

Deploying the rmireg.war file in IBM WebSphere 7.0, 8.5.5 and 9.0.5.x

After building the <maximo_home>/deployment/default/rmireg.war file using the <maximo_home>/deployment/buildrmiregwar.cmd, the war file must be deployed in WebSphere.

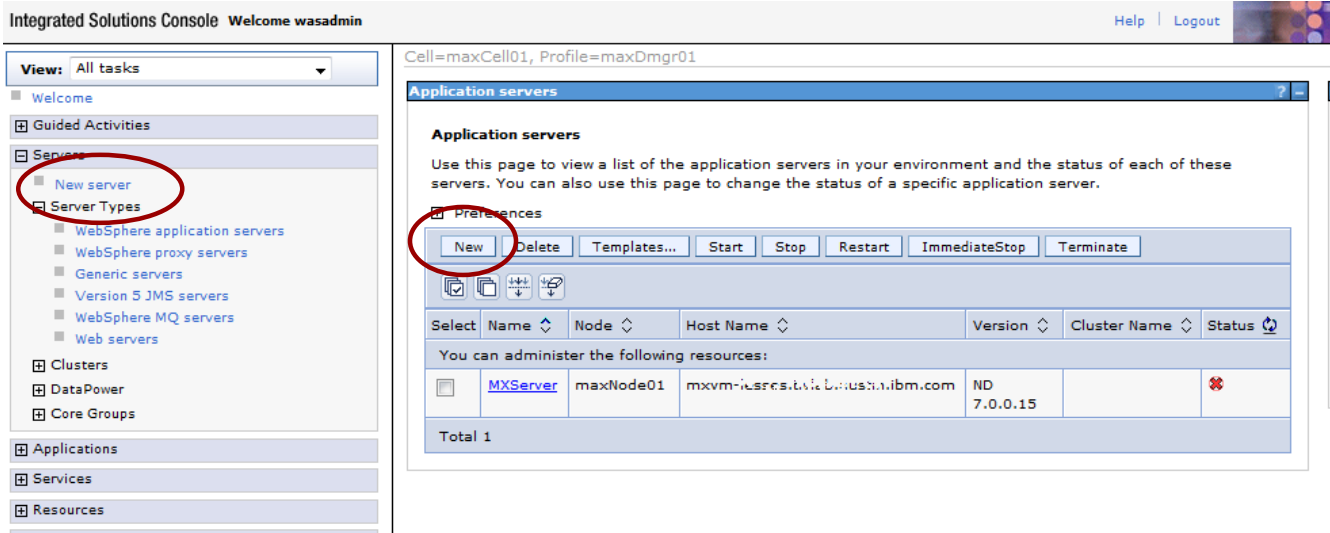
Open the WebSphere Administrative Console (by default, <http://<servername>:9060/ibm/console>).

On the left side of the console, expand **Servers**.

Expand **Server Types**.

Select **WebSphere application servers**.

Click the **New** button.



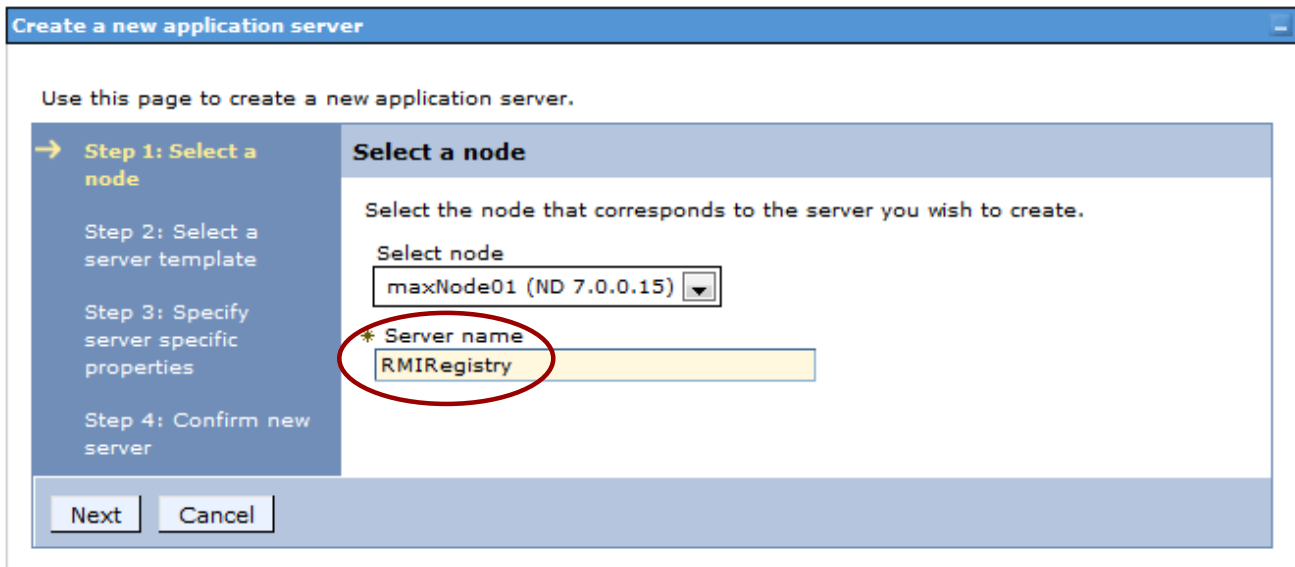
The screenshot shows the 'Application servers' page in the IBM WebSphere Administrative Console. The left-hand navigation pane shows the 'Servers' tree expanded to 'Server Types', with 'WebSphere application servers' selected. The main content area displays the 'Application servers' page, which includes a 'New' button circled in red. Below the buttons is a table of existing application servers.

| Select | Name | Node | Host Name | Version | Cluster Name | Status |
|--------------------------|----------|-----------|-----------------------------|-------------|--------------|--------|
| <input type="checkbox"/> | MXServer | maxNode01 | mxvm-1.usfcs.tivoli.ibm.com | ND 7.0.0.15 | | |

Type **RMIRegistry** as the **Server name**.

Click **Next**.

Cell=maxCell01, Profile=maxDmgr01



The screenshot shows the 'Create a new application server' wizard. The 'Server name' field is circled in red. The wizard is currently on the 'Select a node' step.

Use this page to create a new application server.

Step 1: Select a node

Step 2: Select a server template

Step 3: Specify server specific properties

Step 4: Confirm new server

Select a node

Select the node that corresponds to the server you wish to create.

Select node

maxNode01 (ND 7.0.0.15)

* Server name

RMIRegistry

Next Cancel

Select the **default** template.
Click **Next**.

Cell=ctgCell01, Profile=ctgDmgr01

Create a new application server

Use this page to create a new application server.

Step 1: Select a node
→ **Step 2: Select a server template**
Step 3: Specify server specific properties
Step 4: Confirm new server

Select a server template

| Select | Name | Type | Description |
|----------------------------------|-----------------|--------------|--|
| <input checked="" type="radio"/> | default | System | The WebSphere Default Server Template |
| <input type="radio"/> | MX75Server | User Defined | Maximo 7.5 Application Server |
| <input type="radio"/> | DeveloperServer | System | This template is optimized to perform well for development uses. |

Previous Next Cancel

Make sure that the check box next to **Generate Unique Ports** is selected.
Click **Next**.

Cell=ctgCell01, Profile=ctgDmgr01

Create a new application server

Use this page to create a new application server.

Step 1: Select a node
Step 2: Select a server template
→ **Step 3: Specify server specific properties**
Step 4: Confirm new server

Specify server specific properties

Generate Unique Ports

Previous Next Cancel

Click **Finish**.

Cell=ctgCell01, Profile=ctgDmgr01

Create a new application server

Use this page to create a new application server.

Step 1: Select a node

Step 2: Select a server template

Step 3: Specify server specific properties

→ **Step 4: Confirm new server**

Confirm new server

The following is a summary of your selections. Click the Finish button to complete the application server creation. If there are settings you wish to change, click on the Previous button to review server settings.

Summary of actions:

New application server "ctgNode01" will be created on node "ctgNode01", in a new server process.

i Ensure that the node "ctgNode01" has enough memory to support several processes. If it does not have enough memory, performance will be poor.

Previous **Finish** Cancel

Click **Save**.

Cell=ctgCell01, Profile=ctgDmgr01

Application servers

Messages

- Changes have been made to your local configuration. You can:
 - Save** directly to the master configuration.
 - Review** changes before saving or discarding.
- An option to synchronize the configuration across multiple nodes can be disabled in [Preferences](#).
- The server may need to be restarted for these changes to take effect.

Application servers

Use this page to view a list of the application servers in your environment and the status of each of these servers. You can also use this page to change the status of a specific application server.

Preferences

New Delete Templates... Start Stop Restart ImmediateStop Terminate

Select Name Node Host Name Version Cluster Name Status

You can administer the following resources:

| Select | Name | Node | Host Name | Version | Cluster Name | Status |
|--------------------------|--------------------------------|-----------|--------------------------------|-------------|--------------|--------|
| <input type="checkbox"/> | MXS75WS_Server | ctgNode01 | nc0500001.ncp.sgw.usma.ibm.com | ND 7.0.0.21 | | ➔ |
| <input type="checkbox"/> | MXServer | ctgNode01 | nc0500001.ncp.sgw.usma.ibm.com | ND 7.0.0.21 | | ➔ |
| <input type="checkbox"/> | RMIRegistry | ctgNode01 | nc0500001.ncp.sgw.usma.ibm.com | ND 7.0.0.21 | | ✖ |

Total 3

Click **OK**.

Cell=ctgCell01, Profile=ctgDmgr01

Application servers

Application servers > Synchronize changes with Nodes

The current status of the Nodes being synchronized.

- ADMS0200: The configuration synchronization started for cell.
- ADMS0202: Automatic synchronization mode is disabled for node: ctgNode01.
- ADMS0201: The configuration synchronization started for node: ctgNode01.
- ADMS0205: The configuration synchronization completed successfully for node: ctgNode01.
- ADMS0203: The automatic synchronization mode is enabled for node: ctgNode01.
- ADMS0208: The configuration synchronization complete for cell.

OK

On the left side of the console, expand **Applications**.

Expand **Application Types**.

Click **WebSphere enterprise applications**.

Click on the **Install** button.

Integrated Solutions Console Welcome wasadmin

Cell=ctgCell01, Profile=ctgDmgr01

Enterprise Applications

Use this page to manage installed applications. A single application can be deployed onto multiple servers.

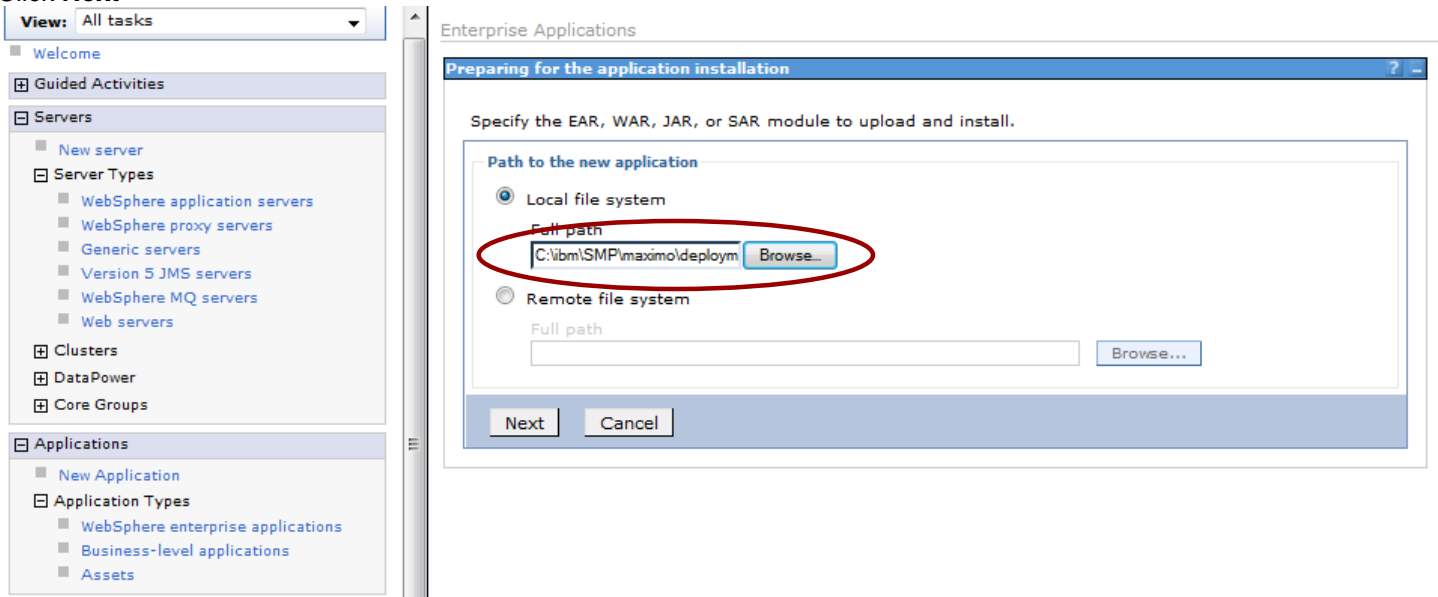
Preference

Start Stop **Install** Uninstall Update Rollout Update Remove File Export Export DDL Export File

| Select | Name | Application Status |
|--------------------------|--------------------------------|--------------------|
| <input type="checkbox"/> | MAXIMO | ✘ |
| <input type="checkbox"/> | MXIEHS | ✘ |
| <input type="checkbox"/> | MXS75WS-MAXIMO | ✘ |
| <input type="checkbox"/> | MXS75WS-MXIEHS | ✘ |

Total 4

Click the **Browse** button and find the <maximo_home>/deployment/default/rmireg.war file
Click **Next**



Enterprise Applications

Preparing for the application installation

Specify the EAR, WAR, JAR, or SAR module to upload and install.

Path to the new application

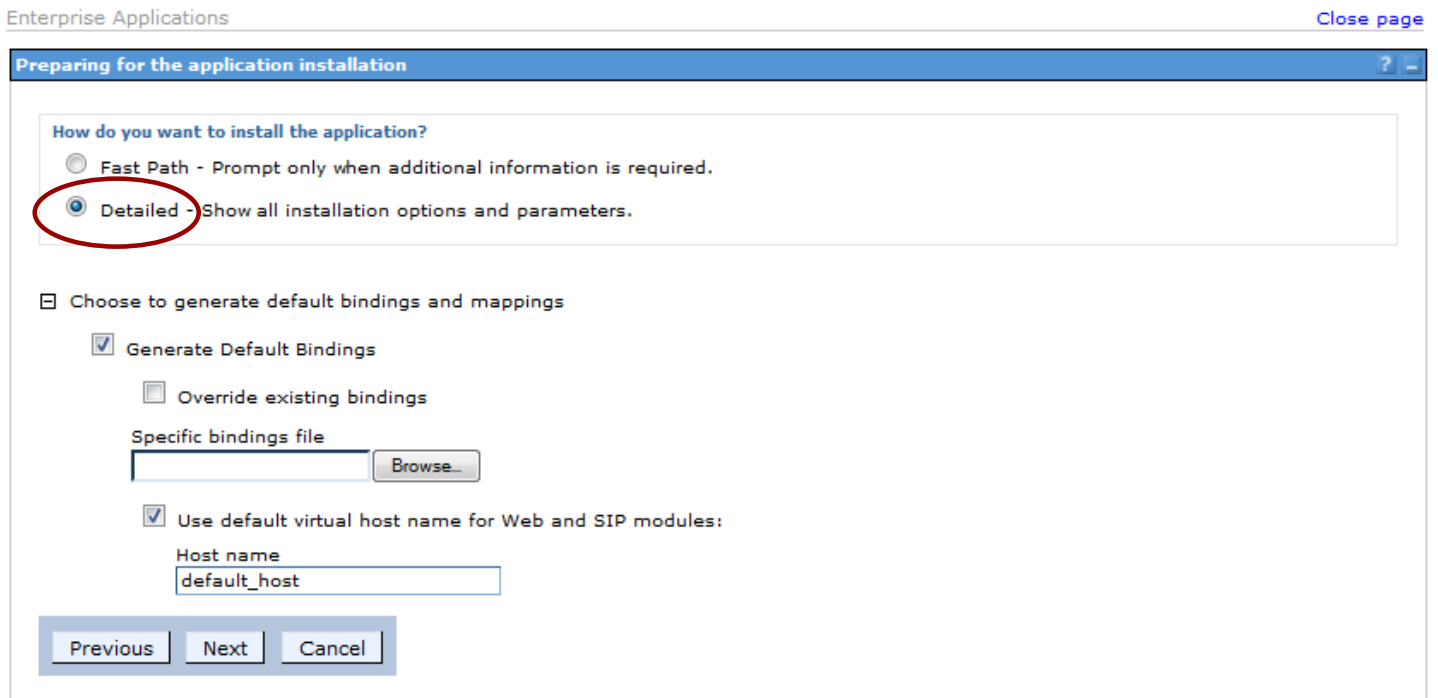
Local file system

Full path
C:\ibm\SMP\maximo\deploy

Remote file system

Full path

Under **How do you want to install the application?** Select **Detailed**.
Expand **Choose to generate default bindings and mappings**.
Select the check box next to **Generate Default Bindings**
Click **Next**



Enterprise Applications [Close page](#)

Preparing for the application installation

How do you want to install the application?

Fast Path - Prompt only when additional information is required.

Detailed - Show all installation options and parameters.

Choose to generate default bindings and mappings

Generate Default Bindings

Override existing bindings

Specific bindings file

Use default virtual host name for Web and SIP modules:

Host name

Click **Continue**.

Application Security Warnings

Specifies the resulting security warnings from an analysis of this application.

The contents of the was.policy file -

```
// // Template policy file for enterprise application. // Extra permissions can be added if required by the enterprise application. // // NOTE: Syntax errors in the policy files will cause the enterprise application FAIL to start. // Extreme care should be taken when editing these policy files. It is advised to use // the policytool provided by the JDK for editing the policy files // (WAS_HOME/java/jre/bin/policytool). // grant codeBase "file:${application}" { }; grant codeBase "file:${jars}" { }; grant codeBase "file:${connectorComponent}" { }; grant codeBase "file:${webComponent}" { }; grant codeBase "file:${ejbComponent}" { };
```

Leave the default **rmireg_war** Application name
Click **Next**

In **Step 2**, select the **RMIRegistry** server
Select the check box next to the **RMI Registry Application**
Click the **Apply** button
Confirm that the **RMI Registry Application** is mapped to the **RMIRegistry**
Click **Next**

Install New Application

Specify options for installing enterprise applications and modules.

Step 1 Select installation options

Step 2: Map modules to servers

Step 3 Provide JSP reloading options for Web modules

Step 4 Map shared libraries

Step 5 Map shared library relationships

Step 6 Map virtual hosts for Web modules

Step 7 Map context roots for Web modules

Step 8 Summary

Map modules to servers

Specify targets such as application servers or clusters of application servers where you want to install the modules that are contained in your application. Modules can be installed on the same application server or dispersed among several application servers. Also, specify the Web servers as targets that serve as routers for requests to this application. The plug-in configuration file (plugin-cfg.xml) for each Web server is generated, based on the applications that are routed through.

Clusters and servers:

WebSphere:cell=ctgCell01,node=ctgNode01,server=MXServer
WebSphere:cell=ctgCell01,node=ctgNode01,server=webserver1
WebSphere:cell=ctgCell01,node=ctgNode01,server=MXS75WS_Server
WebSphere:cell=ctgCell01,node=ctgNode01,server=RMIRegistry

| Select | Module | URI | Server |
|-------------------------------------|--------------------------|----------------------------|--|
| <input checked="" type="checkbox"/> | RMI Registry Application | rmireg.war,WEB-INF/web.xml | WebSphere:cell=ctgCell01,node=ctgNode01,server=RMIRegistry |

Click **Next** through Steps 3 through 5.
In **Step 6**, leave the Virtual host at default_host.
Click **Next**

Cell=ctgCell01, Profile=ctgDmgr01

Install New Application ? -

Specify options for installing enterprise applications and modules.

[Step 1](#) Select installation options

[Step 2](#) Map modules to servers

[Step 3](#) Provide JSP reloading options for Web modules

[Step 4](#) Map shared libraries

[Step 5](#) Map shared library relationships

→ **Step 6: Map virtual hosts for Web modules**

[Step 7](#) Map context roots for Web modules

[Step 8](#) Summary

Map virtual hosts for Web modules

Specify the virtual host where you want to install the Web modules that are contained in your application. You can install Web modules on the same virtual host or disperse them among several hosts.

Apply Multiple Mappings

| Select | Web module | Virtual host |
|--------------------------|--------------------------|--------------|
| <input type="checkbox"/> | RMI Registry Application | default_host |

Previous **Next** Cancel

In **Step 7**, in Context Root, remove the forward slash (/) for **Context Root** and enter **RMI**.
Click Next.

Cell=ctgCell01, Profile=ctgDmgr01

Install New Application ? -

Specify options for installing enterprise applications and modules.

[Step 1](#) Select installation options

[Step 2](#) Map modules to servers

[Step 3](#) Provide JSP reloading options for Web modules

[Step 4](#) Map shared libraries

[Step 5](#) Map shared library relationships

[Step 6](#) Map virtual hosts for Web modules

→ **Step 7: Map context roots for Web modules**

[Step 8](#) Summary

Map context roots for Web modules

Context root defined in the deployment descriptor can be edited.

| Web module | URI | Context Root |
|--------------------------|----------------------------|----------------------------------|
| RMI Registry Application | rmireg.war,WEB-INF/web.xml | <input type="text" value="RMI"/> |

Previous Next Cancel

Note the warning at the bottom. RMIRRegistry is a stand-alone web application, and is not mapped to any Web server. Click **Finish**

Cell=ctgCell01, Profile=ctgDmgr01

Install New Application



Specify options for installing enterprise applications and modules.

[Step 1](#) Select installation options

[Step 2](#) Map modules to servers

[Step 3](#) Provide JSP reloading options for Web modules

[Step 4](#) Map shared libraries

[Step 5](#) Map shared library relationships

[Step 6](#) Map virtual hosts for Web modules


[Step 7](#) Map context roots for Web modules

→ **Step 8: Summary**

Summary

Summary of installation options

| Options | Values |
|---|---|
| Precompile JavaServer Pages files | No |
| Directory to install application | |
| Distribute application | Yes |
| Use Binary Configuration | No |
| Deploy enterprise beans | No |
| Application name | rmireg_war |
| Create MBeans for resources | Yes |
| Override class reloading settings for Web and EJB modules | No |
| Reload interval in seconds | |
| Deploy Web services | No |
| Validate Input off/warn/fail | warn |
| Process embedded configuration | No |
| File Permission | .*\,dll=755#.*\,so=755#.*\,a=755#.*\,sl=755 |
| Application Build ID | Unknown |
| Allow dispatching includes to remote resources | No |
| Allow servicing includes from remote resources | No |
| Business level application name | |
| Asynchronous Request Dispatch Type | Disabled |
| Allow EJB reference targets to resolve automatically | No |
| Cell/Node/Server | Click here |

 No application modules were mapped to Web servers. The plug-in configuration file (plugin-cfg.xml) for each Web server is generated based on the application modules which are mapped to it, therefore no Web server will route requests to this application. To change this option, select the Map modules to servers step.

Previous

Finish

Cancel

Click **Save to Master Configuration**.

Changes have been made to your local configuration. You can:

- [Save](#) directly to the master configuration.
- [Review](#) changes before saving or discarding.

Click **OK**.

Cell=ctgCell01, Profile=ctgDmgr01

Application servers

[Application servers](#) > **Synchronize changes with Nodes**

The current status of the Nodes being synchronized.

- i** ADMS0200: The configuration synchronization started for cell.
- i** ADMS0202: Automatic synchronization mode is disabled for node: ctgNode01.
- i** ADMS0201: The configuration synchronization started for node: ctgNode01.
- i** ADMS0205: The configuration synchronization completed successfully for node: ctgNode01.
- i** ADMS0203: The automatic synchronization mode is enabled for node: ctgNode01.
- i** ADMS0208: The configuration synchronization complete for cell.

OK

Select the **rmireg_war** application.

Integrated Solutions Console Welcome wasadmin Help | Logout

Cell=ctgCell01, Profile=ctgDmgr01

Enterprise Applications

Use this page to manage installed applications. A single application can be deployed onto multiple servers.

Preferences

Start Stop Install Uninstall Update Rollout Update Remove File Export Export DDL Export File

| Select | Name | Application Status |
|--------------------------|--------------------------------|--------------------|
| <input type="checkbox"/> | MAXIMO | ✘ |
| <input type="checkbox"/> | MXIEHS | ✘ |
| <input type="checkbox"/> | MXS75WS-MAXIMO | ✘ |
| <input type="checkbox"/> | MXS75WS-MXIEHS | ✘ |
| <input type="checkbox"/> | rmireg_war | ✘ |

Totals

Under **Detail Properties**, click on **Startup Behavior**

Cell=ctgCell01, Profile=ctgDmgr01

Enterprise Applications ? -

[Enterprise Applications](#) > [rmireg_war](#)

Use this page to configure an enterprise application. Click the links to access pages for further configuring of the application or its modules.

Configuration

General Properties

* Name
rmireg_war

Application reference validation
Issue warnings

Detail Properties

- [Target specific application status](#)
- [Startup behavior](#)
- [Application binaries](#)

Modules

- [Manage Modules](#)

Web Module Properties

- [Session management](#)
- [Context Root For Web Modules](#)
- [JSP and JSF options](#)
- [Virtual hosts](#)

Enterprise Java Bean Properties

Set the **Starting weight** to 1

Click **Apply**

Setting this option will cause the **rmireg_war** application to start first.

Cell=ctgCell01, Profile=ctgDmgr01

Enterprise Applications ? -

[Enterprise Applications](#) > [rmireg_war](#) > [Startup behavior](#)

Use this page to configure settings that determine how quickly an application starts compared to other applications and the server.

Configuration

General Properties

* Startup order
1

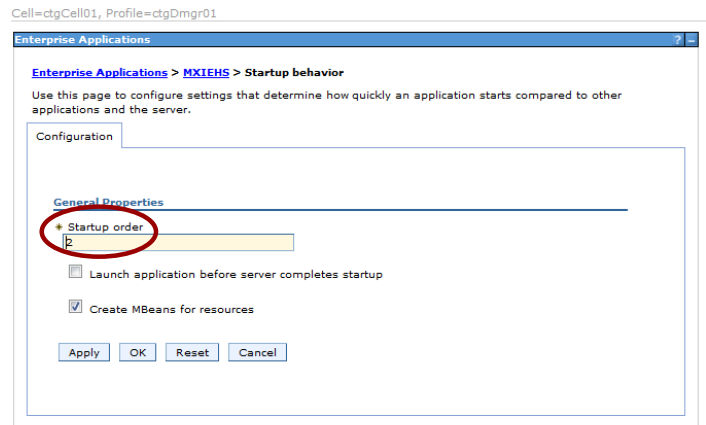
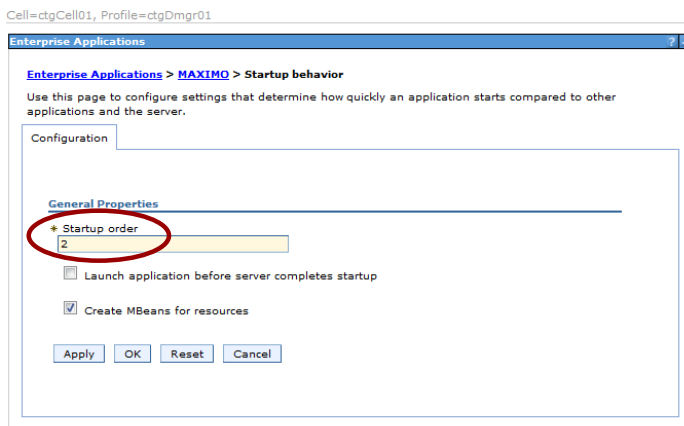
Launch application before server completes startup

Create MBeans for resources

Following the same steps as above, modify each of the other applications in the **Enterprise Applications** to set the **Starting weight** to **2**

Click **Apply**

Setting this option will cause the application to start after the "rmireg_war" application.



Click **OK** to **Synchronize changes with Nodes**.

On the left side of the console, expand **Servers**.

Expand **Server Types**.

Confirm that all servers and clusters are stopped.

Select the check box next to **RMRegistry**

Click **Start**

Start the other servers and clusters.

Integrated Solutions Console Welcome wasadmin Help | Logout

Cell=ctgCell01, Profile=ctgDmgr01

Application servers

Application servers

Use this page to view a list of the application servers in your environment and the status of each of these servers. You can also use this page to change the status of a specific application server.

Preferences

New Delete Templates **Start** Stop Restart ImmediateStop Terminate

| Select | Name | Node | Host Name | Version | Cluster Name | Status |
|-------------------------------------|--------------------------------|-----------|----------------------------|----------------|--------------|--------|
| <input type="checkbox"/> | MXS75WS_Server | ctgNode01 | nr0701603asasncmgwmaib.com | ND 7.0.0.21 | | |
| <input type="checkbox"/> | MXServer | ctgNode01 | nr0506003asasncmgwmaib.com | ND 7.0.0.21 | | |
| <input checked="" type="checkbox"/> | RMRegistry | ctgNode01 | nr0506003asasncmgwmaib.com | ND 7.0.0.21 | | |

Total 3