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QUESTION 1

The finance department for an online shopping website has discovered that a number of customers were able to purchase goods and services without any payments. Further analysis conducted by the security investigations team indicated that the website allowed customers to update a payment amount for shipping. A specially crafted value could be entered and cause a roll over, resulting in the shipping cost being subtracted from the balance and in some instances resulted in a negative balance. As a result, the system processed the negative balance as zero dollars. Which of the following BEST describes the application issue?

A. Race condition

B. Click-jacking

C. Integer overflow

D. Use after free

E. SQL injection

Correct Answer: C

Integer overflow errors can occur when a program fails to account for the fact that an arithmetic operation can result in a quantity either greater than a data type\'s maximum value or less than its minimum value.

QUESTION 2

A mature organization with legacy information systems has incorporated numerous new processes and dependencies to manage security as its networks and infrastructure are modernized. The Chief Information Office has become increasingly frustrated with frequent releases, stating that the organization needs everything to work completely, and the vendor should already have those desires built into the software product. The vendor has been in constant communication with personnel and groups within the organization to understand its business process and capture new software requirements from users. Which of the following methods of software development is this organization\'s configuration management process using?

A. Agile

B. SDL

C. Waterfall

D. Joint application development

Correct Answer: A

In agile software development, teams of programmers and business experts work closely together, using an iterative approach.

QUESTION 3

The element in SAML can be provided in which of the following predefined formats? (Select TWO).

A. X.509 subject name

B. PTR DNS record

C. EV certificate OID extension

D. Kerberos principal name

E. WWN record name

Correct Answer: AD

QUESTION 4

Two universities are making their 802.11n wireless networks available to the other university\\\'s students. The infrastructure will pass the student\\\'s credentials back to the home school for authentication via the Internet.

The requirements are:

Mutual authentication of clients and authentication server

The design should not limit connection speeds

Authentication must be delegated to the home school No passwords should be sent unencrypted

The following design was implemented:

WPA2 Enterprise using EAP-PEAP-MSCHAPv2 will be used for wireless security

RADIUS proxy servers will be used to forward authentication requests to the home school

The RADIUS servers will have certificates from a common public certificate authority

A strong shared secret will be used for RADIUS server authentication

Which of the following security considerations should be added to the design?

A. The transport layer between the RADIUS servers should be secured

B. WPA Enterprise should be used to decrease the network overhead

C. The RADIUS servers should have local accounts for the visiting students

D. Students should be given certificates to use for authentication to the network

Correct Answer: A

One of the requirements in this question states, "No passwords should be sent unencrypted". The design that was implemented makes no provision for the encryption of passwords as they are sent between RADIUS servers. The local RADIUS servers will pass the student\\\'s credentials back to the home school RADIUS servers for authentication via the Internet. When passing sensitive data such as usernames and passwords over the internet, the data should be sent over a secure connection. We can secure the transport layer between the RADIUS servers by implementing TLS (Transport Layer Security). Transport Layer Security (TLS) is a protocol that ensures privacy between communicating applications and their users on the Internet. When a server and client communicate, TLS ensures that no third party may eavesdrop or tamper with any message. TLS is the successor to the Secure Sockets Layer (SSL).

QUESTION 5

Using SSL, an administrator wishes to secure public facing server farms in three subdomains: dc1.east.company.com, dc2.central.company.com, and dc3.west.company.com. Which of the following is the number of wildcard SSL certificates that should be purchased?

A. 0

B. 1

C. 3

D. 6

Correct Answer: C

You would need three wildcard certificates: *. east.company.com *. central.company.com *. west.company.com

The common domain in each of the domains is company.com. However, a wildcard covers only one level of subdomain. For example: *. company.com will cover ".company.com" but it won\'t cover "..company.com". You can only have one wildcard in a domain. For example: *.company.com. You cannot have *.*.company.com. Only the leftmost wildcard (*) is counted.

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