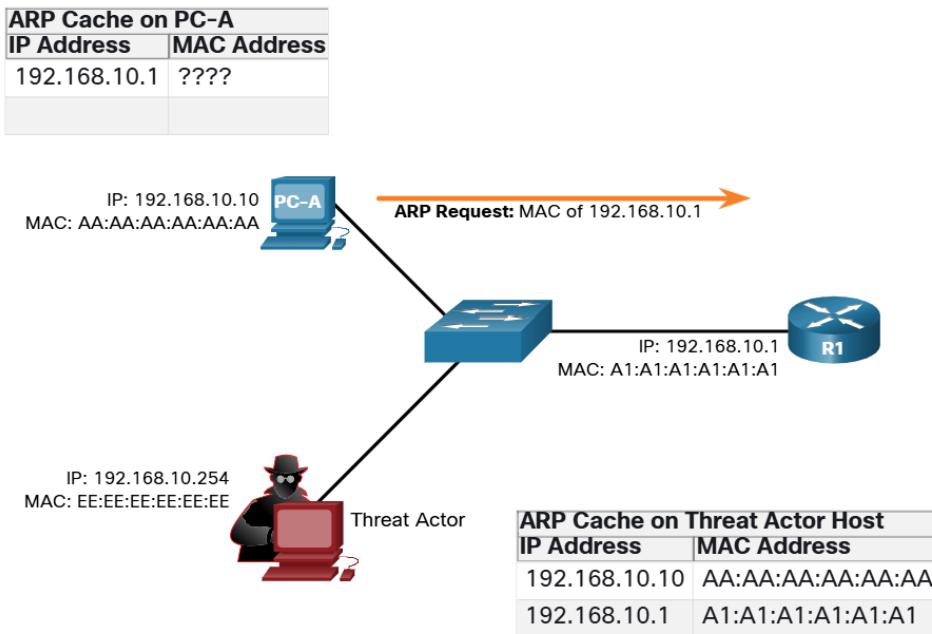
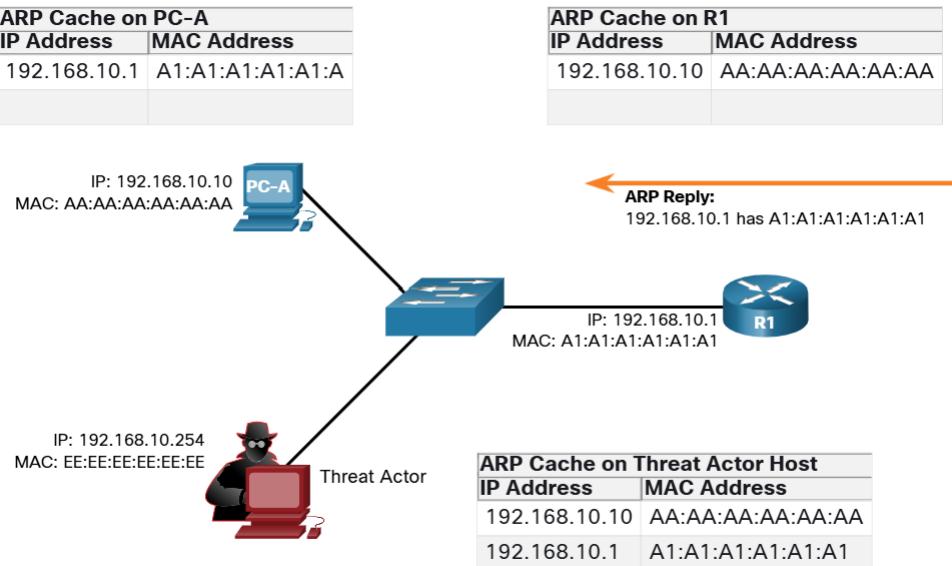


Tutorial 4

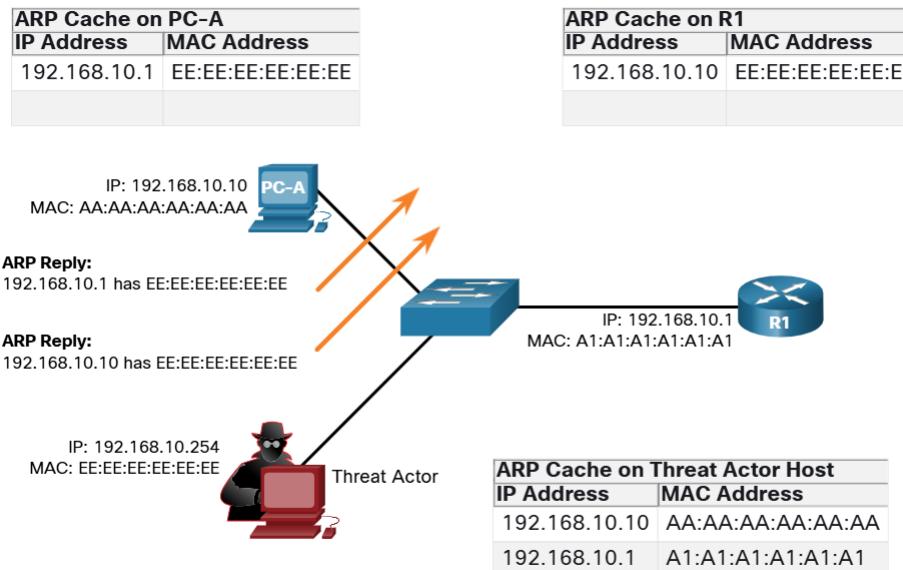
1. Reference to 3.8.2 ARP Cache Poisoning on cisco.netacad.net.
a) Illustrate ARP request between PC-A and R1 based on the following diagram.



- b) Illustrate ARP reply between PC-A and R1 based on the following diagram.



- c) Explain in detail on how ARP Cache Poisoning works based on the following diagram.



2. Differentiate Cisco Email Security Appliance (ESA) and Cisco Web Security Appliance (WSA).
3. Illustrate the techniques used in IP attacks.
4. Explain **THREE (3)** different types of attack to an organization.
5. Differentiate Adware, Spyware and Ransomware.
6. Illustrate Reconnaissance Attacks, Access Attacks and DoS Attacks. In addition, give an example for each type of attack.
7. Most organizations employ a defense-in-depth approach to security. It requires a combination of networking devices and services working together. Illustrate this approach.
8.
 - a) Compare and contrast **TWO (2)** social engineering attacks. (4 marks)
 - b) Which of these two social engineering attacks is more commonly encountered among businesses? Include your reasons to support your answer. (4 marks)
9. Network applications use TCP or UDP ports. Threat actors conduct port scans of targeted devices to discover the services they offer.
 - a) Illustrate TCP SYN Flood attack.
 - b) Explain UDP Flood attack.