- Filename: eccouncil-ceh31250-v11-6-4-1-password-extraction-and-cracking.md
- Show Name: CEHv11 (312-50)
- Topic Name: System Hacking Phases and Attack Techniques System Hacking
- Episode Name: Password Hash Extraction and Cracking

Password Extraction and Cracking

Objectives:

- · List common tools utilized to extract password hashes
- Utilize password hash extraction tools to retrieve password hashes
- Explain the process of LLMNR/NBT-NS Poisoning
- · Utilize freely available tools to execute LLMNR poisoning attack
- · Define password salting
- List and explain common password policies used to defend against password attacks
- How do we get the password hashes from target computers?
 - Post-compromise activity (usually)
 - Windows Tools
 - pwdump7
 - fgdump
 - mimikatz
 - responder
 - Linux
 - cat
 - Web/Database attacks
 - Attacker could retrieve hashes from insecure web app
- How do we crack these hashes to reveal the passwords?
 - o John the Ripper
 - Dictionary
 - Rules
 - o OCL-Hashcat
 - Brute
 - Ophcrack
 - Rainbow Tables
 - Pass-the-Hash
 - Don't even need to crack the hash
 - Some systems will just use the hash
- Any good countermeasures?
 - o Good password policies
 - Sufficient length
 - Sufficient character sets
 - No dictionary words
 - Salt

- Any other ways to grab passwords?
 - Key loggers
 - Software-based
 - Hardware-based