

TTKS0700 Data Security Testing

Lab 03. Vulnerability scan

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Lab 03. Vulnerability scan

Vulnerability scan

- GOAL
 - To understand basics of the VULNERABILITY SCANNING
 - To learn basics of OPENVAS
- In this document
 - RED color = TASK
 - BLUE color = TIP
 - Green color = Example

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Watch the tutorial!

- <https://www.youtube.com/watch?v=-2vjsHmq3ak>
- Follow the tutorial and get your scanner up and running!!

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Vulnerabilities

- Look at the following links and learn the basic/common terminology
 - <https://nvd.nist.gov/>
 - <https://cve.mitre.org/>
 - <https://nvd.nist.gov/vuln-metrics/cvss>
 - <https://nvd.nist.gov/config/cce/index>
 - <https://cwe.mitre.org/data/index.html>
- Terms
 - Common Platform Enumeration (CPE)
 - Common Vulnerability Enumeration (CVE)
 - Common Vulnerability Scoring System (CVSS)
 - Common Configuration Enumeration (CCE)
 - Common Weakness Enumeration (CWE)

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Vulnerabilities

- <https://www.cvedetails.com/vulnerabilities-by-types.php>
1. Use searches (or browse vulnerabilities) to look recent vulns.
 2. Select one software from your computer
Use search to find vulnerabilities related to the software/vendor

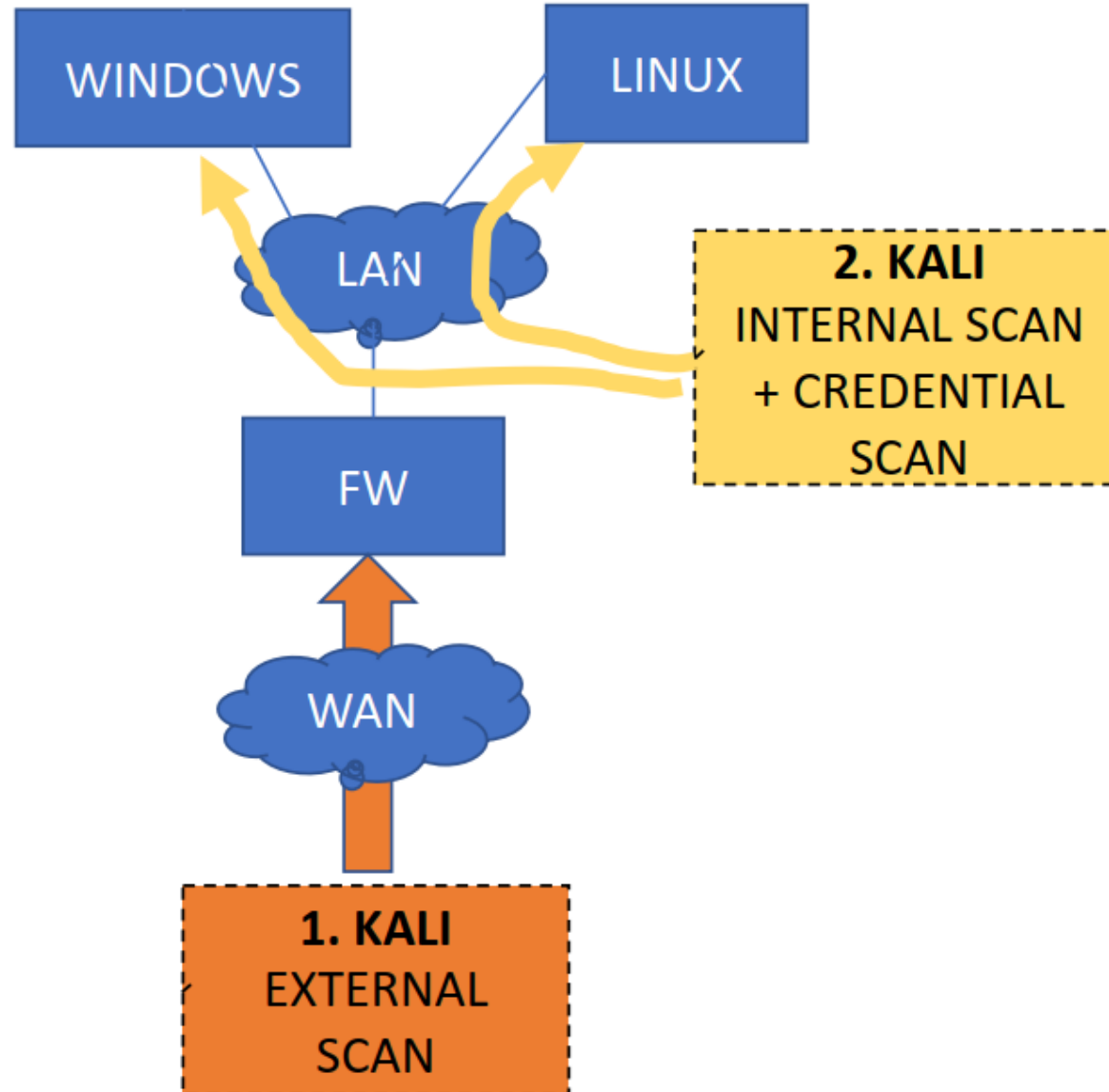
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Feeds

- <https://community.greenbone.net/t/about-greenbone-community-feed-gcf/1224>
 - Login as guest: <https://secinfo.greenbone.net/>
- "It contains more than 50,000 NVTs, growing on a permanent basis"
- "For online-synchronisation use the command `greenbone-nvt-sync` to update your local NVTs"

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Setup



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External & Internal scan

- Run three different scans
 - 1. EXTERNAL scan from outside the firewall
 - 2. INTERNAL scan from internal network (against windows or linux – or both)
 - 3. RUN Credential scan (against windows or linux – or both)
- SELECT 3 different vulnerabilities that you found, and analyze those
 - CVSS metrics – what does it tell?
 - Look at the details of the results – what are the
 - IMPACTS
 - SOLUTIONS
 - VULNERABILITY DETECTION METHODS

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