

4.5. JBoss to Geronimo - EJB-

[4.4. JBoss to Geronimo - EJB-MDB Migration](#)

[4. Apache Geronimo](#)

[4.6. JBoss to Geronimo - Hibernate](#)

J2EEJavaEJBJavaEJBJava

EJBEJBEBEJB

EJBEJBEB

- [EJB](#)
-
- [JBoss](#)
- [Geronimo](#)
-
-

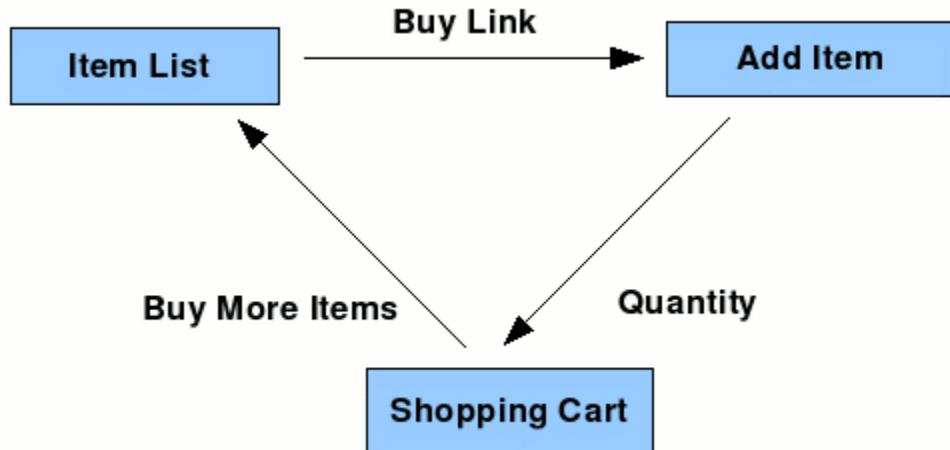
EJB

EJBJBossApache Geronimo

	JBoss v4.0.5	Apache Geronimo (OpenEJB)
BMP (Bean Managed Persistence)		
CMP (Container Managed Persistence)		
(MDBs)		
RMI-IIOP JAXRPC		
MDBWeb		
Web		
EJB JMXWeb		
CORBAEJB		

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eWeb



Web

JSP

- org.apache.geronimo.samples.computer.dto
 - ItemDTO - WebEJB
 - TransactionDTO - WebEJB
- org.apache.geronimo.samples.computer.ejb
 - ItemServiceBean -
 - ShoppingCartBean -
- org.apache.geronimo.samples.computer.web
 - ItemServiceDispatchServlet - Web
 - ShoppingCartDispatchServlet - Web

eJSP

- buy_item.jsp -
- error.jsp -
- index.jsp -
- list_items.jsp -
- shopping_cart.jsp -

Eclipse

Eclipse JBoss GeronimoEclipseURL
<http://www.eclipse.org>

Apache Ant

AntJavaWinAntAntURL
<http://ant.apache.org>

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JBoss

JBossJBoss v4.0.5

JBossWeb

1. JBoss v4 <jboss_home>
2. JBoss v4<jboss_home>\server\default <jboss_home>\server\<your_server_name>

3. <jboss_home>\bin run.sh -c <>
4. WebURL: <http://localhost:8080> JBoss
JBossWelcomeJBoss
- 5.

Ant

Ant

Apache AntAntpath <ant_home>\bin

Apache AntURL
<http://ant.apache.org>

XDoclet

XDocletXDocletJava(Attribute)JavaDoc
XDocletEJBXDoclet

<http://xdoclet.sourceforge.net/xdoclet/index.html>

XDoclet**build.properties** xdoclet.home

Ant

Computer

zip computer build.properties

build.properties

```
## Set the Geronimo 1.1 home here
geronimo.home=<geronimo_home>

## Set XDoclet 1.2.3 Home
xdoclet.home=<xdoclet_home>
```

config build.properties geronimo.home xdoclet.home
computer ant jboss ear release/jboss

computer.ear computer/releases/jboss <jboss_home>/server/<your_server_name>/deploy

JBossJBoss

WebURL

<http://localhost:8080/computer>

Computer Accessories Seller - Firefox

File Edit View Go Bookmarks Tools Help

Getting Started Latest BBC Headlines

Computer Accessories Seller

This eCommerce application let you buy computer accessories in both wholesale and retail prices. To get the wholesale price customer has to buy atleast **Discount Quantity** number of items. Then you will get **Discount Percentage** of discount from each item. Also note you are not allowed to add same accessory twice in to your shopping cart.

Item Description	Unit Price	Discount Quantity	Discount Percentage	Action
PENTIUM-4 2.8 GZ Processor	12000.0	10	5.0%	Buy
120 GB Hard disk	9500.0	8	5.0%	Buy
10W CPU Fan	3500.0	15	2.0%	Buy
1G DDR RAM	11500.0	10	8.0%	Buy
256MB VGA Card	5000.0	5	5.0%	Buy
128bit Sound Card	4000.0	10	10.0%	Buy
17' LCD Monitor	22000.0	5	10.0%	Buy
TV Card	5000.0	2	10.0%	Buy
Radio Card	3000.0	2	15.0%	Buy
Bubble-jet Printer	4500.0	5	15.0%	Buy

Done

Shopping Cart - Firefox

File Edit View Go Bookmarks Tools Help

Getting Started Latest BBC Headlines

Shopping Cart Information

Given items are already added to your shopping cart. To remove any item use **Remove** link in each item and **Add Another Item** will let you add new items to your shopping cart.

Item Description	Quantity	Original Price	Discount	Final Price	Action
PENTIUM-4 2.8 GZ Processor	2	24000.0	0.0	24000.0	Remove
120 GB Hard disk	2	19000.0	0.0	19000.0	Remove
256MB VGA Card	4	20000.0	0.0	20000.0	Remove
Total:				63000.0	

[Add Another Item](#)

Done

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Geronimo

URLGeronimo

<http://geronimo.apache.org/downloads.html>

URLGeronimoGeronimo <geronimo_home>



TCP/IP

JBossGeronimo

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AntJBoss **jboss.xml** Geronimo **openejb-jar.xml** computer/config

JBoss

jboss.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<jboss>

    <enterprise-beans>

        <session>
            <ejb-name>ShoppingCart</ejb-name>
            <local-jndi-name>ShoppingCart</local-jndi-name>

            <method-attributes>
            </method-attributes>
        </session>
        <session>
            <ejb-name>ItemService</ejb-name>
            <local-jndi-name>ItemService</local-jndi-name>

            <method-attributes>
            </method-attributes>
        </session>

    </enterprise-beans>

    <resource-managers>
    </resource-managers>

</jboss>
```

Geronimo

openejb-jar.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<openejb-jar xmlns="http://www.openejb.org/xml/ns/openejb-jar-2.1">
    <dep:environment xmlns:dep="http://geronimo.apache.org/xml/ns/deployment-1.2">
        <dep:moduleId>
            <dep:groupId>org.apache.geronimo.samples</dep:groupId>
            <dep:artifactId>ComputerEJB</dep:artifactId>
            <dep:version>1.0</dep:version>
            <dep:type>car</dep:type>
        </dep:moduleId>
        <dep:dependencies/>
        <dep:hidden-classes/>
        <dep:non-overridable-classes/>
    </dep:environment>
    <enterprise-beans>
        <session>
            <ejb-name>ShoppingCart</ejb-name>
            <ejb-ref>
                <ref-name>ejb/ItemServiceLocal</ref-name>
                <ejb-link>ItemService</ejb-link>
            </ejb-ref>
        </session>
        <session>
            <ejb-name>ItemService</ejb-name>
        </session>
    </enterprise-beans>
</openejb-jar>
```

GeronimoJBossGeronimoMaven2EJBJBossEJBJNDIGeronimoEJB **openejb-jar.xml jboss.xml EJB**

web

jboss-web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<jboss-web>

    <!-- EJB Local References -->
    <ejb-local-ref>
        <ejb-ref-name>ejb/ItemServiceLocal</ejb-ref-name>
        <local-jndi-name>ItemService</local-jndi-name>
    </ejb-local-ref>
    <ejb-local-ref>
        <ejb-ref-name>ejb/ShoppingCartLocal</ejb-ref-name>
        <local-jndi-name>ShoppingCart</local-jndi-name>
    </ejb-local-ref>
</jboss-web>
```

geronimo-web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://geronimo.apache.org/xml/ns/j2ee/web-1.1" xmlns:naming="http://geronimo.apache.org/xml/ns/naming-1.1">

    <dep:environment xmlns:dep="http://geronimo.apache.org/xml/ns/deployment-1.1">
        <dep:moduleId>
            <dep:groupId>org.apache.geronimo.samples</dep:groupId>
            <dep:artifactId>ComputerWeb</dep:artifactId>
            <dep:version>1.0</dep:version>
            <dep:type>car</dep:type>
        </dep:moduleId>
        <dep:dependencies/>
        <dep:hidden-classes/>
        <dep:non-overridable-classes/>
    </dep:environment>

    <naming:ejb-local-ref>
        <naming:ref-name>ejb/ItemServiceLocal</naming:ref-name>
        <naming:ejb-link>ItemService</naming:ejb-link>
    </naming:ejb-local-ref>

    <naming:ejb-local-ref>
        <naming:ref-name>ejb/ShoppingCartLocal</naming:ref-name>
        <naming:ejb-link>ShoppingCart</naming:ejb-link>
    </naming:ejb-local-ref>
</web-app>
```

jboss-web.xml EJBJNDIgeronimo-web.xml EJBEJBWAR web.xml EJBGeronimo JBoss

computer Geronimo

ant geronimo

computer/releases/geronimo computer.ear

Geronimo
Geronimo

1. Deploy New
2. Archive **computer/releases/geronimo computer.ear**
3. Install

WebURL
<http://localhost:8080/computer>

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JBoss v4.0.5GeronimoGeronimo

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- JBoss GeronimoGeronimoMaven2