.

1 point

- access using ssh from a remote machine
- dump using syslog to a remote machine
- access using SNMP from a network management station
- access using web using web user interface

No, the answer is incorrect.

Score: 0

Accepted Answers:

dump using syslog to a remote machine

7) The iptables construct that governs whether packets that are destined for the local system is

1 point

- OUTPUT chain
- EXTERNAL chain
- INTERNAL chain
- INPUT chain

No, the answer is incorrect.

Score: 0

Accepted Answers:

INPUT chain

8) "iptables -A INPUT -j LOG --log-ip-options" does the following activity

1 point

- log the ip options
- log the INPUT chain options
- log the IP options for the inbound connection.
- log the IP options for the outbound connection.

No, the answer is incorrect.

Score: 0

Accepted Answers:

log the IP options for the inbound connection.

9) The attack that does not use ICMP packets is

1 point

- day zero
- smurf
- DDOS
- DOS

No, the answer is incorrect.

Score: 0

Accepted Answers:*day zero*

10 Identify the one that is not a processing action of IPTables

1 point

- Wait
- Accept
- Drop
- Reject

No, the answer is incorrect.**Score: 0****Accepted Answers:***Wait*

11 Meltdown attack takes advantage of vulnerability in which layer of the computing system.

1 point

- Operating System
- Microprogramming
- Digital Hardware
- All of the above

No, the answer is incorrect.**Score: 0****Accepted Answers:***All of the above*

12 Fundamental Isolation between processes is enabled using _____.

1 point

- segmentation
- Paging
- Cache Memory
- Interrupts

No, the answer is incorrect.**Score: 0****Accepted Answers:***Paging*

13 Out-of-order processing forms a critical part of the meltdown attack because _____.

1 point

- it only bothers about the improving performance
- they leak information to attackers
- instructions which must not be executed by the processor somehow get executed.
- None of the above.

No, the answer is incorrect.**Score: 0****Accepted Answers:***instructions which must not be executed by the processor somehow get executed.*

14 Cache timing attacks take advantage of the fact that _____.

1 point

- The time required to do memory operations is different from regular instructions
- The time required to fetch data which is present in cache is different from the data which is not present in cache.
- the attacker can accurately estimate the time required to perform a memory operation.
- None of the above

No, the answer is incorrect.**Score: 0****Accepted Answers:***The time required to fetch data which is present in cache is different from the data which is not present in cache.*

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