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 - Show Name: CEHv10 (312-50)
 - Topic Name: Information Gathering and Vulnerability Identification
 - Episode Name: Vulnerability Analysis Concepts
 - Description: In this episode, Daniel and Zach explore concepts that pertain to performing a Vulnerability Assessment. Here they will discuss the difference between a vulnerability scan and a penetration test as well as take you through the Vulnerability Management Life-Cycle which defines the steps taken during the Pre-assessment, Assessment, and Post-Assessment phases.
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Vulnerability Analysis Concepts

- **What is a vulnerability assessment and how does it differ from a Penetration test?**

- Only looks to discover vulns
 - Categorize them
 - OS vuln
 - Configuration issues
 - Patch management
 - App vuln
 - Prioritize mitigation
- Pentests attempt to exploit vulns

- **What types of vulnerability assessments should we be aware of?**

- External
- Internal
- Web App/Application
- Network/Wireless

- **How do we begin preparing for a Vulnerability Assessment?**

- We have to understand the Vulnerability Management life cycle
 - DIAGRAM
 - Baselines/Pre-assessment
 - Learn the client's business
 - What kind of business are they?
 - How do they operate?
 - What security controls are in place already?
 - Scope
 - Define what apps, devices, services, data are in scope
 - Scheduling
 - When can you perform assessment?

- **Now that we have the pre-assessment phase squared away, what can we expect in the actual assessment phase?**

- Depends on what controls, processes, apps, services, etc that are in scope
 - Scan for known vulnerabilities in...
 - Apps/Web Apps
 - OS
 - Scan for misconfigurations
 - Physical site security

- Once you have those results...
 - Prioritize vulns
 - Contextualize to stakeholders how vulns could impact their business
 - In a way they will understand
 - Written and/or Verbal reports
 - Validation may be required
- **Now that we've performed our vulnerability assessment and we have all these vulnerabilities, how do we handle that information?**
 - Perform post-assessment activities
 - Engage in Risk Assessment
 - Determine threat, risk, and impact levels
 - Remediate
 - Prioritize
 - Develop mitigation strategy
 - Perform mitigations
 - After action report
 - Develop processes/procedures/training to prevent future risk
 - Verification
 - Check to see that mitigations are effective
 - Monitoring
 - IDS/IPS
 - Ensure processes/procedures/policies/controls are being adhered to