Penetration Testing
Penetration Testing or Pontest is a security exercise
where a cuber gowing expect attempts to find and
exploit vulnerabilities in a computer system. The purpose of this simulated attack is to identify any weak spots in a system's defenses which attacked could take advantage of
of this simulated attack is to identify any weak spots in
a system's defenses which attacked could take advantage of
Penetration testers use the same tools, techniques and processes
as attackers to find the weakness.
Benefit
1. Find weaknesses in systems
2. Determine the pobustness of controls
3- support compliance with clara privacy & security regulation.
4. Provide qualitative and quantitative eg of current security
posture.
The second secon
Stages
1. Planning IPSGMA
2. Scanning
3- Gaining access
4. Maintaining access 5. Analysis and WAF-configuration
5. Analysis and NAF configuration (Web Application firewall)
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1. Planning
→ Defining the scope and goals of a text. Including systems to be addressed and the texting methods to be used.
1. Planning → Defining the scope and goals of a text: Including systems to be addressed and the texting methods to be used. → Grathering Intelligence — how a target works.
2. Scanning- Ly to understand how the taxget application will respond to various intrusion attempts
3. Graining access This stage uses web application attacks such as cross-site scripting sol injection and backdoors to uncoversa
target vulnerabilities. Tester than the and exploit these vuln by stealings data, intercepting traffic etc. to understand the damage they can cause
data, intercepting traffic etc. To understand
they can cause
4. maintaing ercress.
The goal of this stage 18 to see if the vulnerability
The goal of this stage is to see if the vulnerability can be used to achieve a peristotent presence in the system
5. Analysis The result of the fest goe compiled into detailed report by sensitive data that was accessed
Generative data that was accessed
L's specific vulnerabilities that were exploited L's specific vulnerabilities that were exploited L'amount of time pen test was able to remain in true system unditected.
Lamount of time pen test was done
system Uchautelted.

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Methods
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1) Internal Testing -, In this, the ethical hacker performs the
test from the company's internal network. Gr. a employee
O Internal Testing → In this, the ethical hacker performs the test from the company's internal network. Ex. a employee whose credentials were stolen due to a phishing attack.
assot of a ampany that are visible on the internet
@ Extrapol Testing - In this, the hacker tests target the assets of a company that are visible on the internet of website, email, domain name enough
The goal is to gain access and extract valuable data
0
Blind testing - a tester is only given the name of the enterprise that's being target!
Double blind - security possonal has no prior knowledge of the simulated attack. As in real world, they won't have time to show, up their defenses before an breach
3) Taggeted testing - In this senaving both tester & security
3) Tangeted testing - In this senoving both tester & security personnel work together & keep each other approached of The
movements.
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FRAME RELAY	ATM
1. FR has Vaociable packet stre	1. ATM has fixed packet size
2 cost is low	2. costlier
3- Packet delay is more	3- Packet delay is less
4. Reliability is less	4. Reliable
5- Packet trousfer speed is	5. high
and flow control	control
the same than th	and was party to the first of the second
SMDS -> Switched mult SMDS is a high speed pa used for communications or y uses copper or fiber opt	or Public data networks (PDN).
L support speed of 1544 ME	ops over DS 1 or 44.736 mbps
4 It extends the postformance	& efficiency of the company's
4 designed for moderate.	candwidth connection 1-34 Mbps.
ATM: Asynchronous Transfe	er mode :-
into small, fixed sized	sion multiplexing to encode data cells.
4 Mahor transmission cap	tual network
Ly www operating cost 2	Cow error rate Spiral

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CO	y softwar of the	
(3)	Software Development (Hecycle
F9	and test Wall avalian and	oftware industry to design, develop
	- Jan 19 80pm	N COUS
	Planning - Dafining-	-> Designing -1 Building -1 Testing -> Depl.
	HDLC -> High level Data	Link control
-9_	It is a group of communic	atton protocols of the data Unic layer
	To To ansmitting data blw	network point or nodes.
	ance It is a Udata link of	protocol, data is organized into frame.
all the same of th	TI Trans is transmitted vi	a the network to the destination
5	that registres its successful	
ES .	Applicable for both po	Aut-to-point & multipoint communication
9		
	Normal response mode	Asynch, balanced back
	Jone station send command	each station can send
	other receives	2 respond.
	hused for both p-2-p & mult.	- p-2-p communication
	ISDN - Integrated, Digital	Abdalook
	Services Services	7,000,000
	ITA ISDN is a network in	which digital switching connections -
an	e used to transmit digit.	al signals. multiple devices
_ car	n be connected to me U	he and sent as needed.
4	offers symmetrical trans	feet rate -
	consistent transfer rate	64 Kb0s
→ S	consistent transfer rate support both circuit smutch	ving a packet suutchingi
T	[8 are transmission of	voice dota violen and other
net	work services over the d	voice, data, violeo and other
		Spiral

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Frame Rolay:	ar partacol that is declared
The sa protest smitching network to work at the data UNE layer of the data UNE layer of It is used to connect LAN and	1x protocol that is designed
to work at the data Und layou of	the network.
It is used to connect LAN and	transmit data across WAN.
If goes not pare an exert confer	, and from management
mechanism.	
It is a fast packet technology par	oulating them in multiple
Data is transmitted by encap. Stree frames. and sent in high	speed busits through
stre frames, and scut in high	speed busis injury
It uses the technology of fast pack	of in wavey edge
It uses the technology of fast pack checking does not occur in an	y Intermediate noae
181 Declared	And the second of the second o
	1 + 11/2 la a later eterrare
RAID: Redundant arrivary of independent visualization technology that compline double components into one or mo	dew disks is a ania sionage
visualization technology that compine	3 multiple physical ass
douine components into one or mo	re voncal orus for accor
rodundancy performance without	
It is a way of storing the same multiple hand disks or solid state in case of drive fallum. counters of working in parallel.	11 1 diff places mag
It is a way of storing the same	data in oug + places on se
multiple hand disks or sold state	Jouves to pource acco
in case of drive fallum. coursets of	y or more agree
working in parallel.	
Selection of the select	1 A Late with warm
Disk warrang - copy Iden	Heal data one more
Disk missooning - copy Iden	Ve.
Disk stopping - paoutitions help. disk derive.	spread class over mustiple.
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Redurdant Scorner
IBM Netview
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1BM Notriew helps to determine the highest degree availability
of IBM networks.
- Notview program enables the management of networks and systems
mough graphical display and automation.
Extensive tools are included to manage and maintain
Complex systems from a single point of control.
-) Also provide a set of user interface to meet the needs of
any user that work with other product.
Advantages
Increased notwork and system efficiency and availability
G Reduce the need for duplicate network management eys.
L'enhanced operations and message management
The state of the s
Components
1. Command facility -> send & nocein messages
2 Hardware monitor -> collect & display events & data
3. Session Monitor -> provide info about sessions like status,
1. Command facility -> send 2 receive messages 2. Hardware monitor -> collect & display events 2 data 3. Session Monitor -> provide info. about sessions like status, connectivity, response time
4 Teaminal Access facility provide operator control from one
Tomorrae
5. Automated Operation Network
G. Frittomata ofcoming perform actions Generally perform action
plyform uglow

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Sun Not Manageor is the primary r	network management
Dused to monitor and improve Reneworks.	eefformance in multiprotocol
SNM has 4 categories of elements	
1. component - elements like printer	, workstation, system of
2 view - collection of elements	to me which are a surply for
3 Bus - represent LAN segments	in Approximation of the second
4. Connections - connect two elem	nents & P2P
and otherwise with a later to be regarded without of fields	a later to the lat
It is a platform for the managemen	it of distributed work
group networks.	V
<i>,</i>	
Aschitecture - rolles on manag	The state of the s
manager is a process initiated The agent is the process that object and collect data on be	by the user-
The against is the process that	t access the managed
object and collect data on b	rehalf of manager.
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