

Bug Bounty Checklist for Web App

This checklist may help you to have a good methodology for bug bounty hunting

When you have done a action, don't forget to check ;)

Happy hunting !

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Recon on wildcard domain

- ☐ Run amass
- ☐ Run subfinder
- ☐ Run assetfinder
- ☐ Run dnsenum
- ☐ Run massdns
- ☐ Use httpprobe
- ☐ Run aquatone (screenshot for alive host)

Single Domain

Scanning

- ☐ Nmap scan
- ☐ Burp crawler
- ☐ ffuf (directory and file fuzzing)
- ☐ hakrawler/gau/paramspider
- ☐ Linkfinder
- ☐ Url with Android application

Manual checking

- ☐ Shodan
- ☐ Censys
- ☐ Google dorks
- ☐ Pastebin
- ☐ Github
- ☐ OSINT

Information Gathering

- ☐ Manually explore the site
- ☐ Spider/crawl for missed or hidden content
- ☐ Check for files that expose content, such as robots.txt, sitemap.xml, .DS_Store
- ☐ Check the caches of major search engines for publicly accessible sites
- ☐ Check for differences in content based on User Agent (eg, Mobile sites, access as a Search engine Crawler)
- ☐ Perform Web Application Fingerprinting
- ☐ Identify technologies used
- ☐ Identify user roles
- ☐ Identify application entry points
- ☐ Identify client-side code
- ☐ Identify multiple versions/channels (e.g. web, mobile web, mobile app, web services)
- ☐ Identify co-hosted and related applications
- ☐ Identify all hostnames and ports
- ☐ Identify third-party hosted content

- ☐ Identify Debug parameters

Configuration Management

- ☐ Check for commonly used application and administrative URLs
- ☐ Check for old, backup and unreferenced files
- ☐ Check HTTP methods supported and Cross Site Tracing (XST)
- ☐ Test file extensions handling
- ☐ Test for security HTTP headers (e.g. CSP, X-Frame-Options, HSTS)
- ☐ Test for policies (e.g. Flash, Silverlight, robots)
- ☐ Test for non-production data in live environment, and vice-versa
- ☐ Check for sensitive data in client-side code (e.g. API keys, credentials)

Secure Transmission

- ☐ Check SSL Version, Algorithms, Key length
- ☐ Check for Digital Certificate Validity (Duration, Signature and CN)
- ☐ Check credentials only delivered over HTTPS
- ☐ Check that the login form is delivered over HTTPS
- ☐ Check session tokens only delivered over HTTPS
- ☐ Check if HTTP Strict Transport Security (HSTS) in use

Authentication

- ☐ Test for user enumeration
- ☐ Test for authentication bypass
- ☐ Test for bruteforce protection
- ☐ Test password quality rules
- ☐ Test remember me functionality
- ☐ Test for autocomplete on password forms/input
- ☐ Test password reset and/or recovery
- ☐ Test password change process
- ☐ Test CAPTCHA
- ☐ Test multi factor authentication
- ☐ Test for logout functionality presence
- ☐ Test for cache management on HTTP (eg Pragma, Expires, Max-age)
- ☐ Test for default logins

- [] Test for user-accessible authentication history
- [] Test for out-of channel notification of account lockouts and successful password changes
- [] Test for consistent authentication across applications with shared authentication schema / SSO

Session Management

- [] Establish how session management is handled in the application (eg, tokens in cookies, token in URL)
- [] Check session tokens for cookie flags (httpOnly and secure)
- [] Check session cookie scope (path and domain)
- [] Check session cookie duration (expires and max-age)
- [] Check session termination after a maximum lifetime
- [] Check session termination after relative timeout
- [] Check session termination after logout
- [] Test to see if users can have multiple simultaneous sessions
- [] Test session cookies for randomness
- [] Confirm that new session tokens are issued on login, role change and logout
- [] Test for consistent session management across applications with shared session management
- [] Test for session puzzling
- [] Test for CSRF and clickjacking

Authorization

- [] Test for path traversal
- [] Test for bypassing authorization schema
- [] Test for vertical Access control problems (a.k.a. Privilege Escalation)
- [] Test for horizontal Access control problems (between two users at the same privilege level)
- [] Test for missing authorization

Data Validation

- [] Test for Reflected Cross Site Scripting
- [] Test for Stored Cross Site Scripting
- [] Test for DOM based Cross Site Scripting
- [] Test for Cross Site Flashing
- [] Test for HTML Injection
- [] Test for SQL Injection

- ☐ Test for LDAP Injection
- ☐ Test for ORM Injection
- ☐ Test for XML Injection
- ☐ Test for XXE Injection
- ☐ Test for SSI Injection
- ☐ Test for XPath Injection
- ☐ Test for XQuery Injection
- ☐ Test for IMAP/SMTP Injection
- ☐ Test for Code Injection
- ☐ Test for Expression Language Injection
- ☐ Test for Command Injection
- ☐ Test for Overflow (Stack, Heap and Integer)
- ☐ Test for Format String
- ☐ Test for incubated vulnerabilities
- ☐ Test for HTTP Splitting/Smuggling
- ☐ Test for HTTP Verb Tampering
- ☐ Test for Open Redirection
- ☐ Test for Local File Inclusion
- ☐ Test for Remote File Inclusion
- ☐ Compare client-side and server-side validation rules
- ☐ Test for NoSQL injection
- ☐ Test for HTTP parameter pollution
- ☐ Test for auto-binding
- ☐ Test for Mass Assignment
- ☐ Test for NULL/Invalid Session Cookie

Denial of Service

- ☐ Test for anti-automation
- ☐ Test for account lockout
- ☐ Test for HTTP protocol DoS
- ☐ Test for SQL wildcard DoS

Business Logic

- ☐ Test for feature misuse

- ☐ Test for lack of non-repudiation
- ☐ Test for trust relationships
- ☐ Test for integrity of data
- ☐ Test segregation of duties

Cryptography

- ☐ Check if data which should be encrypted is not
- ☐ Check for wrong algorithms usage depending on context
- ☐ Check for weak algorithms usage
- ☐ Check for proper use of salting
- ☐ Check for randomness functions

Risky Functionality - File Uploads

- ☐ Test that acceptable file types are whitelisted
- ☐ Test that file size limits, upload frequency and total file counts are defined and are enforced
- ☐ Test that file contents match the defined file type
- ☐ Test that all file uploads have Anti-Virus scanning in-place.
- ☐ Test that unsafe filenames are sanitised
- ☐ Test that uploaded files are not directly accessible within the web root
- ☐ Test that uploaded files are not served on the same hostname/port
- ☐ Test that files and other media are integrated with the authentication and authorisation schemas

Risky Functionality - Card Payment

- ☐ Test for known vulnerabilities and configuration issues on Web Server and Web Application
- ☐ Test for default or guessable password
- ☐ Test for non-production data in live environment, and vice-versa
- ☐ Test for Injection vulnerabilities
- ☐ Test for Buffer Overflows
- ☐ Test for Insecure Cryptographic Storage
- ☐ Test for Insufficient Transport Layer Protection
- ☐ Test for Improper Error Handling
- ☐ Test for all vulnerabilities with a CVSS v2 score > 4.0
- ☐ Test for Authentication and Authorization issues
- ☐ Test for CSRF

HTML 5

- ☐ Test Web Messaging
- ☐ Test for Web Storage SQL injection
- ☐ Check CORS implementation
- ☐ Check Offline Web Application

Source:

[OWASP](#)