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- Show Name: CEHv12 (312-50)
- Topic Name: System Hacking Phases and Attack Techniques - Vulnerability Analysis
- Episode Name: Vulnerability Assessment Models and Tools

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Vulnerability Assessment Models and Tools

Objectives:

- Define and describe the philosophical and tactical difference between VA solution models
 - Describe the attributes of an effective VA solution
 - List and define the common types of Vulnerability Assessment tools
 - Identify the criteria for choosing a Vulnerability Assessment tool
 - Recognize industry standard VA tools
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- What types of Vulnerability Assessment Models do we need to be aware of?
 - Product-Based Methods
 - Install the VA software locally/internally
 - Won't be able to give you an 'outside-in' assessment
 - Service-Based Methods
 - 3rd-party runs scans
 - Both inside and outside assessments
 - Opens visibility into air-gapped systems
 - What types of Vulnerability Assessments **strategies** do we need to be aware of?
 - Tree-based
 - Multiple scans are run
 - Scans are customized to the host/service/database
 - Inference-based
 - Scanner starts broad and utilizes discovered info to infer the next step
 - Find host
 - Discover protocols
 - Enumerate open ports
 - Enumerate service
 - Employ known vulns against service
 - What Vulnerability Assessment tools types do we need to be aware of?
 - Host-based
 - Depth assessment
 - Discovers new vulnerabilities
 - Fuzzers
 - Application-layer
 - Web app assessment
 - Database assessment
 - Mobile Assessment Tools
 - Location and Data Examination Tools
 - Network-based

- oddly enough is only able to scan the host it's installed on
- Agent-based
 - Scans the local host or can scan other hosts on the network
- Proxy scanner
 - Can scan the network from any machine on the network
- Cluster scanner
 - Same as proxy, but can scan multiple machines at one time