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- Show Name: CEHV11 (312-50)
- Topic Name: Intro to Ethical Hacking
- Episode Name: Threat Modeling

Threat Modeling

Objectives:

- Define Threat Modeling
 - List and describe the 5 steps in the Threat Modeling process
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- I know we've talked a bit about Threat Modeling in other episodes, but can you just give us a quick reminder of what Threat Modeling is?
 - A systematized approach to assess the risk/security of an organization
 - Know thy enemy
 - What are the common/most likely attack methods
 - The more detail the better
 - Know thyself
 - Where are we vulnerable
 - What are the steps in the Threat Modeling process?
 1. Identify security objectives
 - What needs to be secured?
 - Any regulatory or policy compliance requirements?
 2. Application overview
 - Identify:
 - Roles
 - Who will be using this?
 - Usage scenarios
 - How will this be used normally?
 - How could this be misused?
 - Technologies
 - OS
 - Supporting Apps and services
 - Network technologies
 - Security mechanisms
 - Authentication
 - Authorization
 - Input validation
 - Encryption
 3. Decompose the application
 - Diagrams help here

- Identify
 - Trust boundaries
 - Data flows
 - Entry points
 - Exit points
- 4. Identify threats
- 5. Identify Vulnerabilities
- This sounds like a lot of work to develop. Are there any standard models for us to use as a guide?
 - STRIDE
 - <https://blog.eccouncil.org/what-is-stride-methodology-in-threat-modeling/>
 - PASTA (Process for Attack Simulation and Threat Analysis)
 - <https://blog.eccouncil.org/what-is-pasta-threat-modeling/>
 - DREAD
 - <https://blog.eccouncil.org/dread-threat-modeling-an-introduction-to-qualitative-and-quantitative-risk-analysis/>