

Default Roles

By default there are 4 basic roles available to a user: They are

Administrator : Has all rights to view as well as execute failed events.

ViewAll : Has rights to only view events and business object data.

ViewEvents : Has rights to only view events. Cannot view business object data.

SubmitEvents : Has rights to only view and resubmit events. Cannot view business object data.

Installing on WAS 5.0.2 – manual

Create custom roles: (Using Application Assembly Tool)

1. Start AAT: Select Start > Programs > IBM WebSphere Application Server v5.0 > Application assembly tool.
2. In the Welcome to AAT dialog click on the tab "Existing". Browse to select the FailedEvents.war file for WAS and click ok. The complete structure of the war file will be seen on the left pane.
3. Right click on Security Roles, select New.
4. In the New Security Role dialog enter a name and description for your custom role. Click OK.
5. Expand Security Constraints. Select SC1 from the left pane.
6. On the right pane, under authorization constraints click Add.
7. Select the role you created in step 5 and click OK.
8. Click Apply.
9. From the root on the left pane, expand Web Components -> expand Login -> right click on Initialization parameters.
10. Select the Role Components parameter and edit the parameter value.
11. The parameter value will be(a string) of the format

```
<RoleName1>:event_owners=<ownername>*connectors=<connectorName>*bos=<boname.verb>#<CompositeKeyValue>+<CompositekeyValue2>/<AnotherPossibleKeyValue>
| <RoleName2>: .....
```

< | > - separates two roles

< : > - separates role name from components of the role

< * > - separates components within a role ex: connectors & bos

< = > - separates component name from its values

< , > - separates values within a component

< # > - separates bo name from its key values

< / > - separates possible keys of a bo

< + > - separates composite key of a bo (two or more primary keys)

Example:

```
"Role1:event_owners=collab1, collab2*connectors=conn1,
conn2*bos=bo1.create#55&67, bo2.delete#99&80"+
"|Role2:event_owners=collab3,collab4*connectors=conn3*bos=
bo4.create#59+9876/82, bo2.delete#56"
```

12. After entering the parameter value, click Apply.
13. File -> save. This will save all the changes to the war file. The war file is ready to be deployed.

Enable Global Security:

14. Start server1: Select Start > Programs > IBM WebSphere Application Server v5.0 > Start Application Server. Wait for the message "Server server1 open for e-business..." to appear before proceeding.
15. Select Start > Programs > IBM WebSphere Application Server v5.0 > Administrative Console.
16. Enter a User id. Click OK.
17. Expand the Security menu on the left navigation frame.
18. Expand the User Registries under Security menu.
19. Click on Local OS (Any of the other user registries can be used based on user expertise).
20. On the Local user registry page on the right pane enter a valid local OS username and password.
21. Click OK. This shows the Global Security page.
22. Under General Properties, click the check box corresponding to "Enabled".
23. Make sure that the check box corresponding to "Enforce Java2 security" is unchecked. Leave the remaining default values.
24. Click OK. then click Save when the following message appears: Changes have been made to your local configuration. Click Save to apply changes to the master configuration
25. This brings up the Save page. Click Save in the Save To Master configuration pane.

Install the war file:

26. Expand the Applications menu in the left navigation frame.
27. Click on the Install New Application link.
28. Either type the fully qualified path to the file named FailedEvents.war in the WebSphere\CS\WBFEM directory, or click the Browse button to navigate to the file.
29. Type **FailedEvents** in the Context Root field. Click Next.
30. Accept the defaults in the Preparing for the application installation window and click Next.
31. Click Next until you reach Step 4. Map security roles to users and groups.
32. In this page you will see the four default roles and the additional roles that were added using the Application Assembly Tool.
33. Click on a checkbox corresponding to a particular role and click on Lookup users.
34. Using the search string look for users either locally or in the domain.
35. Add the required users for the particular role and click ok.
36. Repeat steps 20 – 22 for each role that you want to assign users to.
37. Click Next. Click Finish.
38. Click on the Save to Master Configuration link when you see a message that the application installed successfully.
39. Click Save.

Configure the App Server:

40. Expand the Servers menu in the left navigation frame.
41. Click on the Application Servers link.
42. Select the application server you would like to configure.
43. Under Additional Properties, click on the Process Definition link.
44. Under Additional Properties of the Process Definition page, click on the Java Virtual Machine link.

45. In the Classpath field, add the paths to the following xerces.jar files: The file can be found in one of the following directories:
 - a. *ProductDir\IBM\WebSphere\ICS\lib*
 - b. *ProductDir\WebSphere\AppServer\installedApps\nodeName\FailedEvents.war.ear\FailedEvents.war\WEB-INF\lib*
46. Under Generic JVM Arguments, enter the following:
 -DORBNamingProvider=CosNaming -Dorg.omg.CORBA.ORBClass=com.ibm.CORBA.iiop.ORB -
 Dorg.omg.CORBA.ORBInitialPort=%ORB_PORT% -
 Dorg.omg.CORBA.ORBInitialHost=%ORB_HOST% -Dcom.ibm.CORBA.Debug.Output=stdout
 where %ORB_PORT% & %ORB_HOST% match what is in
 ./bin/CWSharedEnv.bat of the ICS you want to see Failed Events for.
47. Click Apply.
48. Select Custom Properties link under Additional Properties.
49. In the Custom Properties page, click New.
50. Type FEM_HOME in the Name field.
51. Type the fully-qualified path to the installed application within the WebSphere product directory in the Value field. For example:
 C:\ProgramFiles\IBM\WebSphere\Express\AppServer\installedApps\DefaultNode\FailedEvents.war.ear\FailedEvents.war
52. Click Apply, then click Ok. You are taken back to the Java Virtual Machine page.
53. Click Save when the following message appears:
 Changes have been made to your local configuration. Click Save to apply changes to the master configuration.
54. Click Save when the Save to Master Configuration screen appears.
55. Click on the Environment > Update Web Server Plugin link and click OK when the Update web server plugin configuration screen appears.
56. Restart the application server you would like to restart by typing the following at a command prompt: *WAS_Product_dir\bin\startServer.bat <servername>*
57. Open the browser and type in the URL <http://hostname:9080/FailedEvents>
58. 9080 is the default port for server1. However, in order to find the ports for a particular server
 - a. Open the wasadmin console. On the left pane expand Servers.
 - b. Click on Application Servers.
 - c. On the right hand frame click on the particular server you want to find port information for.
 - d. On the next frame under Additional Properties click on WebContainer.
 - e. On the next frame under Additional Properties click on HTTP Transports.
 - f. The next frame will show the ports for the particular server you selected.

NOTE: In order to stop a server that has security enabled. Follow these steps

- I. Open the command prompt.
- II. Change to *WAS_Product_dir\bin* directory.
- III. *\bin > stopserver <servername> -username <name> -password <pswd>*

Installing WBSM using Tomcat - Manual

The following instructions describe how to install WBSM using Tomcat.

1. Create the FailedEvents directory under *Tomcat_home\webapps*. Where *Tomcat_home* is the path of the Tomcat installation in your environment.

2. Extract the WAR file contents into the FailedEvents directory. The FailedEvents.war file will be in the \WBSM\Tomcat directory.
3. Edit the setclasspath.bat file, located in *Tomcat_home*\bin.

a. Set the JAVA_OPTS property as follows:

```
set JAVA_OPTS=-DFEM_HOME=C:\Tomcat_home\webapps\FailedEvents -
DORBNamingProvider=CosNaming -
Dorg.omg.CORBA.ORBClass=com.ibm.CORBA.iiop.ORB -
Dorg.omg.CORBA.ORBInitialPort=%ORB_PORT% -
Dorg.omg.CORBA.ORBInitialHost=%ORB_HOST% -
Dcom.ibm.CORBA.Debug.Output=stdout
```

where %ORB_PORT% & %ORB_HOST% match what is in ./bin/CWSharedEnv.bat

Note: If *Tomcat_home* contains spaces, use quotes around the FEM_HOME value.

4. Change the port number in the *Tomcat_home*\conf\server.xml file. This step is optional. The default port number is 8080.
5. Start Tomcat from the command line:
Tomcat_home/bin/startup.bat
Otherwise, the setclasspath.bat file is not called.
6. **Open the browser and type in the URL <http://hostname:8080/FailedEvents>**

Create custom users and roles:

1. Edit the tomat-users.xml file located under Tomcat_Home\conf
 - a) To add a new role say "Manager" type in
`<role rolename="Manager"/>`
 - b) To create and assign a user say Scott to role "Manager" type in
`<user username="Scott" password="tiger" roles="Manager" />`
2. A single user can have more than one role by separating the roles with commas.
`<user username="Scott" password="tiger" roles="Manager, Employee"/>`
3. Save the file.
4. Edit the web.xml file located under Tomcat_Home\webapps\FailedEvents\WEB-INF in order for it contain the roles that were added using step 1.
5. Add the custom roles to the following xml element(it already contains the default roles)

```
<auth-constraint id="AuthConstraint_1062537631424">
  <description>SC1:+:</description>
  <role-name>Administrator</role-name>
  <role-name>ViewEvents</role-name>
  <role-name>ViewAll</role-name>
  <role-name>SubmitEvents</role-name>
  <role-name>Manager</role-name>
</auth-constraint>
```

6. At the end of the xml file add a new element. Give a security role id that is unique.

```
<security-role id="SecurityRole_1068513225089">
  <description>Can manage all events.</description>
  <role-name>Manager</role-name>
</security-role>
```

7. Edit the init param value of the Login servlet as follows as one complete string

```

<servlet id="Servlet_1062537018298">
  <servlet-name>Login</servlet-name>
  <display-name>Login</display-name>
  <servlet-class>com.ibm.btools.itools.FailedEvents.servlets.Login</servlet-class>
  <init-param id="InitParam_1063835207426">
    <param-name>ROLECOMPONENTS</param-name>
    <param-value> role1: event_owners
SourceToDestCollab|role2:event_owners=Collab2*bos=CUSTOMER2.Creat
e#2/4|role3:event_owners=SourceToDestCollab, Collab2
    </param-value>
    <description>Roles and components(collabs or connectors) associated
    with these roles.
    </description>
  </init-param>
</servlet>

```

- The param value specified in step7 follows the format

The parameter value will be(a string) of the format

```

<RoleName1>:event_owners=<ownername>*connectors=<connectorName>*bos=<boname.verb>#<CompositeKeyValue>+<CompositekeyValue2>/<AnotherPossibleKeyValue>
| <RoleName2>: .....

```

- < | > - separates two roles
- < : > - separates role name from components of the role
- < * > - separates components within a role ex: connectors & bos
- < = > - separates component name from its values
- < , > - separates values within a component
- < # > - separates bo name from its key values
- < / > - separates possible keys of a bo
- < + > - separates composite key of a bo (two or more primary keys)

Example:

```

"Role1:event_owners=collab1, collab2*connectors=conn1,
conn2*bos=bo1.create#55&67, bo2.delete#99&80"+
"|Role2:event_owners=collab3,collab4*connectors=conn3*bos=
bo4.create#59+9876/82, bo2.delete#56"

```

- Save the file.
- Start Tomcat from the command line:
Tomcat_home/bin/startup.bat
 Otherwise, the setclasspath.bat file is not called.