

Technology Stack:

Tools Explored for Cybersecurity Project

Here are some of the key cybersecurity tools categorized based on their purpose:

1. Asset Discovery Tools:
 - Nmap: A powerful network scanning tool used to discover hosts and services on a network, providing information about open ports and running services.
 - Angry IP Scanner: A fast and simple tool for scanning IP addresses and ports to identify active devices on a network.
2. Vulnerability Scanning Tools:
 - Nessus: A widely used vulnerability scanner that identifies vulnerabilities, misconfigurations, and compliance issues across various systems.
 - Qualys: A cloud-based vulnerability management tool that provides continuous monitoring and scanning for vulnerabilities.
 - OpenVAS: An open-source vulnerability scanner that offers a comprehensive suite for vulnerability assessment and management.
 - Burp Suite: A popular tool for web application security testing, including vulnerability scanning and manual testing capabilities.
3. Web Application Security Tools:
 - OWASP ZAP (Zed Attack Proxy): An open-source web application security scanner that helps find vulnerabilities in web applications during development and testing.
 - Acunetix: A commercial web application security scanner that identifies vulnerabilities such as SQL injection and cross-site scripting (XSS).
4. Configuration and Compliance Assessment Tools:
 - CIS-CAT (Center for Internet Security Configuration Assessment Tool): A tool that assesses system configurations against CIS benchmarks to ensure compliance with security best practices.
 - Puppet or Chef: Configuration management tools that can help automate the enforcement of security policies and configurations across systems.
5. Penetration Testing Tools:
 - Metasploit: A penetration testing framework that allows security professionals to find and exploit vulnerabilities in systems.
 - Kali Linux: A Linux distribution specifically designed for penetration testing and security auditing, containing numerous tools for vulnerability assessment.
6. Continuous Monitoring Tools:
 - Splunk: A powerful platform for searching, monitoring, and analyzing machine-generated data, useful for continuous security monitoring.