

WebLogic 6.0 가

(UNIX , weblogic6.0sp1+ console.war(patch))

1. WebLogic

Weblogic5.1 weblogic6.0

weblogic .

(1).

([:platform support](http://e-docs.bea.com/wls/platforms/index.html)(http://e-docs.bea.com/wls/platforms/index.html)

: NT(free storage space: 95MB)

UNIX(free storage space: 134MB)

:128MB

(2).

JDK1.3:WebLogic6.0 (JDK1.3 two-phase

Commit)

Console() MS Internet Explorer5.x

Netscape4.7x

(3). WebLogic6.0

1). GUI

graphic 가

\$ sh webloigc600_sol().bin 가

2). Console

text

\$ sh weblogic600_sol().bin ?i console 가

)weblogic > sh weblogic600sp1_sol.bin -i console

1.

Preparing to install...

Preparing CONSOLE Mode Installation...

=====

Choose Locale...

1 - Deutsch

->2 - English

```
3 - Espa?ol
4 - Fran?ais
CHOOSE LOCALE BY NUMBER: 2
→ 2 -English
) java.lang.NullPointerException
export LANG=C
2.
License Agreement
3.
=====
Choose Install Set
-----
Please Choose the Install Set to be installed by this installer.
->1 - Server
2 - Customize...
ENTER THE NUMBER FOR THE INSTALL SET, OR <ENTER> TO ACCEPT
THE DEFAULT: 1
→ Server
4.
=====
Choose BEA Home Directory
-----
1 - Create a New BEA Home
Enter a number: 1
Specify a New BEA Home: /export/home/prodev/bea
→1
5.
=====
Choose Product Directory
-----
1-Modify Current Selection (/export/home/prodev/bea/wlserver6.0sp1)
2-Use Current Selection (/export/home/prodev/bea/wlserver6.0sp1)
Enter a number: 2
→1 2
```

```

6.
=====
Default Server Configuration
-----
 1 - Modify WebLogic Admin Domain Name (mydomain)
 2 - Modify Server Name (myserver)
 3 - Modify Listen Port (7001)
 4 - Modify Secure (SSL) Listen Port (7002)
 5 - Done Configuration
Enter a number: 5
->                               ,           ,,SSL
                               . 5
  
```

```

7.
=====
Create System Password
-----
Password: weblogic
->
  
```

```

8.
Good Password! Press "Enter" to continue...
=====
Installing...
-----
[===== | ===== | =====] [
----- ]
=====

Install Complete
-----
Congratulations. 'WebLogic Server' has been successfully installed to:
/export/hos9488me/prodev/bea/wlserver6.0sp1
->weblogic                               bea           가
  
```

3). Silent
 Console
 Template (installer.properties)

```

) sh filename.bin ?f fullpath/installer.properties
<installer.properties  >
BEAHOME=
C_domainName=Domain name
C_serverName=Server name
  C_ServerListenPort=Port
C_ServerSSLListenPort=SSL Port
C_password=system password
    
```

```

<installer.properties  >
  INSTALLER_UI=silent
  USER_LOCALE=en
  BEAHOME=/home/beadev/dbai/solaris/bea
  C_domainName=mydomain
  C_serverName=myserver
  C_serverListenPort=7001
  C_serverSSLListenPort=7002
  C_password=abcd1234
  CHOSEN_INSTALL_SET=Server
  (\_\_\_\_\_(http://edocs.bea.com/wls/docs60/install/instdil.html))
    
```

4).

```

$ java -cp filename.zip(          ) install -i console
  가
    
```

(4).

```

BEA Home/
  license.bea
  registry.xml
  UpdateLicense(.sh/.cmd)
  jdk130/
  utils/
    
```

1).license.bea

```

weblogic6.0      License      License가
UpdateLicense utility      update
) $ sh UpdateLicense License.bea-new(          )
  license.bea
    
```

2).registry.xml

product

3).UpdateLicense.sh

license

utility

4).jdk130

jvm

, weblogic6.0

5).util

weblogic

utility

2. WebLogic6.0 Architecture

(1).

1). Domains

WebLogic Server가

configuration() install_dir/config/domain_name/config.xml XML

2). Administration Server

(Managed Server)

(config.xml)

managed server가

Administration Console() Domain

3).Managed Server

MangedServer

Managed Server

Administartion Server

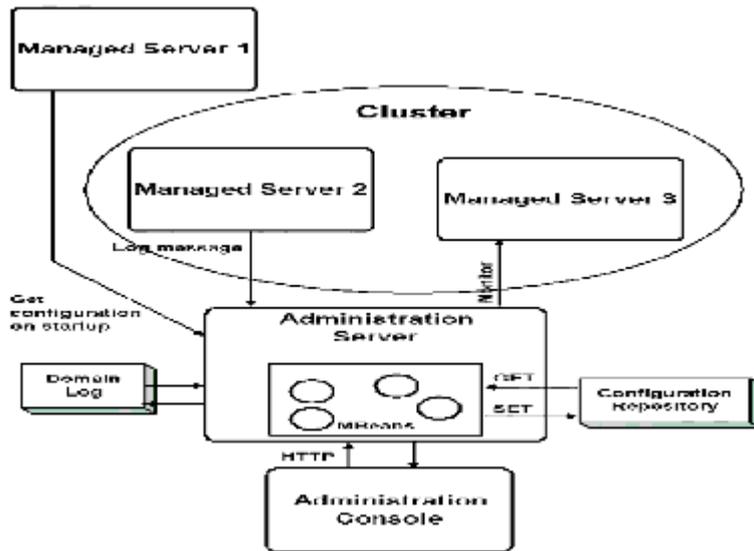
4).Property

weblogic.properties(wls5.1) config.xml

\$WLS_HOME/config/ /

5). Console(console.war)

http://ip:port/console 가



< >

Administration Server가 ,
 Managed Server가 . Administration Server Console
 가 가 Configuration Repository(config.xml)
 . Managed Server Administration Server

3. WebLogic6.0 Start and Stop

(WLS_HOME/config/ 가)

(1). Administration Server start stop

1). startWebLogic.sh

Administration Server .(password
 script set WLS_PW=password 가 .)
 Port Default 7001 , console config.xml

2). StartWeblogic.sh

- java weblogic.Admin ?url ip:port ?username system -password password SHUTDOWN
- Administration Console Server ->Monitoring ->Shutdown this Server

(2).Managed Server start stop

1). startManagedWebLogic.sh

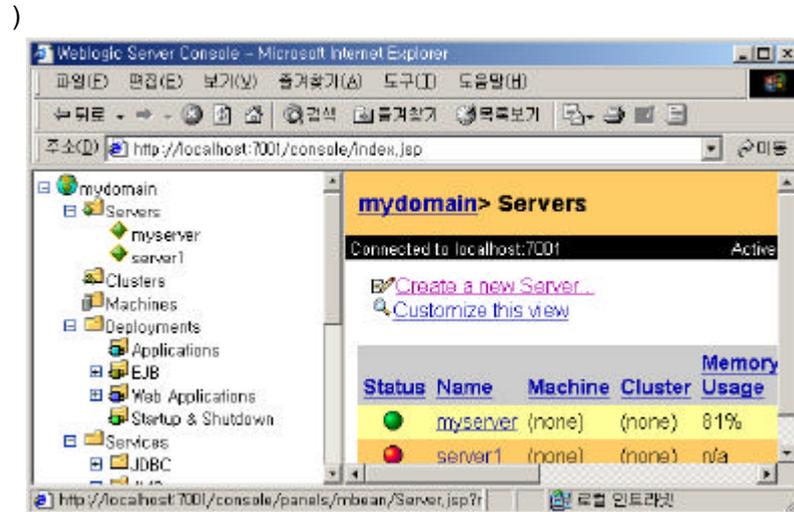
Managed server가

가

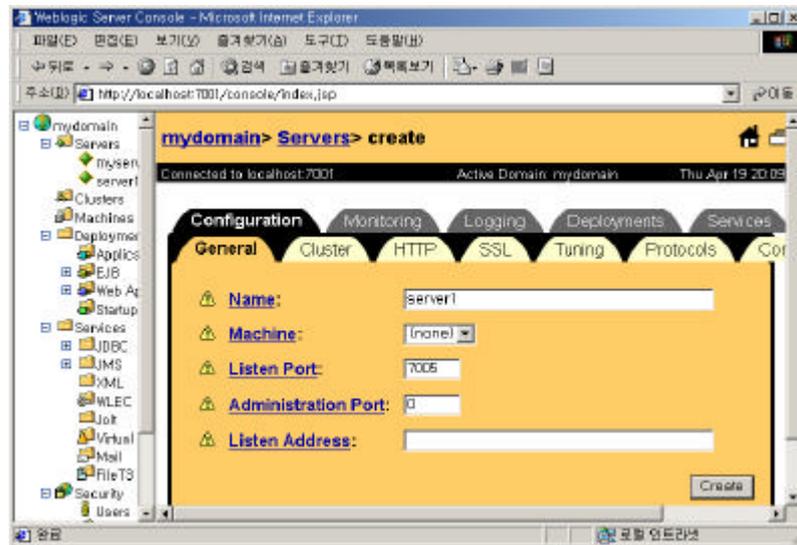
→

- console

Admin server console(<http://ip:port/console>)
 (mydomain -> servers Create a new server..



Manged server port create



- command

```

$>Java weblogic.Admin ?url ip:port (Admin URL) ?username system
    ?password Password CREATE
    ?mbean " :Type=Server,Name= " 가
    ) Java weblogic.Admin ?url localhost:7001 ?username system
    
```

```

?password 11111111 CREATE
?mbean 'mydomain:Type=Server,Name=Server1 "
)          default  7001          Admin console
.
- config.xml
config.xml          가          .
) <Server
  ClusterWeight="100"
  ListenPort="7005"
  Name="acctServer"
>
  <KernelDebug
    Name="acctServer"
  />
  <ServerDebug
    Name="acctServer"
  />
  <SSL
    Name="acctServer"
  />
  <WebServer
    DefaultWebApp="DefaultWebApp_acctServer"
    Name="acctServer"
  />
  <Log
    FileName="acctServer.log"
    Name="acctServer"
  />
</Server>

```

```

Managed Server          .(          Managed Server
.          Manged Server          ADMIN_URL
, script          set SERVER_NAME=managed server          ,
Set ADMIN_URL=Administartion server, set WLS_PW=password          가
.)

```

2).startManagedWebLogic.sh

- \$>java weblogic.Admin ?url ip:port() ?username system ?password password SHUTDOWN)java weblogic.Admin ?url localhost:7005 ?username system ?password weblogic SHUTDOWN
- Administration Console Server ->Monitoring ->Shutdown this Server

3).startManagedWebLogic.sh

Managed Server

- \$>java weblogic.Admin ?url ip:port ?username system ?password password DELETE ?mbean " :Type:Server,Name=" "

4. Web Application

Web Application servlets, JSP, JSP tag libraries HTML, image EJB JDBC, JMS, XML resources . Web Application J2EE exploded directory format .war

1). Web Application (Exploded directory format)

WebApplicationName/

(: \ config \ mydomain \ applications \ DefaultWebApp_acctServer) html, JSP, image 가 .

/WEB-INF/web.xml

Web Application deployment descriptor .

/WEB-INF/weblogic.xml

Weblogic -specific deployment descriptor .

/WEB-INF/classes

servlets utility class가 .

, Web Application 가 .war

deploy .

2). Web application Deploy

Web Application deploy .

(1). servlets, JSPs, static files, deployment descriptor

(2). Web Application Deployment Descriptor(web.xml) .

Servlets initialization parameters jsp

tag libraries .

(3). WebLogic -Specific Deployment Descriptor(weblogic.xml)

JSP properties, JNDI mappings, security role mappings, HTTP session parameters

Weblogic dependent

(4).(Optional)

Deploy 가 , .war

Deploy

(5). Web Application deployment attribute(cluster, Virtual Host..)

3). Web Application Deploy

- Administration Console deploy

[1]. Deploy

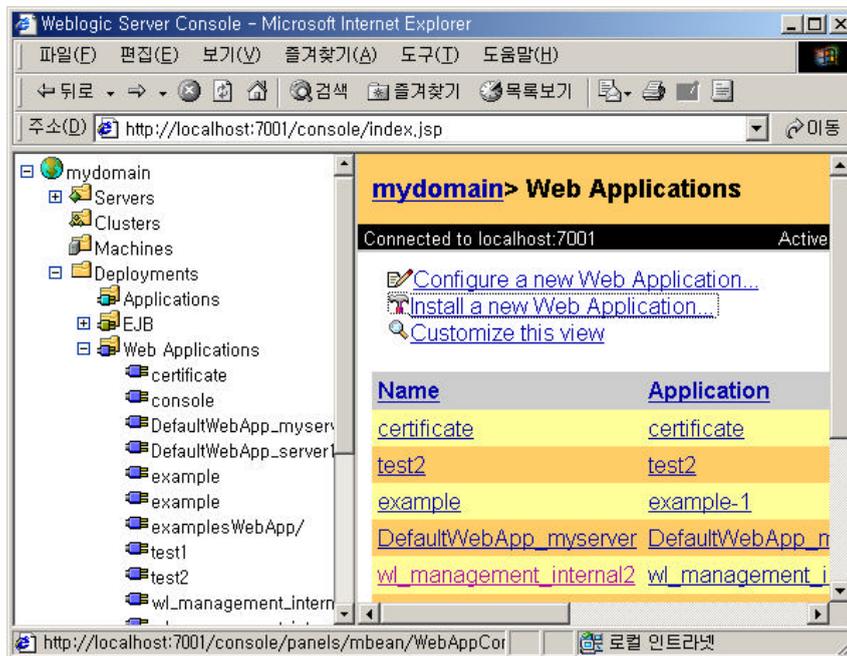
(/wls6.0 /wlserver6.0sp1/config/mydomain/application

Deploy Deploy

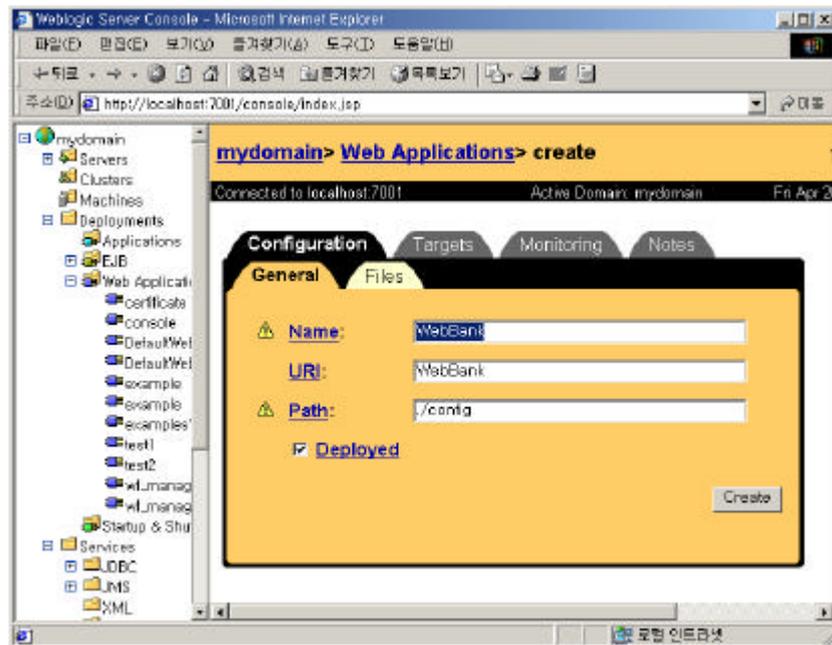
.)

- console Deployments ->Web Application

Configure a new Web Application



- web application URI, path create



[2]. .war Deploy

6.0 web Application war

Web Application %WLS_HOME%/config/ /applications

Temp

serverlt jsp

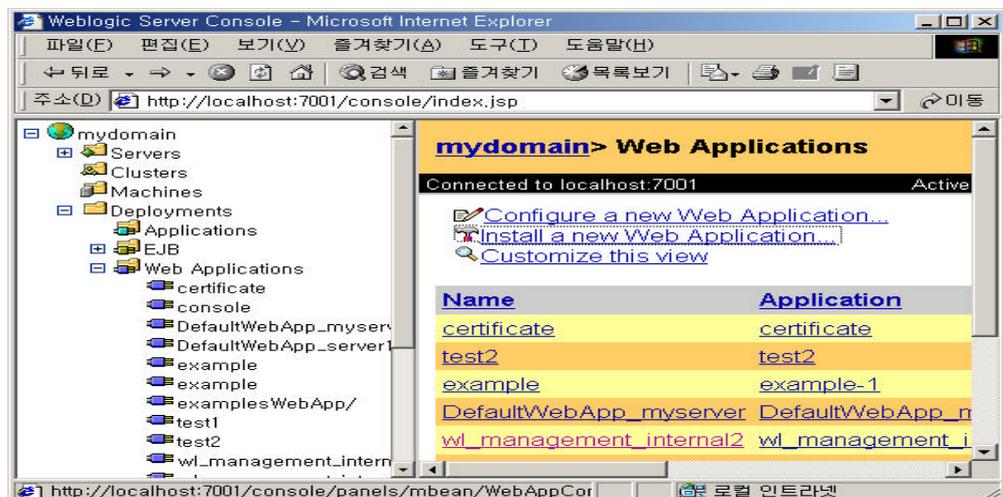
) Jar cv0f Server1war .

applications

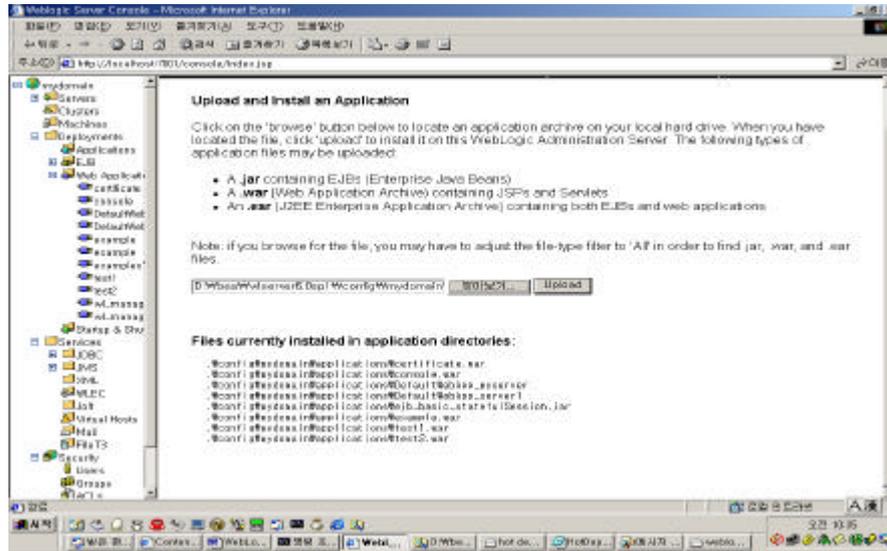
Console 가 Deployments ->WebApplications ,

install new Web Application

Server1 install



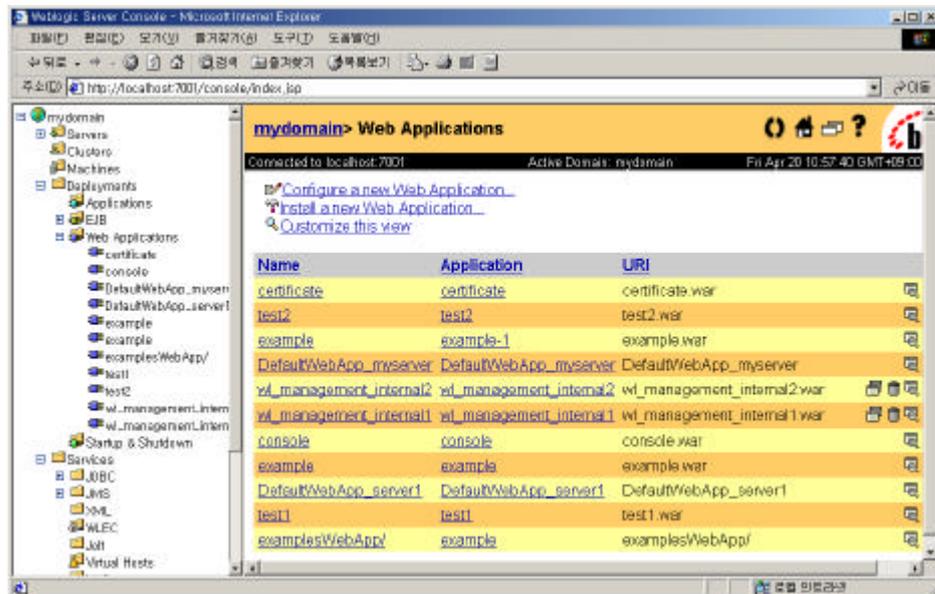
- , .war upload .



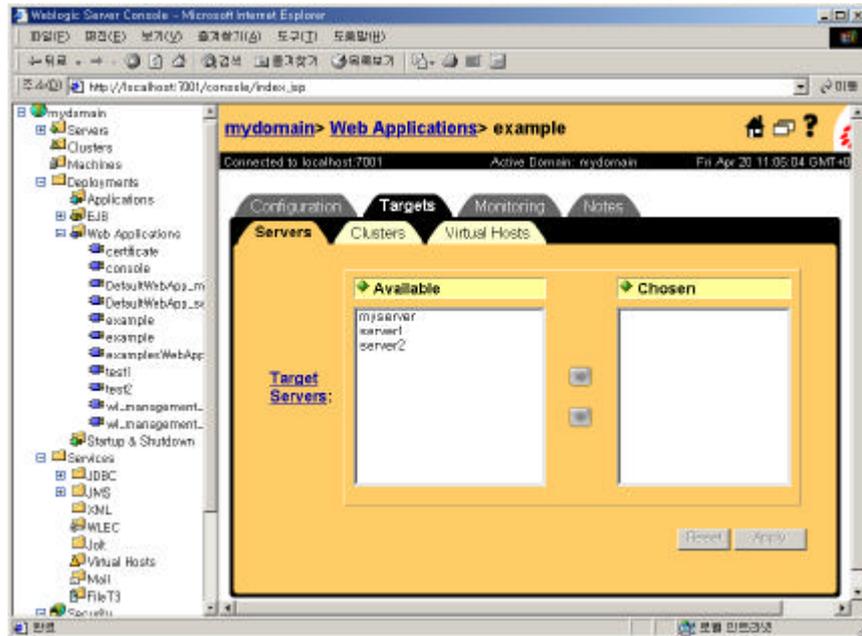
4). Target

Target Deploy Web application

- Target
Web Application target application



- targets web application target server
apply 가 Chosen
target web application



5). JSP

(1).JSP

WebApplicationName/ JSP operating Parameters
 /WebApplicationName/web-inf/weblogic.xml

```

<jsp-descriptor>
  <jsp-param>
    <param-name>
      pageCheckSeconds
    </param-name>
    <param-value>
      1
    </param-value>
  </jsp-param>
  <jsp-param>
    <param-name>
      verbose
    </param-name>
    <param-value>
      true
    </param-value>
  
```

```

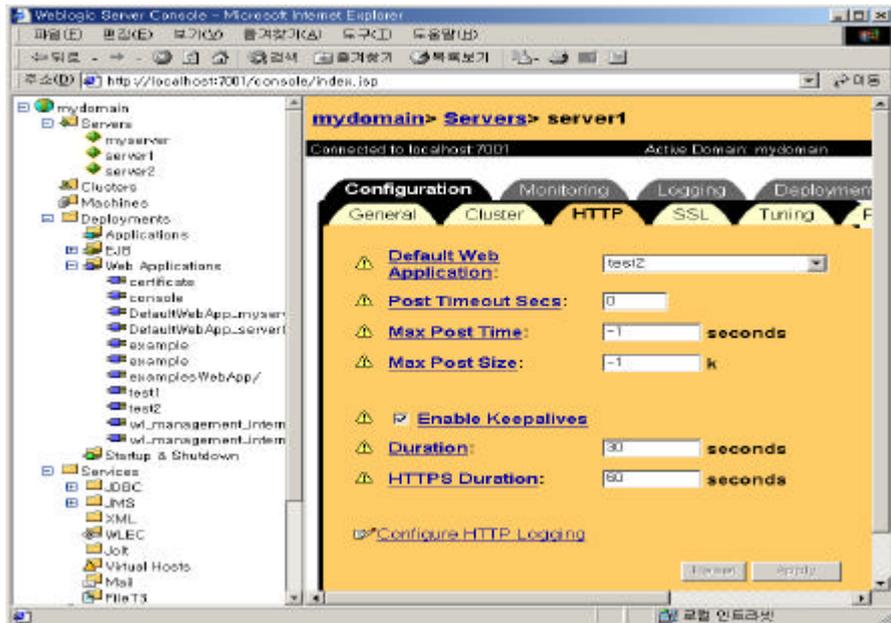
</jsp-param>
<jsp-param>
  <param-name>
    encoding
  </param-name>
  <param-value>
    KSC5601
  </param-value>
</jsp-param>
</jsp-descriptor>

```

.....

(2).JSP

- mydomain configuration HTTP
- Default Web Application target Web
- Application Default



- war Web Application default

Web Application

Web Application

Console ->Servers ->Server1->Deployments ->Web Applications

Web Application 가

Default Web Application URL : http://localhost:7005/가 가

Web Application URL : http://localhost:7005/WebApplications

/ 가 . Web Application config.xml

) Web application WebBank,WebIT가 , Bank.jsp,IT.jsp
 가 . weblogic server AdminServer Server1(Manged server)가
 . WebBank,WebIT target server가 server1 , server1
 Default webApplication WebBank jsp
 →(server1)http://localhost:7005/Bank.jsp
 http://localhost:7005/WebIT(URL)/IT.jsp
) (:webIT) web application target
 (webIT) web application .

6). Servlet

/aplicatons/DefaultWebApp -acctServer/WEB-INF/classes
 class .
) system classpath weblogic start classpa
 servlet .

```

/WEB-INF/web.xml
<?xml version="1.0" ?>
<!DOCTYPE web-app PUBLIC "-//Sun Microsystems, Inc.//DTD Web
Application 1.2//EN" "http://java.sun.com/j2ee/dtds/web-app_2_2.dtd">
<web-app>
  <servlet>
    <servlet-name>
      myServlet
    </servlet-name>
    <servlet-class>
      examples.servlets.HelloWorldServlet
    </servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>
      myServlet
    </servlet-name>
    <url-pattern>
      /test/*
    </url-pattern>
  
```

```

</servlet-mapping>
</web-app>

```

```

startWebLogic.cmd Administration Server
startManagedWegLogic.cmd Managed Server
. http://localhost:7001/test/dkdkd . xml
url-pattern url
* http://localhost:7001/test/hello

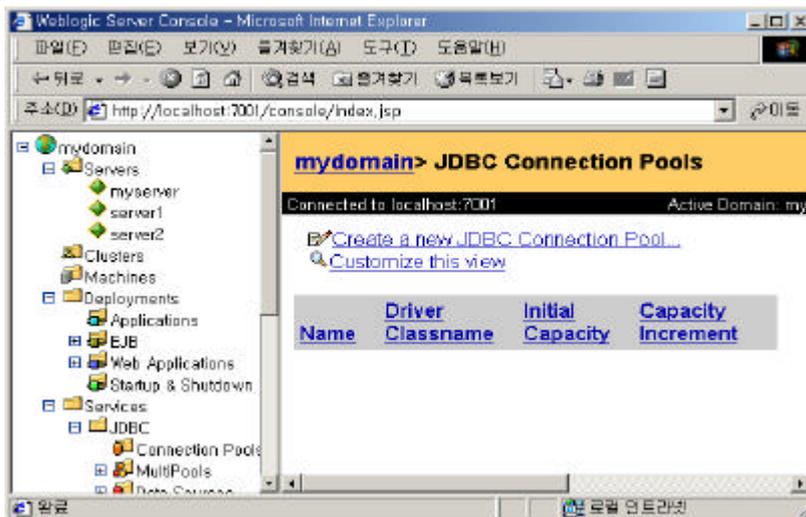
```

5.JDBC

(1). JDBC Pool(thin)

1).Console Pool

- Administration Server console
- Console ->services ->JDBC->Connection Pools
- Connection Pools Create a New JDBC Connection Pool...



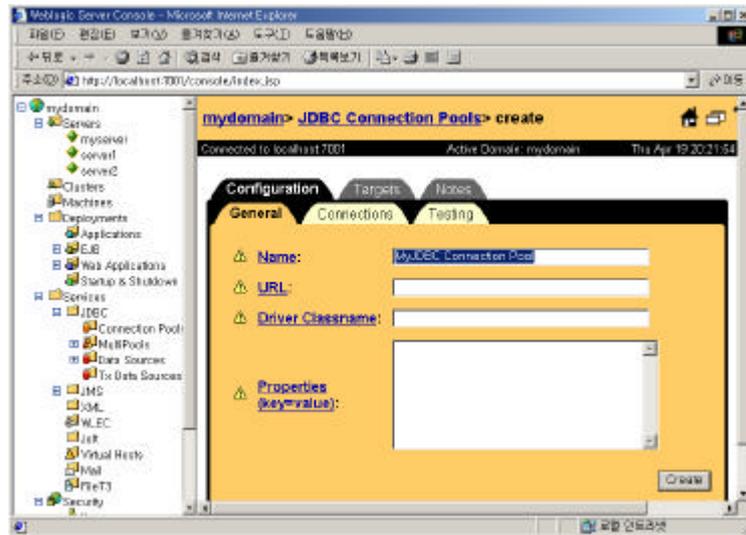
- Configuration ->General

Name : pool

URL: DataBase URL

Driver Classname: jdbc driver

Properties: usr, password....



)

Name: demoPool

URL: jdbc:oracle:thin:@localhost:1521:ORCL

Driver Classname: oracle.jdbc.driver.OracleDriver

Properties: user=scott

 Password=tiger

- Pool properties configuration ->Connections

initial Capacity=

Maximum Capacity=

 Capacity Increment= 가 가

Login Delay Seconds=

 가

Refresh Period=

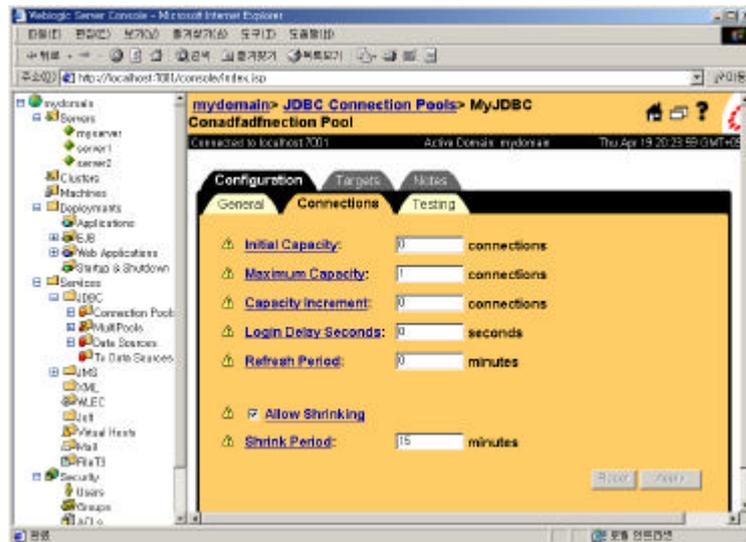
AllowShrinking : 가 가

 가

initialCapacity . Check

Shrink Period :

 allowShrinking check



- Targets -> Servers
pool Target server
- Monitoring -> Monitor all instances of demoPool
Pool

2). Config.xml Pool (thin)

\$WL_Home/config/\$DomainName/config.xml

JDBC

Connection Pool

config.xml 가

```
<JDBCConnectionPool
  CapacityIncrement="2"
  DriverName=" oracle.jdbc.dirver.OracleDriver "
  InitialCapacity="4"
  LoginDelaySeconds="1"
  MaxCapacity="10"
  Name="oraclePool"
  Properties="user=test;password=test;server=ORCL"
  RefreshMinutes="10"
  ShrinkPeriodMinutes="15"
  ShrinkingEnabled="true"
  Targets="server1"
  TestConnectionsOnRelease="false"
  TestConnectionsOnReserve="false"
  TestTableName="dual"
  URL=" jdbc:oracle:thin:@localhost:1521:ORCL "
```

/>

(2). JDBC Pool(oci)

1). Console Pool

```
thin , DriverName,URL "weblogic.jdbc.oci.Driver"
"jdbc:weblogic:oracle" . Client Library
```

2). Config.xml Pool

%WL_Home%/config/%DomainName%/config.xml

JDBC Connection Pool .

config.xml 가 .

<JDBCConnectionPool

CapacityIncrement="2"

DriverName="weblogic.jdbc.oci.Driver"

InitialCapacity="4"

LoginDelaySeconds="1"

MaxCapacity="10"

Name="oraclePool"

Properties="user=test;password=test;server=ORCL"

RefreshMinutes="10"

ShrinkPeriodMinutes="15"

ShrinkingEnabled="true"

Targets="server1"

TestConnectionsOnRelease="false"

TestConnectionsOnReserve="false"

TestTableName="dual"

URL="jdbc:weblogic:oracle"

/>

→CLASSPATH

weblogic oci driver %WL_HOME%/lib/weblogic.jar .

weblogic.jar

.(default

.)

→Client Library

Weblogic

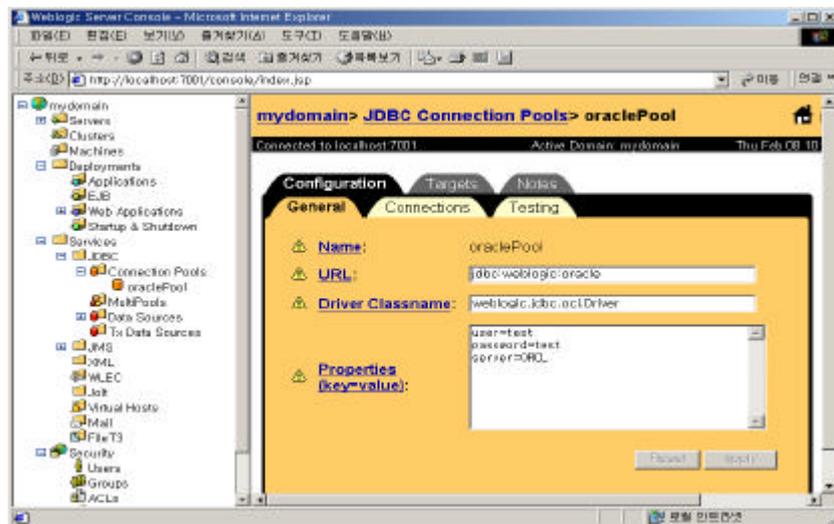
path .

```

%ORACLEHOME%/ora81/bin %WL_HOME%/bin/oci816_8
Oci816_7 - Oracle 7 API
Oci816_8 - Oracle 8 API
(oracle 8          jdbc2.0 core API  optional package
   oci816_8          .)
    
```

```

Administration Server          console
   jdbc Pool                    Target      Pool
   (Administraton Server or Managed Server)
   가      Server1가          .)
Console
    
```



(3). DataSource

1).Console DataSource

- Services ->JDBC ->Data Source ->Configuration

Name: Data Source

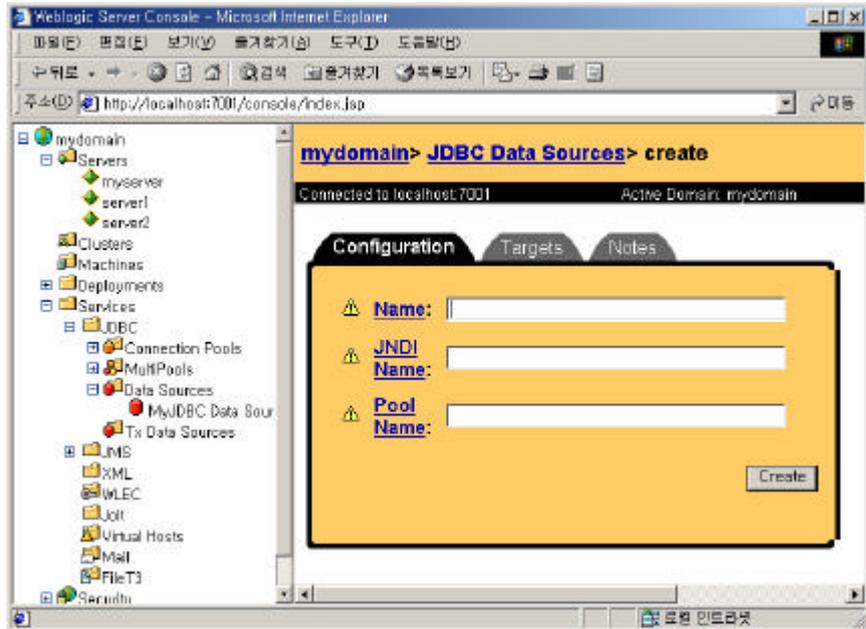
JNDI Name: jndi

Pool Name: pool

): Name: MyJDBCDataSource

JNDI Name: demo

Pool Name: demoPool



2). config.xml DataSource

%WL_Home%/config/%DomainName%/config.xml

DataSource

config.xml 가

```
<JDBCDataSource
```

```
  JNDIName="myDataSource"
```

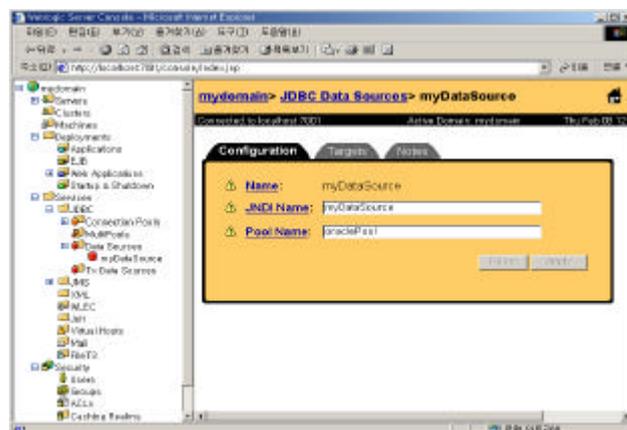
```
  Name="myDataSource"
```

```
  PoolName="oraclePool"
```

```
  Targets="Server1"
```

```
/>
```

console



- Server1(Managed server)

Connection

.....

Context ctx = getInitialContext();

javax.sql.DataSource ds = (javax.sql.DataSource) ctx.lookup("myDataSource");

Connection conn = ds.getConnection();

.....