

SECGURU – Web Application Cheat Sheet

Reconnaissance	Parameter Checklist	Session Management	Access Control	Mis-Configuration
 ▶ Application & Version ▶ Web Components ▶ Domain Structure ▶ SSL Support? If yes, then what version & ciphers. ▶ Complete check of information returned in error messages ▶ Guess application logic through errors codes and messages. ▶ Gain database information ▶ Any Critical Data passed over non-ssl? ▶ Chances of Web Application use via public kiosk? What information is available from cache/temp folders? ▶ Valuable Phishing Target? ▶ Provision for Auto-Logon? 	 ▶ URL request ▶ URL encoding ▶ Query string ▶ Header ▶ Cookie □ Expire Time □ Secure □ Persistent ▶ Form fields □ Type □ Length □ Format □ Range ▶ Hidden field ▶ Only Client side validation? ▶ 'Tainted' parameters ▶ Min/Max lengths ▶ Concatenate commands 	 ▶ Token protection ▶ Session Duration ▶ Idle time Duration ▶ Guess Session ID format ▶ Transfer in URL or BODY? ▶ Is Session Id linked to the IP? ▶ Session X'fer (sso application) ▶ Change Referrer tag ▶ Examine □ Token □ Cookie □ SSID ▶ Serialized Objects ▶ Conduct replay attack ▶ Concurrent Logins ▶ Separate Personalization and session cookies ▶ Encrypted Cookies, Marked Secure? ▶ Using Cache-Control Pragma? 	 ▶ Flaws in access control? ▶ Check for path transversal ▶ Determine file permissions ▶ Direct Access to Conf Files ▶ Is critical data secured and encrypted? ▶ Access points □ Regular users □ Admin access □ Any other? ▶ Ability to brute force at the discovered access points. ▶ Forced browsing, does application keep a check by tracking request from each user ▶ No Access to system level resources ▶ Determine access to content and functions, should match company policies. 	 Nikto results Nessus results Investigate Patch Levels Directory listing Directory permission Detailed Error messages Default username/pass SSL cert. Configuration Debug or configuration Files Check Latest vulnerabilities Unwanted Backup files Defaults files Services Remote admin. Access
Credential Management	Authentication	OS calls	SQL injection	XSS
 ▶ Password storage ▶ Password change ▶ User Update section ▶ Password strength ▶ Lockout policy ▶ Login attempts allowed ▶ Account Mgmt. Policies 	 Un-Encrypted Auth Backend Authentication Using Least privilege account Any Trust relationships Use of Encryption Text password in HTML Text Password in Config Ability to bypass auth with spoofed tokens 	 Using any interpreter? OS service calls (e.g. Sendmail) Mirror and search code for all calls to external sources. Privileges given to other services and web server. Deconstruction of binary codes (if any) 	 Using Least privilege account Mirror website and search for all input parameters Gain database related information Detailed Error Messages Privileges given to the web server or database Access only to stored procedures Safe failure in case of exception 	 Which type – stored or reflected Check for 404/500 error pages for return information. Input validation checks □ Type □ Length □ Format □ Range Safe failure in case of exception.