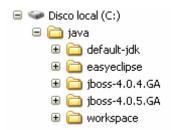
Padrão de ambiente

Para garantir um ambiente de desenvolvimento homogêneo entre os desenvolvedores os seguintes diretórios deverão ser criados na máquina de desenvolvimento.



Descrição dos diretórios

default-jdk Java development Kit easyeclipse EasyEclipse IDE

jboss-4.0.4.GA JBoss Application Server

workspace área de trabalho para armazenamento de projetos eclipse

Java JDK

Nome atualizado: Java(TM) SE Development Kit 6 Update 1

Categoria: Windows Platform - Java(TM) SE Development Kit 6 Update 1

Tipo: Windows Offline Installation, Multi-language

Arquivo de instalação: jdk-6u1-windows-i586-p.exe

Descrição: The Java SE Development Kit (JDK) includes the Java Runtime Environment (JRE)

and command-line development tools that are useful for developing applets and

applications.

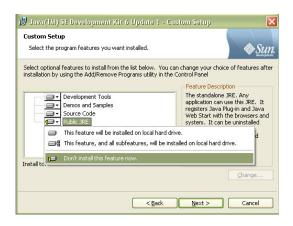
URL para download: http://java.sun.com/javase/downloads/

Diretório de instalação: C:\java\default-jdk Data do registro: 20 de junho de 2007

Instruções:

 É aconselhavel você remova todas as instalações de JRE ou JDK existentes no seu sistema antes de instalar uma nova.

- Localize e faça do download do arquivo de instalação da última versão disponível.
- 3. Execute o instalador.
- Na tela Custom setup selecione o item Development Tools e altere o caminho de instalação para que aponte para C:\java\default-idk.
- 5. Em Public JRE opte por não instalar uma JRE pública.
- 6. Prosiga com a instalação até que o termino.



EasyEclipse

Nome atualizado: EasyEclipse Server Java Categoria: Windows Distribution

Arquivo de instalação: easyeclipse-server-java-1.2.1.exe

Descrição: EasyEclipse Server Edition contains lots of plugins to manage different application

servers (Tomcat, JBoss, WebLogic), develop on some server-side frameworks (Struts, Java Server Faces), and manipulate common file types on servers (HTML,

XML, JSPs).

URL para download: http://www.easyeclipse.org/site/distributions/index.html

Release: 1.2.1

Diretório de instalação: C:\java\easyeclipse Data do registro: 20 de junho de 2007

Instruções:

1. Localize e faça o download do arquivo de instalação.

- Na tela Chose Install Location altere o caminho de instalação para que aponte para C:\java\easyeclipse (Verifique que após selecionar o diretório, o instalador ira adicionar um novo subdiretório EasyEclipse Server Java 1.2.1 que deverá ser removido).
- 3. Execute o instalador.
- 4. Execute o eclipse.
- 5. Na primeira execução aparecerá uma janela solicitando o diretório para o espaço de trabalho. Aponte para o diretório C:\java\workspace anteriormente criado.

Apontando o eclipse para a JDK:

- 1. Localize e faça o download do arquivo de instalação.
- Abra o menu Window > Preferences e na opção Java > Installed JREs adicione a JDK instalada em C:\iava\default-idk.
- 3. Selecione default-jdk para ser a instalação que será usada como build-path do eclipse.
- 4. Remova a entrada easyeclipse da lista.
- 5. Termine a configuração pressionando OK.
- 6. Encerre o eclipse.
- 7. Remova o diretório C:\java\easyeclipse\ jre da instalação.

Configurando o easyeclipse:

- 1. Efetue a instalação do JBoss (conforme este tutorial na seção **Instalação do JBoss**).
- 2. Em window > preferences > server > installed runtimes clique em no botão adicionar (add...).
- 3. Na janela New Server Runtime selecione JBoss Inc > JBoss 4.0 Server Adapter Runtime.
- 4. Prossiga para a próxima janela e localize o **Home Directory** do seu JBoss AS que deverá ser **C:**\java\jboss-4.0.4.GA.
- 5. Para Name (unique identifier) utilize o diretório do JBoss como identificador: jboss-4.0.4.GA.
- 6. Finalize pressionando OK.
- 7. Selecione a perspectiva JBoss AS.
- 8. Caso não seja apresentada a janela JBoss Server View abra a **opção window > show view > other...** > **Server > JBoss Server View**.
- 9. Posicione a janela no ambiente de trabalho de acordo com sua preferência.
- 10. Dentro da área da janela JBoss Server View clique com o botão direito do mouse e selecione **new** > **server** para criar um nova configuração de servidor JBoss.
- 11. Em server host name mantenha localhost.
- 12. Em server type selecione **JBoss Inc > JBoss AS 4.0**.
- 13. O Campo Server runtime deverá apontar para o servidor configurado no passo 2 até o 5: **jboss-4.0.4.GA**. Prossiga para a próxima janela.
- 14. Para Name (unique identifier) utilize o mesmo identificador jboss-4.0.4.GA.
- 15. Pressione Finish.

Iniciando o AS sob o easyeclipse:

Pressione o botão play da janela JBoss Server View.
 Todas as informações de startup e de execução que são normalmente apresentadas em console serão redirecionadas para o console do eclipse.

Resultado apresentado no console:

```
15:43:46,015 INFO
                    [Server] Starting JBoss (MX MicroKernel)...
15:43:46,015 INFO [Server] Release ID: JBoss [Zion] 4.0.4.GA (build: CVSTag=JBoss_4_0 (...)
15:43:46,031 INFO [Server] Home Dir: C:\java\jboss-4.0.4.GA
15:43:46,031 INFO [Server] Home URL: file:/C:/java/jboss-4.0.4.GA/
15:43:46,031 INFO [Server] Patch URL: null
15:43:46,031 INFO [Server] Server Name: default
15:43:46,031 INFO [Server] Server Home Dir: C:\java\jboss-4.0.4.GA\server\default
15:43:46,031 INFO [Server] Server Home URL: file:/C:/java/jboss-4.0.4.GA/server/default/15:43:46,031 INFO [Server] Server Log Dir: C:\java\jboss-4.0.4.GA\server\default\log
15:43:46,031 INFO [Server] Server Temp Dir: C:\java\jboss-4.0.4.GA\server\default\tmp
15:43:46,031 INFO [Server] Root Deployment Filename: jboss-service.xml
15:43:48,640 INFO [ServerInfo] Java version: 1.6.0_01,Sun Microsystems Inc.
15:43:48,640 INFO [ServerInfo] Java VM: Java HotSpot(TM) Client VM 1.6.0_01-b06,Sun (...)
                                                (prossegue)
15:44:30,750 INFO [ConnectionFactoryBindingService] Bound ConnectionManager (...)
15:44:31,640 INFO [A] Bound to JNDI name: queue/A
15:44:31,656 INFO
                    [B] Bound to JNDI name: queue/B
15:44:31,656 INFO [C] Bound to JNDI name: queue/C
15:44:31,671 INFO
                    [D] Bound to JNDI name: queue/D
                     [ex] Bound to JNDI name: queue/ex
15:44:31,671 INFO
15:44:31,843 INFO
                    [testTopic] Bound to JNDI name: topic/testTopic
15:44:31,843 INFO
                     [securedTopic] Bound to JNDI name: topic/securedTopic
15:44:31,843 INFO
                    [testDurableTopic] Bound to JNDI name: topic/testDurableTopic
15:44:31,906 INFO
                    [testQueue] Bound to JNDI name: queue/testQueue
15:44:32,078 INFO
                     [UILServerILService] JBossMQ UIL service available at : (...)
15:44:32,265 INFO
                    [DLQ] Bound to JNDI name: queue/DLQ
15:44:32,625 INFO
                    [ConnectionFactoryBindingService] Bound ConnectionManager (...)
                     [TomcatDeployer] deploy, ctxPath=/jmx-console, (...)
15:44:32,828 INFO
15:44:34,687 INFO
                    [ChannelSocket] JK: ajp13 listening on localhost/127.0.0.1:8009
15:44:35,078 INFO
                     [JkMain] Jk running ID=0 time=0/688 config=null
15:44:35,093 INFO
                    [Server] JBoss (MX MicroKernel) [4.0.4.GA (build: CVSTag=JBoss_4_0_4_GA
date=200605151000)] Started in 49s:47ms
```

Instalação do JBOSS

Nome atualizado: JEMS Installer 1.2.0.BETA2 (AS 4.0.4.GA, EJB3 1.0.0.CR8, Portal 2.4.GA)

Arquivo de instalação: jems-installer-1.2.0.BETA2.jar

Descrição: The JEMS Installer allows to install various JBoss products. It's an easy way for

customers to get started using AS. Installer is going to support other products pretty

soon.

URL para download: http://labs.jboss.com/jemsinstaller/ (veja a seção JEMS Installer Downloads).

Selecione 1.2.0.BETA2.

Diretório de instalação: C:\java\jboss-4.0.4.GA Data do registro: 20 de junho de 2007

Instruções:

1. Localize e faça o download do arquivo de instalação.

- 2. Executo o instalador com o comando java -jar jems-installer-1.2.0.BETA2.jar.
- 3. Selecione o caminho para instalação: C:\java\jboss-4.0.4.GA.
- 4. Selecione a instalação ejb3. Prossiga duas telas.
- 5. Em configuration name mantenha o nome default.
- 6. Em datasource mantenha defaut.
- 7. Selecione o checkbox Enable deployment isolation.
- 8. Em jmx security deselecione todas as opções selecionadas e defina uma senha para o usuario admin. Recomenda-se utilizar admin como senha.
- 9. Prossiga com a instalação até o termino.

Ant-Contrib Tasks

Pacote: ant-contrib-1.0b3-bin.zip

Descrição: The Ant-Contrib project is a collection of tasks (and at one point maybe types and

other tools) for Apache-Ant.

URL para download: http://ant-contrib.sourceforge.net/

Ant-Contrib Tasks: http://ant-contrib.sourceforge.net/tasks/tasks/index.html

Data do registro: 21 de junho de 2007

Instruções:

1. Localize e faça o download do arquivo de instalação.

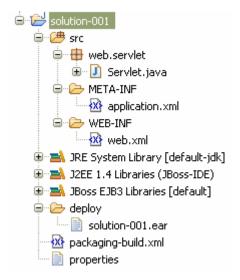
- 2. Descompacte o pacote em um diretório temporário.
- 3. Copie o arquivo **ant-contrib-1.0b3.jar** para o diretório C:\java\easyeclipse\plugins\org.apache.ant_1.6.5\lib.
- 4. Em window > preferences > ant > runtime adicione o jar ao grupo Ant Home Entries.
- 5. Para utilizar as taks do ant-contrib basta adicionar a tag **<taskdef**

resorce="net/sf/antcontrib/antlib.xml"/> ao arquivo packaging-build.xml do seu projeto.

Criar um novo projeto J2EE 1.4

- 1. Abrir o menu file > new > project.
- 2. No Select Wizard que abrirá selecione a pasta JBoss Eclipse IDE e a sub-pasta J2EE Projects.
- 3. Selecione J2EE 1.4 Project.
- 4. Clique em Next.
- 5. Mantenha selecionado **Use default location** e crie um nome para o projeto.
- 6. Clique em Next.7. Na janela J2EE 1.4 Project clique em add folder.
- 8. De o nome da pasta de src.
- 9. Clique em Finish.
- 10. Selecione a opção Allow output folders for source folders.
- 11. Certifique-se que em Default output folder esteja sendo apresentado <nome do projeto>\bin.
- 12. Na aba Libraries remova a biblioteca Web Services 1.0 Libraries (JBoss-IDE).
- 13. Clique em Add Library...
- 14. Selecione JBoss EJB3 Libraries e clique Next.
- 15. Selecione a instancia do jboss.
- 16. Clique em Finish e Finish novamente.

Servlet



Servlet.java

```
package web.servlet;
import java.io.IOException;
import javax.servlet.http.HttpServlet;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class Servlet extends HttpServlet {
      @Override
      protected void doGet(
            HttpServletRequest req,
            HttpServletResponse resp
      ) throws ServletException, IOException {
            System.out.println("Hello");
            resp.getWriter().print("<HTML>");
            resp.getWriter().print("<BODY>");
            resp.getWriter().print("<H1>Hello</H1>");
            resp.getWriter().print("</BODY>");
            resp.getWriter().print("</HTML>");
```

application.xml

```
</web>
  </module>
  </application>
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app version="2.4"</pre>
      xmlns="http://java.sun.com/xml/ns/j2ee"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee
http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd">
    <display-name>Hello World Servlet</display-name>
    <servlet>
           <servlet-name>Servlet</servlet-name>
            <servlet-class>web.servlet.Servlet</servlet-class>
      </servlet>
      <servlet-mapping>
           <servlet-name>Servlet
            <url-pattern>/Servlet</url-pattern>
      </servlet-mapping>
</web-app>
```

packaging-build.xml

```
<?xml version="1.0" encoding="UTF-8"?>
oject name="Packaging Generator" default="main">
      cproperty file="properties"/>
      <target name="main" depends="war,ear,deploy"/>
      <target name="war" description="${project.name}.war">
            <delete file="deploy/${project.name}.war"/>
            <jar destfile="deploy/${project.name}.war">
                  <zipfileset
                        dir="bin/web"
                        prefix="WEB-INF/classes/web" includes="**"/>
                  <zipfileset
                        dir="bin/WEB-INF"
                        prefix="WEB-INF" includes="*.xml"/>
            </jar>
      </target>
      <target name="ear" description="${project.name}.ear">
            <delete file="deploy/${project.name}.ear"/>
            <jar destfile="deploy/${project.name}.ear">
                  <zipfileset dir="deploy"
                        includes="${project.name}.war"/>
                  <zipfileset dir="bin/META-INF"
                        prefix="META-INF" includes="*.xml"/>
            </jar>
            <delete file="deploy/${project.name}.war" />
      <target name="deploy" description="deploy">
            <delete file="${deploy.dir}/${project.name}.ear" />
            <copy file="deploy/${project.name}.ear"</pre>
                 todir="${deploy.dir}" />
      </target>
</project >
```

properties.xml

jboss.server=jboss-4.0.4.GA
deploy.dir=C:\\java\\\${jboss.server}\\server\\default\\deploy
conf.dir=C:\\java\\\${jboss.server}\\server\\default\\conf
lib.dir=C:\\java\\\${jboss.server}\\server\\default\\lib
project.name=solution-001

Deploy

Habilitar o Build automático:

- 1. Clique na pasta do projeto com o botão direito e selecione **Properties** ou tecle Alt+Enter.
- 2. Em Packaging Configurations selecione Enable Packaging e Clique em OK.

Execução do Build:

1. Clique na pasta do projeto com o botão direito e selecione Run Packaging.

Resultado apresentado no console:

```
Buildfile: C:\java\workspace\solution-001\packaging-build.xml

war:

[jar] Building jar: C:\java\workspace\solution-001\deploy\solution-001.war

ear:

[delete] Deleting: C:\java\workspace\solution-001\deploy\solution-001.ear

[jar] Building jar: C:\java\workspace\solution-001\deploy\solution-001.ear

[delete] Deleting: C:\java\workspace\solution-001\deploy\solution-001.war

deploy:

[delete] Deleting: C:\java\jboss-4.0.4.GA\server\default\deploy\solution-001.ear

[copy] Copying 1 file to C:\java\jboss-4.0.4.GA\server\default\deploy

main:

BUILD SUCCESSFUL

Total time: 1 second
```

```
16:00:32,359 INFO [EARDeployer] Init J2EE application: file:/C:/java/jboss-4.0.4.GA/server/default/deploy/solution-001.ear
16:00:32,562 INFO [TomcatDeployer] deploy, ctxPath=/solution-001,
warUrl=.../tmp/deploy/tmp62851solution-001.ear-contents/solution-001-exp.war/
16:00:32,859 INFO [EARDeployer] Started J2EE application: file:/C:/java/jboss-4.0.4.GA/server/default/deploy/solution-001.ear
```

Undeploy

1. Basta remover o pacote .ear/.war/.ejb3 do diretório \${deploy.dir} definido no arquivo properties.

Resultado apresentado no console:

```
16:01:48,093 INFO [TomcatDeployer] undeploy, ctxPath=/solution-001, warUrl=.../tmp/deploy/tmp62851solution-001.ear-contents/solution-001-exp.war/
16:01:48,171 INFO [EARDeployer] Undeploying J2EE application, destroy step: file:/C:/java/jboss-
4.0.4.GA/server/default/deploy/solution-001.ear
16:01:48,171 INFO [EARDeployer] Undeployed J2EE application: file:/C:/java/jboss-
4.0.4.GA/server/default/deploy/solution-001.ear
```

Acessar a aplicação Web

Acessar Servlet:

nome do projeto: definido em context-root no arquivo application.xml

url-pattern: definida no arquivo web.xml **servlet-name:**definida no arquivo web.xml

1. Abra o browser em

http://localhost:8080/<nome do projeto>/<url-pattern da servlet>/<servlet-name>

Ex.: http://localhost:8080/solution-001/Servlet

Acessar Páginas JSP:

1. ?

Bean

```
solution-002
src
ejb3.interfaces
ejb3.stateless
ejb3.stateless
ejb3.stateless
Operation.java
mETA-INF
mail application.xml
special system Library [default-jdk]
application in the special system in t
```

IOperation.java

```
package ejb3.interfaces;
import javax.ejb.Remote;

@Remote
public interface IOperation {

    public int sum(int a, int b);
    public int subtract(int a, int b);
}
```

Operation.java

```
package ejb3.stateless;
import javax.ejb.Stateless;
import ejb3.interfaces.IOperation;

public @Stateless class Operation implements IOperation {
    public int sum(int a, int b) {
        return a+b;
    }

    public int subtract(int a, int b) {
        return a-b;
    }
}
```

application.xml

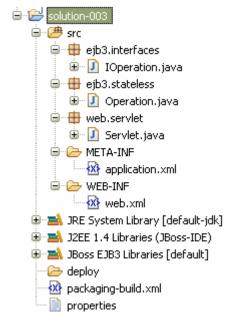
packaging-build.xml

```
<?xml version="1.0" encoding="UTF-8"?>
oject name="Packaging Generator" default="main">
      cproperty file="properties" />
      <target name="main" depends="ejb3,ear,deploy"/>
      <target name="ejb3" description="${project.name}.ejb3">
            <delete file="deploy/${project.name}.ejb3"/>
            <jar destfile="deploy/${project.name}.ejb3">
                  <zipfileset dir="bin/ejb3"
                        prefix="ejb3" includes="**"/>
            </jar>
      </target>
      <target name="ear" description="${project.name}.ear">
            <delete file="deploy/${project.name}.ear"/>
            <jar destfile="deploy/${project.name}.ear">
                  <zipfileset dir="deploy"
                        includes="${project.name}.ejb3"/>
                  <zipfileset dir="bin/META-INF"
                       prefix="META-INF" includes="*.xml"/>
            </jar>
            <delete file="deploy/${project.name}.ejb3" />
      </target>
      <target name="deploy" description="deploy">
            <delete file="${deploy.dir}/${project.name}.ear" />
            <copy file="deploy/${project.name}.ear"</pre>
                  todir="${deploy.dir}" />
      </target>
</project>
```

properties.xml

```
jboss.server=jboss-4.0.4.GA
deploy.dir=C:\\java\\${jboss.server}\\server\\default\\deploy
conf.dir=C:\\java\\${jboss.server}\\server\\default\\conf
lib.dir=C:\\java\\${jboss.server}\\server\\default\\lib
project.name=solution-002
```

Servlet com Bean Local e Remoto



É a junção do projeto para Servlet com o projeto para Bean. Os dois projetos serão sobrepostos e os arquivos **application.xml** e **packaging-build.xml** deverão refletir a junção da aplicação WEB e EJB3.

A propriedade **project.name** do arquivo properties recebera o nome do novo projeto, assim como as referências aos módulos no arquivo **application.xml**.

Instruções:

- 1. Crie um novo projeto de nome **solution-003** como já descrito neste documento.
- 2. Abra a pasta C:\java\workspace e copie o conteúdo do projetos **solution-001** e **solution-002** diretamente para a pasta do novo projeto, sobrepondo os arquivos que já existirem.
- 3. De volta ao eclipse, clique com o botão direito na pasta do novo projeto e acione a opção **refresh** para que a disposição dos novos arquivos seja apresentada no eclipse.
- 4. Altere os arquivos **Operation.java** conforme segue. (O Bean do projeto solution-003 terá apenas interface local)

Operation.java

```
package ejb3.stateless;
import javax.ejb.Stateless;
import ejb3.interfaces.IOperationLocal;

public @Stateless class Operation implements IOperationLocal {
    public int multiply(int a, int b) {
        return a*b;
    }
}
```

5. Crie uma cópia da interface l'Operation com o nome loperationLocal e altere como indicado.

IOperationLocal.java

```
package ejb3.interfaces;
import javax.ejb.Local;

@Local
public interface IOperationLocal {

    public int multiply(int a, int b);
}
```

6. Altere o arquivo properties com o novo nome.

properties.xml

```
jboss.server=jboss-4.0.4.GA
deploy.dir=C:\\java\\${jboss.server}\\server\\default\\deploy
conf.dir=C:\\java\\${jboss.server}\\server\\default\\conf
lib.dir=C:\\java\\${jboss.server}\\server\\default\\lib
project.name=solution-003
```

- 7. Copie o target war do projeto solution-001 para o novo packaging-build.xml incluindo também a dependencia ao target main.
- 8. Faça a junção do target ear do projeto solution-001 com o target ear do novo projeto.

packaging-build.xml

```
<?xml version="1.0" encoding="UTF-8"?>
project name="Packaging Generator" default="main">
      property file="properties" />
      <target name="main" depends="war,ejb3,ear,deploy"/>
      <target name="ejb3" description="${project.name}.ejb3">
            <delete file="deploy/${project.name}.ejb3"/>
            <jar destfile="deploy/${project.name}.ejb3">
                  <zipfileset dir="bin/ejb3"</pre>
                        prefix="ejb3" includes="**"/
            </jar>
      </target>
      <target name="war" description="${project.name}.war">
            <delete file="deploy/${project.name}.war"/>
            <jar destfile="deploy/${project.name}.war">
                  <zipfileset
                        dir="bin/web"
                        prefix="WEB-INF/classes/web" includes="**"/>
                  <zipfileset
                        dir="bin/WEB-INF"
                        prefix="WEB-INF" includes="*.xml"/>
            </jar>
      </target>
      <target name="ear" description="${project.name}.ear">
            <delete file="deploy/${project.name}.ear"/>
            <jar destfile="deploy/${project.name}.ear">
                  <zipfileset dir="deploy"
                        includes="${project.name}.war"/>
                  <zipfileset dir="deploy"</pre>
                        includes="${project.name}.ejb3"/>
                  <zipfileset dir="bin/META-INF"
                        prefix="META-INF" includes="*.xml"/>
            </jar>
            <delete file="deploy/${project.name}.ejb3" />
      </target>
      <target name="deploy" description="deploy">
            <delete file="${deploy.dir}/${project.name}.ear" />
            <copy file="deploy/${project.name}.ear"</pre>
                  todir="${deploy.dir}" />
      </target>
</project>
```

- 9. Adicione a referência do modulo web do projeto solution-001 ao application.xml do novo projeto.
- 10. Corrija as referências ao nome dos módulos **ejb3 e war**, assim como o **description** e o **display-name** para que reflitam as propriedades do novo projeto.

application.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<application version="1.4"</pre>
      xmlns="http://java.sun.com/xml/ns/j2ee"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee
      http://java.sun.com/xml/ns/j2ee/application_1_4.xsd">
    <description>Servlet com Bean local e remoto</description>
    <display-name>Servlet com Bean local e remoto</display-name>
    <module>
        <web>
          <web-uri>solution-003.war</web-uri>
<context-root>solution-003</context-root>
        </web>
    </module>
    <module>
        <ejb>solution-003.ejb3</ejb>
    </module>
</application>
```

11. Insira as chamadas aos Beans no Servlet.

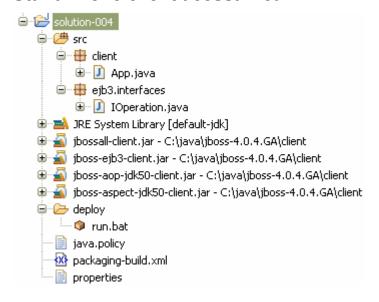
Servlet.java

```
package web.servlet;
import javax.naming.Context;
import javax.naming.InitialContext;
import javax.servlet.http.HttpServlet;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import ejb3.interfaces.IOperation;
import ejb3.interfaces.IOperationLocal;
public class Servlet extends HttpServlet {
      @Override
      protected void doGet(
            HttpServletRequest req,
            HttpServletResponse resp
      ) throws ServletException, IOException {
            Context ctx = null;
            try {
                  ctx = new InitialContext();
                  IOperationLocal opm = (IOperationLocal)ctx.lookup(
                        "solution-003/Operation/local");
                  resp.getWriter().print(
                        "<br>multiply local : " + opm.multiply(2, 3));
            } catch (Exception e) {
                  e.printStackTrace();
            try {
                  Properties properties = new Properties();
                  properties.put(
                        "java.naming.factory.initial",
                        "org.jnp.interfaces.NamingContextFactory");
                  properties.put(
                        "java.naming.factory.url.pkgs",
                        "=org.jboss.naming:org.jnp.interfaces");
                  properties.put(
                        "java.naming.provider.url",
                        "localhost:1099");
                  ctx = new InitialContext(properties);
                  IOperation ops = (IOperation)ctx.lookup(
                        "solution-002/Operation/remote");
                  resp.getWriter().print(
                        "<br>sum remote : " + ops.sum(2, 3));
            } catch (Exception e) {
                  e.printStackTrace();
            }
      }
```

Criar um novo projeto J2SE

- 1. Abra o menu file > new > project... > java > java project.
- 2. Clique Next.
- 3. Nomeie o novo projeto solution-004.
- 4. Clique Next.
- 5. Na janela Java Settings clique em Create new source folder.
- 6. Preencha o campo Folder name com src.
- Clique em Finish.
 Selecione a opção Allow output folders for source folders.
- 9. Certifique-se que o campo Default output folder esteja exibindo solution-004/bin.
- 10. Selecione a aba **Libraries**.
- 11. Clique em Add External JARs....
- 12. A partir do diretório C:\java\jboss-4.0.4.GA\client selecione as seguintes bibliotecas: "jbossall-client.jar" "jboss-aop-jdk50-client.jar" "jboss-aspect-jdk50-client.jar" "jboss-ejb3client.jar".
- 13. Clique em Abrir e depois Finish.
- 14. Habilitar build automático no projeto como em demonstrado na sessão Deploy.

Stand-Alone client acessa Bean



App.java

```
package client;
import java.rmi.RMISecurityManager;
import java.util.Properties;
import javax.naming.Context;
import javax.naming.InitialContext;
import javax.naming.NamingException;
import javax.swing.JFrame;
import ejb3.interfaces.IOperation;
public class App extends JFrame {
      App() {
            this.setSize(200,200);
            this.setVisible(true);
            this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
            Context ctx;
            System.setProperty("java.security.policy","java.policy");
            if (System.getSecurityManager() == null) {
                  System.setSecurityManager(new RMISecurityManager());
            try {
                  Properties properties = new Properties();
                  properties.put(
                        Context. INITIAL CONTEXT FACTORY,
                        "org.jnp.interfaces.NamingContextFactory");
                  properties.put(
                        Context. URL PKG PREFIXES,
                        "org.jboss.naming:org.jnp.interfaces.jnp");
                  properties.put(
                        Context.PROVIDER_URL,
                        "jnp://localhost:1099");
                  ctx = new InitialContext(properties);
                  IOperation op = (IOperation)ctx.lookup(
                        "solution-002/Operation/remote");
```

```
int res = op.sum(2,2);
    System.out.println("a soma é: " + res );
    res = op.subtract(5, 2);
    System.out.println("a subtração é: " + res );
} catch (NamingException e) {
        e.printStackTrace();
}

public static void main(String[] args) {
    new App();
}
```

IOperation.java

```
package ejb3.interfaces;
import javax.ejb.Remote;

@Remote
public interface IOperation {
    public int sum(int a, int b);
    public int subtract(int a, int b);
}
```

java.policy

```
grant {
    permission java.security.AllPermission;
};
```

packaging-build.xml

```
<?xml version="1.0" encoding="UTF-8"?>
project name="Packaging Generator" default="main">
      cproperty file="properties" />
      <target name="main" depends="jar"/>
      <target name="jar" description="${project.name}.jar">
            <delete file="deploy/${project.name}.jar"/>
            <copy file="${client.libs.dir}/jbossall-client.jar"</pre>
                  todir="deploy/lib" />
            <copy file="${client.libs.dir}/jnp-client.jar"</pre>
                  todir="deploy/lib" />
            <copy file="${client.libs.dir}/jboss-aop-jdk50-client.jar"</pre>
                  todir="deploy/lib" />
            <copy file="${client.libs.dir}/</pre>
                  jboss-aspect-jdk50-client.jar"
                  todir="deploy/lib" />
            <copy file="${client.libs.dir}/jboss-ejb3-client.jar"</pre>
                  todir="deploy/lib" />
            <copy file="java.policy" todir="deploy" />
            <jar destfile="deploy/${project.name}.jar">
                  <manifest>
                        <attribute
                              name="Built-By"
                               value="${user.name}"/>
                         <attribute
                               name="Package-Title"
                               value="${manifest.package.title}"/>
                        <attribute
```

```
name="Package-Version"
                              value="${manifest.package.version}"/>
                        <attribute
                              name="Package-Vendor"
                              value="${manifest.package.vendor}"/>
                        <attribute
                              name="Main-Class"
                              value="${manifest.main.class}"/>
                        <attribute
                             name="Class-Path"
                              value="${manifest.class.path}"/>
                  </manifest>
                  <zipfileset dir="bin" includes="**"/>
            </jar>
      </target>
</project>
```

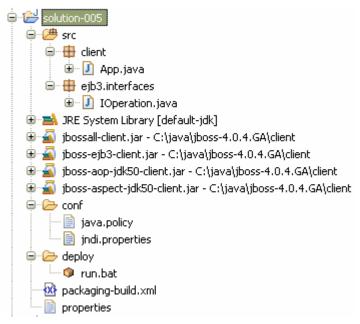
properties

```
project.name=solution-004
manifest.package.title=Stand-alone Client Bean Acess
manifest.package.version=build1
manifest.package.vendor=BESC - Banco Estadual de Santa Catarina
manifest.main.class=client.App
manifest.class.path=lib/jbossall-client.jar lib/jnp-client.jar lib/jboss-aop-
jdk50-client.jar lib/jboss-aspect-jdk50-client.jar lib/jboss-ejb3-client.jar
```

run.bat

```
java -cp . -jar solution-004.jar
```

Stand-Alone client acessa Bean JNDI externalizado e java.policy embutido



Instruções:

- 1. Crie um novo projeto de nome solution-005 como já descrito neste documento.
- 2. Abra a pasta C:\java\workspace e copie o conteúdo do projetos **solution-004** diretamente para a pasta do novo projeto, sobrepondo os arquivos que já existirem.
- 3. De volta ao eclipse, clique com o botão direito na pasta do novo projeto e acione a opção **refresh** para que a disposição dos novos arquivos seja apresentada no eclipse.
- 4. Adicione o arquivo jndi.properties ao diretório conf e altere os arquivos App.java e packaging-build.xml conforme segue.

Objetivo:

O uso de um arquivo de propriedades permite que o provedor possa ser alterado sem alterar o código da aplicação. Ainda possibilita a utilização de vários arquivos de propriedades com os provedores correspondentes.

O deploy do arquivo java.policy dentro do jar do cliente.

indi.properties

```
java.naming.factory.initial=org.jnp.interfaces.NamingContextFactory
java.naming.factory.url.pkgs=org.jboss.naming:org.jnp.interfaces.jnp
java.naming.provider.url=jnp://localhost:1099
```

App.java

```
package client;
import java.rmi.RMISecurityManager;
import java.util.Properties;
import javax.naming.Context;
import javax.naming.InitialContext;
import javax.naming.NamingException;
import javax.swing.JFrame;
import ejb3.interfaces.IOperation;

public class App extends JFrame {

    App() {
        this.setSize(200,200);
    }
}
```

```
this.setVisible(true);
      this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
      Context ctx;
      ClassLoader cl = this.getClass().getClassLoader();
      URL policyURL = cl.getResource("conf/java.policy");
      System.setProperty("java.security.policy", policyURL.toString());
      if (System.getSecurityManager() == null) {
            System.setSecurityManager(new RMISecurityManager());
      try {
            Properties properties = new Properties();
            cl = this.getClass().getClassLoader();
            InputStream is = cl.getResourceAsStream(
                  "jndi.properties");
            try {
                  properties.load(is);
            } catch (IOException e) {
                  e.printStackTrace();
            ctx = new InitialContext(properties);
            IOperation op = (IOperation)ctx.lookup(
                  "solution-002/Operation/remote");
            int res = op.sum(2,2);
            System.out.println("a soma é: " + res );
            res = op.subtract(5, 2);
            System.out.println("a subtração é: " + res );
      } catch (NamingException e) {
            e.printStackTrace();
public static void main(String[] args) {
      new App();
```

packaging-build.xml

```
<?xml version="1.0" encoding="UTF-8"?>
project name="Packaging Generator" default="main">
      cproperty file="properties" />
      <target name="main" depends="jar"/>
      <target name="jar" description="${project.name}.jar">
            <delete file="deploy/${project.name}.jar"/>
            <copy file="${client.libs.dir}/jbossall-client.jar"</pre>
                  todir="deploy/lib" />
            <copy file="${client.libs.dir}/jnp-client.jar"</pre>
                  todir="deploy/lib" />
            <copy file="${client.libs.dir}/jboss-aop-jdk50-client.jar"</pre>
                  todir="deploy/lib" />
            <copy file="${client.libs.dir}/</pre>
                  jboss-aspect-jdk50-client.jar"
                  todir="deploy/lib" />
            <copy file="${client.libs.dir}/jboss-ejb3-client.jar"</pre>
                  todir="deploy/lib" />
            <jar destfile="deploy/${project.name}.jar">
                  <manifest>
                         <attribute
                               name="Built-By"
                               value="${user.name}"/>
```

```
<attribute
                             name="Package-Title"
                             value="${manifest.package.title}"/>
                        <attribute
                             name="Package-Version"
                             value="${manifest.package.version}"/>
                        <attribute
                             name="Package-Vendor"
                             value="${manifest.package.vendor}"/>
                        <attribute
                             name="Main-Class"
                             value="${manifest.main.class}"/>
                        <attribute
                             name="Class-Path"
                             value="${manifest.class.path}"/>
                  </manifest>
                  <zipfileset dir="bin" includes="**"/>
                  <zipfileset dir="conf" prefix="conf" includes="**"/>
            </jar>
      </target>
</project>
```

Stand-Alone client acessa Bean referenciando libs fora do diretório da aplicação

Instruções:

- 1. Crie um novo projeto de nome **solution-006** como já descrito neste documento.
- 2. Abra a pasta C:\java\workspace e copie o conteúdo do projetos **solution-005** diretamente para a pasta do novo projeto, sobrepondo os arquivos que já existirem.
- 3. De volta ao eclipse, clique com o botão direito na pasta do novo projeto e acione a opção **refresh** para que a disposição dos novos arquivos seja apresentada no eclipse.
- 4. Altere o arquivo properties e packaging-build.xml conforme segue.

Objetivo:

Obter acesso compartilhado a bibliotecas jar.

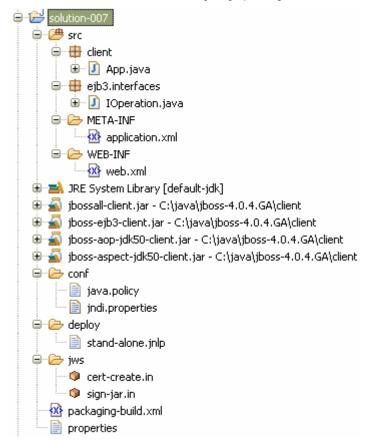
properties

```
project.name=solution-006
manifest.package.title=Stand-alone Client Bean Acess
manifest.package.version=build1
manifest.package.vendor=BESC - Banco Estadual de Santa Catarina
manifest.main.class=client.App
manifest.class.path=${client.libs.url}/jbossall-client.jar
${client.libs.url}/jnp-client.jar ${client.libs.url}/jboss-aop-jdk50-client.jar
${client.libs.url}/jboss-aspect-jdk50-client.jar ${client.libs.url}/jboss-ejb3-client.jar
client.libs.url=file:/c:/java/jboss-4.0.4.GA/client
```

packaging-build.xml

```
<?xml version="1.0" encoding="UTF-8"?>
oject name="Packaging Generator" default="main">
      cproperty file="properties" />
      <target name="main" depends="jar"/>
      <target name="jar" description="${project.name}.jar">
            <delete file="deploy/${project.name}.jar"/>
            <jar destfile="deploy/${project.name}.jar">
                  <manifest>
                        <attribute
                              name="Built-By"
                              value="${user.name}"/>
                        <attribute
                              name="Package-Title"
                              value="${manifest.package.title}"/>
                        <attribute
                              name="Package-Version"
                              value="${manifest.package.version}"/>
                        <attribute
                              name="Package-Vendor"
                              value="${manifest.package.vendor}"/>
                        <attribute
                              name="Main-Class"
                              value="${manifest.main.class}"/>
                        <attribute
                             name="Class-Path"
                              value="${manifest.class.path}"/>
                  </manifest>
                  <zipfileset dir="bin" includes="**"/>
                  <zipfileset dir="conf" prefix="conf" includes="**"/>
            </jar>
      </target>
</project>
```

Stand-Alone client acessa Bean JavaWebStart com full deploy (libs jboss incluidas)



Instruções:

- 5. Crie um novo projeto de nome solution-007 como já descrito neste documento.
- 6. Abra a pasta C:\java\workspace e copie o conteúdo do projetos **solution-006** diretamente para a pasta do novo projeto, sobrepondo os arquivos que já existirem.
- 7. De volta ao eclipse, clique com o botão direito na pasta do novo projeto e acione a opção **refresh** para que a disposição dos novos arquivos seja apresentada no eclipse.
- 8. Altere o arquivos, **App.java**, **properties** e **packaging-build.xml** conforme segue.
- 9. Inclua os descritores .jnlp , os arquivos application.xml e web.xml e os arquivos de entrada de teclado cert-create.in e sign-jar.in.

Objetivo:

Disponibilizar a aplicação através da web.

App.java

```
package client;
import java.awt.BorderLayout;
import java.io.IOException;
import java.io.InputStream;
import java.io.PrintWriter;
import java.io.StringWriter;
import java.net.URL;
import java.rmi.RMISecurityManager;
import java.util.Properties;
import javax.naming.Context;
import javax.naming.InitialContext;
import javax.naming.NamingException;
import javax.swing.JFrame;
import javax.swing.JScrollPane;
```

```
import javax.swing.JTextArea;
import ejb3.interfaces.IOperation;
public class App extends JFrame {
      JTextArea debug;
      App() {
            this.setSize(200,200);
            this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
            debug = new JTextArea();
            JScrollPane scrollPane = new JScrollPane(debug);
            this.getContentPane().add(scrollPane,BorderLayout.CENTER);
            this.validate();
            this.setVisible(true);
            Context ctx;
            ClassLoader cl = this.getClass().getClassLoader();
            URL policyURL = cl.getResource("conf/java.policy");
            System.setProperty("java.security.policy",policyURL.toString());
            if (System.getSecurityManager() == null) {
                  System.setSecurityManager(new RMISecurityManager());
            try {
                  Properties properties = new Properties();
                  cl = this.getClass().getClassLoader();
                  InputStream is = cl.getResourceAsStream(
                        "conf/jndi.properties");
                  try {
                        properties.load(is);
                  } catch (IOException e) {
                        e.printStackTrace();
                        this.debug( this.getStackTrace(e) );
                  ctx = new InitialContext(properties);
                  IOperation op = (IOperation)ctx.lookup(
                        "solution-002/Operation/remote");
                  int res = op.sum(2,2);
                  String text = "a soma é: " + Integer.toString(res);
                  this.debug(text);
                  res = op.subtract(5, 2);
                  text = "a subtração é: " + Integer.toString(res);
                  this.debug(text);
            } catch (NamingException e) {
                  e.printStackTrace();
                  this.debug( this.getStackTrace(e) );
            }
      private String getStackTrace(Throwable t)
            StringWriter sw = new StringWriter();
            PrintWriter pw = new PrintWriter(sw, true);
            t.printStackTrace(pw);
            pw.flush();
            sw.flush();
            return sw.toString();
```

```
private void debug(String text) {
    debug.insert("# " + text + "\n", 0 );
    debug.setCaretPosition(0);
}

public static void main(String[] args) {
    new App();
}
```

properties

```
project.name=solution-007
manifest.package.title=Stand-alone Client Bean Acess
manifest.package.version=build1
manifest.package.vendor=BESC - Banco Estadual de Santa Catarina
manifest.main.class=client.App
jboss.server=jboss-4.0.4.GA
deploy.dir=C:\\java\\${jboss.server}\\server\\default\\deploy
conf.dir=C:\\java\\${jboss.server}\\server\\default\\conf
lib.dir=C:\\java\\${jboss.server}\\server\\default\\lib
client.libs.url=lib/
client.libs.dir=C:/java/jboss-4.0.4.GA/client
jar-01=jbossall-client.jar
jar-02=jnp-client.jar
jar-03=jboss-aop-jdk50-client.jar
jar-04=jboss-aspect-jdk50-client.jar
jar-05=jboss-ejb3-client.jar
jar.signed-01=${client.libs.url}${jar-01}
jar.signed-02=${client.libs.url}${jar-02}
jar.signed-03=${client.libs.url}${jar-03}
jar.signed-04=${client.libs.url}${jar-04}
jar.signed-05=${client.libs.url}${jar-05}
manifest.class.path=${jar.signed-01} ${jar.signed-02} ${jar.signed-03}
${jar.signed-04} ${jar.signed-05}
```

packaging-build.xml

```
<?xml version="1.0" encoding="UTF-8"?>
cproject name="Packaging Generator" default="main">
     cproperty file="properties" />
     <target name="main" depends="jar, jws, war, ear, deploy"/>
     <target name="jar" description="${project.name}.jar">
           <delete file="deploy/${project.name}.jar"/>
           <copy file="${client.libs.dir}/${jar-01}" todir="deploy/lib" />
           <copy file="${client.libs.dir}/${jar-02}" todir="deploy/lib" />
           <copy file="${client.libs.dir}/${jar-03}" todir="deploy/lib" />
           <copy file="${client.libs.dir}/${jar-04}" todir="deploy/lib" />
           <copy file="${client.libs.dir}/${jar-05}" todir="deploy/lib" />
           <jar destfile="deploy/${project.name}.jar">
                 <manifest>
                 <attribute name="Built-By" value="${user.name}"/>
                 <attribute name="Package-Title"
                        value="${manifest.package.title}"/>
                 <attribute name="Package-Version"
```

```
value="${manifest.package.version}"/>
            <attribute name="Package-Vendor"
                 value="${manifest.package.vendor}"/>
            <attribute name="Main-Class"
                 value="${manifest.main.class}"/>
            <attribute name="Class-Path"
                 value="${manifest.class.path}"/>
            </manifest>
            <zipfileset dir="bin" includes="**"/>
            <zipfileset dir="conf" prefix="conf" includes="**"/>
     </jar>
</target>
<target name="jws" description="prepare jws certificate">
     <delete file="deploy/stand-alone-certificate" />
     <exec dir="deploy" executable="keytool" input="jws/cert-create.in">
           <arg value="-genkey"/>
           <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
           <arg value="-alias"/>
           <arg value="saclient"/>
     </exec>
      <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
           <arg value="-verbose"/>
           <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
           <arg value="solution-007.jar"/>
           <arg value="saclient"/>
     </exec>
      <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
           <arg value="-verbose"/>
           <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
           <arg value="${jar.signed-01}"/>
           <arg value="saclient"/>
      <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
           <arg value="-verbose"/>
           <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
           <arg value="${jar.signed-02}"/>
           <arg value="saclient"/>
     </exec>
     <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
           <arg value="-verbose"/>
           <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
           <arg value="${jar.signed-03}"/>
           <arg value="saclient"/>
     </exec>
      <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
            <arg value="-verbose"/>
            <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
            <arg value="${jar.signed-04}"/>
            <arg value="saclient"/>
     </exec>
      <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
            <arg value="-verbose"/>
           <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
           <arg value="${jar.signed-05}"/>
```

```
<arg value="saclient"/>
            </exec>
     </target>
     <target name="war" description="${project.name}.war">
           <delete file="deploy/${project.name}.war"/>
            <jar destfile="deploy/${project.name}.war">
                  <zipfileset
                        dir="deploy"
                        prefix=""
                        includes="**"
                        excludes="${project.name}.ear,stand-alone-local.jnlp"/>
                  <zipfileset
                        dir="bin/WEB-INF"
                        prefix="WEB-INF/"
                        includes="**"/>
           </jar>
           <delete file="deploy/lib/${jar-01}" />
           <delete file="deploy/lib/${jar-02}" />
           <delete file="deploy/lib/${jar-03}" />
           <delete file="deploy/lib/${jar-04}" />
           <delete file="deploy/lib/${jar-05}" />
     </target>
     <target name="ear" description="${project.name}.ear">
           <delete file="deploy/${project.name}.ear"/>
           <jar destfile="deploy/${project.name}.ear">
                 <zipfileset dir="deploy" includes="${project.name}.war"/>
                  <zipfileset
                        dir="bin/META-INF"
                        prefix="META-INF"
                        includes="*.xml"/>
           </jar>
           <delete file="deploy/${project.name}.war" />
     </target>
     <target name="deploy" description="deploy">
           <delete file="${deploy.dir}/${project.name}.ear" />
           <copy file="deploy/${project.name}.ear" todir="${deploy.dir}" />
      </target>
</project>
```

stand-alone.jnlp

```
<?xml version="1.0" encoding="UTF-8"?>
<jnlp
      spec="1.0+"
      codebase="http://localhost:8080/solution-007"
      href="stand-alone.jnlp"
  <information>
     <title>Stand-Alone EJB3 Client</title>
     <vendor>BESC - BESC - Banco do Estado de Santa Catarina/vendor>
     <homepage href="http://www.besc.com.br" />
     <description>A simple swing EJB client with JWS.</description>
     <offline-allowed />
   </information>
  <resources>
     <j2se version="1.4+"/>
     <jar href="solution-007.jar" main="true" />
     <jar href="lib/jboss-ejb3-client.jar"</pre>
```

cert-create.in

```
123456<ENTER>
123456<ENTER>
SADSI - Stand Alone Client<ENTER>
COMRE<ENTER>
BESC Banco do Estado de Santa Catarina<ENTER>
Florianópolis<ENTER>
Santa Catarina<ENTER>
br<ENTER>
yes<ENTER>
123456<ENTER>
123456<ENTER>
```

sign-jar.in

123456<ENTER>

application.xml

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app version="2.4"
    xmlns="http://java.sun.com/xml/ns/j2ee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee
    http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd"></web-app>
```

Stand-Alone client acessa Bean

JavaWebStart utilizando biblioteca local compartilhada (deploy reduzido)

Instruções:

- 1. Crie um novo projeto de nome **solution-008** como já descrito neste documento.
- 2. Abra a pasta C:\java\workspace e copie o conteúdo do projetos **solution-007** diretamente para a pasta do novo projeto, sobrepondo os arquivos que já existirem.
- 3. De volta ao eclipse, clique com o botão direito na pasta do novo projeto e acione a opção **refresh** para que a disposição dos novos arquivos seja apresentada no eclipse.
- 4. Altere o arquivo properties, stand-alone.jnlp e packaging-build.xml conforme segue.

Obietivo:

Disponibilizar a aplicação através da web.

properties

```
project.name=solution-008
manifest.package.title=Stand-alone Client Bean Acess
manifest.package.version=build1
manifest.package.vendor=BESC - Banco Estadual de Santa Catarina
manifest.main.class=client.App
jboss.server=jboss-4.0.4.GA
deploy.dir=C:\\java\\${jboss.server}\\server\\default\\deploy
conf.dir=C:\\java\\${jboss.server}\\server\\default\\conf
lib.dir=C:\\java\\${jboss.server}\\server\\default\\lib
client.libs.url=c:/lib/
client.libs.dir=C:/java/jboss-4.0.4.GA/client
jar-01=jbossall-client.jar
jar-02=jnp-client.jar
jar-03=jboss-aop-jdk50-client.jar
jar-04=jboss-aspect-jdk50-client.jar
jar-05=jboss-ejb3-client.jar
jar.signed-01=${client.libs.url}${jar-01}
jar.signed-02=${client.libs.url}${jar-02}
jar.signed-03=${client.libs.url}${jar-03}
jar.signed-04=${client.libs.url}${jar-04}
jar.signed-05=${client.libs.url}${jar-05}
manifest.class.path=${jar.signed-01} ${jar.signed-02} ${jar.signed-03}
${jar.signed-04} ${jar.signed-05}
```

stand-alone.jnlp

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

<jnlp
    spec="1.0+"
    codebase="http://localhost:8080/solution-008"
    href="stand-alone.jnlp"
>

    <information>
        <title>Stand-Alone EJB3 Client</title>
        <vendor>BESC - BESC - Banco do Estado de Santa Catarina</vendor>
        <homepage href="http://www.besc.com.br" />
        <description>A simple swing EJB client with java web start.</description>
```

```
<offline-allowed />
   </information>
  <resources>
    <j2se version="1.4+"/>
    <jar href="solution-008.jar" main="true" />
    <jar href="file:/c:/lib/jboss-ejb3-client.jar" />
    <jar href="file:/c:/lib/jbossall-client.jar" />
    <jar href="file:/c:/lib/jnp-client.jar" />
    <jar href="file:/c:/lib/jboss-aop-jdk50-client.jar" />
    <jar href="file:/c:/lib/jboss-aspect-jdk50-client.jar" />
  </resources>
  <application-desc main-class="client.App"/>
  <security>
    <all-permissions/>
  </security>
</jnlp>
```

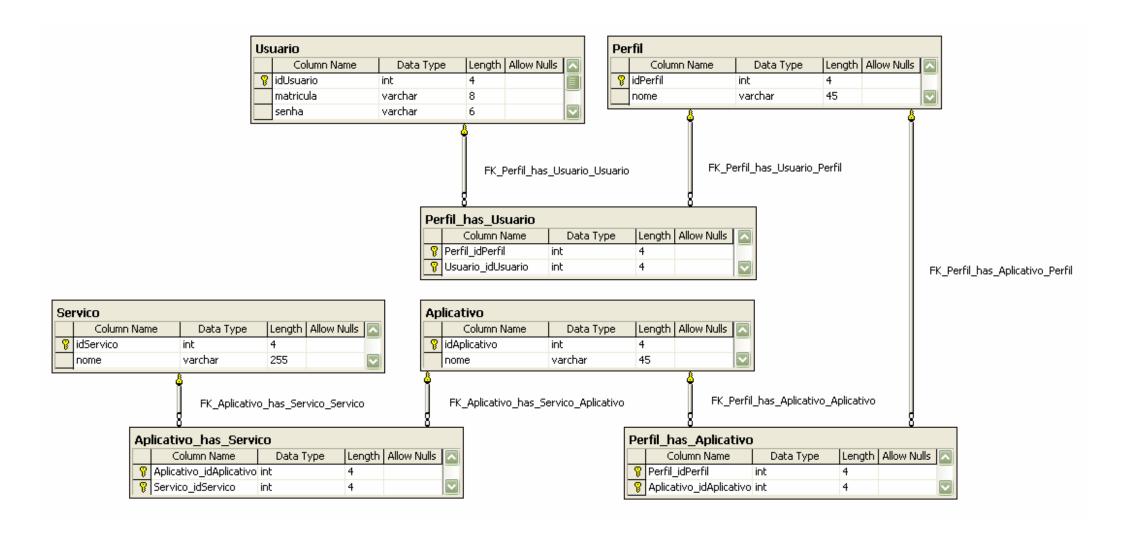
packaging-build.xml

```
<?xml version="1.0" encoding="UTF-8"?>
project name="Packaging Generator" default="main">
      cproperty file="properties" />
      <target name="main" depends="jar,jws,war,ear, deploy"/>
      <target name="jar" description="${project.name}.jar">
            <delete file="deploy/${project.name}.jar"/>
            <delete file="${jar.signed-01}"/>
            <delete file="${jar.signed-02}"/>
            <delete file="${jar.signed-03}"/>
            <delete file="${jar.signed-04}"/>
            <delete file="${jar.signed-05}"/>
            <copy file="${client.libs.dir}/${jar-01}"</pre>
                  todir="${client.libs.url}" />
            <copy file="${client.libs.dir}/${jar-02}"</pre>
                  todir="${client.libs.url}" />
            <copy file="${client.libs.dir}/${jar-03}"</pre>
                  todir="${client.libs.url}" />
            <copy file="${client.libs.dir}/${jar-04}"</pre>
                  todir="${client.libs.url}" />
            <copy file="${client.libs.dir}/${jar-05}"</pre>
                  todir="${client.libs.url}" />
            <jar destfile="deploy/${project.name}.jar">
                  <manifest>
                  <attribute name="Built-By" value="${user.name}"/>
                  <attribute name="Package-Title"
                        value="${manifest.package.title}"/>
                  <attribute name="Package-Version"</pre>
                        value="${manifest.package.version}"/>
                  <attribute name="Package-Vendor"
                        value="${manifest.package.vendor}"/>
                  <attribute name="Main-Class"
                        value="${manifest.main.class}"/>
                  <attribute name="Class-Path"
                        value="${manifest.class.path}"/>
                  </manifest>
                  <zipfileset dir="bin/client" prefix="client" includes="**"/>
                  <zipfileset dir="bin/ejb3" prefix="ejb3" includes="**"/>
                  <zipfileset dir="conf" prefix="conf" includes="**"/>
```

```
</jar>
</target>
<target name="jws" description="prepare jws certificate">
      <delete file="deploy/stand-alone-certificate" />
      <exec dir="deploy" executable="keytool" input="jws/cert-create.in">
            <arg value="-genkey"/>
            <arg value="-keystore"/>
            <arg value="stand-alone-certificate"/>
            <arg value="-alias"/>
            <arg value="saclient"/>
      </exec>
      <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
           <arg value="-verbose"/>
           <arg value="-keystore"/>
            <arg value="stand-alone-certificate"/>
            <arg value="${project.name}.jar"/>
            <arg value="saclient"/>
      </exec>
      <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
           <arg value="-verbose"/>
            <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
            <arg value="${jar.signed-01}"/>
            <arg value="saclient"/>
      </exec>
      <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
           <arg value="-verbose"/>
           <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
            <arg value="${jar.signed-02}"/>
            <arg value="saclient"/>
      </exec>
      <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
           <arg value="-verbose"/>
           <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
           <arg value="${jar.signed-03}"/>
            <arg value="saclient"/>
      </exec>
      <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
           <arg value="-verbose"/>
           <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
            <arg value="${jar.signed-04}"/>
            <arg value="saclient"/>
      </exec>
      <exec dir="deploy" executable="jarsigner" input="jws/sign-jar.in">
            <arg value="-verbose"/>
            <arg value="-keystore"/>
           <arg value="stand-alone-certificate"/>
            <arg value="${jar.signed-05}"/>
            <arg value="saclient"/>
      </exec>
<target name="war" description="${project.name}.war">
      <delete file="deploy/${project.name}.war"/>
      <jar destfile="deploy/${project.name}.war">
            <zipfileset
                  dir="deploy"
                  prefix=""
```

```
includes="**"
                        excludes="${project.name}.ear,stand-alone-local.jnlp"/>
                  <zipfileset
                       dir="bin/WEB-INF"
                       prefix="WEB-INF/"
                       includes="**"/>
           </jar>
     </target>
     <target name="ear" description="${project.name}.ear">
           <delete file="deploy/${project.name}.ear"/>
           <jar destfile="deploy/${project.name}.ear">
                 <zipfileset dir="deploy" includes="${project.name}.war"/>
                 <zipfileset
                       dir="bin/META-INF"
                       prefix="META-INF"
                       includes="*.xml"/>
           </jar>
           <delete file="deploy/${project.name}.war" />
     </target>
     <target name="deploy" description="deploy">
           <delete file="${deploy.dir}/${project.name}.ear" />
           <copy file="deploy/${project.name}.ear" todir="${deploy.dir}" />
     </target>
</project>
```

Banco de dados



MSSQL Stored Procedures/Functions

Usuario

sp_autentica

sp_autoriza

sp_cria_usuario

```
/*-----
 DESCRICAO:
    Rotina para criação de novo usuário.
     Valores de retorno:
      0 - usuário e senha ok!
      1 - usuário não cadastrado
      2 - senha inválida
      3 - usuário inativo
      4 - senha alterada
      5 - usuário incluido
      6 - usuário alterado
      7 - usuário desativado
      8 - usuário ativado
      9 - usuário já cadastrado
______
ALTERACOES:
AUTOR DATA OBS.:
Royquener 12/2005 Criação
Ruben Trancoso 06/2007 Migração da sp para o novo squema
*/
CREATE procedure [dbo].[sp_cria_usuario]
@matricula varchar(8)
,@senha varchar(6)
set nocount on
if exists (select 1 from Usuario where matricula = @matricula )
     begin
          raiserror ('Usuário já cadastrado', 16,9)
          return 9
     end
else
     begin
          insert into dbo. Usuario
                 (matricula
                  ,senha)
           values
                  (@matricula
                  ,@senha)
     end
set nocount off
```

GO

- sp_remove_usuario
- sp_obtem_usuario
- sp_altera_usuario
- sp_reinicializa_senha
- sp_troca_senha

Perfil

- sp_cria_perfil
- sp_remove_perfil

Aplicativo

- sp_cria_aplicativo
- sp_remove_aplicativo
- sp_obtem_aplicativo
- sp_altera_aplicativo

Servico

- sp_cria_servico
- sp_remove_servico
- sp_obtem_servico
- sp_altera_servico

Associações

- sp_usuario_associa_perfil
- sp_aplicativo_associa_perfil
- sp_servico_associa_aplicativo

JDBC acessa stored procedure



Driver JDBC para MSSQL

Nome atualizado: The jTDS Project Biblioteca jar: jtds-1.2.jar

Descrição: jTDS is an open source 100% pure Java (type 4) JDBC 3.0 driver for Microsoft SQL

Server (6.5, 7, 2000 and 2005) and Sybase (10, 11, 12, 15). jTDS is based on FreeTDS and is currently the fastest production-ready JDBC driver for SQL Server and Sybase. jTDS is 100% JDBC 3.0 compatible, supporting forward-only and scrollable/updateable ResultSets, concurrent (completely independent) Statements and implementing all the DatabaseMetaData and ResultSetMetaData methods.

URL para download: http://jtds.sourceforge.net/ Data do registro: 27 de junho de 2007

Instanciamento

Observações: Port: 1433

Driver JDBC para MySQL

Nome atualizado: MySQL JDBC Connector

Biblioteca jar: mysql-connector-java-5.0.6-bin.jar

Descrição: Standardized database driver for Java platforms and development.

URL para download: http://dev.mysql.com/downloads/connector/j/5.0.html

Data do registro: 27 de junho de 2007

Instanciamento

Observações:

Port: 3306

Instruções:

- 1. Crie um novo projeto J2SE.
- 2. Adicione uma pasta drivers na raiz do projeto e copie a(s) biblioteca(s) para ela.
- 3. Adicione a(s) biblioteca(s) ao classpath do projeto como já explicado em Criar um novo projeto J2SE.

App.java

```
package client;
import java.sql.CallableStatement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import javax.swing.JFrame;
public class App extends JFrame {
      String driverName = "net.sourceforge.jtds.jdbc.Driver";
      String connString = "jdbc:jtds:sqlserver://db-vm:1433/security;
                                    tds=8.0; user=sa; password=sadesis";
      App() {
            this.cria_usuario("teste", "123456");
      public void cria_usuario(String matricula, String senha) {
            CallableStatement sf;
            try {
                  Class.forName(driverName);
                  Connection connection
                        = DriverManager.getConnection(connString);
                  sf = connection.prepareCall("{ call sp_cria_usuario(?,?) }");
                  sf.setString(1, matricula);
                  sf.setString(2, senha);
                  sf.execute();
            } catch (ClassNotFoundException e) {
                  e.printStackTrace();
            } catch (SQLException e) {
                  e.printStackTrace();
      }
      public static void main(String[] args) {
            new App();
```

JAAS

SSL

Interceptor

Junit