

- Filename: eccouncil-ceh31250-v10-6-6-1-covering_tracks.md
- Show Name: CEHv10 (312-50)
- Topic Name: Attacks and Exploits
- Episode Name: Covering Tracks
- Description: In this episode, Daniel and Zach discuss techniques and tactics for covering your tracks after you've breached a system. Here you'll learn how to remove traces of your activities by disabling auditing systems and clearing logs.

Covering Tracks

- **If we are hired to perform a penetration test, why would we need to cover our tracks?**
 - Various reasons
 - True Red Team activity
 - To test the Blue Team's ability to discover a breach
- **So how would one go about covering one's tracks?**
 - Disable auditing mechanisms
 - Prevents logging at all
 - Clear logs
 - Removes logs that attacker creates
 - Wholesale removal
 - Selective removal
 - Falsify logs
 - Change the log's attributes with false information
- **Can you demonstrate some of these techniques for us?**
 - Disable auditing
 - `export HISTSIZE=0`
 - `auditpol \\\computername /audit_object:all /disable`
 - Audit Objects
 - system
 - account
 - policy
 - directory
 - logon
 - object access
 - sam
 - privilege
 - process
 - Clearing event logs
 - `echo " " > /var/log/syslog`
 - Metasploit `clearev`
 - Clears all Windows Event logs
 - Windows Cmd shell: `webtutil cl Application`
 - Clears Application logs
 - Clearing specific log entries

- `sed -i '/revshell/d' /var/log/auth.log`
- Alter or forge log entries
- Erase shell history
 - `history -c`
 - Clears history
 - `history -w`
 - Clears current shell history
 - `echo " " > ~/.bash_history`
 - `history -c`
 - Windows: `Alt+F7` clears cmd history
 - PS\$:> `Clear-History`
- Destroy files
 - Secure overwrite with zeros
 - Linux: `shred -zu filename`
 - Windows: `format d: /fs:NTFS /p:1`
- Change timestamps
 - Meterpreter: `timestomp filename -z "08/29/2018 15:22:43"`
 - Changes all MACE values
 - Modified, Access, Created, Entry-modified