

Multiple-Choice Questions:

1. Which of the following does authentication aim to accomplish?
 - a. Restrict what operations/data the user can access
 - b. Determine if the user is an attacker
 - c. Flag the user if he/she misbehaves
 - d. Determine who the user is
 - e. None of the above

2. Which of the following does authorization aim to accomplish?
 - a. Restrict what operations/data the user can access
 - b. Determine if the user is an attacker
 - c. Flag the user if he/she misbehaves
 - d. Determine who the user is
 - e. None of the above

3. Which of the following is an authentication method?
 - a. Secret question
 - b. Biometric
 - c. Password
 - d. SMS code
 - e. All of the above

4. T or F? In role-based access control, each user is assigned one or more roles, and the roles determine which parts of the system the user is allowed to access.
 - a. True
 - b. False

Solutions:

1. d

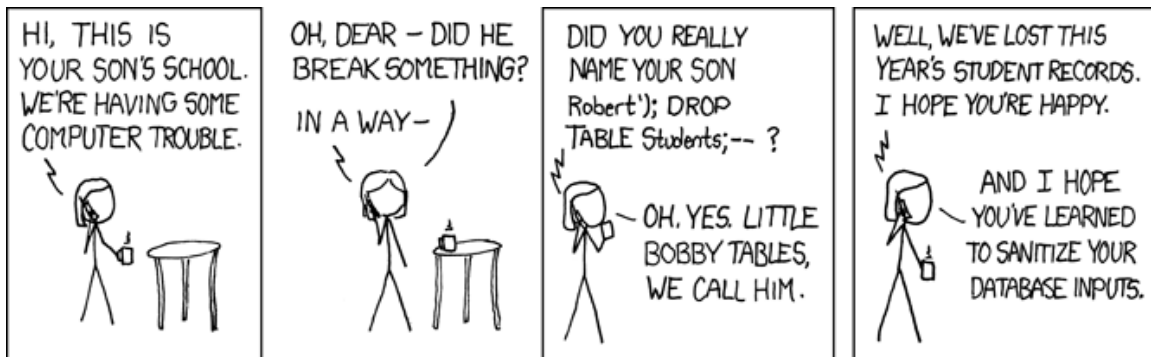
2. a

3. e

4. a

Multiple-Choice Questions:

1. What type of attack did the parents in this XKCD comic perform?



- Cross-site scripting
 - SQL injection
 - Child endangerment
 - Reverse lookup
 - Mask and shift
2. Which of the following is not a security exploit?
- Eavesdropping
 - Cross-site scripting
 - Authentication
 - SQL Injection
 - None of the above (i.e., they are all security exploits)
3. Where does the packet sniffing happen?
- Over the network
 - On GitHub
 - In the database
 - All of the above
 - None of the above

4. How do you prevent SQL injection?
 - a. Escape queries
 - b. Interrupt requests
 - c. Merge tables
 - d. All of the above
 - e. None of the above

5. In cross-site scripting where does the malicious script execute?
 - a. On the web server
 - b. In the user's browser
 - c. On the attacker's system
 - d. In the web app model code
 - e. None of the above

6. Which of the following is not a CERT security practice
 - a. Adhere to the principle of least privilege
 - b. Sanitize data sent to other software
 - c. Use effective quality assurance techniques
 - d. Validate input
 - e. None of the above (i.e., all of them are CERT security practices)

7. T or F? Eavesdropping can be countered by using encryption.
 - a. True
 - b. False

8. How do you prevent packet-sniffing exploits?
 - a. Escape packet text
 - b. Scan for viruses
 - c. Encrypt network communication with SSL
 - d. Packet plugs
 - e. None of the above

9. Imagine a social networking web app (like Twitter) that allows users to post short blurbs of text. Which type of exploit might be carried out by posting text that contains malicious code?
 - a. Cross-site scripting
 - b. SQL injection
 - c. Packet sniffing
 - d. a and b
 - e. a, b, and c

Solutions:

1. b

2. c

3. a

4. a

5. b

6. e

7. a

8. c

9. d