

Russell Rickards

CS4630.06

Prof. Than Nguyen

March 1, 2024

Undergrad Seminar – Abstract

Topic: Endpoint Vulnerability Scanning / Detection

This presentation delves into various aspects of endpoint vulnerability scanning tools, encompassing web and endpoint vulnerability scanning, along with the differentiation between authenticated and unauthenticated scans. It explores the prioritization of vulnerabilities using Common Vulnerabilities and Exposures (CVE), the Common Vulnerability Scoring System (CVSS), and the vulnerability/risk formula. We will also cover identifying vulnerabilities, found through scans and code analysis, and their application in different areas such as Information Access Management (IAM), Security Information and Event Management (SIEM), End Point Protection, and considering human factors in web vulnerability scanning. The Incident Response Planning (IPR) process covers the constraint, recovery, investigation, notification, and remediation phases. Looking ahead, we address the current state of endpoint vulnerability scanning tools, highlighting the need for manual analysis, the ongoing adoption of AI integration for automated scans, and the envisioned future where tools will seamlessly integrate AI assistance, providing comprehensive coverage in a unified platform.