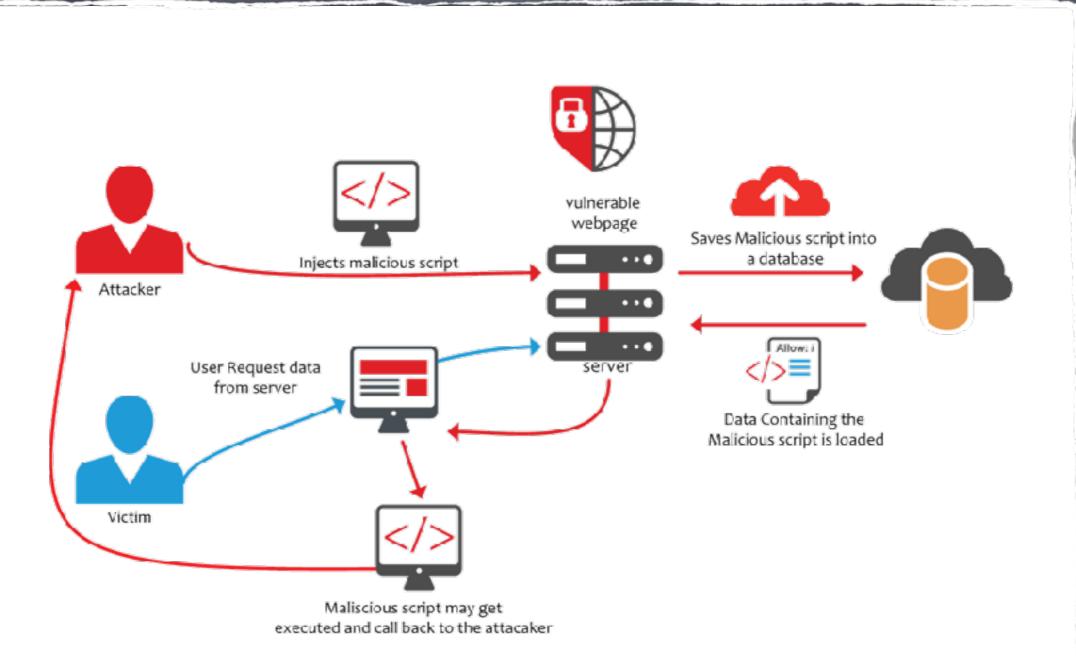
PHP SECULTILLY 3 Jupiter Zhuo

Prevent The Most Common Form of Altacks

- @ XSS
- @ Session Hijack Or CRSF
- @ Remote Code Injection

Cross Sile Scripting XSS Allacks



What We Covered

- ø XSS Stored
- o XSS Reflected
- o Protecting Form

XSS Secred

- o Fillering
 - o force the data type
 - o strip_tags(),preg_replace()
- o Validation
 - ø strlen, preg_match()

XSS CEFLECK

- o escape all user output
- o hemispecialchar()
- o hemlentities()

XSS Protecting

- ø Single Hash
- @ CaptchA
- ø HTML 5 Form Feature + Filtering & Validation

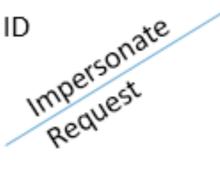
session hijack



Innocent User









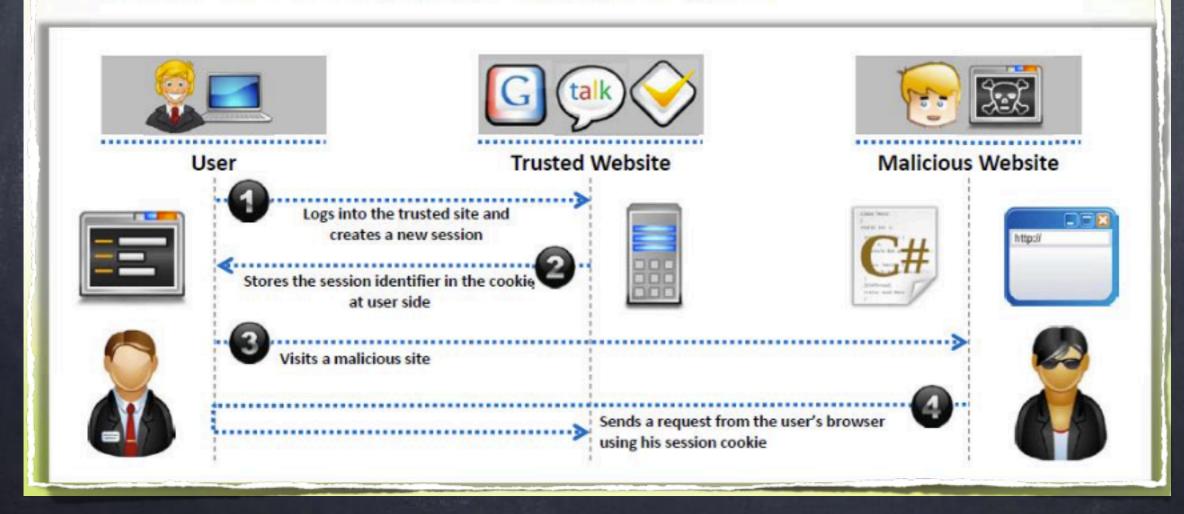
Website / Server



Black hat Hacker

CICSE Allock

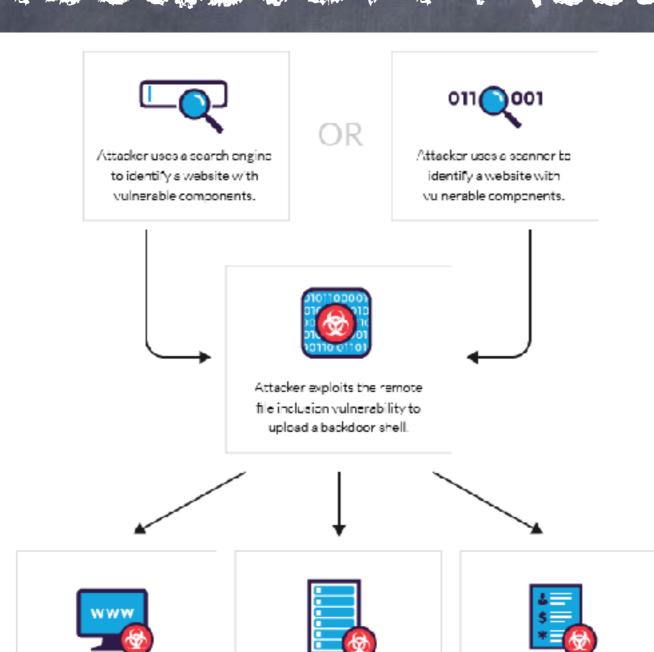
- Cross-Site Request Forgery (CSRF) attacks exploit web page vulnerabilities that allow an attacker to force an unsuspecting user's browser to send malicious requests they did not intend
- If user establishes a session with the trusted site and if he simultaneously visits a malicious site; then a malicious HTTP request is sent to the trusted site using user session that was established with the trusted site, this results in compromising the integrity of the application



How To Preventing Session Hijack & CRSF

- o Regenerating Session ID
- @ Providing Logout Option
- ø Keep Session Short Time
- o Session Profile

Remole File Inclusion Allack





Site is compromised

Malware is installed. Fages are defaced or deleted.



Server is hijacked

Server is used as a DEoS bot. Several sites are compromised.



Data is compromised

Passwords and information are stolen.

How To Preventing

- o Filter & Validate include file
- e build safe command using _DIR_
- a Settinng php.ini
 - o allow_url_fopen = Off
 - o allow_url_include = Off
 - o disable functions eval, phpinfo, exec, passthru,
 - o shell_exec, system, proc_open, popen,
 - o curl_exec, curl_multi_exec, parse_ini_file, show_source



- o Protect Shopping cart against XSS Attack
 - o Purchase Item click shopping cart
 - e Enter notes field with javascript
 - o open view/cart.php implementing filtering, validation and output escaping
- o Protect against char based Attack
 - o open index.php
 - ø set Char encoding to UTF-8

Lab

- o Secure the Login process against session hijacking
 - o open index.php
 - o regenerate session id
 - o open view/login.php
 - o Filter, validate, Escape all Input
 - o Add One time hash
 - o Add Captcha
 - · Attempt hijacking using another browser

Lab

- @ Protect Against Remote Code Injection
 - o open index.php
 - o create an array of allowed pages can be include
 - o validate all incoming file request
 - Test using contact us to upload phpinfo file after you fixed security bugs