

The EJBContainer API is a JavaEE API enriched by some OpenEJB features to make the testing easier.

It starts a container (embedded for case we are interested in) scanning the classpath. This operation can be slow and if you go with this solution maybe think to start it only once for all tests.

## Sample

```
import org.junit.After;
import org.junit.AfterClass;
import org.junit.Before;
import org.junit.BeforeClass;
import org.junit.Test;
import javax.ejb.embeddable.EJBContainer;
import javax.inject.Inject;
import javax.naming.NamingException;
import static org.junit.Assert.assertTrue;
public class ATest {
   @Inject
   private MyCDIBean aBean;
   @PersistenceContext
   private EntityManager em;
   @Resource
    private DataSource ds;
   @BeforeClass
   public static void start() throws NamingException {
        container = EJBContainer.createEJBContainer();
   }
   @AfterClass
    public static void shutdown() {
       if (container != null) {
            container.close();
       }
   }
   @Before
   public void inject() throws NamingException {
        container.getContext().bind("inject", this);
   }
   @After
    public void reset() throws NamingException {
        container.getContext().unbind("inject");
    }
   @Test
    public void aTest() {
       // ...
   }
}
```

It will use createEJBContainer() method to start the container and application, and close() to shutdown it.

OpenEJB provides the bind("inject") hack to be able to get injection in the test class.

## **OpenEJB JUnit**

openejb-junit is another artifact providing some facilities for testing.

## **EJBContainer Rule**

```
@Properties({
    @Property(key = DeploymentFilterable.CLASSPATH_EXCLUDE, value = "jar:.*"),
   @Property(key = DeploymentFilterable.CLASSPATH_INCLUDE, value = ".*openejb-
junit.*")
})
public class TestEJBContainerDefaultConfig {
    @Rule
    public final EJBContainerRule containerRule = new EJBContainerRule(this);
    @org.apache.openejb.junit.jee.resources.TestResource
    private Context ctx;
    @org.apache.openejb.junit.jee.resources.TestResource
    private java.util.Properties props;
    @org.apache.openejb.junit.jee.resources.TestResource
    private EJBContainer container;
    @Test
    public void configIsHere() {
        // ...
    }
}
```

TIP there is the equivalent runner: @RunWith(EJBContainerRunner.class)

## InjectRule: injections for EJBContainerRule

```
@Properties({
    @Property(key = DeploymentFilterable.CLASSPATH_EXCLUDE, value = "jar:.*"),
    @Property(key = DeploymentFilterable.CLASSPATH_INCLUDE, value = ".*myjar.*")
})
public class TestEJBContainerRule {
    @ClassRule
    public static final EJBContainerRule CONTAINER_RULE = new EJBContainerRule();
    @Rule
    public final InjectRule injectRule = new InjectRule(this, CONTAINER_RULE);
    @EJB
    private BasicEjbLocal ejb;
    @Test
    public void aTest() {
        // ...
    }
}
```

TIP an alternative in openejb-core is to use org.apache.openejb.Injector.inject(instance)