



BROKEN AUTHENTICATION CHEAT SHEET

Categories of Authentication

- Knowledge: passwords, PINs, ...
- Ownership: ID cards, TOTP
- Inherence: Biometric authentication

Brute-Force Attacks

- User Enumeration
- Brute-Forcing Passwords
- Brute-Forcing Password Reset Tokens
- Brute-Forcing 2FA Codes
- Bypassing Brute-Force Protection
 - Rate Limit: **X-Forwarded-For** HTTP Header
 - CAPTCHAs: Look for CAPTCHA solution in HTML code

Password Attacks

- Default Credentials
 - [CIRT.net](https://cirt.net)
 - [SecLists Default Credentials](#)
 - [SCADA](#)
- Vulnerable Password Reset
 - Guessable Security Questions
 - Username Injection in Reset Request

Authentication Bypasses

- Accessing the protected page directly
- Manipulating HTTP Parameters to access protected pages

Session Attacks

- Brute-Forcing cookies with insufficient entropy

- Session Fixation
 - Attacker obtains valid session identifier
 - Attacker coerces victim to use this session identifier (social engineering)
 - Victim authenticates to the vulnerable web application
 - Attacker knows the victim's session identifier and can hijack their account
- Improper Session Timeout
 - Sessions should expire after an appropriate time interval
 - Session validity duration depends on the web application