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Computer Security: Principles and Practice, 3rd Edition

Chapter 3

Chapter 3 – User Authentication

TRUE/FALSE QUESTIONS:

| T | F | 1. User authentication is the fundamental building block and the primary line of defense. |
|---|---|---|
| T | F | 2. Identification is the means of establishing the validity of a claimed identity provided by a user. |
| T | F | 3. Depending on the details of the overall authentication system, the registration authority issues some sort of electronic credential to the subscriber. |
| T | F | 4. Many users choose a password that is too short or too easy to guess. |
| T | F | 5. User authentication is a procedure that allows communicating parties to verify that the contents of a received message have not been altered and that the source is authentic. |
| T | F | 6. A good technique for choosing a password is to use the first letter of each word of a phrase. |
| T | F | 7. User authentication is the basis for most types of access control and for user accountability. |
| T | F | 8. Memory cards store and process data. |
| T | F | 9. Depending on the application, user authentication on a biometric system involves either verification or identification. |
| T | F | 10. Enrollment creates an association between a user and the user's biometric characteristics. |
| T | F | 11. An individual's signature is not unique enough to use in biometric applications. |
| T | F | 12. Identifiers should be assigned carefully because authenticated identities are the basis for other security services. |
| T | F | 13. A smart card contains an entire microprocessor. |

| Γ | F | 14. Keylogging is a form of h | ost attack. |
|-----------|---------------|--|---|
| Т | F | 15. In a biometric scheme sor mapped into a digital repr | me physical characteristic of the individual is esentation. |
| <u>MU</u> | <u>LTIPLI</u> | E CHOICE QUESTIONS: | |
| 1 | l | on as "the process of verifying an identity | |
| | | A. RFC 4949 | C. RFC 2298 |
| | | B. RFC 2493 | D. RFC 2328 |
| 2 | | enting or generating authentication een the entity and the identifier is | on information that corroborates the binding s the |
| | | A. identification step | C. verification step |
| | | B. authentication step | D. corroboration step |
| 3 | 3. Reco | ognition by fingerprint, retina, and | d face are examples of |
| | | A. face recognition | C. dynamic biometrics |
| | | B. static biometrics | D. token authentication |
| 4 | l. A | is a password guessing | program. |
| | | A. password hash | C. password cracker |
| | | B. password biometric | D. password salt |
| 5 | | | rs are told the importance of using hard to uidelines for selecting strong passwords. |
| | | A. reactive password checkin | g C. proactive password checking |

B. computer-generated password D. user education

| passw | A strategy is one in which the system periodically runs its own password cracker to find guessable passwords. | | | |
|-----------|---|--|--|--|
| | A. user education | C. proactive password checking | | |
| | B. reactive password checking | ng D. computer-generated password | | |
| 7. The mo | ost common means of human- | to-human identification are | | |
| | A. facial characteristics | C. signatures | | |
| | B. retinal patterns | D. fingerprints | | |
| | systems identify feature idths of fingers. | es of the hand, including shape, and lengths | | |
| | A. Signature | C. Hand geometry | | |
| | B. Fingerprint | D. Palm print | | |
| | A. verified | C. authenticated | | |
| be | in the system. A. verified | C. authenticated | | |
| | B. identified | D. enrolled | | |
| | | | | |
| 10. To co | | uthentication, systems generally rely on some | | |
| | | | | |
| | of protocol. | uthentication, systems generally rely on some | | |
| form o | A. eavesdropping B. challenge-response is when an adversar | uthentication, systems generally rely on some C. Trojan horse | | |
| form o | A. eavesdropping B. challenge-response is when an adversar | thentication, systems generally rely on some C. Trojan horse D. denial-of-service y attempts to achieve user authentication | | |

| | 12. A is directed at the us passcodes, or biometric templates a | ser file at the host where passwords, token are stored. | | |
|----|---|---|--|--|
| | A. eavesdropping attack | C. denial-of-service attack | | |
| | B. client attack | D. host attack | | |
| | 13. A attack involves an a response. | adversary repeating a previously captured use | | |
| | A. client | C. replay | | |
| | B. Trojan horse | D. eavesdropping | | |
| | 14. An institution that issues debit card cardholder's account and authorizing | ds to cardholders and is responsible for the ng transactions is the | | |
| | A. cardholder | C. auditor | | |
| | B. issuer | D. processor | | |
| | 15 allows an issuer to ac connect point of sale devices and b | cess regional and national networks that ank teller machines worldwide. | | |
| | A. EFT | C. POS | | |
| | B. BTM | D. ATF | | |
| | | | | |
| SI | HORT ANSWER QUESTIONS: | | | |
| 1. | An authentication process consists of the | hestep and the verification step. | | |
| 2. | Voice pattern, handwriting characteristics, and typing rhythm are examples of biometrics. | | | |
| 3. | A is a separate file from the | he user IDs where hashed passwords are kept. | | |
| 4. | With the policy a user is a system checks to see if the password is | llowed to select their own password, but the allowable. | | |

| 5. | The technique for developing an effective and efficient proactive password checker based on rejecting words on a list is based on the use of a filter. |
|-----|---|
| 5. | Objects that a user possesses for the purpose of user authentication are called |
| 7. | Authentication protocols used with smart tokens can be classified into three categories: static, dynamic password generator, and |
| 8. | A authentication system attempts to authenticate an individual based on his or her unique physical characteristics. |
| 9. | The is the pattern formed by veins beneath the retinal surface. |
| 10. | A host generated random number is often called a |
| 11. | , in the context of passwords, refers to an adversary's attempt to learn the password by observing the user, finding a written copy of the password, or some similar attack that involves the physical proximity of user and adversary. |
| 12. | In a attack, an application or physical device masquerades as an authentic application or device for the purpose of capturing a user password, passcode, or biometric. |
| 13. | A attack attempts to disable a user authentication service by flooding the service with numerous authentication attempts. |
| 14. | A is an individual to whom a debit card is issued. |
| 15. | The step is presenting or generating authentication information that corroborates the binding between the entity and the identifier. |

Chapter 3 – User Authentication

Answer Key

TRUE/FALSE QUESTIONS:

- 1. T
- 2. T
- 3. F
- 4. T
- 5. F
- 6. T
- 7. T
- 8. F
- 9. T
- 10. T
- 11. F
- 12. T
- 13. T
- 14. F
- 15. T

Multiple Choice Questions:

- 1. A
- 2. C
- 3. B
- 4. C
- 5. D
- 6. B
- 7. A
- 8. C
- 9. D
- 10. B
- 11. A
- 12. D
- 13. C
- 14. B
- 15. A

Short Answer Questions:

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- 1. identification
- 2. dynamic
- 3. shadow password file
- 4. complex password
- 5. Bloom
- 6. tokens
- 7. challenge-response
- 8. biometric
- 9. retinal pattern
- 10. nonce
- 11. Eavesdropping
- 12. Trojan horse
- 13. denial-of-service
- 14. cardholder
- 15. verification