Exam Report: 10.3.13 Practice Qu	uestions	
Date: 5/11/2020 10:33:32 am Time Spent: 13:19		Candidate: Garsteck, Matthew Login: mGarsteck
Overall Performance		
Your Score: 62%		
		Passing Score: 80%
View results by: Objective An	nalysis Individual Respons	ses
Individual Responses		
▼ Question 1: <u>Co</u>	<u>orrect</u>	
Which of the following best de	escribes the key difference betwe	en DoS and DDoS?
Results in the server	being inaccessible to users.	
Sends a large number	r of legitimate-looking requests.	
Attackers use numero	ous computers and connections.	
The target server can	not manage the capacity.	
Explanation		
The DoS attacks that you proba The key difference is these atta	acks use numerous computers and t systems. DDoS attacks are usua	tributed denial-of-service attacks (DDoS). Id numerous internet connections across ally executed through a network of
large number of legitimate-lool requests are valid and which ar	king requests to the server in a w	Vith all DoS attacks, the attacker sends a way that the server cannot determine which will overwhelm the system to the point that being inaccessible to other users.
References		
TestOut Ethical Hacker Pro - 1 [e denial of service eh1.exan	.0.3 Denial of Service n.xml Q_DENIEL_OF_SERVIC	CE FACT 01 EH1]
	correct	,
	provides an access point to the a	ribute specially designed malware to poorly attacker, which he can use to control the
Any device that can o	communicate over the intranet ca	an be hacked.
Only servers and wor	rkstations on the intranet can be	hacked.
Only servers and rou	ters on the Internet can be hacke	.d.
Only routers and swi	tches on the Internet can be hack	ked.

Explanation

With the advancement of the Internet of Things, it's important to note that zombie devices aren't limited to desktops and laptops. Any device that can communicate over the Internet can be hacked. This includes security cameras, DVR players, and even kitchen appliances.

References

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▼ Question 3:

Correct

Which of the following motivates attackers to use DoS and DDoS attacks?

- Distraction, extortion, and theft
- Distraction, turf wars, and fun
- Hacktivism, turf wars, and profit
- Hacktivism, profit, and damage reputation

Explanation

The following are motivation for DoS and DDoS Attacks:

- Distraction
- Damage reputation
- Hacktivism
- Fun
- Profit

References

TestOut Ethical Hacker Pro - 10.3 Denial of Service [e_denial_of_service_eh1.exam.xml Q_DENIEL_OF_SERVICE_MOTIVATION_01_EH1]

▼ Question 4:

Incorrect

Which of the following is an attack where all traffic is blocked by taking up all available bandwidth between the target computer and the Internet?

Fragmentation attack

→ ○ Volumetric attack

Amplification attack

Phlashing attack

Explanation

Volumetric attacks block traffic by taking up all available bandwidth between the target and the Internet.

Fragmentation attacks target a system's ability to reassemble fragmented packets.

Amplification attacks exploit vulnerabilities in protocols and broadcast networks. The name is derived from the idea that the attacker uses intermediary computers and networks to amplify the impact of their attack.

Phlashing, also known as bricking, involves pushing incorrect updates to a system's firmware, causing irreversible damage and rendering the device about as useful as a brick.

References

TestOut Ethical Hacker Pro - 10.3 Denial of Service [e_denial_of_service_eh1.exam.xml Q_DOS_ATTACKS_CATEGORIES_01_EH1]

▼ Question 5:

Correct

Which of the following tools can be used to create botnets?

- Poison Ivy, Targa, and LOIC
- Trin00, Targa, and Jolt2
- Jolt2, PlugBot, and Shark

Shark, PlugBot, and Poison Ivy

Explanation

Botnets are typically used to carryout DoS and DDoS attacks. You can use the following tools to create botnets:

- Shark
- PlugBot
- Poison Ivy

Trin00 is a set of programs used for DoS attacks.

Jolt2 is a DoS tool that sends numerous fragmented packets to a Windows machine.

Targa is a multifunctional tool that can execute WinNuke and teardrop attacks.

Low Orbit Ion Cannon (LOIC) is a free and easy to use DoS tool.

References

TestOut Ethical Hacker Pro - 10.3 Denial of Service [e_denial_of_service_eh1.exam.xml Q_DOS_ATTACKS_TOOLS_01_EH1]

▼ Question 6: Incorrect

A hacker has discovered UDP protocol weaknesses on a target system. The hacker attempts to send large numbers of UDP packets from a system with a spoofed IP address, which broadcasts out to the network in an attempt to flood the target system with an overwhelming amount of UDP responses. Which of the following DoS attacks is the hacker attempting to use?

SYN floodFraggle attackSmurf attackTeardrop attack

Explanation

A fraggle attack is a DoS attack that targets UDP protocol weaknesses. A large number of UDP packets from a spoofed IP address are broadcast to a network in an attempt to flood the target computer.

A Smurf attack is a DoS attack that targets ICMP protocol

weaknesses. A SYN flood exploits the TCP three-way handshake. An attacker creates SYN packets with a non-existent source address. When the target machine responds with a SYN-ACK, it goes to the non-existent address, causing the target machine to wait for a response that they will never get.

A Teardrop attack prevents TCP/IP packets from being reassembled. This is done by setting the flags on all frames to indicate that they are fragments and providing instructions to connect to another frame that doesn't actually exist.

References

TestOut Ethical Hacker Pro - 10.3 Denial of Service [e_denial_of_service_eh1.exam.xml Q_DOS_ATTACKS_TYPES_01_EH1]

▼ Question 7: <u>Correct</u>

The ping command is designed to test connectivity between two computers. There are several command options available to customize ping, making it a useful tool for network administrators. On Windows, the default number of ping requests is set is four. Which of the following command options will change the default number of ping requests?



-f

Explanation

ping -n defines the number of echo requests to send.

ping -a is used to resolve adresses to hostnames.

ping -l is used to send the buffer size.

ping -f is used to set the don't fragment flag in packet.

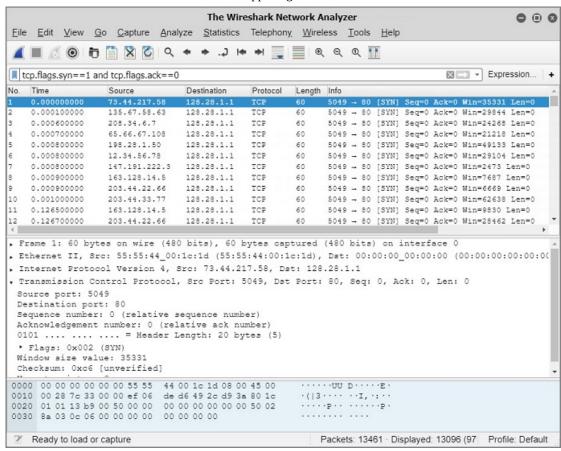
References

TestOut Ethical Hacker Pro - 10.3 Denial of Service [e_denial_of_service_eh1.exam.xml Q_DOS_ATTACKS_TYPES_02_EH1]

▼ Question 8:

Correct

You are using Wireshark to try and determine if a denial-of-service (DDoS) attack is happening on your network (128.28.1.1). You previously captured packets using the tcp.flags.syn==1 and tcp.flags.ack==1 filter, but only saw a few SYN-ACK packets. You have now changed the filter to tcp.flags.syn==1 and tcp.flags.ack==0. After examining the Wireshark results shown in the image, which of the following is the best reason to conclude that a DDoS attack is happening?



- The Transmission Control Protocol shows the hex value of the SYN flag is 0x002.
- There was a flood of SYN packets without a matching SYN-ACK packet.
- → (a) There are multiple SYN packets with different source addresses destined for 128.28.1.1.
 - The source address for all SYN packets is 198.28.1.1.

Explanation

The captured and filtered packets show many SYN packets being sent from many different sources, but all destined for the same target or destination address. This is a strong indication that a DDoS attack is currently happening.

Whether they are legitimate or created by a hacker, SYN packets have a hex value of 0x002.

Since a DDoS flood is happening, there isn't time or bandwidth available to see many (if any) matching SYN-ACK packets.

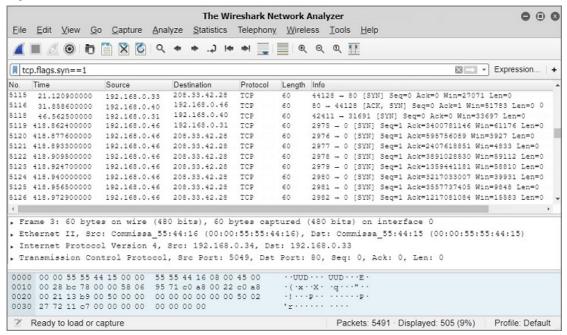
References

TestOut Ethical Hacker Pro - 10.3 Denial of Service [e_denial_of_service_eh1.exam.xml Q_DOS_ATTACKS_WIRESHARK_DDOS_ATTACK_01_EH1]

▼ Question 9: Correct

You suspect that an ICMP flood attack is taking place from time to time, so you have used Wireshark to capture packets using the tcp.flags.syn==1 filter. Initially, you saw an occasional SYN or ACK packet. After a short while, however, you started seeing packets as shown in the image.

Using the information shown, which of the following explains the difference between normal ICMP (ping) requests and an ICMP flood?



- With the flood, all packets come from the same source IP address in quick succession.
 - The normal ICMP ping request only has one source address.
 - The only difference is the number of packets that are sent.
 - With the ICMP flood, ICMP packets are sent and received at a quicker rate than normal ICMP packets.

Explanation

In comparison to the occasional ICMP ping requests that can be seen on a network, when an ICMP flood attack is happening, the ICMP packets are sent in quick succession from the same source IP address. As a result, there is little bandwidth available to receive many (if any) ACK or SYN packets.

As can be seen from the packets captured, normal ICMP packets can come from different source addresses, such as 192.168.0.33 and 192.168.0.31.

The ping command will send 4 by default if -n isn't used.

References

TestOut Ethical Hacker Pro - 10.3 Denial of Service [e_denial_of_service_eh1.exam.xml Q_DOS_ATTACKS_WIRESHARK_ICMP_FLOOD_01_EH1]

▼ Question 10: Correct

Which of the following best describes a DoS attack?

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2020	TestOut LabSim
A hacker penetro	ates a system by using every character, word, or letter to gain access.
A hacker overw	helms or damages a system and prevents users from accessing a service.
A hacker attempt	ts to impersonate an authorized user by stealing the user's token.
A hacker interce	pts traffic between two systems to gain access to a system.
Explanation	
with the ability to keep a s	on the availability of a service by disrupting, denying, or otherwise interfering service available. The more you understand what a DoS attack is and what can d you are to use countermeasures.
Impersonating an authorize by using a cryptographic a	ed user by gaining access to their tokens is a way to gain unauthorized access attack.
Using every character, wo	rd, or letter to gain unauthorized access is also known as a brute-force attack.
Intercepting traffic is a type	be of sniffing, which does not cause a DoS attack.
References	
TestOut Ethical Hacker Pr [e_denial_of_service_eh1	o - 10.3 Denial of Service .exam.xml Q_DOS_COUNTER_ATTACK_PREVENT_01_EH1]
Question 11:	Incorrect
Which of the following be	est describes a reverse proxy method for protecting a system from a DoS attack?
Limits the poten	tial impact of a DoS attack by providing additional response time.
Redirects all train	ffic before it is forwarded to a server, so the redirected system takes the impact.
Creates an area	of the network where offending traffic is forwarded and dropped.
Adds extra servi	ces so that there are too many platforms for the attacker to be able to flood.
Explanation	
	s and a proxy server takes the impact, this is known as a Reverse Proxy DoS nethod redirects all traffic to the reverse proxy before it is forwarded to the real
	twork called a black hole, where offending traffic is forwarded and dropped, is nethod called Black Hole Filtering.
	can limit the potential impact of a DoS attack and can provide a bit of strators to respond to an attack.
	th as load balancing and excess bandwidth, can help provide too many to be able to flood. This method is called absorbing the attack.
References	
TestOut Ethical Hacker Pr [e_denial_of_service_eh1	o - 10.3 Denial of Service .exam.xml Q_DOS_COUNTER_ATTACK_PROTECT_01_EH1]
Question 12:	Correct
Creating an area of the ne	twork where offending traffic is forwarded and dropped is known as?
Enable router th	cottling
Reverse proxy	
Anti-spoofing m	easures

Black hole filtering

Explanation

Black hole filtering creates an area of the network called a black hole where offending traffic is forwarded and dropped.

Router throttling limits the potential impact of a DoS attack and can provide a bit of additional time for administrators to respond to an attack.

All traffic is redirected to the reverse proxy before being forwarded to the real server. In the event of an attack, the proxy takes the impact.

Anti-spoofing measures ensure that spoofed packets are unable to infiltrate your network.

References

TestOut Ethical Hacker Pro - 10.3 Denial of Service [e_denial_of_service_eh1.exam.xml Q_DOS_COUNTER_ATTACK_PROTECT_02_EH1]

▼ Question 13: <u>Incorrect</u>

It is important to be prepared for a DoS attack. These attacks are becoming more common. Which of the following best describes the response you should take for a service degradation?

	Add extra services, such as load balancing and excess bandwid	
þ		Services can be set to throttle or even shut down.
		Have more than one upstream connection to use as a failover.
		Include a checklist of all threat assessment tools.

Explanation

To respond to a service degradation, services can be set to throttle or even shut down in the event of an attack.

You should have more than one upstream connection to use as a failover in the event of a flooding attack.

To absorb an attack, add extra services such as load balancing and excess bandwidth so that you have too much on your network for the attacker to execute a flood attack.

Your response plan should include a checklist of all the threat assessment tools and hardware protections that you have in place.

References

TestOut Ethical Hacker Pro - 10.3 Denial of Service [e_denial_of_service_eh1.exam.xml Q_DOS_COUNTER_ATTACK_RESPONSE_01_EH1]