

EJB - JNDI BINDINGS

http://www.tutorialspoint.com/ejb/ejb_jndi_bindings.htm

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JNDI stands for Java Naming and Directory Interface. It is a set of API and service interfaces. Java based applications use JNDI for naming and directory services. In context of EJB, there are two terms.

- **Binding** - This refers to assigning a name to an ejb object which can be used later.
- **Lookup** - This refers to looking up and getting an object of ejb.

In Jboss, session beans are bound in JNDI in following format by default.

- **local** - ejb-name/local
- **remote** - ejb-name/remote

In case, ejb are bundled with <application-name>.ear file then default format is as following.

- **local** - application-name/ejb-name/local
- **remote** - application-name/ejb-name/remote

Example of default binding

Refer to *EJB - Create Application* chapter's JBoss console output.

JBoss Application server log output

```
...
16:30:02,723 INFO [SessionSpecContainer] Starting
jboss.j2ee:jar=EjbComponent.jar,name=LibrarySessionBean,service=EJB3
16:30:02,723 INFO [EJBContainer] STARTED EJB:
com.tutorialspoint.stateless.LibrarySessionBean ejbName: LibrarySessionBean
16:30:02,731 INFO [JndiSessionRegistrarBase] Binding the following Entries in Global
JNDI:

    LibrarySessionBean/remote - EJB3.x Default Remote Business Interface
    LibrarySessionBean/remote-com.tutorialspoint.stateless.LibrarySessionBeanRemote -
EJB3.x Remote Business Interface
...
```

Customized binding

Following annotations can be used to customized the default JNDI bindings.

- **local** - org.jboss.ejb3.LocalBinding
- **remote** - org.jboss.ejb3.RemoteBindings

Update LibrarySessionBean.java. Refer to *EJB - Create Application* chapter

LibrarySessionBean

```
package com.tutorialspoint.stateless;

import java.util.ArrayList;
import java.util.List;
import javax.ejb.Stateless;

@Stateless
@LocalBinding(jndiBinding="tutorialspoint/librarySession")
public class LibrarySessionBean implements LibrarySessionBeanLocal {

    List<String> bookShelf;
```

```

public LibrarySessionBean(){
    bookShelf = new ArrayList<String>();
}

public void addBook(String bookName) {
    bookShelf.add(bookName);
}

public List<String> getBooks() {
    return bookShelf;
}
}

```

LibrarySessionBeanLocal

```

package com.tutorialspoint.stateless;

import java.util.List;
import javax.ejb.Local;

@Local
public interface LibrarySessionBeanLocal {

    void addBook(String bookName);

    List getBooks();
}

```

Build the project. Deploy the application on Jboss and verify the following output in Jboss console.

```

...
16:30:02,723 INFO  [SessionSpecContainer] Starting
jboss.j2ee:jar=EjbComponent.jar,name=LibrarySessionBean,service=EJB3
16:30:02,723 INFO  [EJBContainer] STARTED EJB:
com.tutorialspoint.stateless.LibrarySessionBean ejbName: LibrarySessionBean
16:30:02,731 INFO  [JndiSessionRegistrarBase] Binding the following Entries in Global
JNDI:

    tutorialsPoint/librarySession - EJB3.x Default Local Business Interface
    tutorialsPoint/librarySession-com.tutorialspoint.stateless.LibrarySessionBeanLocal -
EJB3.x Local Business Interface
...

```

Repeat the above steps for Remote and check the result.