- Filename: eccouncil-ceh31250-v11-5-5-1-vulnerability-assessment-models-and-tools.md
- Show Name: CEHv11 (312-50)
- Topic Name: System Hacking Phases and Attack Techniques Vulnerability Analysis
- Episode Name: Vulnerability Assessment Models and Tools

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
- 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