

(grop OIs it pavide to sniff network on both Ans. Yes; it is possible to sniff network on both LAN's. On switched LAN, an attacker would need to gain occess to physical address network Switch, while on broadcast media LAN, an attacker an use a network sniffer took to capture and analyze network traffic as it passes through network. However, unauthoxized sniffing of network traffic is un ethical. (QNO.1) C) How can hacker who has got a machine Connected to a network, determine whether he is on switched or Brondcast LAW? Ans: - One way for a hacker to determine they
or in which LAN is to use a network sniffer tool to capture and analyze network traffic. On switched LAN, tool would capture to affic intended for bracker's machine while on broadcast LAN, the tool would capture all traffic on network. (QNo.2) (D) To what extent can we provide protection
against traffic analysis attacks and how?

Phs:- Protection against traffic analysis attacks

Can be provided to some extent through the
use of encryption techniques (VPn's, SSL etc).

Those techniques can holp to obfuscate the

Contents of network traffic, making it more difficult
for attackers to infer Sensitive information from
traffic patterns: However, it is important to note
that no protection method can provide complete

	Security against traffic analysis attack.
two k	(PNO.2) @ How can souting information be exploited for launching any security attack? Any:- Routing information can be exploited
	an attacker to interest attacks by allowing
ost.	an attacker to intercept, modify, or sedirect
2	them to exceed to
	steak data, or perform man-in-
	middle attacks.
	(I) Hallo 870
2	6) How can RIP spoofing be avoided?
	This: - 121 - proofing can be avoided by using authenti-
y	Cation mechanisms, such as MD5 authentication, to
1	ensure that only tousted souters can exchange
(souting information.
e	(1) h. + 4. 0 1 0 0 1 1 1 1 1
	What kinds of local/semote attacks can be
	launched by an attacker on a host to become an
	Illegal User and Illegal Root on the said hort?
	Am: It attacker can launch local attacks
	such as Password guessing, priveledge escalation,
	and backdoor to become an illegal user
	and illegal soot on a host. Remote attacks
· · · · · · · · · · · · · · · · · · ·	I include explaiting Vulnerabilities such as xemote 1
	Code execution or buffer overflow to gain unauthoxized access.
	unauthorized access.
t	(PNO.3) (a) When the hacker and the host are both on same network?
	on come network?
	•
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Pos:- In this scenario, hacker can intercept host's
Communication with site DNS spoofing in following steps: (1) Hackes sets up fake DNS server on their machine, which reasonds to DNS server of
(1) Hackes sets up fake DNs server on their
machine, which responds to DNS requests from
10 House sends a DNS request to its own DNS server
to resolve domain name of target site. 3) DNS server responds with IP address of Pake DNS
Scorex 2rd Ph packer.
4) Hosts sends fake DNS request Pake DNS server,
which sesponds with a spooted TO address too a
Choose 31H
(5) Hosts sends request to spoofed IP-address, which is
intercepted and sedirected by hacker.
Darribe Lux 1 2000 large a 2 DAIS constinu
(b) Describe two ways hacker may carry out DNS spoofing
Ans:- The two ways are following:-
The hacker can use technique called
" cache Paisoning" to Corrupt DN count of a
DNS server and redirect traffic to a fake
a of city:
xesponses using a tool such as DNS pray o
a packet sniffer and modify responses to
The hacker an intercept Die office of the sexponses using a tool such as DNS proxy of a packet sniffer and modify responses to redirect tooffice to a fake website.
The state of the s

(9NO.4) Consider on attack on same local network
(PNO.4) Consider on attrock on sur-
as a host (client) -
and the define exchanged between
this:- The sequence of mesself souther
the attacker, the
in this attack as follows:-
in this attack as follows:- The attacker sends a forged ICMP redisect The attacker sends a forged TCMP redisect
message con the same
defaut souter.
(2) The host recieves [CMP sedirect vites] upolates its routing table, adding attackers IP
updates its routing table, actemay for the
address as the new year
destination network. 3) The host sends its outbound toaffic to attacker's default router.
The state of the s
machine instead of the toattic.
(4) Attacker can integration intended destination.
(4) Attacker can intercept and inspect the fertination. modify it, or forward it to intended destination. The attacker can send the traffic to the default router to avoid detection, or it can default router to avoid detection, or it can
(5) The attacker can send the traffic ox it can
default souter to avoid de la DOS service.
default souter to avoid de la Dos sexvice.
(QNO-5) Consider e- commerce company,
selection corte to and disordianteges
The following are some advantages and appeared that can be of various password selection schemes that can be
orings password Selection schemes true
considered:
1) Length of Passwords:
1) Length of Passwords: Longer Passwords are more secure Longer Passwords
than shorter ones. In possible combinations,
have a greater number of possible combinations,
making from harder to guess a test is more
have a greater number of possible comorned for having them harder to guess a crack. For making them harder to guess a crack for Example, a password of so characters is more.
Secure than of 6 characters.
Secure VIVA



2	· Randomness of paerwoods:-
	Enforcing randomness of passwords
	characters can make it harder for attackers
	to guess or coack password. This can be
	achieved by mixing of uppercase, lowercase,
	mumbers and symbols.
3.	. User Choice of characters:-
	Allowing users to choose any
	Characters they like for their passwords may make
	it easier for them to semember passwords However,
	it easier for them to xemember passwords. However, this can also lead to weak passwords that
	are easy to guess and crack.
4	1. Frequency of password changes:- Forcing users to change their
	O much some their
	Passwords every Six months can improve security
	by reducing the likelihood of passwords being compromised. However, this can also lead to were
-	Choosing weaker passwords or writing down
	password to remember them.
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-	
4	
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