Authentication of Ace	Page No: Page No: Youva
	Authorization
Here, identity of prove wers are checked for providing the access to system.	Here, person's order's authorities are checked for accessing the resources
· Hsers are ventiled This done betwee authenization process.	· Users are validated · It is done after authentication process
needs wers login deterils:	· Needs wer's privillege or security levels.
• It determines whether person is useror not	permission does the user have?
Authentication Cordentialy. Can be changed in part as and when required by were	Authorization permission can not be changed by user as these or granted by owner of the system & only owner bar change it.
Jass Jass Jass Jass Jass Jass Jass Jass	klhedt Permissien d. yau heire?

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first at the contract of the services 0 Malunob Vicer: Control I I as security in their user a ed of protocols to teep unauthorized user and dentere out of private naturals or And treatment access to the despites with terplient with network security Junior C.L. have control of your returns Libbah deglee can unthentiate four actuals a hillists decice 9 4 Without NACSI'S complody conceds to your environment them it is burnhal for environment 4 9 G, that implements security policy, compliance Q. 9) 0 al NAC " Components 1) Restricted weren - It restricts access to the network by user authentication of 9 authornation Control. (4) Network Boundary protection: It months:

15 4 controls the Connectivity of returns of with a stemant networks. NAC "- 1 Preadmission lapes of

(Server Hust, Hyps) X 3HA 15 Plainter terrement 1024 615 couldn't bits - 512 mil 3. No at rounds - 60 4. But round will produce a word Council (my 400) 5. K Constart could round (new delical formal) 6: Butter (Stone nout) opp of one block -> ile to next block * Kerberos : Kerberos provides a centralized authorisation sever whose tun' is to outrenticute where to genera and servers to were. In knowers outhertication sense 2 databased wed for client authentication, It ment as third - purty musted someon known as the key distribution center(kaci) 1) Pair Componente de l'enceros a futhenticulier server gerturns the initial authoritication to thete or title browning Growthy service (2) Dutakers - Anthenticuliar server Verite
the coller, right of user is the 3) Tidest Granting Server ? Tilest for Server issues the tikel for Just 3 months of Server issues the tikel for NO

Provides two or peritication factors - Muti Factor Authentication (MIFA) ? Multi fector Authentication is an authentication nethod that requires the user to provide two resource such as an apple, online ace, or UPN. * - I rand * Transport - Level Jecumy -----Web Security Considerations: -4 0 · update S/W -· Between of SQL injection · cross Site scripting (xss) · error messages - Data varidation (المسلم · Password 9 Seeure Socket layer (SSL) Provides Security to the data that is transferred bett web browser & server SSL encrypts the link bet a web server and a browser which ensure that all data passed bet them demain private & free (islan protocol for establishing authenticated f f'energeted links bett networked computers)

TILS - Transport layer Security Designed to provide security at trans port la ger It was derived from 582 It ensures no third party may evoluting or hampers with any message. · HTTPS - Hypertext bransfer Protoco Sewer Secure version of HTTP mainly used for providing security to the date sent bet website 4 web - widely used on internet 3 used for Secure Commo HTTPS commo protocols are encrypted wing SSL. · SSH - Secure Shell or Secure Sucket Shell. is used for transferring encrypted dutes over network. It allows you to connect to a server or multiple servers, without having you to remember or enter your pass foreach oystern that is login remotely from one
System in to another

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Into to Security Attacks Date: Vulnerability - laleakness that can be explaited by cybercriminals to gain unauthorized access to comp system. It 93 a weakness in information System, System processes or internal controls of organization) -Malicious act that seeks to demag date or other assests, misuse them. . · Threat Modeling "-It is a method of optimizing 0 network security by tocating vulnerabilities, 0 identifying objectives, & developing countermed 0 sures to either prevent or mitigate the effects of cyber attacks against the system. from Cyber attack or data breach on your organization.

	Page No Date 1001A
· Attack ? - When there is	unauthvirue
it is called as Attack	by third park
it is called as Attack	
Types of Attacks -	
1) Malware Attent	
@ Phishing Attack	
(3) Password	
Man in the middle at	feele
B) a	, ,
(8) 005	
County measures : - It is proces	I that can prevent Comp from
It is an acti	on, process,
devices or system that can	prevent, or
devices or system that can mitigate the effects of three	ats to a
computer	
-\(\cdot\)	
Avoiding cettercks -	
1 Keep slw + systems	fully up to date
	7 000

Avoiding cettacks -

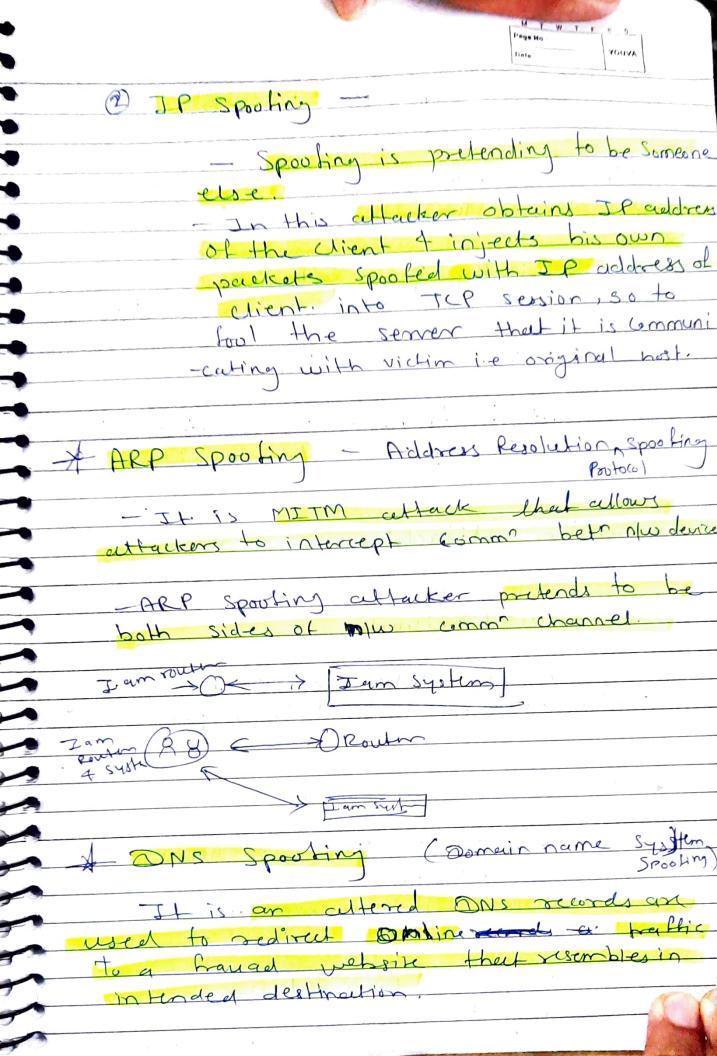
O keep slw + system @ Backup your data

3 keep your websites clean

(9) Scan web site for vulnerabilities

Page No: Date: YOUVA
Security Services
Ocyber Data Security Ocyber security assessments Ocompromise Assessment Services Omeromise Assessment Services Omeromise network Security Services
Protocol Vulnerabilities à
* Dos - Denial of Service Attack
In this afterk hacker makes the System or data unavailable to Someone who needs it.
Derouser Redirection Octosing Connection
3 Destruction (1) Resource esemblish
In this citterie computer Sends maisive amount of heaftic to victim's Computer & shutited down.
DOS DE Slower than Dos
Can block early

Date YOUVA
2 DOOS - Distributed (DOS)
machine or new resource unavailable to we user by sending massive haltic born diff devices.
many different Tocations wing many systems.
Dos is fayter than Dos
Difficult to black as multiple devices one sending puckets from multiple locations
* Session Hijacking "
over protected networks
backer taker control of user's boowing
session to gain access to their personal into
· Mays of Session hijacking
O Cross Site Scripting (XSS Attack)
Serion ID using XSS affack by wing
Java scriptific
Affaither sends crafted link to the viction with malicious is when viction cricks on link to with made day attacking instrument the instrument was attacken



6 Dinjects fake DNS entr-1 (9) Feeke website Representations to take website Real website to seed website Buffer overflow attack fill a block of memory with more than butto size = Storage that temporarily hold data while it is being transferred from loc to other Ransomware It is a type of malicious S/W that threats to publish or block access to data or a comp system usually by encoupting it, until victim pays a random fere to attacker.

Processor 1 2 5 5 Processor 1	
SYN Flood Altack	
My Synchronization M2	
- In SXN Flood attack Acknowledgement does not happen.	
- Type of Dos affact - also known as half open affact	
Sat Injection?	
This a code based Vulnerability that allows an attacker to read of access sensitive data from DB	
Attackers can by pass measures of apply 4 use sql quines to modifi add, update or delete records in DB.	y