

Module 3

1. Authentication Technologies
2. Design Flaws in Authentication Mechanisms
 - a. Bad Passwords
 - i. Discussion
 - ii. Example
 - b. Brute-Forcible Login
 - i. Discussion
 - ii. Example
 - c. Verbose Failure Messages
 - i. Discussion
 - ii. Example
 - d. Vulnerable Transmission of Credentials
 - i. Discussion
 - ii. Example
 - e. Password Change Functionality
 - i. Discussion
 - ii. Example
 - f. Forgotten Password Functionality
 - i. Discussion
 - ii. Example
 - g. “Remember Me” Functionality
 - i. Discussion
 - ii. Example
 - h. User Impersonation Functionality
 - i. Discussion
 - ii. Example
 - i. Incomplete Validation of Credentials
 - i. Discussion
 - ii. Example
 - j. Nonunique Usernames
 - i. Discussion
 - ii. Example
 - k. Predictable Usernames
 - i. Discussion
 - ii. Example

1. Predictable Initial Passwords
 - i. Discussion
 - ii. Example
- m. Insecure Distribution of Credentials
 - i. Discussion
 - ii. Example
3. Password cracking tools
 - i. Discussion
 - ii. Example