

Which two types of attacks are typically carried out by using ICMP messages? (Choose two.)	
Select one or more: ✓ DoS	
relaying spam opening back doors	
password gathering v reconnaiseance	
Refer to curriculum topic: 4.2.1 Threat actors use ICMP messages for reconnaissance and scanning attacks. ICMP messages are also used by threat actors to launch DoS attacks.	
The correct answers are: DoS, reconnaissance	
What are two of the most common wireless technologies used in home automation and home security applications? (Choose two.)	
Select one or more:	
cellular	
IEEE 802.15.4	
✓ Bluetooth	
Refer to curriculum topic: 4.1.2 Bluetooth and Wi-Fi both use radio waves to transmit data and are commonly used in IoT home applications. Bluetooth is used in wireless personal-area networks and Wi-Fi is used in wireless local-area networks. The correct answers are: Bluetooth, Wi-Fi	
	Select one or more: Dos relaying spam opening back doors password gathering reconnaissance Refer to curriculum topic: 4.2.1 Threat actors use ICMP messages for reconnaissance and scanning attacks. ICMP messages are also used by threat actors to launch DoS attacks. The correct answers are: DoS, reconnaissance What are two of the most common wireless technologies used in home automation and home security applications? (Choose two.) Select one or more: cellular IEEE 802.15.4 Bluetooth near field communication WI-Fi Refer to curriculum topic: 4.1.2 Bluetooth and Wi-Fi both use radio waves to transmit data and are commonly used in loT home applications. Bluetooth is used in wireless personal-area networks and Wi-Fi is used in wireless local-area networks.

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Question 5 Correct Mark 2.00 out of 2.00 Flag question	When does the level of trust and reliability of data change during communication between IoT systems? Select one: when data is generated by a device inside a trusted network and stays within the network when data is generated by a device inside an untrusted network and stays in an untrusted network when data is generated by a device inside a trusted network and travels to an untrusted network when data is generated by a device within a DMZ and stays within the DMZ
	Refer to curriculum topic: 4.3.1 When referring to security, crossing a trust boundary means that the level of trust and reliability of data has changed. As data moves from a trusted network to an untrusted network, the security of the data changes. The correct answer is: when data is generated by a device inside a trusted network and travels to an untrusted network
Question 6 Correct Mark 2.00 out of 2.00 Flag question	A threat actor uses a program to launch an attack by sending a flood of UDP packets to a server on the network. The program sweeps through all of the known ports trying to find closed ports. It causes the server to reply with an ICMP port unreachable message and is similar to a DoS attack. Which two programs could be used by the threat actor to launch the attack? (Choose two.) Select one or more: ping UDP Unicorn Low Orbit Ion Cannon WireShark Smurf
	Refer to curriculum topic: 4.2.2 A threat actor can use a tool like UDP Unicorn or Low Orbit Ion Cannon to send a flood of UDP packets to launch a UDP flood attack that causes all the resources on a network to become consumed. These types of programs will sweep through all the known ports trying to find

closed norts. This causes the server to renly with an ICMP nort unreachable message. Recause of the many closed norts on the server, there

Question 7 Correct Mark 2.00 out of 2.00 Flag question	Which type of IoT wireless deployment would allow smart objects to be deployed over a very large area? Select one: IP capable topology star topology hub-and-spoke topology mesh topology
	Refer to curriculum topic: 4.1.1 The wireless mesh topology allows smart objects to connect with other smart objects to eventually reach an IoT gateway. This allows the smart objects to be deployed over a much larger area than would otherwise be possible if each node were required to communicate directly with the IoT gateway. The correct answer is: mesh topology
Question 8 Correct Mark 2.00 out of 2.00 Flag question	Which OWASP communication layer vulnerability should be researched when securing the IoT network traffic attack surface? Select one: replay attack unencrypted services injection protocol fuzzing
	Refer to curriculum topic: 4.1.1 When securing the IoT network traffic attack surface, the following vulnerabilities should be taken into account: LAN traffic LAN to internet traffic

Question 9 Which type of IoT wireless network would interconnect audio devices and smart watches to a cell phone that serves as an IoT gateway? Correct Select one: Mark 2.00 out of wireless home-area network 2.00 Flag wireless body-area network question wireless personal-area network wireless field-area network Refer to curriculum topic: 4.1.1 The wireless personal-area network commonly uses Bluetooth to interconnect personal fitness trackers, smart watches, and audio devices to a cell phone that serves as an IoT gateway. The correct answer is: wireless personal-area network Question 10 Which attack commonly includes the use of botnet and handler systems? Correct Select one: Mark 2.00 out of DoS attack 2.00 address spoofing attack ▼ Flag question DDoS attack ICMP attack Refer to curriculum topic: 4.2.1 A DDoS attack is similar in intent to a DoS attack, except that a DDoS attack is larger because it originates from multiple and coordinated sources. DDoS attacks commonly include a botnet, handler systems, and zombie computers. The correct answer is: DDoS attack

Question 11 Which attack involves threat actors positioning themselves between a source and destination with the intent of transparently monitoring, capturing, and controlling the communication? Correct Mark 2.00 out of Select one: 2.00 ICMP attack ▼ Flag man-in-the-middle attack question SYN flood attack DoS attack Refer to curriculum topic: 4.2.1 The man-in-the-middle attack is a common IP-related attack where threat actors position themselves between a source and destination to transparently monitor, capture, and control the communication. The correct answer is: man-in-the-middle attack Question 12 Why would an engineer only use very short-range radios to allow sensor data to travel from node to node until the data reaches the IoT gateway? Correct Mark 2.00 out of Select one: 2.00 power constraints ▼ Flag high availability question channel requirements increased bandwidth Refer to curriculum topic: 4.1.1 IoT devices may have power constraints that may only permit the use of very short-range radios. IoT wireless protocols may use a topology that allows sensor data to travel from node to node until the data reaches the gateway. The correct answer is: power constraints

Question 13 In which type of scenario would an IoT gateway not be required to convert traffic to Wi-Fi or wired ethernet? Correct Select one: Mark 2.00 out of when smart objects forward data within a mesh network 2.00 ▼ Flag when smart objects forward data within a hub-and-spoke topology question when smart objects forward data using TCP/IP protocols when smart objects forward data within a star topology Refer to curriculum topic: 4.1.1 Smart objects and things can communicate directly with the cloud or data center (IP capable) if they have their own IPv6 protocol stacks and messaging protocols. Being IP capable allows the things to send through the IP network without requiring translation into IP by an IoT gateway. The correct answer is: when smart objects forward data using TCP/IP protocols Question 14 Which two application layer protocols use UDP? (Choose two.) Correct Select one or more: Mark 2.00 out of ✓ DHCP 2.00 ▼ Flag ✓ TFTP question FTP HTTPS Refer to curriculum topic: 4.2.2 Application layer protocols TFTP and DHCP use UDP as the transport layer protocol. HTTP, HTTPS, and FTP use TCP as the transport layer protocol. The correct answers are: DHCP, TFTP

Refer to curriculum topic: 4.2.2 Application layer protocols TFTP and DHCP use UDP as the transport layer protocol. HTTP, HTTPS, and FTP use TCP as the transport layer protocol. The correct answers are: DHCP, TFTP Question 15 Which three IoT wireless mesh protocols are built on top of 802.15.4? (Choose three.) Correct Select one or more: Mark 2.00 out of 6LoWPAN 2.00 Thread ₹ Flag question near field communication ZigBee Wi-Fi Bluetooth Low Energy Refer to curriculum topic: 4.1.2 The IEEE 802.15.4 protocol was originally developed for use in personal-area networks (PANs) and consists of physical (PHY) and media access layer specifications. Due to the layered architecture, developers have been able to create diverse upper-layer protocols to allow ZigBee, Thread, and 6LoWPAN to run on top of 802.15.4. The correct answers are: ZigBee, 6LoWPAN, Thread

Finish review

Read Chapter 5: IoT Application Layer
Attack Surface ▶