Web-Pentesting-Checklist

Pre-Engagement

Rec	con & analysis
	Identify web server & technologies
	Subdomains Enumeration
	Directory enumeration
	Findleaked ids, emails (pwndb)
	Identify WAF
	Crawl all the site for interesting keywords like password, token, etc
	Test for debug parameters
	Identify data entry points
	Try to locate /robots.txt /crossdomain.xml /clientaccesspolicy.xml /phpinfo.php /sitemap.xml
	Review comments on source code
	Check /.git
	Shodan
	Google dorking
	Check waybackurls (gau and waybackurls)
Net	twork tests
	Check ICMP packets allowed
	Check DMARC policies (spoofcheck)
	Look services on other ports than 80 and 443
	Check UDP ports (<u>udp-proto-scanner</u> or nmap)
	Test SSL (<u>testssl</u>)
Pre	paration
	Study site structure
	Make a list with all possible test cases

User management

Registration

	Duplicate registration
	Overwrite existing user (existing user takeover)
	Username uniqueness
	Weak password policy
	Insufficient email verification process
	Weak registration implementation or allows disposable email addresses
	Fuzz after user creation to check if any folder have been overwritten or created with your profile name
	Add only spaces in password
Autl	hentication
	Username enumeration
	Resilience to password guessing
	Account recovery function
	"Remember me" function
	Impersonation function
	Unsafe distribution of credentials
	Fail-open conditions
	Multi-stage mechanisms
	SQL Injections
	Auto-complete testing
	Lack of password confirmation on change email, password or 2FA
	Weak login function over HTTP and HTTPS if both are available
	User account lockout mechanism on brute force attack
	Check for password wordlist (<u>cewl</u> and <u>burp-goldenNuggets</u>)
	Test 0auth login functionality for Open Redirection
	Test response tampering in <u>SAML</u> authentication
	In OTP check guessable codes and race conditions
	If <u>JWT</u> , check common flaws
	Browser cache weakness (eg Pragma, Expires, Max-age)

	Session handling
	Test tokens for meaning
	Test tokens for predictability
	Insecure transmission of tokens
	Disclosure of tokens in logs
	Mapping of tokens to sessions
	Session termination
	Session fixation
	Cross-site request forgery
	Cookie scope
	Decode Cookie (Base64, hex, URL etc.)
	Cookie expiration time
	Check HTTPOnly and Secure flags
	Use same cookie from a different effective IP address or system
	Access controls
	Effectiveness of controls using multiple accounts
	Insecure access control methods (request parameters, Referer header, etc)
	Check for concurrent login through different machine/IP
	Bypass AntiCSRFtokens
	Dypuss <u>immedia</u> senting
Pro □	file/Account details Find parameter with user id and try to tamper in order to get the details or
Pro	ofile/Account details Find parameter with user id and try to tamper in order to get the details of other users
	Find parameter with user id and try to tamper in order to get the details of other users Create a list of features that are pertaining to a user account only and try CSRF
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	Find parameter with user id and try to tamper in order to get the details of other users Create a list of features that are pertaining to a user account only and try CSRF Change email id and update with any existing email id. Check if its getting validated on server or not. Check any new email confirmation link and what if user doesn't confirm. File upload: Unsafe File upload, No Antivirus, No Size Limit, File extension.

	Metadata of all downloadable files
	Account deletion option and try to reactivate with "Forgot password" feature
	Try bruteforce enumeration when change any user unique parameter.
	Check application request re-authentication for sensitive operations Try parameter pollution to add two values of same field
_	
ınj	out handling
	Fuzz all request parameters
	Identify all reflected data
	Reflected XSS
	HTTP <u>header injection</u> in GET & POST (X Forwarded Host)
	Arbitrary redirection
	Stored attacks
	OS command injection
	Path <u>traversal</u>
	Script injection
	File inclusion
	SMTP injection
	Native software flaws (buffer overflow, integer bugs, format strings)
	SOAP injection
	LDAP injection
	XPath injection
	XXE in any request, change content-type to text/xml
	Stored XSS
	<u>SQL</u> injection
	<u>NoSQL</u> injection
	HTTP Request Smuggling
	Open redirect
	SSRF in previously discovered open ports
	xmlrpc.php DOS and user enumeration
	HTTP dangerous methods OPTIONS PUT DELETE

For	got password
	Invalidate session on Logout and Password reset
	Uniqueness of forget password reset link/code
	Reset links expiration time
	Find user id or other sensitive fields in reset link and tamper them
	Request 2 reset passwords links and use the older
	Check if many requests have sequential tokens
Err	or handling
	Access custom pages like /whatever_fake.php (.aspx,.html,.etc)
	Add multiple parameters in GET and POST request using different values
	Add "[]", "]]", and "[[" in cookie values and parameter values to create errors
	Generate error by giving input as "/~randomthing/%s" at the end of URL
	Use Burp Intruder "Fuzzing Full" List in input to generate error codes
	Try different HTTP Verbs like PATCH, DEBUG or wrong like FAKE
Ap	plication Logic
	Identify the logic attack surface
	Test transmission of data via the client
	Test for reliance on client-side input validation
	Thick-client components (Java, ActiveX, Flash)
	Multi-stage processes for logic flaws
	Handling of incomplete input
	Trust boundaries
	Transaction logic
	Implemented CAPTCHA in email forms to avoid flooding
	Tamper product id, price, or quantity value in any action (add, modify, delete, place, pay)
	Tamper gift or discount codes
	Reuse gift codes
	Try parameter pollution to use gift code two times in same request
	Try stored XSS in non-limited fields like address
	Check in payment form if CVV and card number is in clear text or masked

	Check if is processed by the app itself or sent to 3rd parts IDOR from other users details ticket/cart/shipment
	Check PRINT or PDF creation for IDOR
	Check unsubscribe button with user enumeration
	Parameter pollution on social media sharing links
	CORS (corsy)
	Change POST sensitive requests to GET
Ot	her checks
Hos	sting
	Segregation in shared infrastructures
	Segregation between ASP-hosted applications
	Web server vulnerabilities
	Dangerous HTTP methods
	Proxy functionality
	Virtual hosting misconfiguration
	Check for internal numeric IP's in request
	Check for external numeric IP's and resolve it
	References to <u>cloud</u> assets
CA	PTCHA
	Send old captcha value.
	Send old captcha value with old session ID.
	Request captcha absolute path like www.url.com/captcha/1.png
	Remove captcha with any adblocker and request again
	Bypass with OCR tool

Hea	ders	
	X-XSS-Protection	
	Strict-Transport-Security	
	Content-Security-Policy	
	Public-Key-Pins	
	X-Frame-Options	
	X-Content-Type-Options Perform Policy	
	Referer-Policy Cache-Control	
	Expires Expires	
	Z.i.p.i.v.	