

## Module 4

1. Need of the State
  - a. Discussion
  - b. Examples
2. Alternatives to Sessions
  - a. Discussion
3. Scenarios of Unpredictability of tokens generation
  - a. Examples
4. Meaningful Tokens
  - a. Discussion
  - b. Examples
5. Hacking into session tokens
6. Encrypted Tokens
  - a. ECB
    - i. Discussion
    - ii. Example
7. Predictable Tokens
  - a. Discussion
8. Predictable session tokens from three different sources
  - a. Concealed sequences
  - b. Time dependency
  - c. Weak random number generation
9. Weaknesses in Session Token Handling
  - a. Discussion
  - b. Examples
10. Securing Session Management
  - a. Generate Strong Tokens
  - b. Protect Tokens throughout Their Lifecycle