OWASP TOP 10

() Injection

4) Command injection passive Cresult doesn't diployed to attacker

2) Broken outhentication

the same name of vidin by adding your lefore it (ie) "edith" as "pete dith". Then the attacker can after to access real vidin account yet a access to his content.

3) Senstire data exposserre

under lassets which can be downloaded a viewed.

G) XXE

4 Esternal xml imposion

9 trypes

in-bound out-of-bound

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Xml

() xw documents mostly starts with xwe prolog.

<? xml version = "1.0" entoding = "10T=-8"?>

I xul is used widely con date in xurl can be easily transported

6) Xnd allows validation using DTD & Schown, 9t helps as avoiding Syntax

Devory and document must have noot element.

9 are an use attendate in xand die ?

es) (note type " test "> this is simpleted note </ri>

atbulents Velus

	$\mathcal{DT}_{\mathcal{D}}$.
	- Gocument type definitions
	9 F definer structure of on xind decum and.
	Let us try to understand this with the help of an example. Say we have a file named note.dtd with the following content:
(noto-dld)	note [<!ELEMENT note (to,from,heading,body) ELEMENT to (#PCDATA) ELEMENT from (#PCDATA) ELEMENT heading (#PCDATA) ELEMENT body (#PCDATA)]> .
	Now we can use this DTD to validate the information of some XML document and make sure that the XML file conforms to the rules of that DTD. Ex: Below is given an XML document that uses note.dtd
actual	xml version="1.0" encoding="UTF-8"?
actual xne — Journent	note SYSTEM "note.dtd" <note></note>
Johnson	<pre><to>falcon</to> <freeding>hacking</freeding></pre>
	So now let's understand how that DTD validates the XML. Here's what all those terms used in note.dtd mean
	!DOCTYPE note - Defines a root element of the document named note !ELEMENT note - Defines that the note element must contain the elements: "to, from, heading, body"
	!ELEMENT to - Defines the to element to be of type "#PCDATA" !ELEMENT from - Defines the from element to be of type "#PCDATA" !ELEMENT heading - Defines the heading element to be of type "#PCDATA"
	!ELEMENT body - Defines the body element to be of type "#PCDATA"
	NOTE: #PCDATA means parseable character data.
	5) Broken Alcels Control
	Websites have pages that are protected from regular visitors, for example only the site's admin user should be able to
	access a page to manage other users. If a website visitor is able to access the protected page/pages that they are not
	authorised to view, the access controls are broken.
	9 force borowing to unauthorized velpages 5 IDOR This are comes under Broken down control.
	JDOR This are comes under Broken alous control.
	(\C + i, \ \ + \ '
	6.) Secrety Misconfiguration:
	It in cludes.

Cy Poorly configured permissions on cloud services, like S3 buckets
Having unnecessary features enabled, like services, pages, accounts or privileges
ل Default accounts with unchanged passwords
Error messages that are overly detailed and allow an attacker to find out more about the system
Not using HTTP security headers, or revealing too much detail in the Server: HTTP header Cy
1
T.) XSS
◆ Popup's (<script>alert("Hello World")</script>) - Creates a Hello World message popup on a users browser. Writing LITML (decorate the problem)
→ Writing HTML (document.write) - Override the website's HTML to add your own (essentially defacing the entire page).
XSS Keylogger (http://www.xss-payloads.com/payloads/scripts/simplekeylogger.js.html) - You can log all keystrokes of a user, capturing their password and other sensitive information they type into the webpage.
Port scanning (http://www.xss-payloads.com/payloads/scripts/portscanapi.js.html) - A mini local port scanner (more information on this is covered in the TryHackMe XSS room).
Note:
XSS-Payloads.com (http://www.xss-payloads.com/) is a website that has XSS related Payloads, Tools, Documentation and more. You can download XSS payloads that take snapshots from a webcam or even get a more capable port and network scanner.
in the same of the same
<pre><script>window.location.hostname</pre></td></tr><tr><td></script>document.cookies</pre>
<script>document.querySelector('#thm-title').textContent = 'I am a hacker'</script>
Select the element by id) get content
8.) Inserve Describization: + Esplained at the end.
9) Components with known Valnerallity
a Sometimes the prayrams and in some may have known
Wherabities.
any vulneralities are there for the particular versions of an be exploited.
 Exploit may also wailable on internet in most causes. (es) exploit DB)

	(o) Insufficient Joseph & Hanitaring. (b) If there is no lossing mechanisms enabled then it is easy for attacken to attack & destroy.
	C) we way to find attacker, if no logging is enabled. C> 9+ also helps in preventing attacks by detecting them.
8,)	Insecure Descrialization:
	Objects 2 home: "uncert" serviolization (a) unful for storing Beserviolization 2 tooms portation
	objects Strom of Bytes
	Interest secondigation: () Usually in browser, cookie is saved by The web server to get the state of the cases. (s) Ihis cookies are nothing best object which is saved in browser as streamed bits in files. (s) then cookies are transferred to sower, sower describing the stream of bits into object. Attacked was this scarried as, he made a crafted cookie and save it in browser, when sower asks for it indicates and the orbitary amused is executed at the sower side.
•	Nia Explanation: https://www.youtube.com/watch?v=jwzeJU_62IQ

> rethod vame & syntax may vary on Cookies: - I an be set using set - cookie mothered different Languages warno of whice value, Secure only Ex to set conto set then, works with the set only lent over the set time at cookie will only set
which the speaker path (we)
remared from is set c) popular library for similar ation a describlization pickle. demp (valie) 9+ soricliers the value

that 3

Pickle. load (Sorialized Ind.) - 91 1 " Pickle load (Socialised value) -> 9+ descridises the given value _ gredule - > It is called when object is sevidual dumped.

(less omnet of further explanation in video) bally in THM eg. G The Actual Scenario is, in web app the Cookie is encoded & saved in browser side (ie) socialized & it can be short to Sower if needed. c) Servor side cookie is descrialized. In THM eg.) to exploit that machine. ive encore of psylocal after serialization weing dump nethod from pickle and Then we get the result value as cookie. If some doesn't chede the tourt of the 60 bie 2 loopie we set has arbitacy Commande descrialises it. This is the problem Hore. So that we lbe retat which get the shall by exploiting this helps us to get neverse shell.