

## 1.1 Overview of Nessus :

Nessus is a widely used vulnerability scanner developed by Tenable, designed to identify security weaknesses in systems, networks, and applications. It helps cybersecurity professionals detect vulnerabilities, misconfigurations, and compliance issues before attackers can exploit them.

### How Nessus Works :

**Target Selection** : The user specifies the IP addresses, domains, or systems to scan.

**Scanning Process** : Nessus runs automated tests to find vulnerabilities, such as:

- Outdated software
- Open ports
- Misconfigured security settings
- Weak passwords

**Report Generation** : After scanning, Nessus provides a detailed report with:

- Vulnerability descriptions
- Severity levels (Critical, High, Medium, Low)
- Recommended fixes and patches