

Enterprise Frameworks and APIs EJB 3.x

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4. Chapter: EJB 3.x

1. EJB 3.x Questions

4.1.1. What are the advantages of EJB 3.x over EJB 2.x?

Author: JavaChamp Team

What are the advantages of EJB 3.x over EJB 2.x?

Please choose all the answers that apply:

- Developers no longer need to use deployment descriptors to declare the session beans (state that a class is a session bean)
- The business interface of a session bean can now be a plain old Java interface (POJI)
- Keeping the old way in writing EJBObject or EJBHome interfaces
- Introducing the approach "configuration by exception" or "convention over configuration"

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4.1.2. Which of the following are applicable annotations to a session bean...

Author: JavaChamp Team

Which of the following are applicable annotations to a session bean (EJB 3) :

Please choose all the answers that apply:

- @Entity
- @Stateless
- @Stateful
- @WebService
- @OneToOne

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Question: [session bean annotations](#)

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4.1.3. Which annotations are used for Dependency Injection in EJB3.0?

Author: JavaChamp Team

Which annotations are used for Dependency Injection in EJB3.0?

Please choose all the answers that apply:

- @WebService
- @EJB
- @Entity
- @Resource

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Question: [@resource annotation](#)

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4.1.4. What does Dependency Injection in EJB3.0 mean?

Author: JavaChamp Team

What does Dependency Injection in EJB3.0 mean?

Please choose only one answer:

- it is a resource supplement mechanism, where you can annotate a field in an EJB3.0 session bean to request injection of a resource
- it simplifies the complexity of JNDI for resources finding and injection
- dependency injection in EJB 3.0 is applied using annotations like @Resource
- all the above is correct about Dependency Injection in EJB3.0

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4.1.5. Where is it possible to use dependency injection annotations in EJB...

Author: JavaChamp Team

Where is it possible to use dependency injection annotations in EJB 3.0 such as @Resource and @EJB?

Please choose all the answers that apply:

- in a session bean
- in an EJB life cycle interceptor
- in a servlet filter
- in a jsf backing bean

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Question: [dependency injection in managed beans](#)

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4.1.6. How to supply managed objects with resources in EJB 3.0?

Author: JavaChamp Team

How to supply managed objects with resources in EJB 3.0?

Please choose all the answers that apply:

- using JNDI
- using RMI
- using dependency injection annotations
- using CORBA

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Question: [what is dependency injection annotations used for?](#)

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4.1.7. Who can use dependency injection?

Author: JavaChamp Team

Who can use dependency injection?

Please choose all the answers that apply:

- Dependency injection may be used by the managed object in an EJB container
- Dependency injection may be used by the managed object in a servlet container
- Dependency injection may be used by any class in Java

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4.1.8. Your client has a severe performance problem in a heavily loaded EJ...

Author: Yasser Ibrahim

Your client has a severe performance problem in a heavily loaded EJB application as a consequence the system doesn't scale up properly in the peak traffic period during the Xmas shopping rush days. So he hired you to hunt for the possible performance bottle nicks and come up with possible solutions. The application is deployed as one EAR in one JVM and the data base is running on a separate machine. The session beans are only accessed by the web application deployed in the same EAR file.

What is your recommendation?

Please choose only one answer:

- Change all local session beans to remote session beans
- Change all remote session beans to local session beans.
- Use JMS to transfer user request between the web layer and the session beans
- Use web services to transfer user request between the web layer and the session beans

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

Question: [remote vs local session beans](#)

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4.1.9. What do you need to create a EJB3 session bean?

Author: Yasser Ibrahim

What do you need to create a EJB3 session bean?

Please choose all the answers that apply:

- Declare a business interface and annotate it with @Local or @Remote
- Write the session bean class itself that implements the business logic
- Annotate the session bean with @Session
- Annotate the session bean with @SessionBean
- Annotate the session bean with @Stateful or @Stateless

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

Question: [session bean example ejb3](#)

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4.1.10. Which of the following represents a legal EJB3 session bean declara...

Author: Yasser Ibrahim

Which of the following represents a legal EJB3 session bean declaration using annotations only (no deployment descriptors)?

Please choose all the answers that apply:

- `@Local public interface Engine {}`
`@Stateless public class CarEngine implements Engine{}`
- `@Local @Stateless public interface Engine {}`
`public class CarEngine implements Engine{}`
- `public interface Engine {}`
`@Local @Stateless public class CarEngine implements Engine{}`
- `public interface Engine {}`
`public class CarEngine implements Engine{}`

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Question: [ejb session bean declaration](#)

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4.1.11. What are the restrictions imposed by the EJB 3.x container on the i...

Author: Yasser Ibrahim

What are the restrictions imposed by the EJB 3.x container on the implementation of session bean remote business interfaces?

Please choose all the answers that apply:

- session bean remote business interfaces must be marked with @Remote annotation
- session bean remote business interfaces have to extend java.rmi.Remote
- in all method definitions you may only declare RMI/IIOP compatible arguments and return types
- session bean remote business interfaces should throw java.rmi.RemoteException

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

Question: [how to code session bean remote business interface](#)

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4.1.12. What are the implementation specifications of EJB 3 session bean cl...

Author: Yasser Ibrahim

What are the implementation specifications of EJB 3 session bean classes?

Please choose all the answers that apply:

- a session bean class must be marked with @Remote or @Local annotation
- a session bean class must have a public default constructor
- a session bean class shouldn't implement other than its own business interface
- a session bean class must be a public top-level class

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

Question: [what are the implementation specifications of ejb 3 session bean classes?](#)

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4.1.13. What are the implementation specifications of EJB 3 session bean cl...

Author: Yasser Ibrahim

What are the implementation specifications of EJB 3 session bean classes?

Please choose all the answers that apply:

- a session bean class must be marked with @Stateless or @Stateful annotation
- a session bean class must have a public default constructor
- a session bean class must be final or abstract
- a session bean class can't extend other classes

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

Question: [ejb 3 session bean classes specifications](#)

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4.1.14. Which life cycle events are fired for stateless session beans?

Author: Yasser Ibrahim

Which life cycle events are fired for stateless session beans?

Please choose all the answers that apply:

- PostActivate
- PrePassivate
- PreDestroy
- PostConstruct

Check the answer of this question online at QuizOver.com:
Question: [ejb postconstruct](#)

Flashcards:
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Interactive Question:
<http://www.quizover.com/question/ejb-postconstruct?pdf=3044>

4.1.15. Which life cycle events are fired for stateful session beans?

Author: Yasser Ibrahim

Which life cycle events are fired for stateful session beans?

Please choose all the answers that apply:

- PreDestroy
- PostDestroy
- PreConstruct
- PostConstruct

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

Question: [ejb life cycle methods](#)

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4.1.16. What is the typical order of life cycle stages an average stateless...

Author: Yasser Ibrahim

What is the typical order of life cycle stages an average stateless session bean goes through starting from its instantiation till retiring?

Please choose only one answer:

- Instantiation by the EJB container, PostConstruct call back, Dependency injection, PrePassivate
- Instantiation by the EJB container, PostConstruct call back, Dependency injection, PreDestroy
- Instantiation by the client code, Dependency injection, PostConstruct call back, PreDestroy
- Instantiation by the EJB container, Dependency injection, PostConstruct call back, PreDestroy

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

Question: [stateless session bean life cycle stages](#)

Flashcards:

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4.1.17. What is the typical order of life cycle stages an average stateful ...

Author: Yasser Ibrahim

What is the typical order of life cycle stages an average stateful session bean goes through starting from its instantiation till retiring?

Please choose all the answers that apply:

- Bean instantiated, Dependency injection, PostConstruct , PreDestroy
- Bean instantiated, Dependency injection, PostActivate , PrePassivate
- Bean fetched from the passive state, Dependency injection, PostActivate , PrePassivate
- Bean fetched from the passive state, PostActivate , PrePassivate

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

Question: [stateful session bean life cycle stages](#)

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4.1.18. Suppose that an EJB client code is invoking the calculateSales() me...

Author: Yasser Ibrahim

Suppose that an EJB client code is invoking the calculateSales() method on the SalesBean class.

Assuming the the bean is not instantiated yet by the container.

What could be printed from such invocation?

```
@Stateless
public class SalesBean implements SalesBeanLocal {
    public SalesBean() {
        System.out.println("Constructor");
    }
    public void calculateSales() {
        System.out.println("calculateSales");
    }
    @PostConstruct
    public void m1() {
        System.out.println("PostConstruct");
    }

    @PreDestroy
    public void m2() {
        System.out.println("PreDestroy");
    }
}
```

Please choose only one answer:

- PostConstruct, Constructor, PreDestroy, calculateSales
- Constructor, PostConstruct, calculateSales, PreDestroy
- calculateSales, Constructor, PostConstruct, PreDestroy
- Constructor, PostConstruct, PreDestroy, calculateSales

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

Question: [stateless session bean life cycle example](#)

Flashcards:

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Interactive Question:

<http://www.quizover.com/question/stateless-session-bean-life-cycle-example?pdf=3044>

4.1.19. Suppose that an EJB client code is invoking the calculateSales() me...

Author: Yasser Ibrahim

Suppose that an EJB client code is invoking the calculateSales() method on the SalesBean class.

Assuming the the bean is not instantiated yet by the container.

What could be printed from such invocation?

```
@Stateful
public class SalesBean2 implements SalesBeanLocal {
    public SalesBean2() {
        System.out.println("Constructor");
    }
    public void calculateSales() {
        System.out.println("calculateSales");
    }
    @PostConstruct
    public void m1() {
        System.out.println("PostConstruct");
    }

    @PreDestroy
    public void m2() {
        System.out.println("PreDestroy");
    }

    @PrePassivate
    public void m3() {
        System.out.println("PrePassivate");
    }

    @PostActivate
    public void m4() {
        System.out.println("PostActivate");
    }
}
```

Please choose all the answers that apply:

- Constructor, PostConstruct, PostActivate, calculateSales
- Constructor, PostConstruct, calculateSales, PreDestroy
- Constructor, PostConstruct, PrePassivate, PostActivate, calculateSales, PreDestroy
- Constructor, PostConstruct, PostActivate, calculateSales, PrePassivate

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

Question: [stateful session bean life cycle example](#)

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4.1.20. What are the restrictions imposed by the EJB 3.x container on the i...

Author: Yasser Ibrahim

What are the restrictions imposed by the EJB 3.x container on the implementation of life cycle event handlers (e.g. PostConstruct, PreDestroy,...)?

Please choose all the answers that apply:

- a session bean method cannot be annotated with more than one life cycle callback event.
- callback handler methods may have any access modifier
- each lifecycle callback event can be handled by maximum one session bean method
- exceptions thrown from callback handler methods don't affect the ongoing transaction

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Question: [ejb callback](#)

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4.1.21. what are the server side changes required to migrate an existing ap...

Author: Yasser Ibrahim

what are the server side changes required to migrate an existing application from ejb2 to ejb3?

Please choose all the answers that apply:

- The EJB Home interface is optional in EJB3
- EJB3 deployment descriptor is optional
- EJB3 session beans should be annotated with either @Stateless or @Stateful
- The EJB business interface should be annotated with either @Local or @Remote
- The EJB business interface doesn't extend EJBObject or EJBLocalObject

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