Vulnerability Analysis

- a. Perform vulnerability research with vulnerability scoring systems and databases
 - i. Perform vulnerability research in Common Weakness Enumeration (CWE)
 - https://cwe.mitre.org/
 - ii. Perform vulnerability research in Common Vulnerabilities and Exposures (CVE)
 - https://cve.mitre.org/
 - iii. Perform vulnerability research in National Vulnerability Database (NVD)
 - https://nvd.nist.gov/
- b. <u>Perform vulnerability assessment using various</u>
 vulnerability assessment tools
 - i. Perform vulnerability analysis using OpenVAS
 - ii. Perform vulnerability scanning using Nessus
 - iii. Perform web servers and applications vulnerability scanning using CGI Scanner Nikto
 - nikto -h [Target website] -Tuning x
 (The -Tuning option in Nikto allows you to fine-tune which types of tests are run. The letter x in this case means that all types of checks will be performed (i.e., no filtering, so Nikto will run all its tests).)
 - nikto -h [Target website] -Cgidirs all
 (-Cgidirs all: This option tells Nikto to check for CGI directories. CGI (Common Gateway Interface) is a standard for running external programs (usually scripts) via web servers. Using all will have Nikto scan all potential CGI directories it knows about, instead of just the default ones.)
 - nikto -h [Target website] -o result.txt -F txt