

Tutorial Week 7 Solutions (abbreviated)

Questions

3. An organisation uses Probabilistic Packet Marking to trace sources of attacks. It receives a large number of packets with the following information:

3 AB

2 BC

1 CD

2 EC

Reconstruct the path or paths taken by the attack packets.

Attacker-A-B-C-D-Victim and

Attacker-E-C-D-Victim

4. Consider the following diagram showing a flow of packets from an attacker to a victim via routers R1, R2 and R3.



Routers R1, R2 and R3 all use PPM.

What will be the contents of the ID field if:

- R1 marks the packet, R2 marks the packet and R3 does not mark the packet
1, R2R3
- R1 does not mark the packet, R2 marks the packet and R3 does not mark the packet
1, R2R3
- R1 does not mark the packet, R2 does not mark the packet and R3 marks the packet
0, R3,-
- R1 marks the packet, R2 does not mark the packet and R3 does not mark the packet
2, R1R2