

# Lookup Of Ejbs

Example lookup-of-ejbs can be browsed at <https://github.com/apache/tomee/tree/master/examples/lookup-of-ejbs>

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## BlueBean

```
package org.superbiz.ejblookup;

import javax.ejb.EJB;
import javax.ejb.EJBException;
import javax.ejb.Stateless;
import javax.naming.InitialContext;
import javax.naming.NamingException;

//START SNIPPET: code
@Stateless
@EJB(beanInterface = Friend.class, beanName = "RedBean", name = "myFriend")
public class BlueBean implements Friend {

    public String sayHello() {
        return "Blue says, Hello!";
    }

    public String helloFromFriend() {
        try {
            Friend friend = (Friend) new InitialContext().lookup(
"java:comp/env/myFriend");
            return "My friend " + friend.sayHello();
        } catch (NamingException e) {
            throw new EJBException(e);
        }
    }
}
```

## Friend

```
package org.superbiz.ejblookup;

import javax.ejb.Local;

/**
 * This is an EJB 3 local business interface
 * A local business interface may be annotated with the @Local
 * annotation, but it's optional. A business interface which is
 * not annotated with @Local or @Remote is assumed to be Local
 * if the bean does not implement any other interfaces
 */
//START SNIPPET: code
@Local
public interface Friend {

    public String sayHello();

    public String helloFromFriend();
}
```

## RedBean

```
package org.superbiz.ejblookup;

import javax.ejb.EJB;
import javax.ejb.EJBException;
import javax.ejb.Stateless;
import javax.naming.InitialContext;
import javax.naming.NamingException;

//START SNIPPET: code
@Stateless
@EJB(beanInterface = Friend.class, beanName = "BlueBean", name = "myFriend")
public class RedBean implements Friend {

    public String sayHello() {
        return "Red says, Hello!";
    }

    public String helloFromFriend() {
        try {
            Friend friend = (Friend) new InitialContext().lookup(
"java:comp/env/myFriend");
            return "My friend " + friend.sayHello();
        } catch (NamingException e) {
            throw new EJBException(e);
        }
    }
}
```

## EjbDependencyTest

```

package org.superbiz.ejblookup;

import junit.framework.TestCase;

import javax.ejb.embeddable.EJBContainer;
import javax.naming.Context;

//START SNIPPET: code
public class EjbDependencyTest extends TestCase {

    private Context context;

    protected void setUp() throws Exception {
        context = EJBContainer.createEJBContainer().getContext();
    }

    public void testRed() throws Exception {

        Friend red = (Friend) context.lookup("java:global/lookup-of-ejbs/RedBean");

        assertNotNull(red);
        assertEquals("Red says, Hello!", red.sayHello());
        assertEquals("My friend Blue says, Hello!", red.helloFromFriend());
    }

    public void testBlue() throws Exception {

        Friend blue = (Friend) context.lookup("java:global/lookup-of-ejbs/BlueBean");

        assertNotNull(blue);
        assertEquals("Blue says, Hello!", blue.sayHello());
        assertEquals("My friend Red says, Hello!", blue.helloFromFriend());
    }
}

```

## Running

```

-----
T E S T S
-----
Running org.superbiz.ejblookup.EjbDependencyTest
Apache OpenEJB 4.0.0-beta-1    build: 20111002-04:06
http://tomee.apache.org/
INFO - openejb.home = /Users/dblevins/examples/lookup-of-ejbs
INFO - openejb.base = /Users/dblevins/examples/lookup-of-ejbs
INFO - Using 'javax.ejb.embeddable.EJBContainer=true'
INFO - Configuring Service(id=Default Security Service, type=SecurityService,

```

```
provider-id=Default Security Service)
INFO - Configuring Service(id=Default Transaction Manager, type=TransactionManager,
provider-id=Default Transaction Manager)
INFO - Found EjbModule in classpath: /Users/dblevins/examples/lookup-of-
ejbs/target/classes
INFO - Beginning load: /Users/dblevins/examples/lookup-of-ejbs/target/classes
INFO - Configuring enterprise application: /Users/dblevins/examples/lookup-of-ejbs
INFO - Configuring Service(id=Default Stateless Container, type=Container, provider-
id=Default Stateless Container)
INFO - Auto-creating a container for bean RedBean: Container(type=STATELESS,
id=Default Stateless Container)
INFO - Configuring Service(id=Default Managed Container, type=Container, provider-
id=Default Managed Container)
INFO - Auto-creating a container for bean org.superbiz.ejblookup.EjbDependencyTest:
Container(type=MANAGED, id=Default Managed Container)
INFO - Enterprise application "/Users/dblevins/examples/lookup-of-ejbs" loaded.
INFO - Assembling app: /Users/dblevins/examples/lookup-of-ejbs
INFO - Jndi(name="java:global/lookup-of-ejbs/RedBean!org.superbiz.ejblookup.Friend")
INFO - Jndi(name="java:global/lookup-of-ejbs/RedBean")
INFO - Jndi(name="java:global/lookup-of-ejbs/BlueBean!org.superbiz.ejblookup.Friend")
INFO - Jndi(name="java:global/lookup-of-ejbs/BlueBean")
INFO -
Jndi(name="java:global/EjbModule1374821456/org.superbiz.ejblookup.EjbDependencyTest!or
g.superbiz.ejblookup.EjbDependencyTest")
INFO -
Jndi(name="java:global/EjbModule1374821456/org.superbiz.ejblookup.EjbDependencyTest")
INFO - Created Ejb(deployment-id=RedBean, ejb-name=RedBean, container=Default
Stateless Container)
INFO - Created Ejb(deployment-id=BlueBean, ejb-name=BlueBean, container=Default
Stateless Container)
INFO - Created Ejb(deployment-id=org.superbiz.ejblookup.EjbDependencyTest, ejb-
name=org.superbiz.ejblookup.EjbDependencyTest, container=Default Managed Container)
INFO - Started Ejb(deployment-id=RedBean, ejb-name=RedBean, container=Default
Stateless Container)
INFO - Started Ejb(deployment-id=BlueBean, ejb-name=BlueBean, container=Default
Stateless Container)
INFO - Started Ejb(deployment-id=org.superbiz.ejblookup.EjbDependencyTest, ejb-
name=org.superbiz.ejblookup.EjbDependencyTest, container=Default Managed Container)
INFO - Deployed Application(path=/Users/dblevins/examples/lookup-of-ejbs)
INFO - EJBContainer already initialized. Call ejbContainer.close() to allow
reinitialization
Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.267 sec

Results :

Tests run: 2, Failures: 0, Errors: 0, Skipped: 0
```