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 - Show Name: CEHV11 (312-50)
 - Topic Name: System Hacking Phases and Attack Techniques - System Hacking
 - Episode Name: Exploitation: Buffer Overflows
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Exploitation: Buffer Overflows

Objectives:

- Summarize the concepts of a Buffer Overflow
 - List common tools and techniques used in Buffer Overflow exploit development
 - List common protections used to prevent Buffer Overflows
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- What is a buffer overflow?
 - Improper memory space allocation
 - No bounds checking
 - Allows data allocated for one memory space to spill over into another
 - If this can be controlled, arbitrary code execution can be achieved
- What kind of tools are used to create a buffer overflow?
 - Network Sniffers
 - Debuggers
 - Programming languages
- Walk us through a simple buffer overflow
- How can we protect against buffer overflows?
 - DEP (Data Execution Protection)
 - ASLR (Address Space Layout Randomization)
 - Static code analysis
 - Safe coding practices
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