

Security in the Java EE Platform

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1. Security in the Java EE Platform

4. Chapter: Security in the Java EE Platform

1. Security in the Java EE Platform Questions

4.1.1. What does Authentication mean?

Author: JavaChamp Team

What does Authentication mean?

Please choose only one answer:

- It means granting a logged-in user access to her private profile page
- It means making sure that the username and password provided by the user are correct and match what saved in the system database
- It means making sure that any change done by the user in her profile is saved in a log file
- It means rolling back any unpermitted change in other users data

Check the answer of this question online at QuizOver.com:

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Interactive Question:

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4.1.2. What does Authorization mean?

Author: JavaChamp Team

What does Authorization mean?

Please choose only one answer:

- It means rolling back any unpermitted change in other users data
- It means making sure that any change done by the user in her profile is saved in a log file
- It means making sure that the username and password provided by the user are correct and match what saved in the system database
- It means granting a logged-in user access to her private profile page

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4.1.3. Two end points are exchanging messages, the recipient detects a tam...

Author: JavaChamp Team

Two end points are exchanging messages, the recipient detects a tampering in the message after it has been sent and refuses to accept the message. Which security aspect is applied in this case?

Please choose only one answer:

- Non-repudiation
- Data integrity
- Data Privacy
- Authentication

Check the answer of this question online at QuizOver.com:

Question: [java data integrity definition](#)

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<http://www.quizover.com/flashcards/java-data-integrity-definition?pdf=3044>

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4.1.4. Only Tom Hanks can view and update his private profile in JavaChamp...

Author: JavaChamp Team

Only Tom Hanks can view and update his private profile in JavaChamp.com website. Which security aspects are applied in this case?

Please choose all the answers that apply:

- Non-repudiation
- Authorization
- Confidentiality or Data Privacy
- Auditing

Check the answer of this question online at QuizOver.com:

Question: [data privacy example](#)

Flashcards:

<http://www.quizover.com/flashcards/data-privacy-example?pdf=3044>

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4.1.5. An e-commerce online company wants to make sure that no one made a ...

Author: JavaChamp Team

An e-commerce online company wants to make sure that no one made a purchase via its website can later deny this transaction. Which security aspect is applied in this case?

Please choose only one answer:

- Authentication
- Data integrity
- Non-repudiation
- Authorization

Check the answer of this question online at QuizOver.com:

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4.1.6. What is TRUE about HTTPS protocol?

Author: JavaChamp Team

What is TRUE about HTTPS protocol?

Please choose all the answers that apply:

- HTTPS works in conjunction with Secure Sockets Layer (SSL) protocol
- HTTPS uses TCP Port 80 by default
- HTTPS grants a 100% secure data transfer from Point A to Point B
- A web server, accepting HTTPS connections, must own a public key certificate
- HTTPS is faster than HTTP

Check the answer of this question online at QuizOver.com:

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4.1.7. What are the security measures granted by the java run time sand box?

Author: Yasser Ibrahim

What are the security measures granted by the java run time sand box?

Please choose all the answers that apply:

- Principal authentication
- Byte code verification
- Non-repudiation of user actions
- Automatic memory management

Check the answer of this question online at QuizOver.com:

Question: [java memory management](#)

Flashcards:

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Interactive Question:

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4.1.8. As a java architect; what are the security benefits you get out of ...

Author: Yasser Ibrahim

As a java architect; what are the security benefits you get out of the java run time sand box?

Please choose all the answers that apply:

- Session hijacking protection
- Network sniffing protection
- Secure class loading
- Strong data typing

Check the answer of this question online at QuizOver.com:

Question: [java run time security](#)

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4.1.9. It is a collection of users or groups, who will be treated the same...

Author: JavaChamp Team

It is a collection of users or groups, who will be treated the same in regards to authentication and security restrictions

Please choose only one answer:

- A role
- A realm
- A user
- A principal

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Question: [security principal](#)

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4.1.10. What is NOT true about a digital certificate?

Author: JavaChamp Team

What is NOT true about a digital certificate?

Please choose only one answer:

- It is a digital document that represents an identity (a website)
- It is used for parties authentication
- It is signed by a trusted certificate authority
- It is used with Https connections
- It doesn't depend on encryption rather obfuscation
- It is signed by its owner

Check the answer of this question online at QuizOver.com:

Question: [digital certificates signatures](#)

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4.1.11. Which methods can be used to restrict method invocations in your EJ...

Author: JavaChamp Team

Which methods can be used to restrict method invocations in your EJBs to specific roles?

Please choose all the answers that apply:

- `getUserPrincipal()`
- `getCallerPrincipal()`
- `isUserInRole()`
- `isCallerInRole()`

Check the answer of this question online at QuizOver.com:

Question: [iscallerinrole example](#)

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4.1.12. Your EJB class is annotated with @PermitAll annotation, what does t...

Author: JavaChamp Team

Your EJB class is annotated with @PermitAll annotation, what does this mean?

Please choose only one answer:

- It means that all all accessible class methods are permitted to expose themselves as web services
- It means that all all accessible class methods are eligible for overriding
- It mean that all security roles are permitted to execute all accessible class methods
- It mean that this class can be extended by the any EJB container

Check the answer of this question online at QuizOver.com:

Question: [ejb security context](#)

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4.1.13. Which annotations can be used to specify EJB method permissions?

Author: JavaChamp Team

Which annotations can be used to specify EJB method permissions?

Please choose all the answers that apply:

- @RolesAllowed("Role1, Role2,..")
- @AllowAll
- @PermitAll
- @DenyAll
- @RejectAll

Check the answer of this question online at QuizOver.com:

Question: [rolesallowed example](#)

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4.1.14. As a software architect, which security goals for Java EE applicati...

Author: Yasser Ibrahim

As a software architect, which security goals for Java EE applications you should achieve?

Please choose all the answers that apply:

- secure the application against social hacking threats
- authenticate the application users identities
- physically securing the server machines against thieves
- guarantee the users' can't repudiate their actions

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Question: [non repudiation security](#)

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4.1.15. As a software architect, which security goals for Java EE applicati...

Author: Yasser Ibrahim

As a software architect, which security goals for Java EE applications you should achieve?

Please choose all the answers that apply:

- guarantee that the application data has not been manipulated by an illegal party
- make certain that the application resources are accessed only by the users with the right credentials
- make sure that the application will scale up gracefully with the increase of the traffic load
- ensure that the user will not grant an unauthorized access to the application to a third party

Check the answer of this question online at QuizOver.com:

Question: [enterprise architect responsibilities](#)

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4.1.16. What does JAAS Java Authentication and Authorization Service provides?

Author: Yasser Ibrahim

What does JAAS Java Authentication and Authorization Service provides?

Please choose all the answers that apply:

- JAAS is used to establish a principal representation and a associated credentials
- JAAS prevents network sniffing attacks
- JAAS guarantees secure java class loading
- enable integrating security services as pluggable modules

Check the answer of this question online at QuizOver.com:

Question: [jaas login module](#)

Flashcards:

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4.1.17. You were trying to access a secure resource on a web server and the...

Author: Yasser Ibrahim

You were trying to access a secure resource on a web server and the browser responded by a standard dialog box prompting for your credentials (user ID and password).

Which authentication method is possibly configured on the server?

Please choose all the answers that apply:

- http BASIC
- http DIGEST
- http CLIENT-CERT
- http FORM

Check the answer of this question online at QuizOver.com:

Question: [http authentication java](#)

Flashcards:

<http://www.quizover.com/flashcards/http-authentication-java?pdf=3044>

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4.1.18. What's true about JEE security model?

Author: Yasser Ibrahim

What's true about JEE security model?

Please choose all the answers that apply:

- A principal has credentials
- A role is a set of principals
- A realm is a set of users and groups
- A role may have zero or more permissions

Check the answer of this question online at QuizOver.com:
Question: [jee security model](#)

Flashcards:
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Interactive Question:
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4.1.19. Which methods can be used to restrict method invocations in your we...

Author: Yasser Ibrahim

Which methods can be used to restrict method invocations in your web application to specific roles?

Please choose all the answers that apply:

- `getUserPrincipal()`
- `isUserInRole()`
- `getCallerPrincipal()`
- `isCallerInRole()`

Check the answer of this question online at QuizOver.com:

Question: [isuserinrole servlet](#)

Flashcards:

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Interactive Question:

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4.1.20. As a software architect, how can you protect your enterprise java a...

Author: Yasser Ibrahim

As a software architect, how can you protect your enterprise java application server against Cross-site Scripting (XSS) security threats?

Please choose all the answers that apply:

- treat all user input as untrusted Data representing a potential security threat
- encrypt all communication between the user browser and your web server using secure SSL channel
- Escape all user input data to ensure that characters are treated as raw data, not as HTML markup language tags
- enable bandwidth throttling in your hardware infrastructure

Check the answer of this question online at QuizOver.com:

Question: [cross site scripting injection](#)

Flashcards:

<http://www.quizover.com/flashcards/cross-site-scripting-injection?pdf=3044>

Interactive Question:

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4.1.21. As an software architect how to protect your enterprise java applic...

Author: Yasser Ibrahim

As an software architect how to protect your enterprise java application server against SQL Injection security threats?

Please choose all the answers that apply:

- favor the use of of prepared statements (parameterized queries)
- favor the use of the native queries statements
- proactively escape all the user supplied input using the interceptor filter design pattern
- minimize the privileges assigned to the database account used to connect to your java application server

Check the answer of this question online at QuizOver.com:

Question: [java sql injection example](#)

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Interactive Question:

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4.1.22. As an software architect how to protect your enterprise java applic...

Author: Yasser Ibrahim

As an software architect how to protect your enterprise java application server against Session hijacking security threats?

Please choose all the answers that apply:

- encrypt all communication between the user browser and your web server using secure SSL channel
- proactively escape all the user supplied input using the interceptor filter design pattern
- use Captcha challenge-response test used to ensure that the request is originated by a human not an attacking program
- proactively force user session to expire after a short period of inactivity if the user didn't end his or her session using the log out action

Check the answer of this question online at QuizOver.com:

Question: [session hijacking security threats](#)

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Interactive Question:

<http://www.quizover.com/question/session-hijacking-security-threats?pdf=3044>

4.1.23. As an software architect how to protect your enterprise java applic...

Author: Yasser Ibrahim

As an software architect how to protect your enterprise java application server against password cracking security threats?

Please choose all the answers that apply:

- use Captcha challenge-response test used to ensure that the request is originated by a human not an attacking program
- block the user account for a while after the system encounters 3 unsuccessful log-in attempts.
- permanently block any future connection requests from the hacker IP address
- enforce an organization wide password security rules that mixes chars, digits and symbols

Check the answer of this question online at QuizOver.com:

Question: [password cracking times](#)

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4.1.24. What is the role of Java Security Manager (JSM)?

Author: Yasser Ibrahim

What is the role of Java Security Manager (JSM)?

Please choose all the answers that apply:

- The JSM controls the program access to the local file system
- The JSM controls the program creation of Swing user interface components
- The JSM monitors the program memory allocation activities
- The JSM restrains the socket connections established by java programs

Check the answer of this question online at QuizOver.com:

Question: [java security manager policy file](#)

Flashcards:

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Interactive Question:

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4.1.25. What are the security restrictions that Java run time sand box impo...

Author: Yasser Ibrahim

What are the security restrictions that Java run time sand box imposes on an unsigned applet running in a browser?

Please choose all the answers that apply:

- an unsigned applet can't access the local file system
- an unsigned applet can't render Java Swing graphical user interface components
- an unsigned applet can't call back to it's originating host server
- an unsigned applet can't access the clipboard

Check the answer of this question online at QuizOver.com:

Question: [applet security manager](#)

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4.1.26. Alice and Bob want to exchange highly confidential business emails....

Author: Yasser Ibrahim

Alice and Bob want to exchange highly confidential business emails. So they started experimenting with the asymmetric key algorithms. Each of them generated a public and private key pair, exchanged the public key by post, and they are now ready to correspond.

Alice used the public key of Bob to encrypt and send their first top secret email.

What is true?

Please choose only one answer:

- Alice should have used her own private key to encrypt the above mentioned message
- Only Bob can decrypt and read the message using Alice's public key
- Only Bob can decrypt and read the message using his own private key.
- Anyone who can obtain Bob public key would be able to decrypt and read Alice's message

Check the answer of this question online at QuizOver.com:

Question: [public key certificate](#)

Flashcards:

<http://www.quizover.com/flashcards/public-key-certificate?pdf=3044>

Interactive Question:

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4.1.27. Alice and Bob want to exchange highly confidential business emails....

Author: Yasser Ibrahim

Alice and Bob want to exchange highly confidential business emails. So they started experimenting with the asymmetric key algorithms. Each of them generated a public and private key pair, exchanged the public key by post, and they are now ready to correspond.

Alice used her own private key to sign and send their first top secret email.

What is true?

Please choose all the answers that apply:

- Bob can can decrypt and verify that the message was really originated by Alice using his own private key.
- Bob can can decrypt and verify that the message was really originated by Alice using her private key.
- Bob can can decrypt and verify that the message was really originated by Alice using her public key.
- Anyone who can obtain Alice's public key would be able to decrypt and verify that the message was really originated by Alice

Check the answer of this question online at QuizOver.com:

Question: [verify using asymmetric key algorithms](#)

Flashcards:

<http://www.quizover.com/flashcards/verify-using-asymmetric-key-algorithms?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/verify-using-asymmetric-key-algorithms?pdf=3044>

4.1.28. You were busy preparing for SCEA exam by working on JavaChamp.com. ...

Author: JavaChamp Team

You were busy preparing for SCEA exam by working on JavaChamp.com. You forgot to log out from the instant messaging application in your computer. In the middle of your work, an acquaintance has logged in and started chatting with you. He told you that PayPal is having a short tempting offer and posted you a direct URL to this offer encouraging you to log in and participate.

Fortunately, you have just read in JavaChamp.com about a fraudulent process that is greatly similar to this scenario, what made you reject the posted link.

Which fraudulent process are we talking about?

Please choose only one answer:

- Eavesdropping
- Man in the middle
- Denial of service
- Phishing

Check the answer of this question online at QuizOver.com:

Question: [phishing paypal](#)

Flashcards:

<http://www.quizover.com/flashcards/phishing-paypal?pdf=3044>

Interactive Question:

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4.1.29. What does DMZ mean in the world of computer networking security?

Author: JavaChamp Team

What does DMZ mean in the world of computer networking security?

Please choose all the answers that apply:

- DMZ stands for Demilitarized Zone
- Use DMZ, when you want to protect your Development zone (development servers and developers' machines) from the Internet users, and at the same time you would like to provide the Internet users access to your web pages
- DMZ contains the public services you would like to provide to the Internet users
- DMZ contains the services you would like to isolate from the Internet users

Check the answer of this question online at QuizOver.com:

Question: [how to dmz?](#)

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Interactive Question:

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4.1.30. How to minimize the damage and/or unauthorized information access t...

Author: JavaChamp Team

How to minimize the damage and/or unauthorized information access that can occur due to intruders attacks?

Please choose all the answers that apply:

- install DMZ (demilitarized zone) in your organization's network
- install request throttling firewall in your organization's network
- grant the users the least possible permissions to your organization's resources
- perform security auditing to monitor your organization's network and track intruders' activities

Check the answer of this question online at QuizOver.com:

Question: [how to minimize the damage by intruders attacks?](#)

Flashcards:

<http://www.quizover.com/flashcards/how-to-minimize-the-damage-by-intruders-attacks?pdf=3044>

Interactive Question:

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4.1.31. What are the benefits of "principle of least privilege"?

Author: JavaChamp Team

What are the benefits of "principle of least privilege"?

Please choose all the answers that apply:

- restrains the damage and/or unauthorized information access that can occur due to intruders attacks
- improves application scalability
- improves application reliability
- improves application security

Check the answer of this question online at QuizOver.com:

Question: [is it possible to prevent a dos attack?](#)

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4.1.32. What is true about bytecode verification in Java?

Author: JavaChamp Team

What is true about bytecode verification in Java?

Please choose all the answers that apply:

- it is done when loading the class files by the class loader
- it is done while compiling the Java source files
- it makes sure that the code doesn't violate access restrictions
- it checks that data type conversions is code is correct

Check the answer of this question online at QuizOver.com:

Question: [what is bytecode verification?](#)

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4.1.33. Which of the following are considered symmetric encryption algorithms?

Author: JavaChamp Team

Which of the following are considered symmetric encryption algorithms?

Please choose all the answers that apply:

- Blowfish
- 3DES
- RC4
- SHA
- Public-key cryptography

Check the answer of this question online at QuizOver.com:

Question: [public-key cryptography](#)

Flashcards:

<http://www.quizover.com/flashcards/publickey-cryptography?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/publickey-cryptography?pdf=3044>

4.1.34. What are considered one-way hash encryption algorithms?

Author: JavaChamp Team

What are considered one-way hash encryption algorithms?

Please choose all the answers that apply:

- MD5
- SHA-1
- Blowfish
- 3DES
- RC4

Check the answer of this question online at QuizOver.com:

Question: [sha 1 encryption algorithms](#)

Flashcards:

<http://www.quizover.com/flashcards/sha-1-encryption-algorithms?pdf=3044>

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4.1.35. What an unsigned applet cannot do? (select two)

Author: JavaChamp Team

What an unsigned applet cannot do? (select two)

Please choose all the answers that apply:

- update any system properties
- run out of memory
- read files on the client file system
- monopolize the CPU time
- access to the server from which the applet was downloaded

Check the answer of this question online at QuizOver.com:

Question: [applet security policy](#)

Flashcards:

<http://www.quizover.com/flashcards/applet-security-policy?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/applet-security-policy?pdf=3044>

4.1.36. What is the role of bytecode verification in Java?

Author: JavaChamp Team

What is the role of bytecode verification in Java?

Please choose all the answers that apply:

- it prevents pointers counterfeit
- it ensures that the code respects the accesses restrictions such as private, public, or protected
- it catches OutOfMemory exceptions
- it validates the inheritance tree

Check the answer of this question online at QuizOver.com:

Question: [java pointers](#)

Flashcards:

<http://www.quizover.com/flashcards/java-pointers?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/java-pointers?pdf=3044>