

Oracle FLEXCUBE Private Banking November 2010

Application Installation Manual - IBM Websphere 7.0

Oracle Part Number E51529-01



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➤ Introduction

The FCPB online application is a web-based application rendered over a thin browser. The application is deployed on a J2EE application server (J2EE 1.4/1.5) and is packaged in an .ear (Enterprise Archive) file

It is highly recommended that the deployment is done by a Websphere administrator or a person familiar with web application deployment

➤ Software Requirements

Operating System	Industry Standard UNIX (Solaris/IBM AIX/
Disk Space	50 GB
Memory	4 GB RAM
JDK	JDK 1.6+ (Sun Hotspot/IBM JDK)
J2EE	J2EE 1.6
Software	SQL Loader 10g (Required for file based interfaces) IBM WAS 7.0.0.0
Binaries	FCPB ear file

➤ FCPB Parameter Setup

Please refer to the Application server pre-requisites document (AppServer_PreRequisites_v2.0.1.doc) for the pre-requisites of the application. If the pre-requisites are not setup properly, the application may not deploy correctly or may have deployment errors

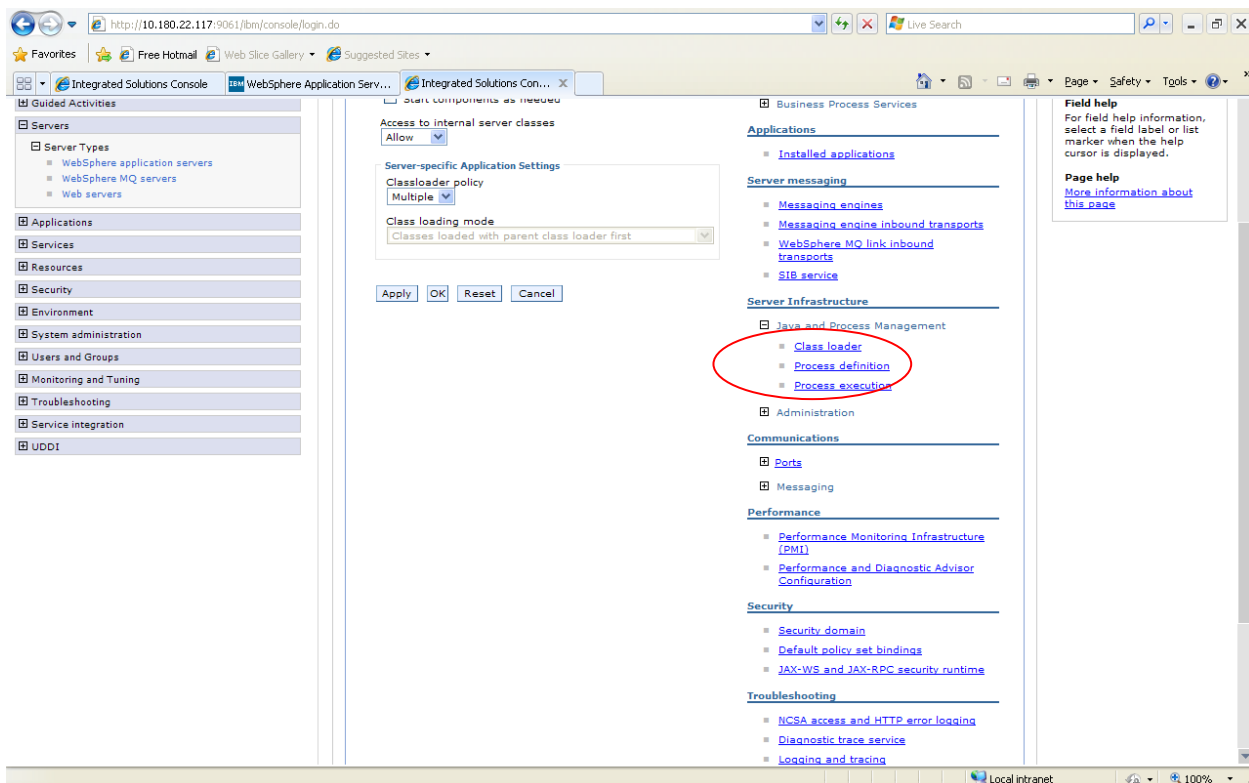
Parameter setup

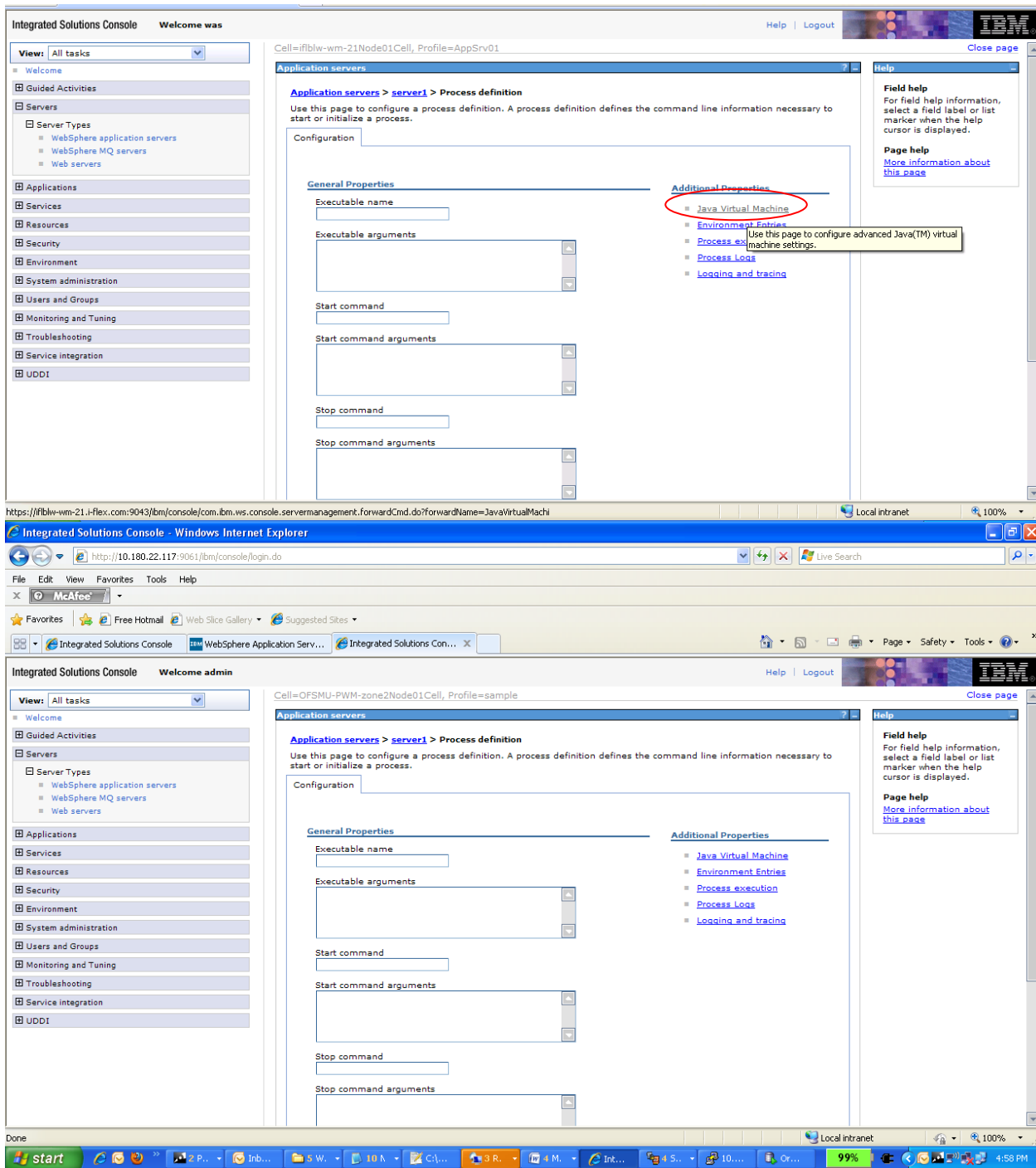
Assuming that the server instance is available and the pre-requisite setup have been completed, the following parameters need to be setup on the server

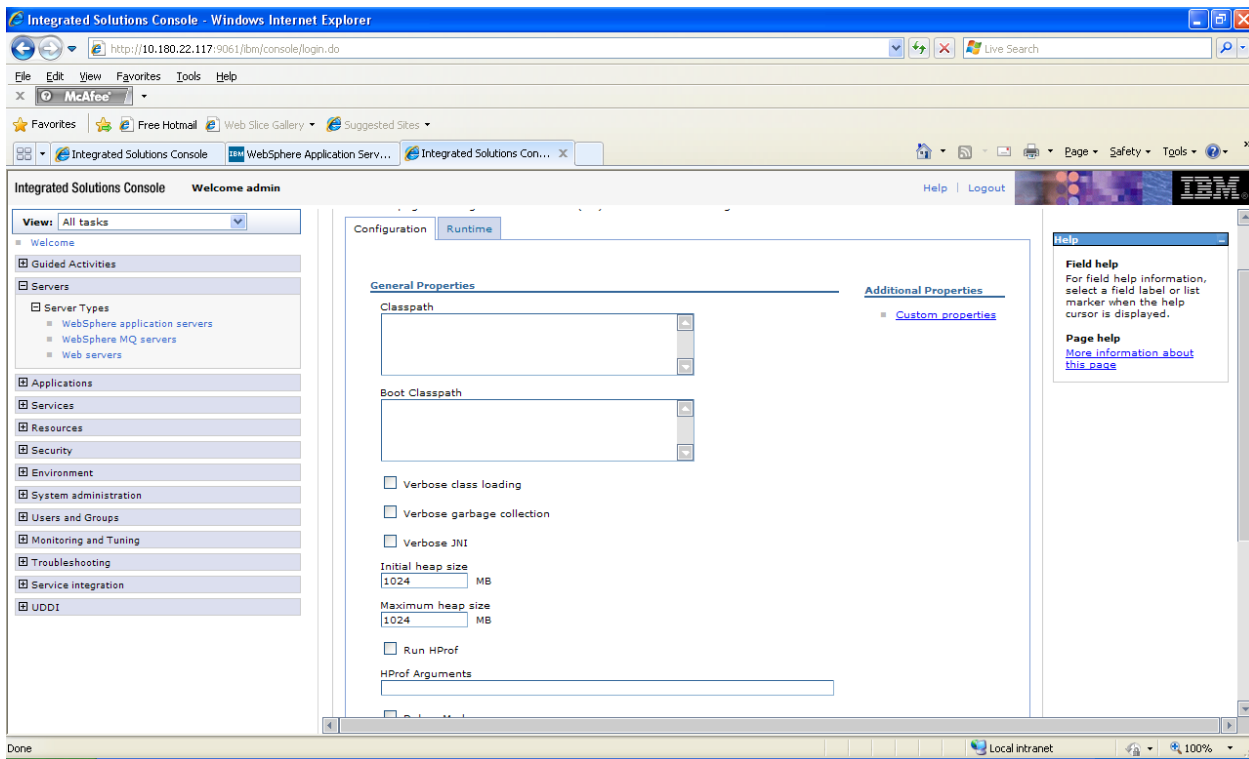
A) Heap settings

The application requires that the following heap parameters are setup for it to function properly and have a high performance

Please navigate to Application Servers -> <Server Name> -> Process Definition -> Java Virtual Machine

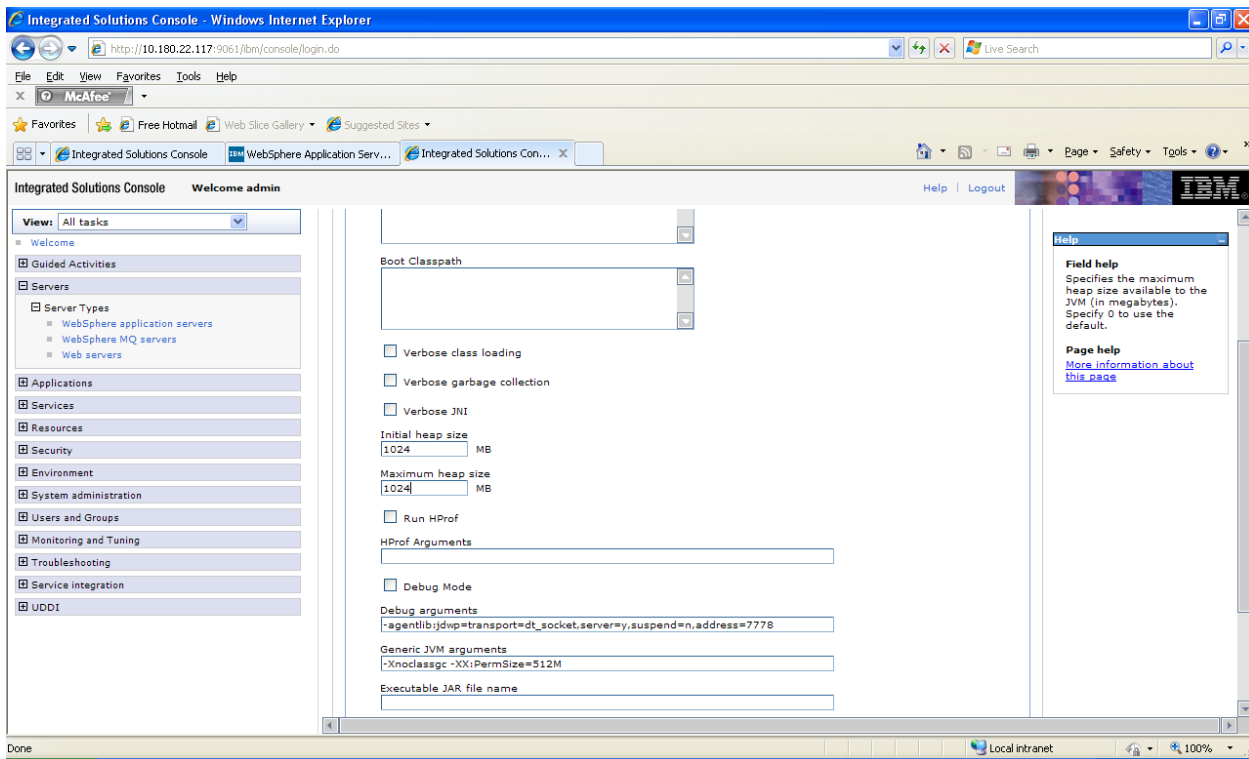






Initial Heap Size: 1024M (-Xms)
Maximum Heap Size: 1024M (-Xmx)

The following additional parameters need to be configured in case the Sun Hotspot JVM is used (Solaris environment)

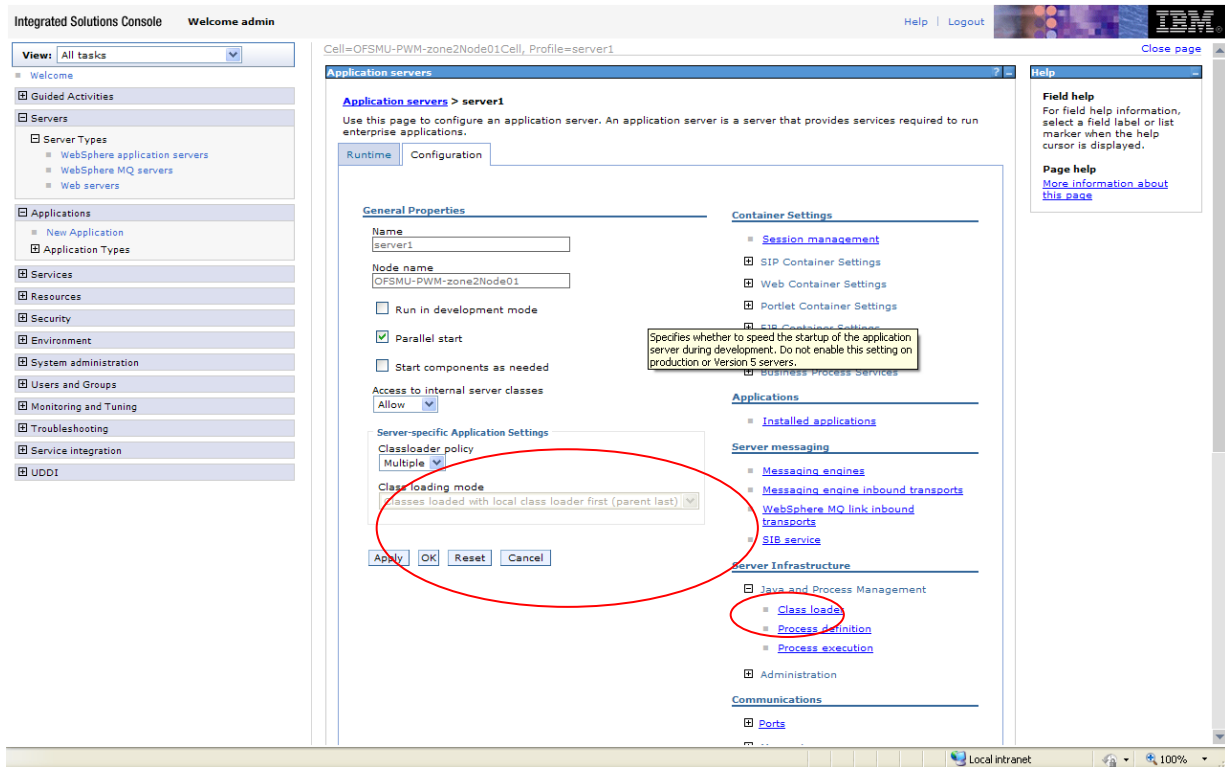


To be added in the Generic JVM Arguments text box space separated

-Xnoclassgc
-XX:PermSize=256M

-server (Only for Production environments and not to be used in SIT/UAT environments)
-XX:SurvivorRatio=16 (Only for Production environments and not to be used in SIT/UAT environments)

Configure the below changes to make the application log4J enable,ie, loading the classes in parent last order.



Then, keep the attached file in the below given directory.
D:\<<WASINSTALL>>\profiles\AppSrv01\properties

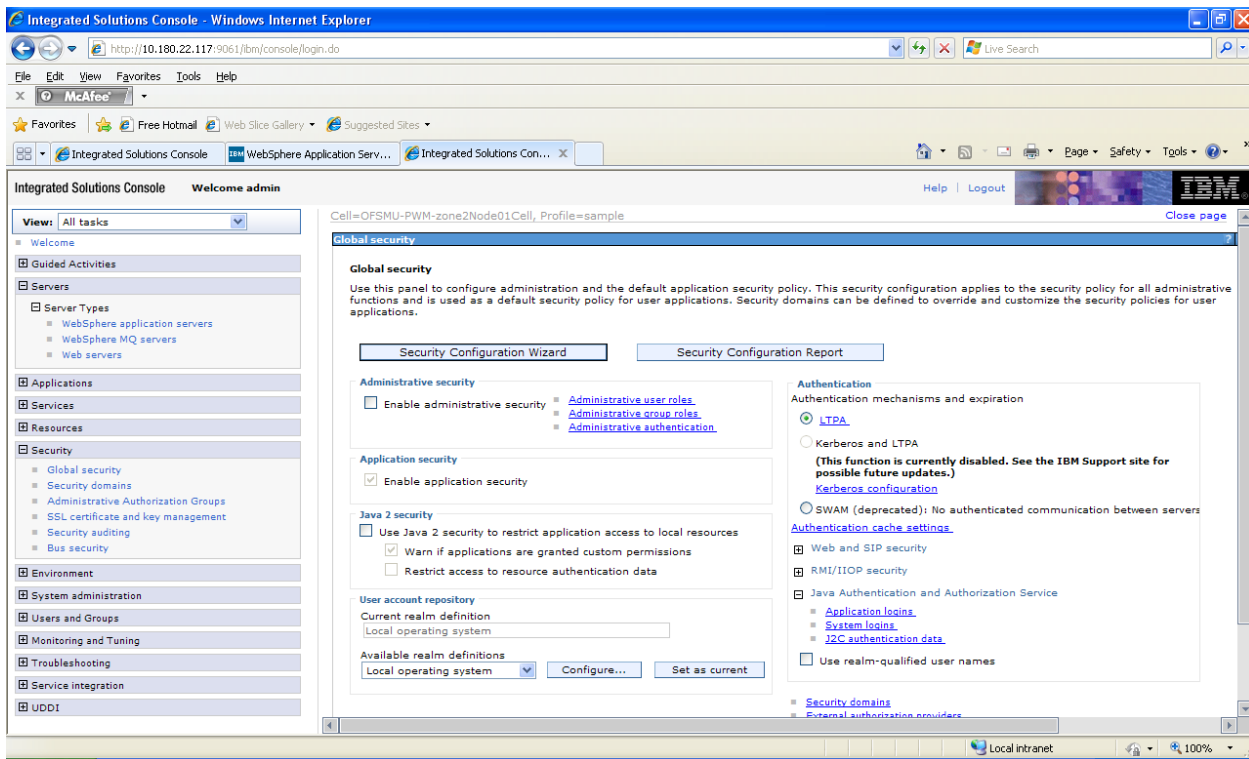


commons-logging.properties

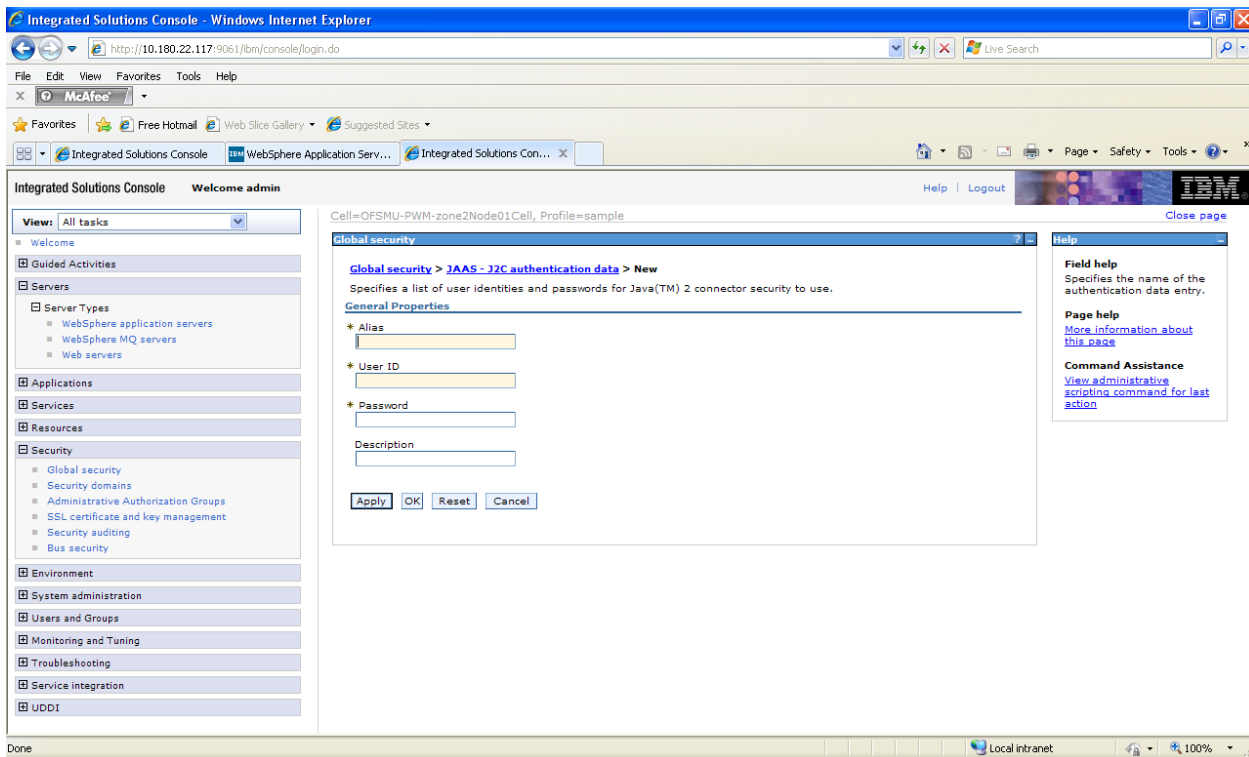
B) Datasource creation

The application uses data sources to connect to the database and for enhanced throughput and resource management. Please following the steps in sequence to configure it correctly

Creation of authentication alias



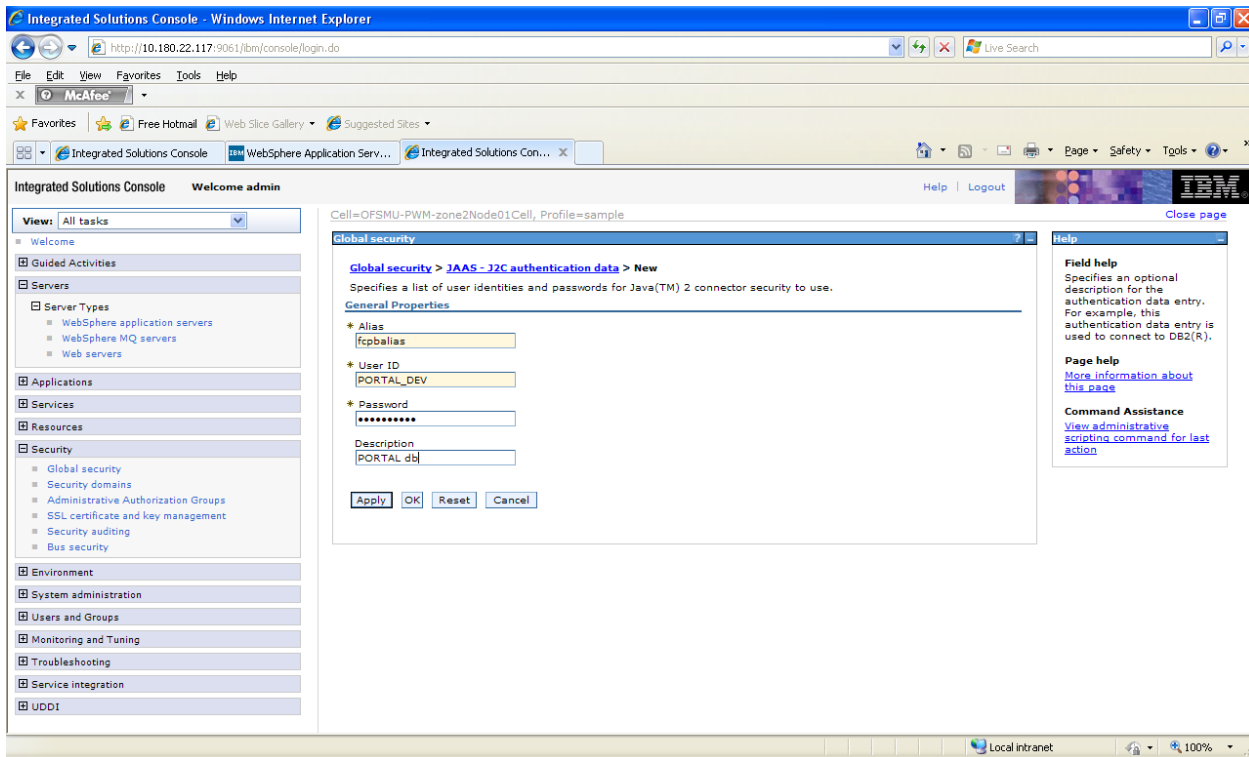
Click on the Security tab on the left and once the screen loads up, click on the link J2C authentication data. The following screen comes up



Please enter the database credentials of the application user schema that would be created as part of the database setup process.

Please note that in case you are importing a dump (typically in SIT), it is recommended that you create this alias using the schema owner credentials.

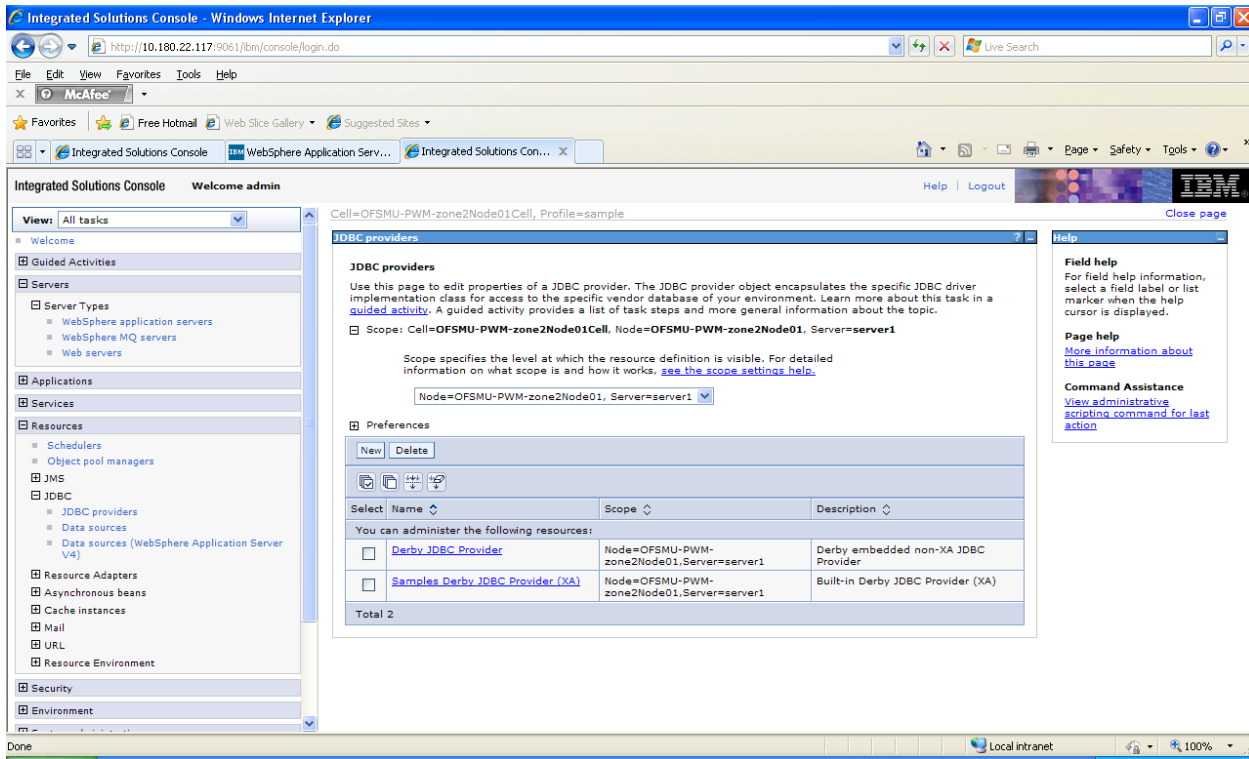
Click on Apply -> OK -> Save directly to the master configuration



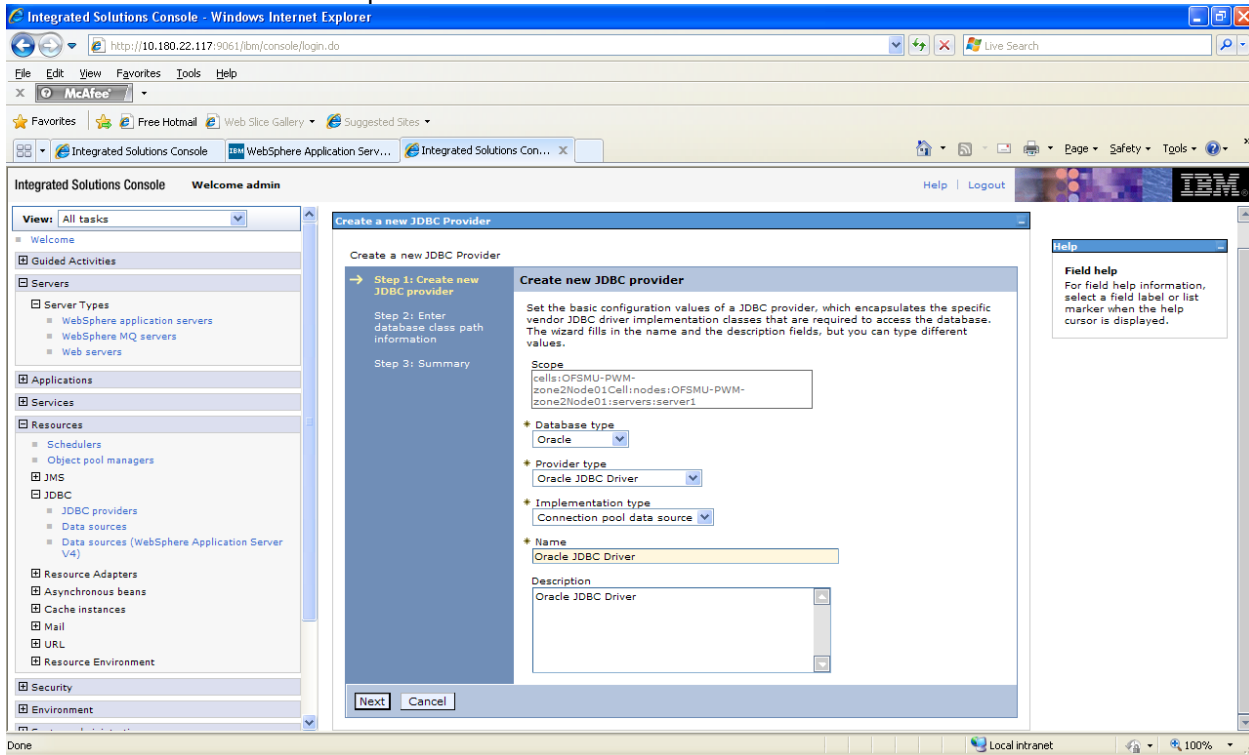
The authentication alias has been created successfully

Creation of JDBC provider

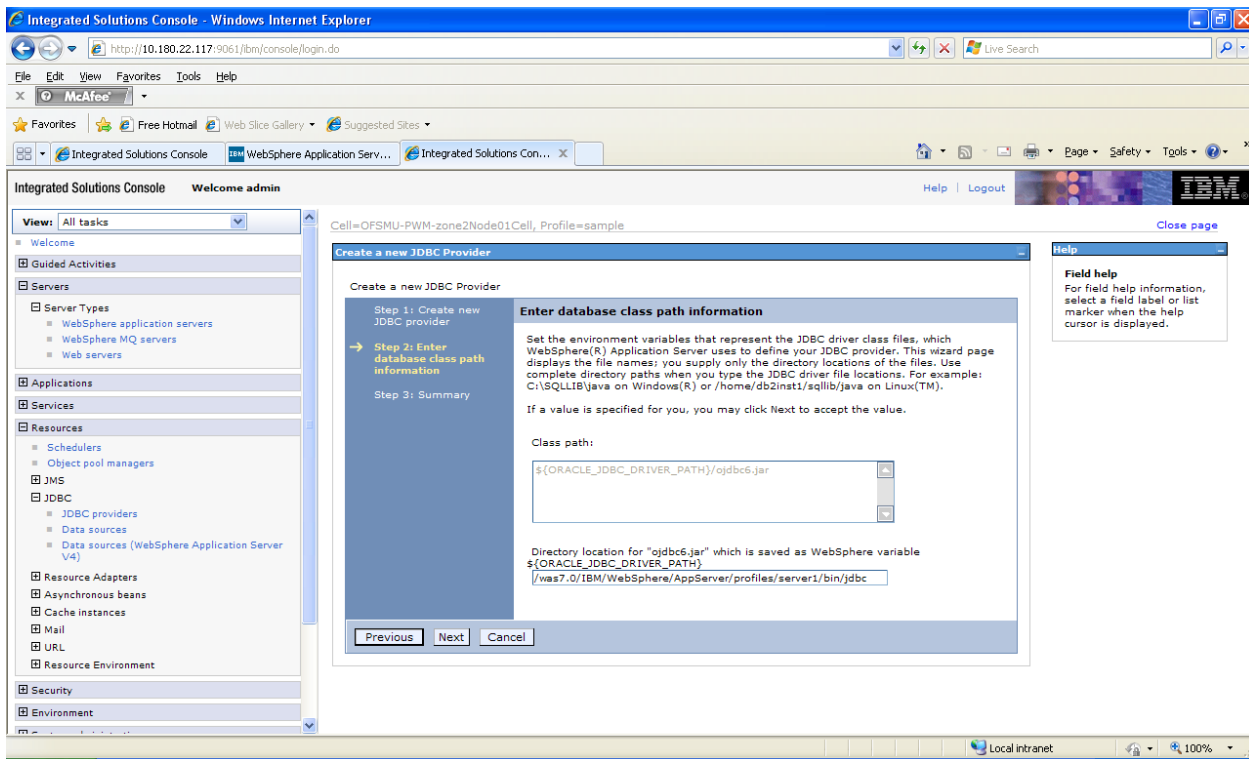
Click on Resources -> JDBC -> JDBC Providers. The following screen is loaded. Click on the new button and also ensure that the scope is set properly to the server level



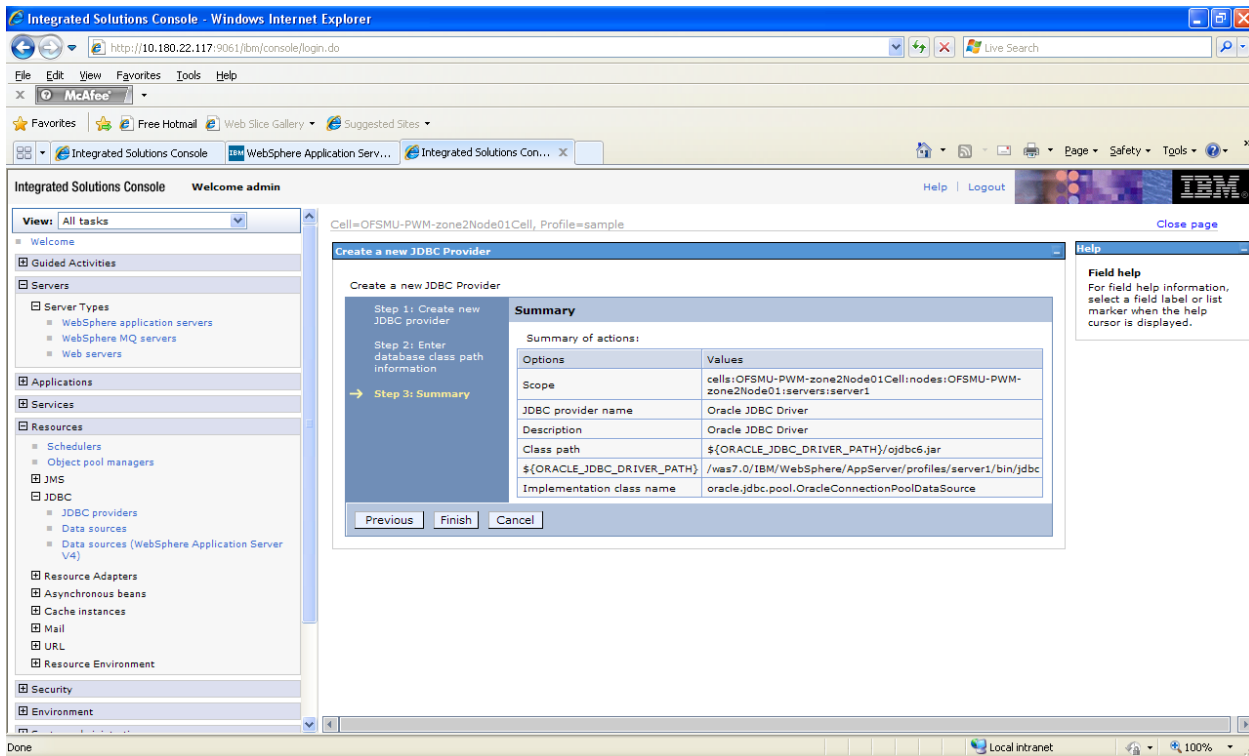
The following screen gets loaded. Please select the values as noted below. The name and description can be as the administrator requires. Click on Next



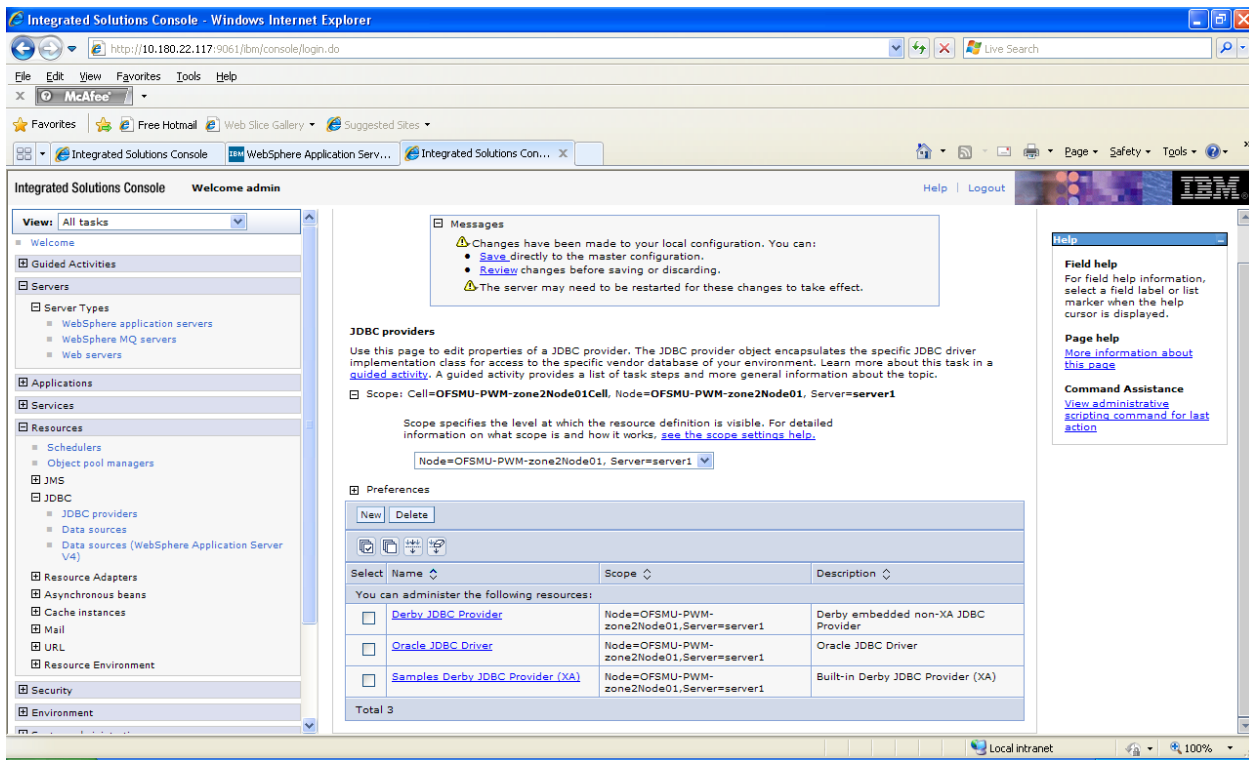
The following screen is loaded



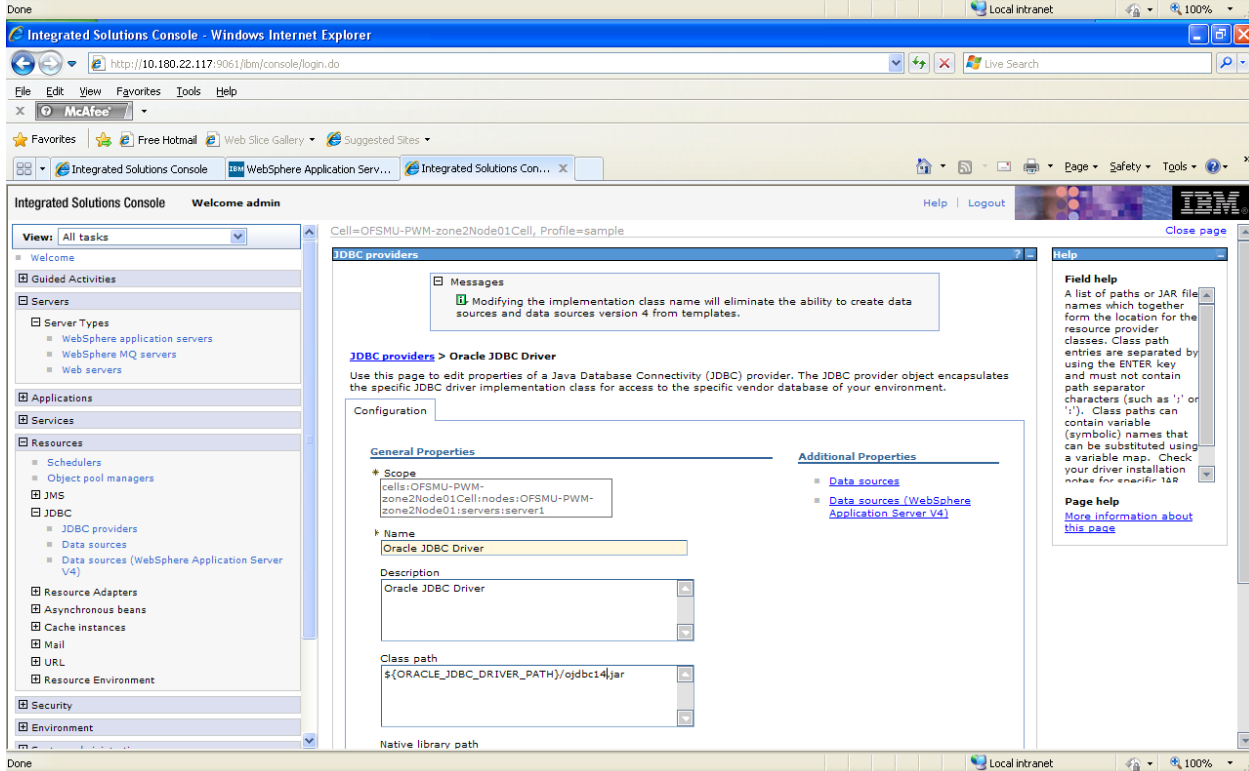
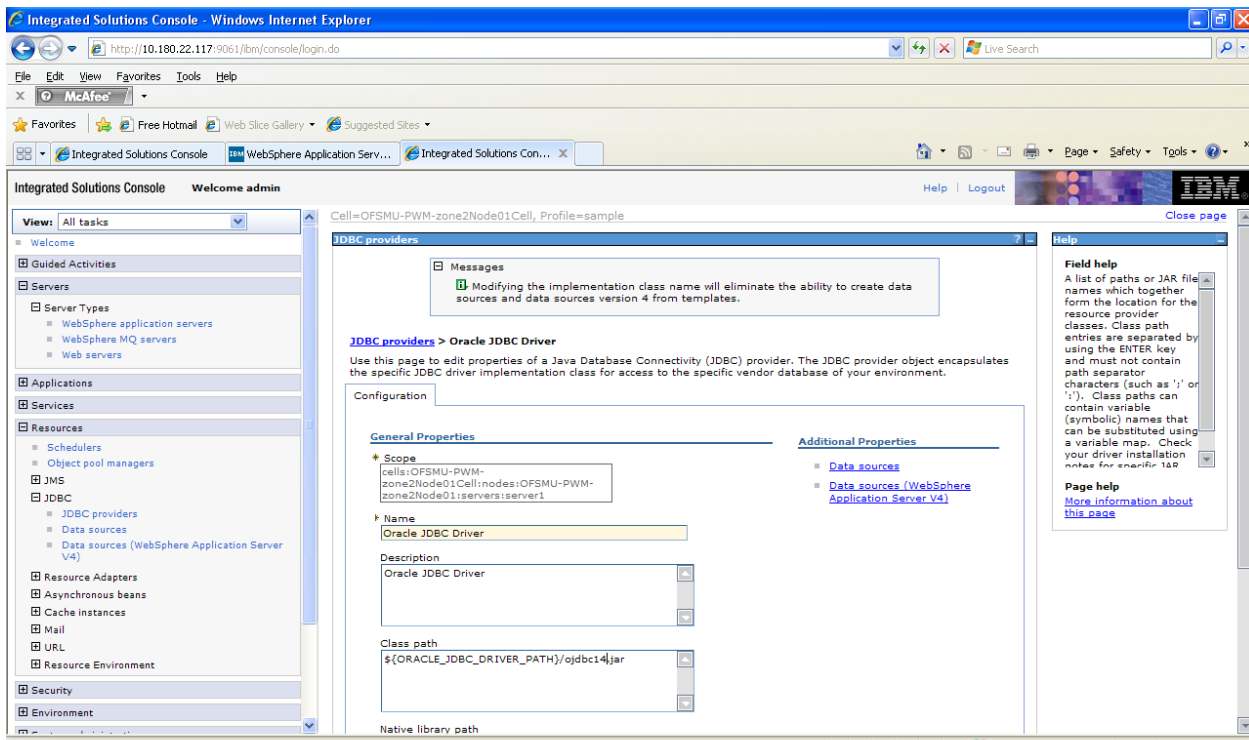
Please enter the exact location of the file ojdbc14.jar, which is the thin driver for the Oracle database and then next



The summary page is displayed. Click on Finish and Save directly to the master configuration once the next screen loads up



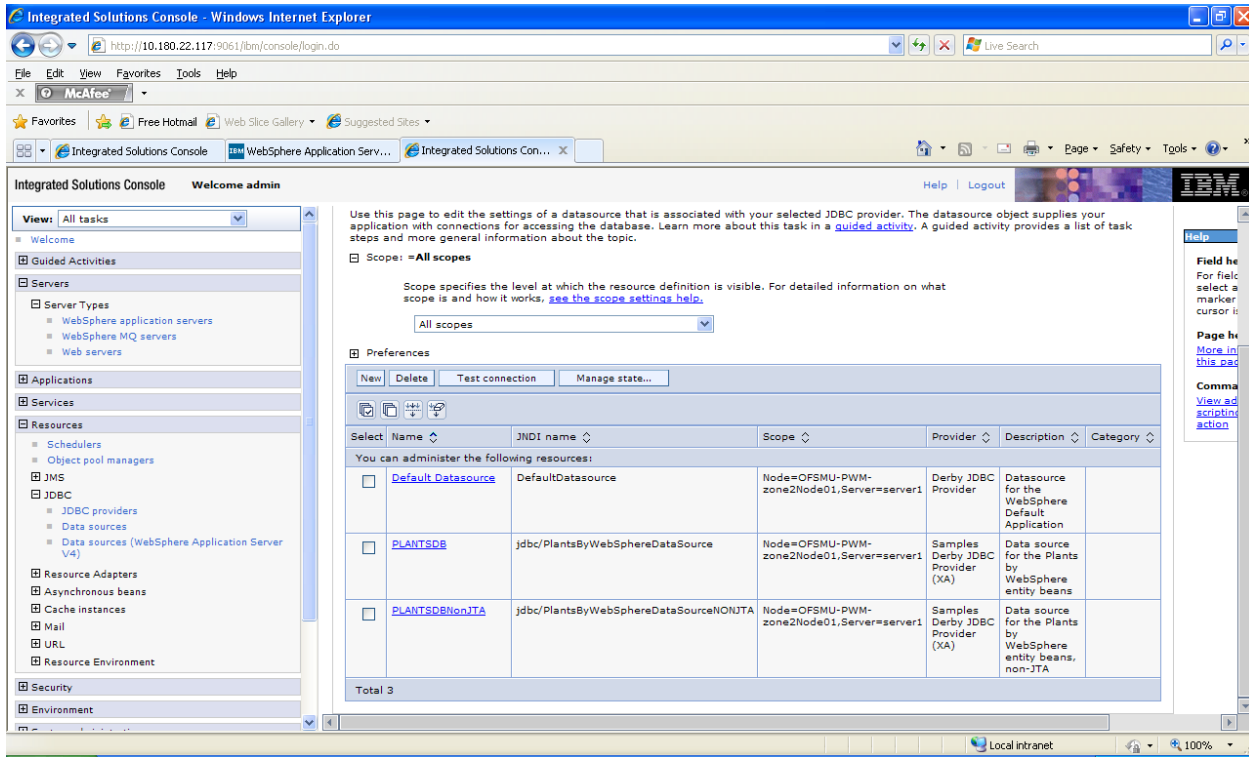
Click the newly created click JDBC provider and change the ojdbc jar name(ojdbc14.jar).

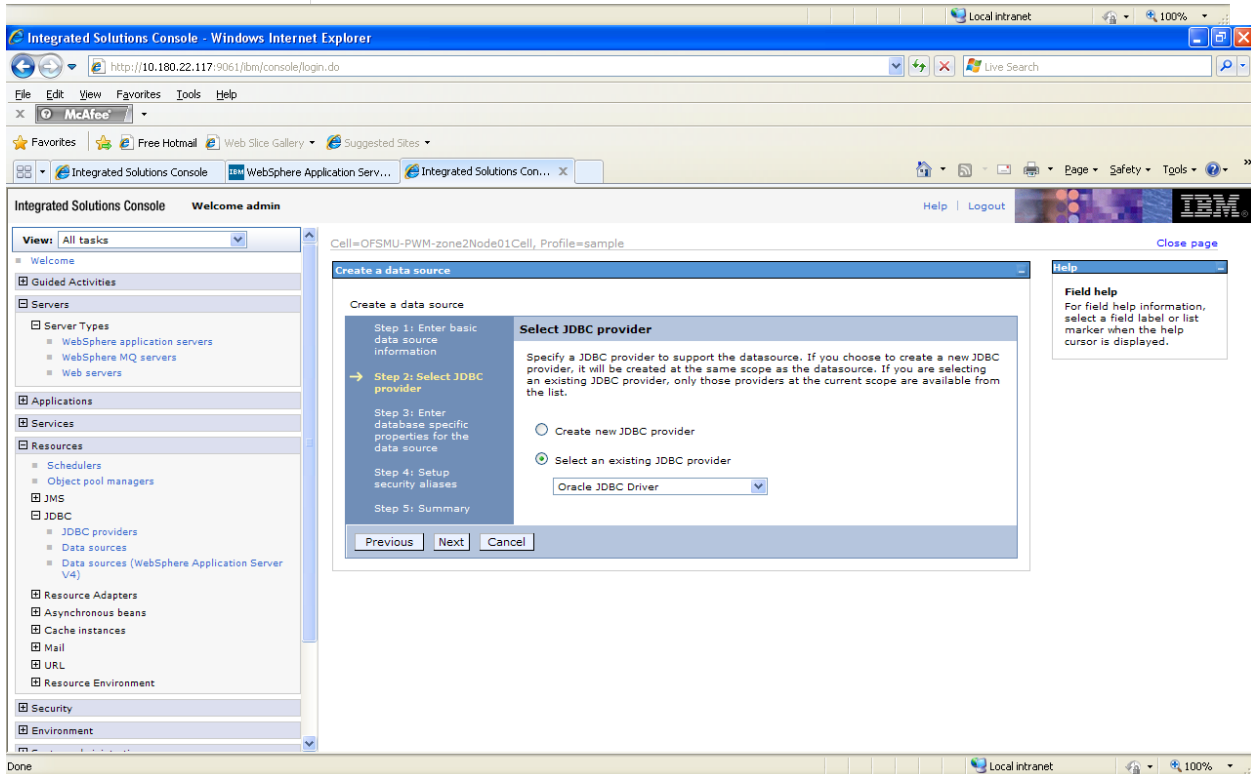
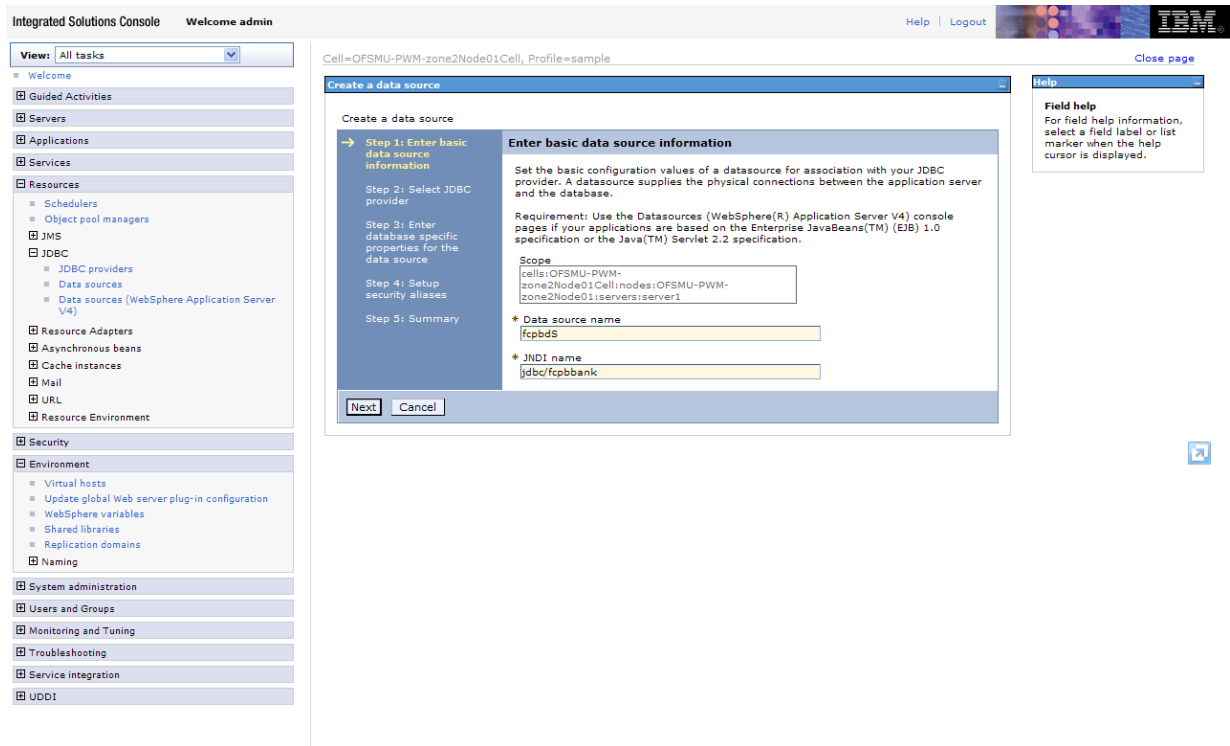


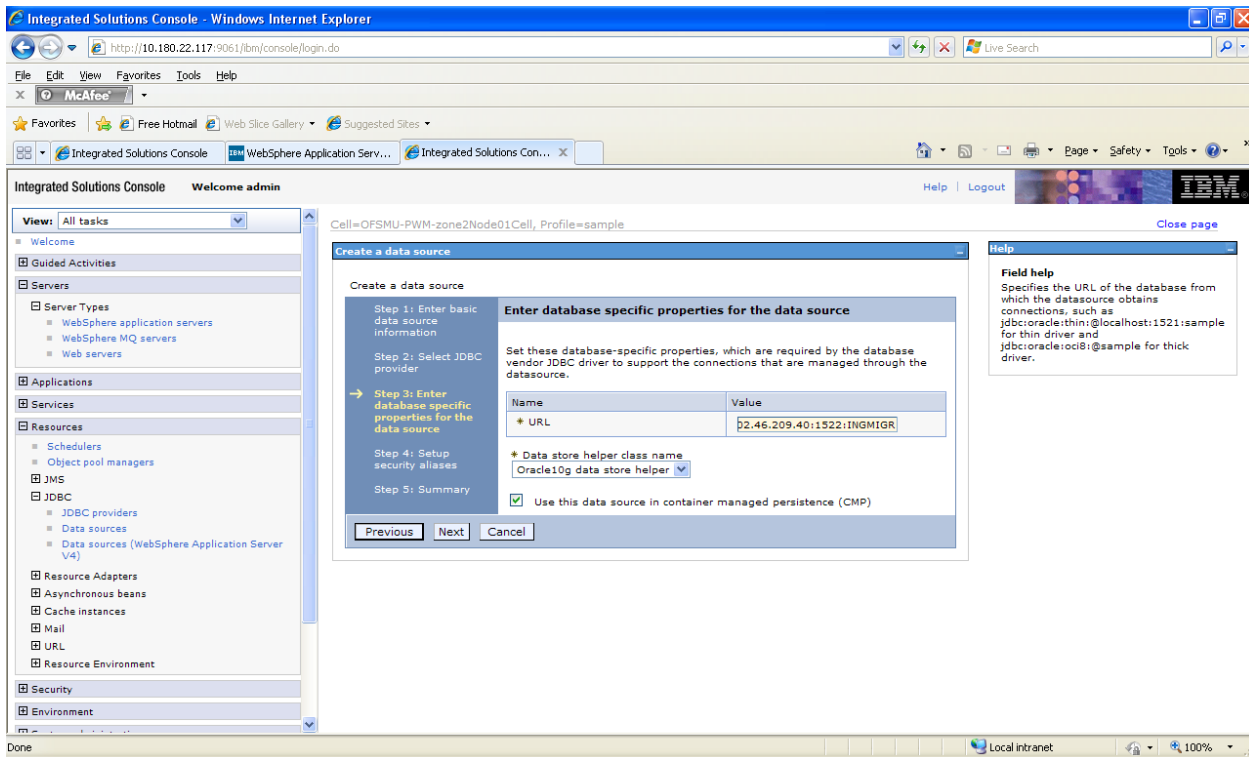
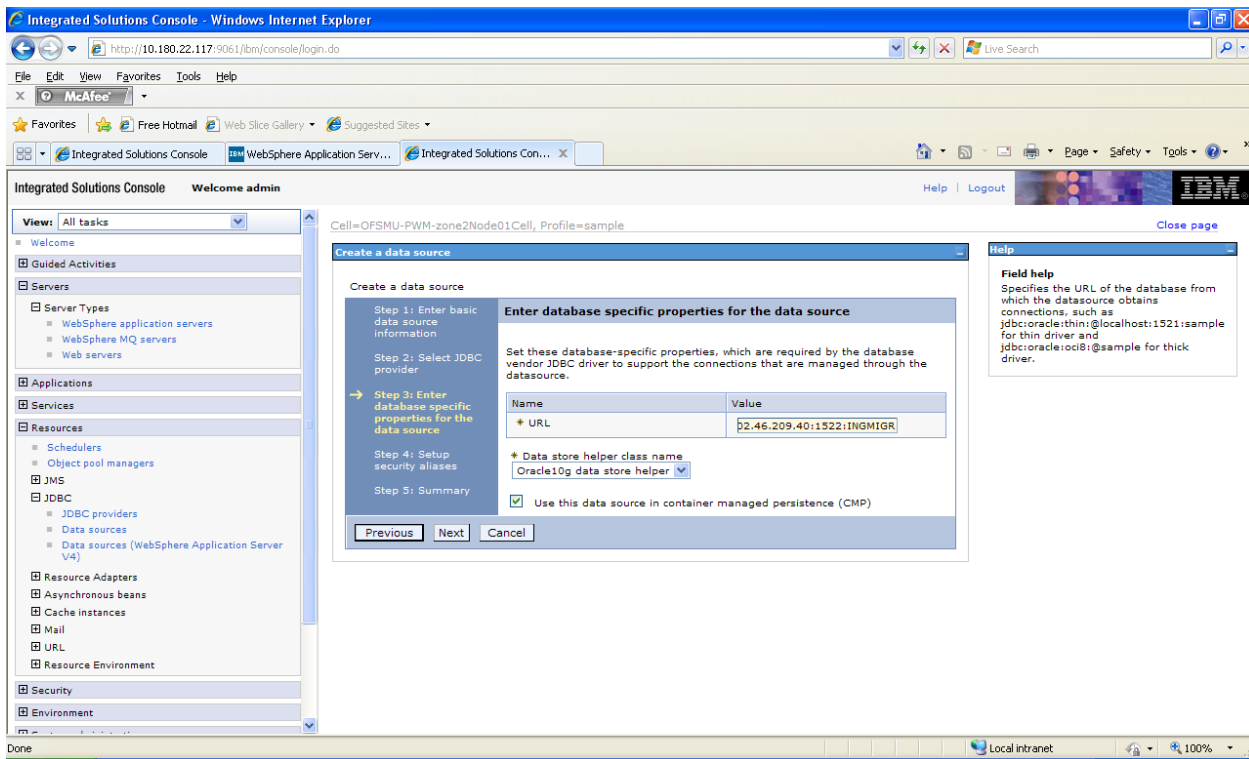
Creation of datasource

Once the JDBC provider has been created, the corresponding datasource has to be mapped to it. Click

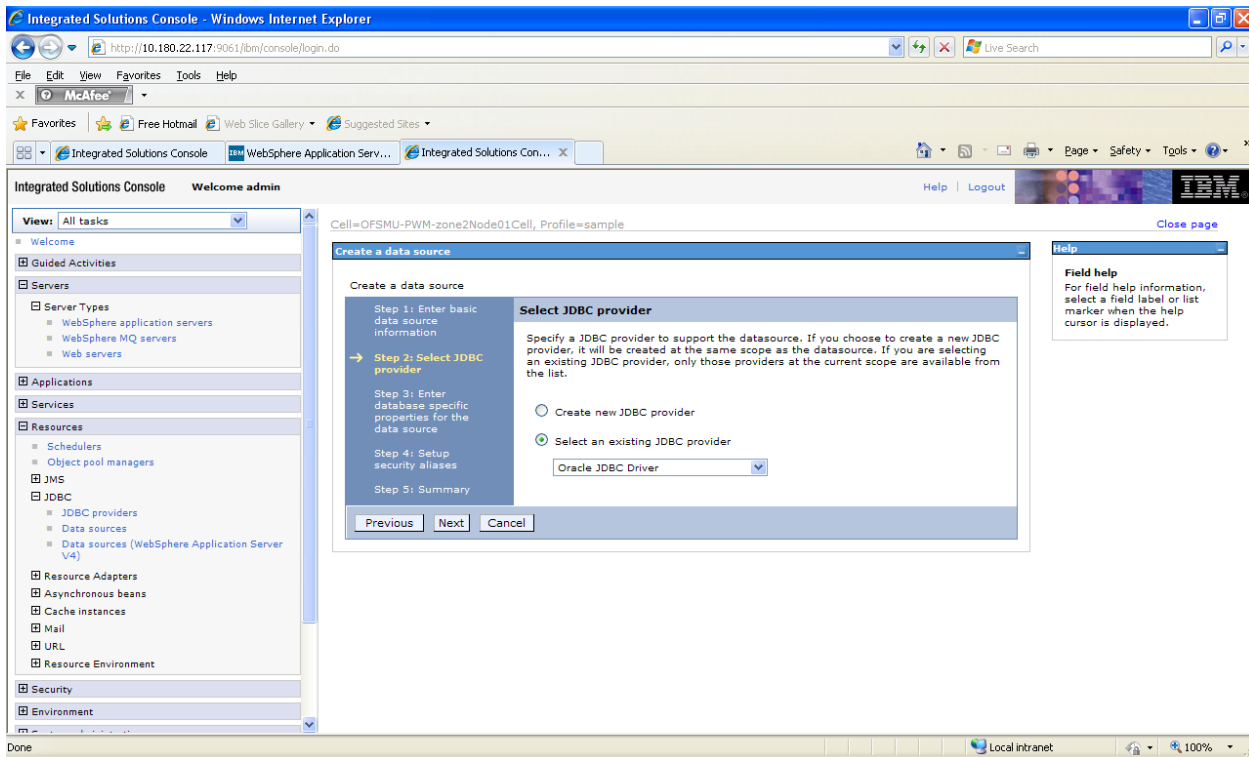
on JDBC -> Data sources. Once the screen below loads up, click on the New button. Ensure that the scope is at the server level





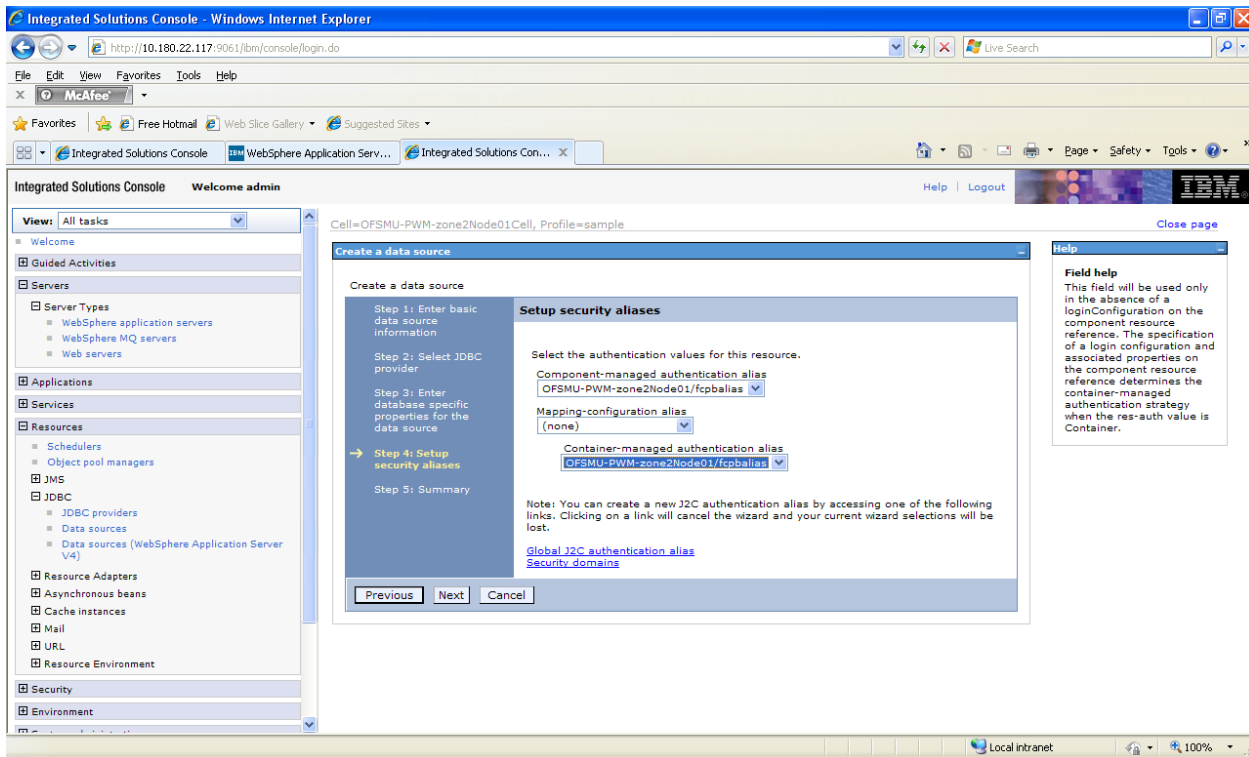
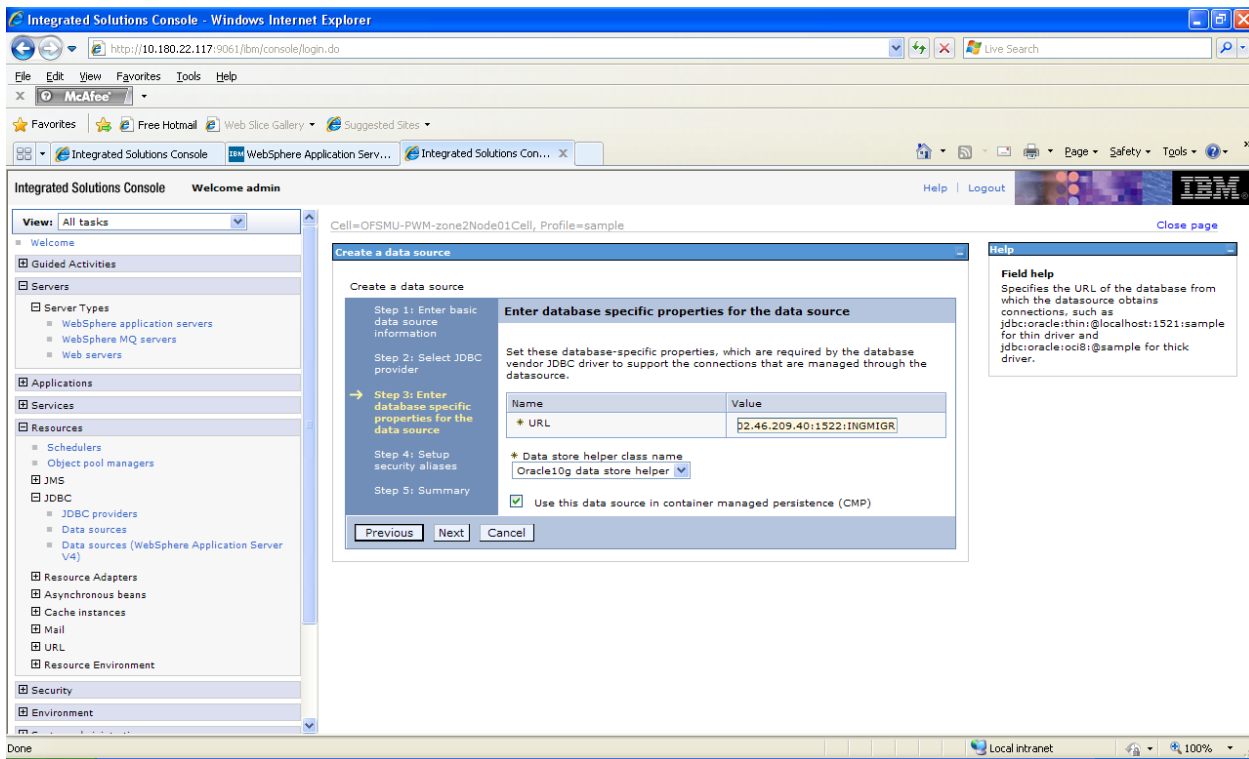


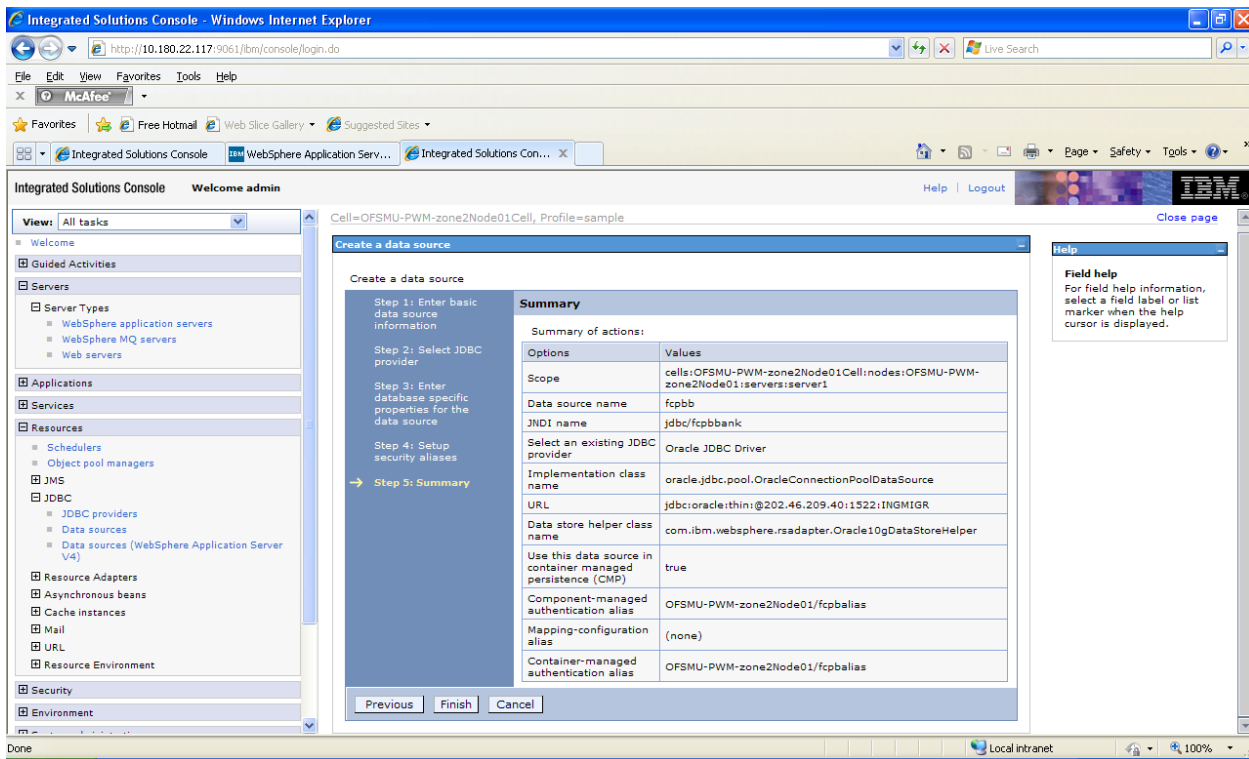
Please enter the values as mentioned without any change. Click on Next



Select the JDBC Provider that was created and click on Next.

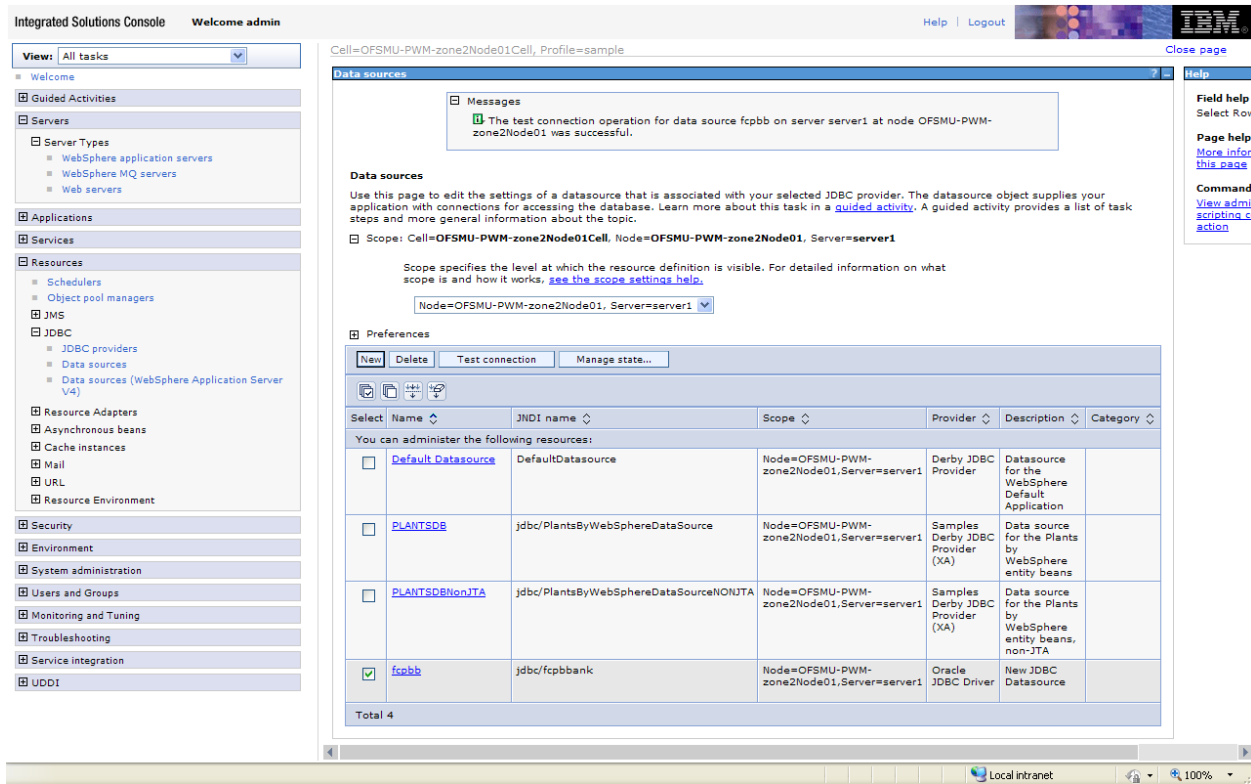
Please enter the jdbc url denoting the usage of a thin driver and the 10g Data store helper class name and click on Next





Once the summary is displayed, click on Finish and then save directly to the master configuration. The following screen gets loaded

Click on Test connection. If the setup is ok, the test should be ok.



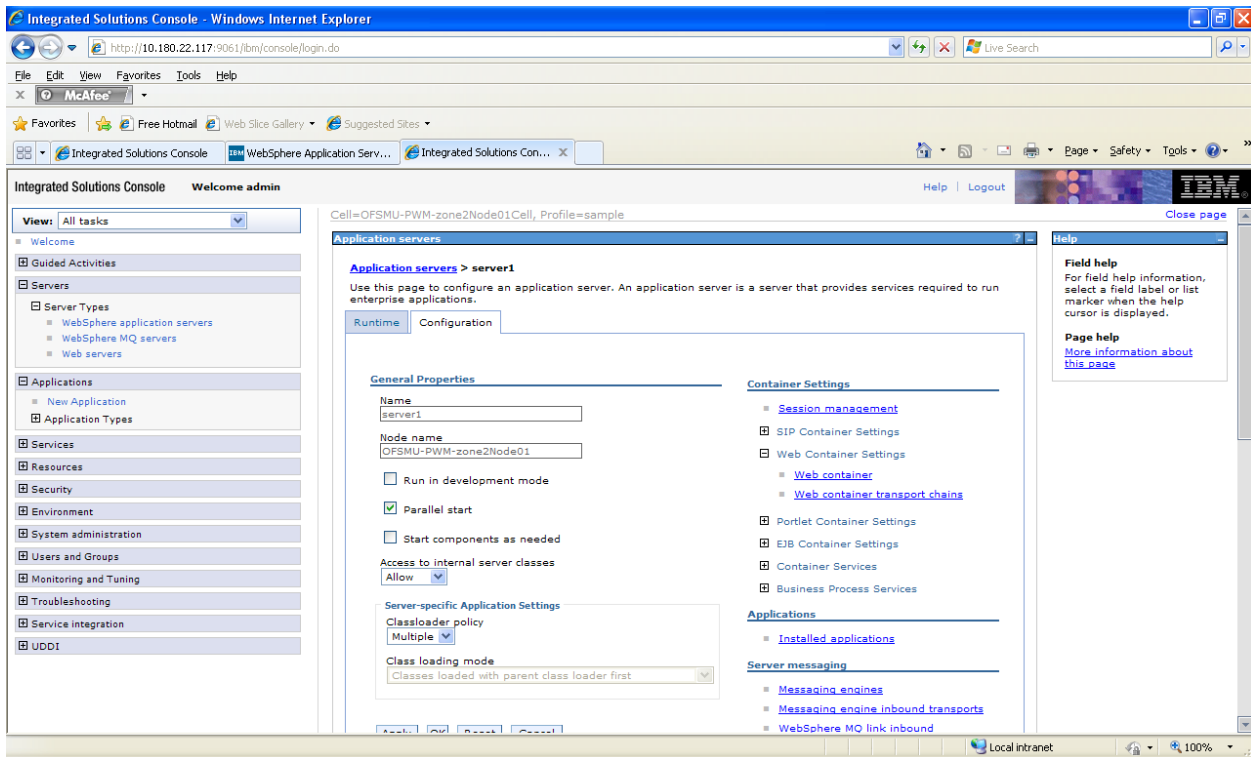
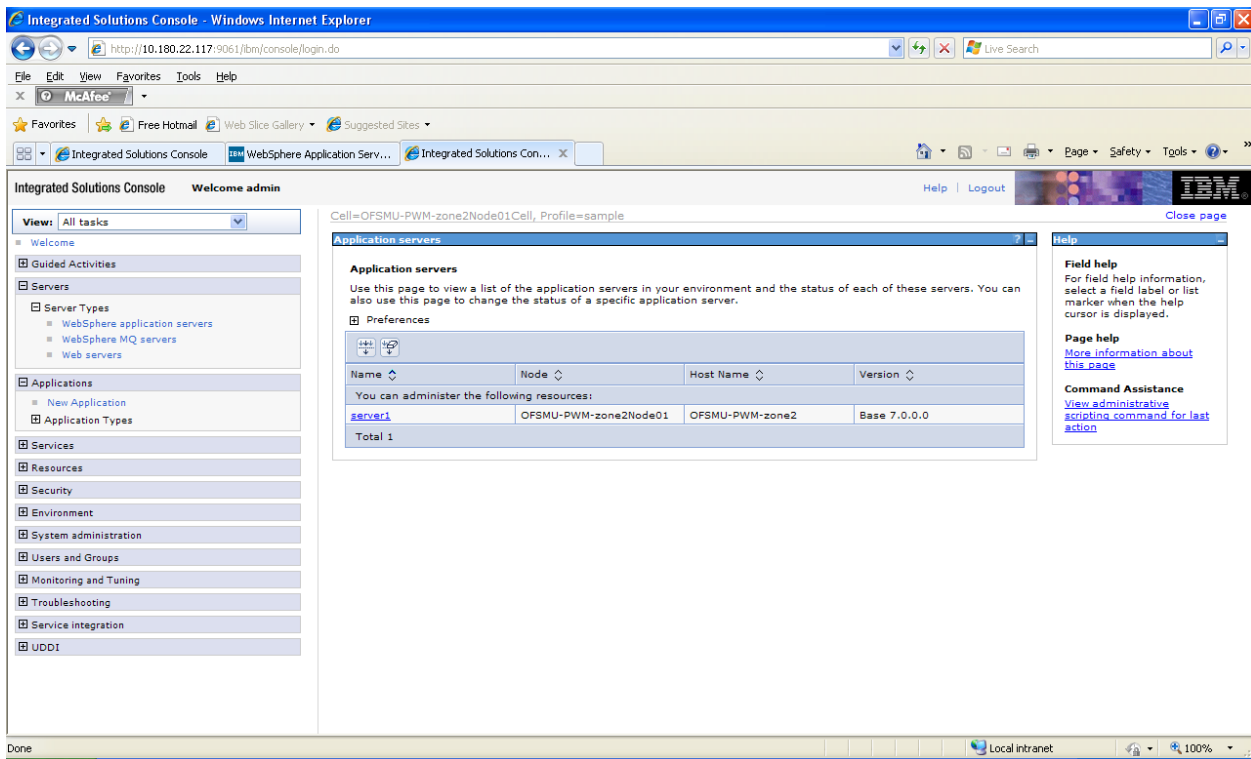
C) Custom Properties

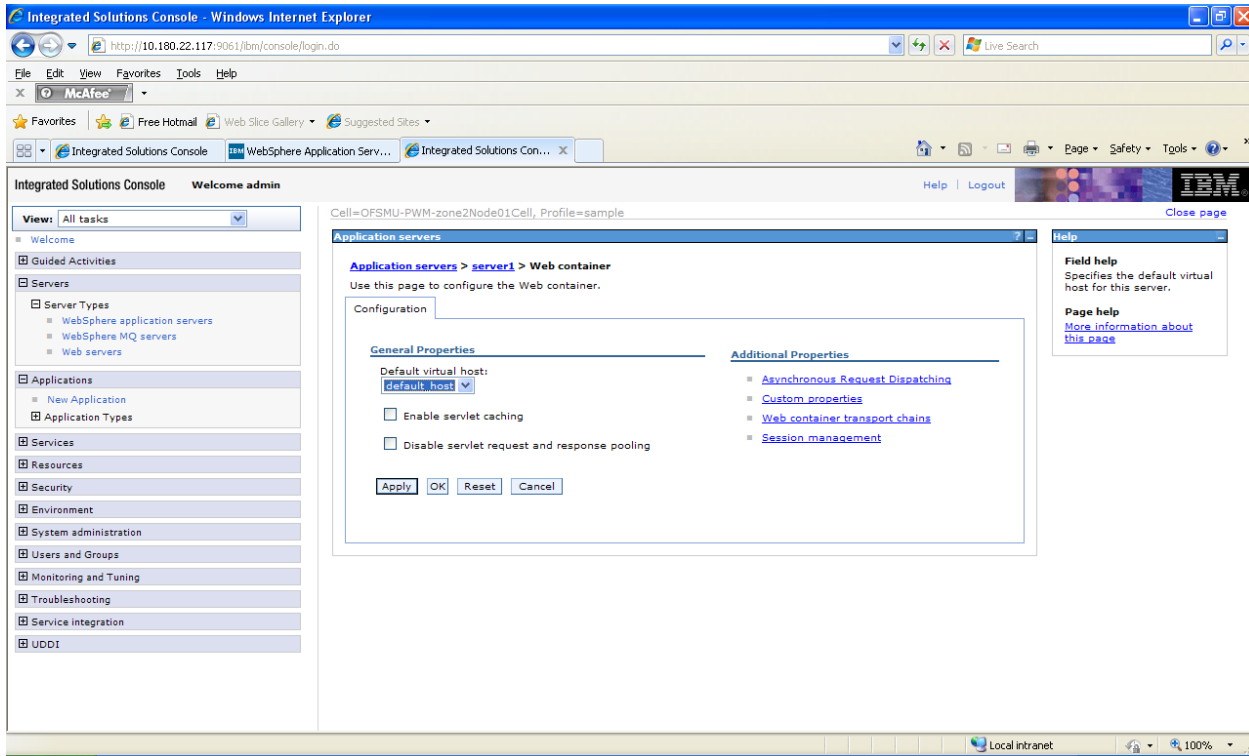
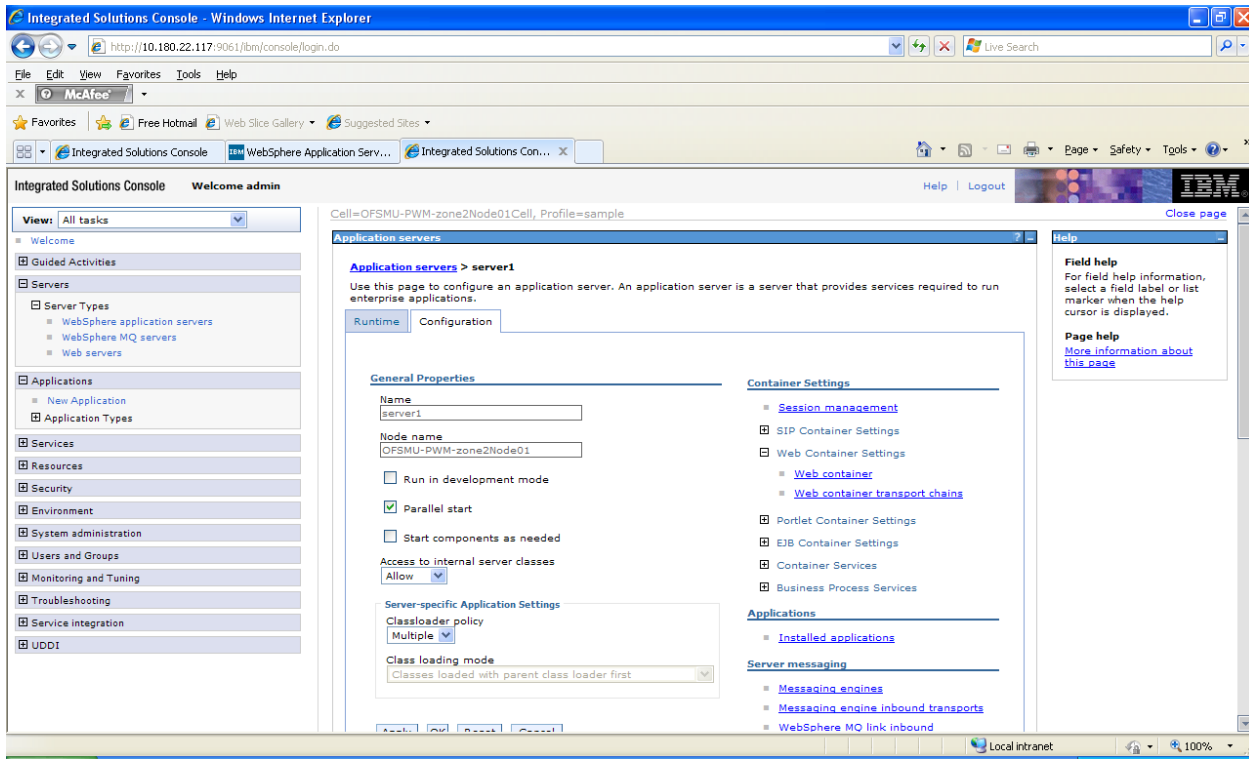
Web Container Custom Properties

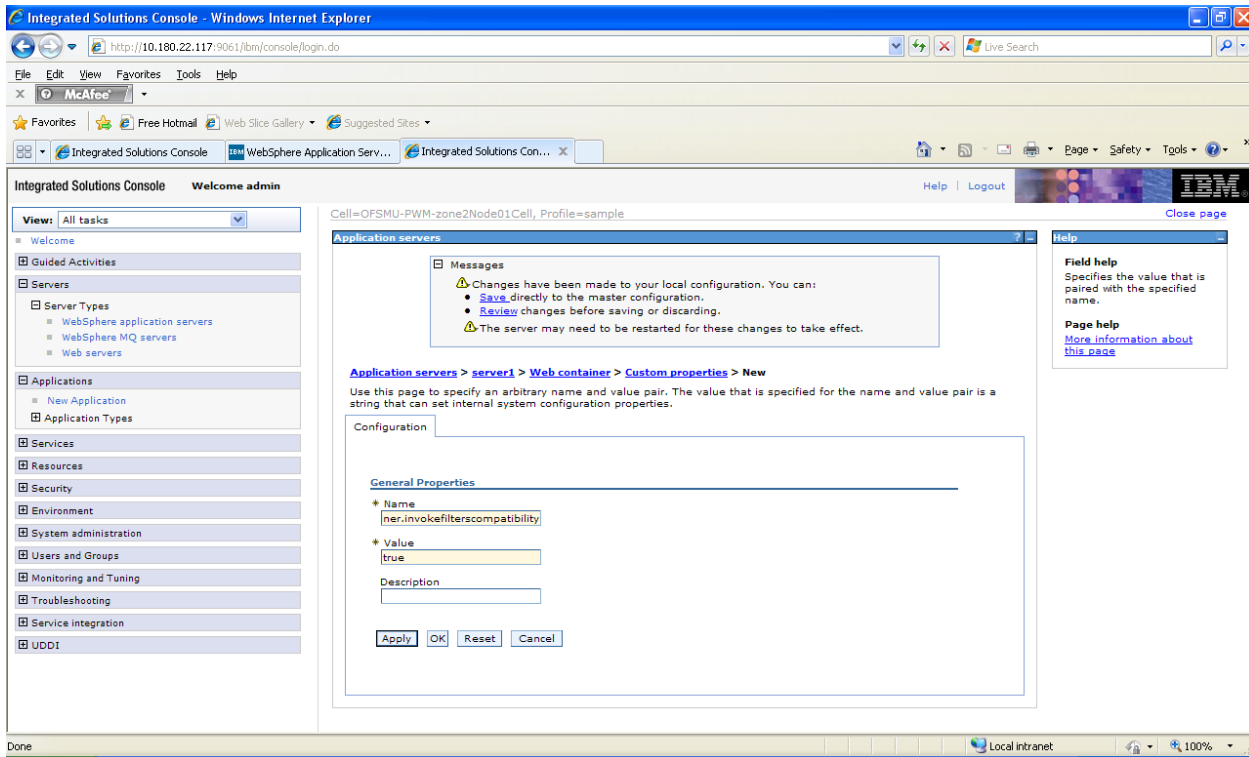
The FCPB application requires the following custom property set to work.

Please navigate to Application Servers -> <Server Name> -> Web container -> Custom Properties.

Click on New



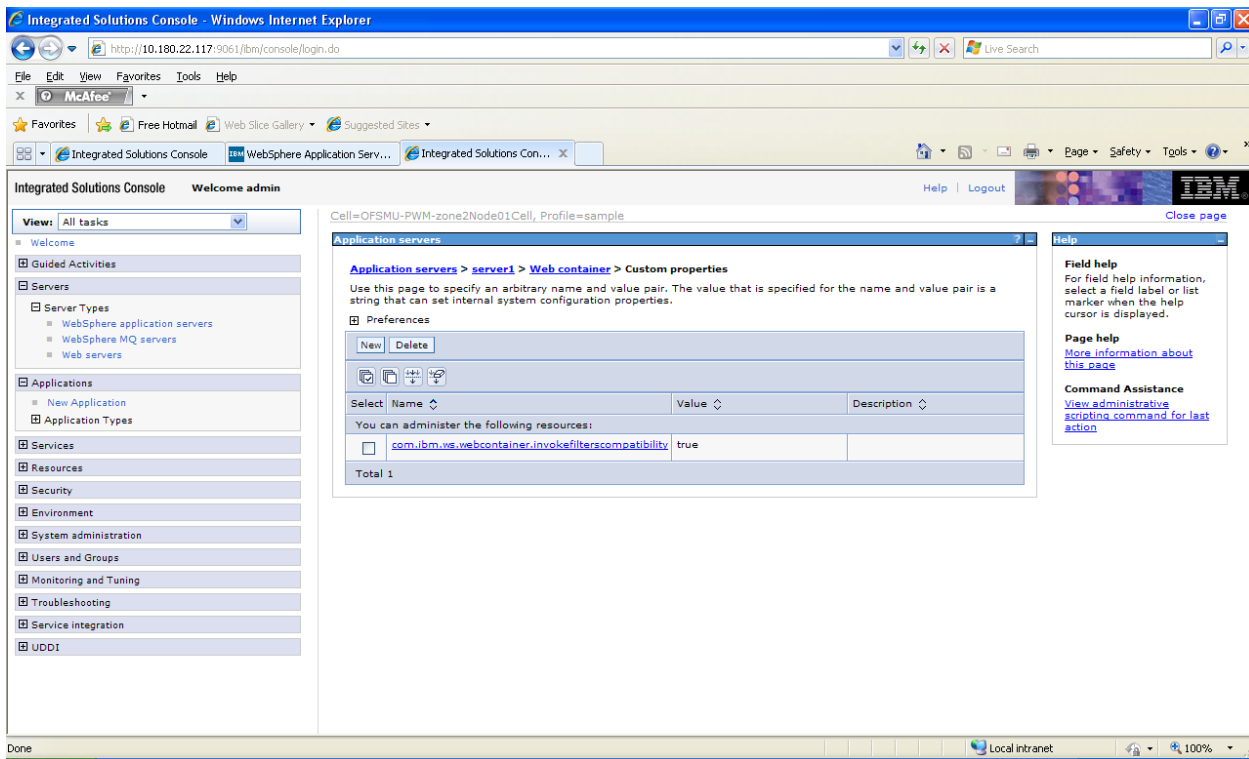




Once the screen is loaded, the following values need to be entered

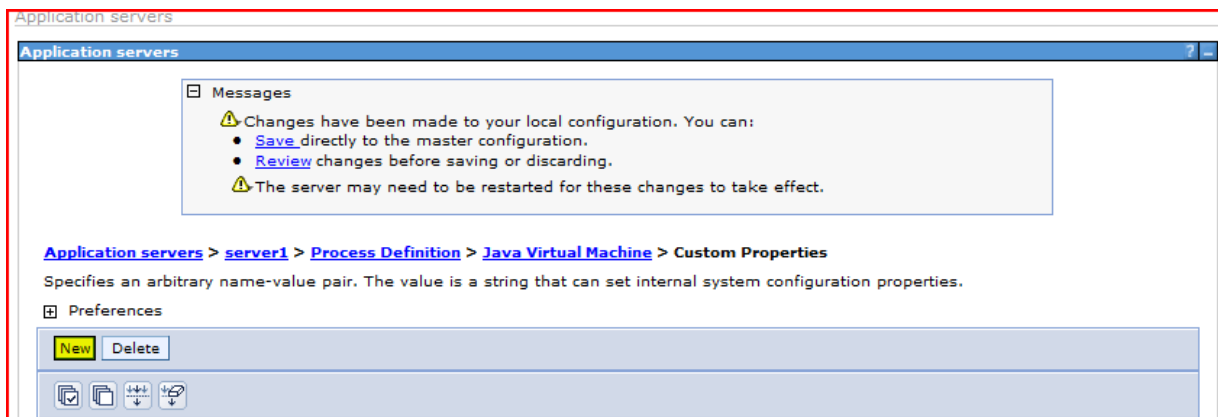
Name: com.ibm.ws.webcontainer.invokefilterscompatibility
Value: true

Click on Apply -> OK -> Save directly to the master configuration



JVM Custom Properties

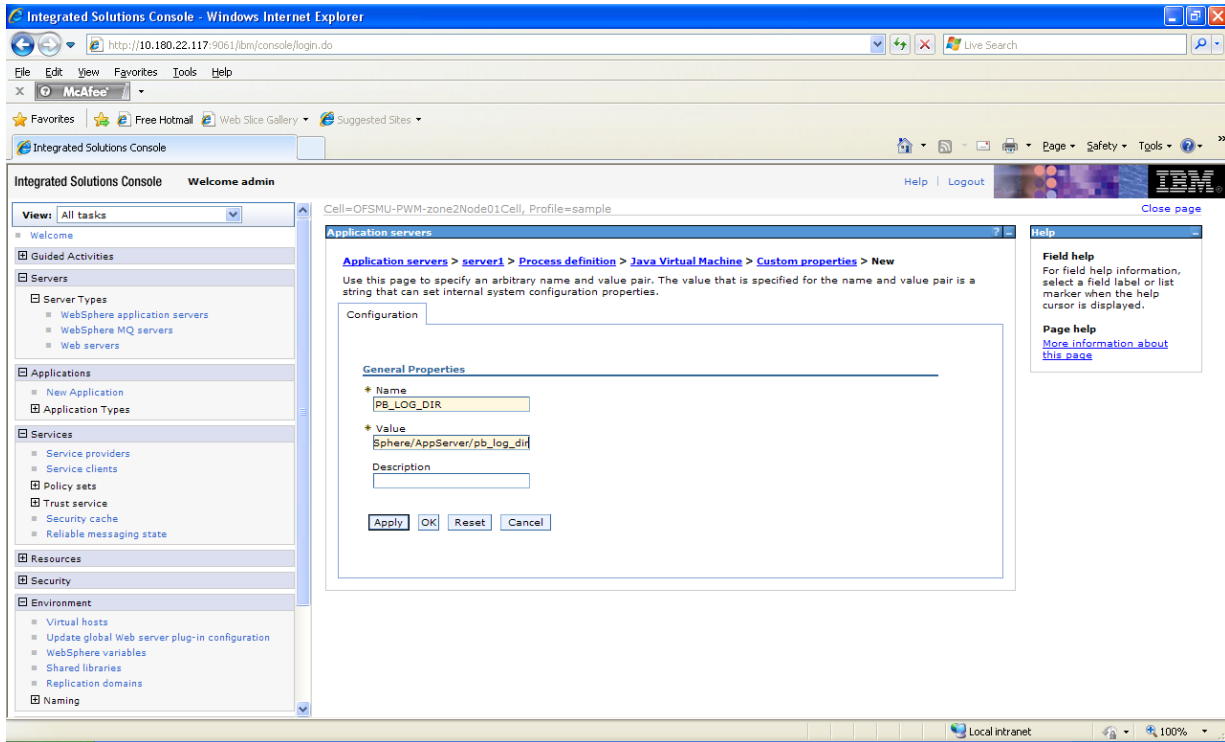
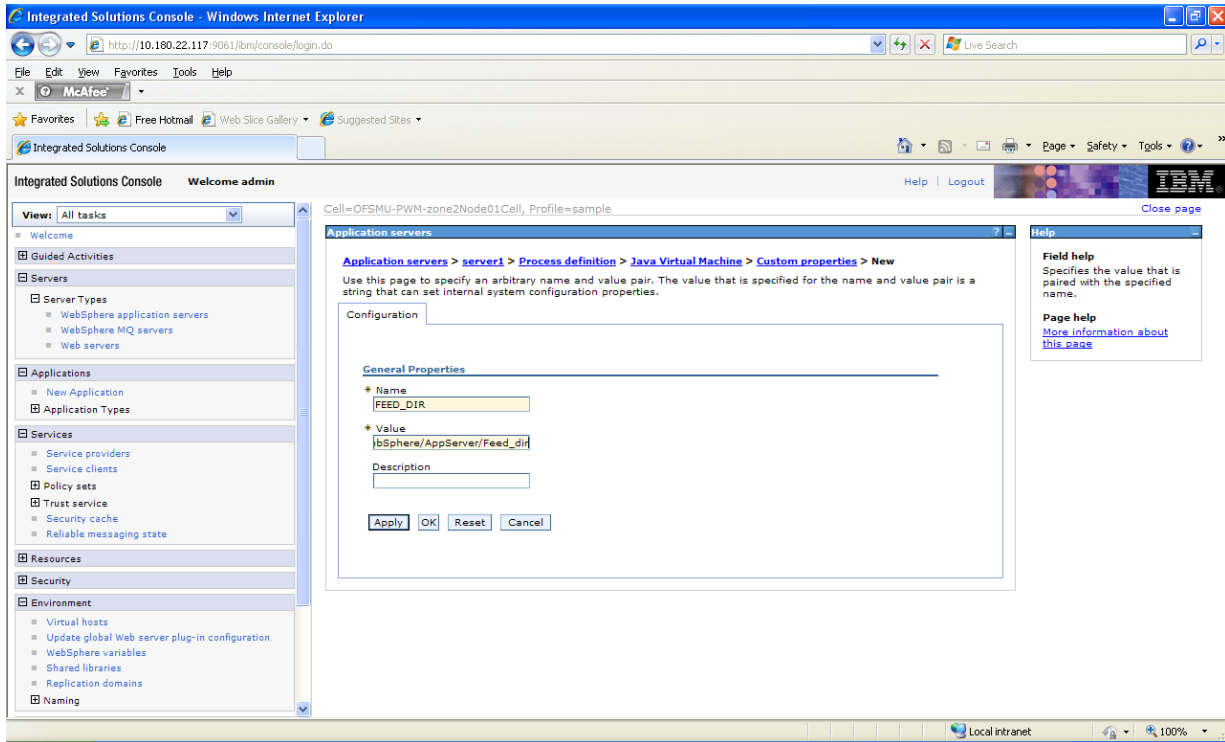
Navigate to Application Servers -> <Server Name> -> Process Definition -> Java Virtual Machine -> Custom Properties. Click on New



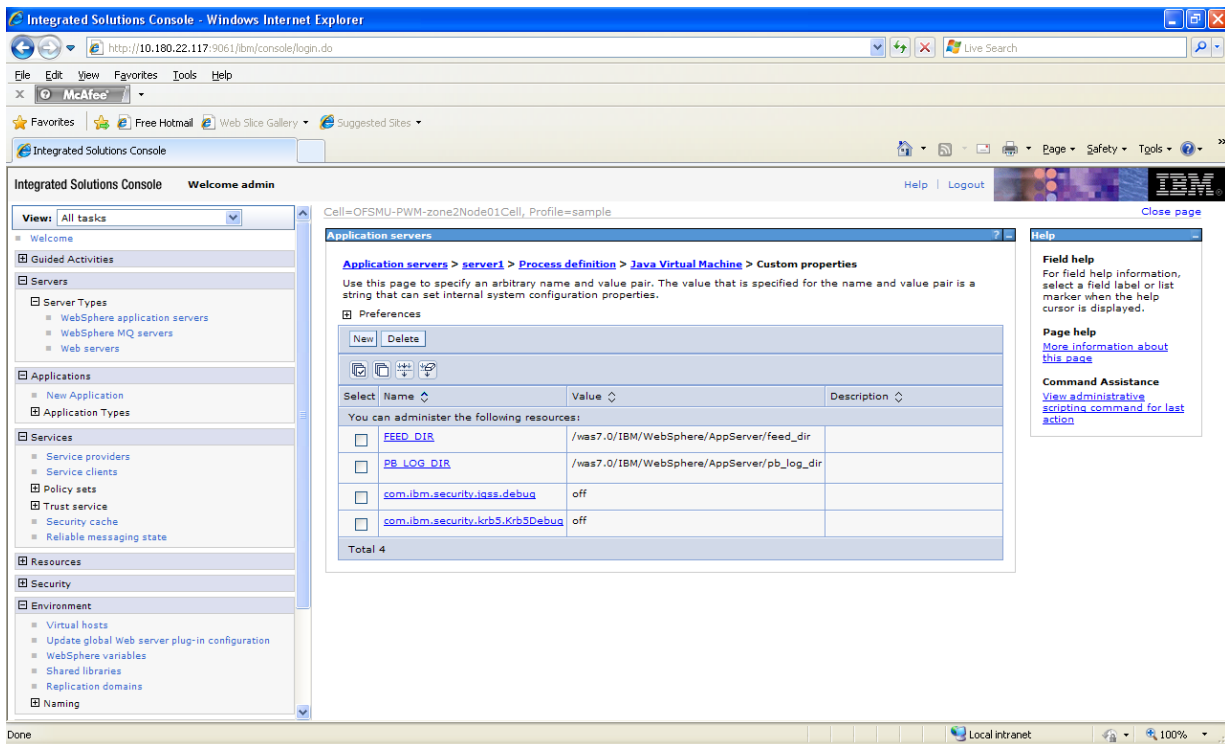
Define two variables

FEED_DIR = Location of the folder on the application server where the upload files would be stored

PB_LOG_DIR = Location of the application log files



The summary page is displayed below after the changes have been applied to the master configuration



D) SQL Loader setup

As per the pre-requisites the SQL loader utility has to be made available and available for execution by the application server user runtime. Once the SQL loader is setup, the following needs to be done

- Make an entry in the tnsname.ora file located within the SQL Loader folder structure for the FCPB database
- tnsping from the application server machine to the database server

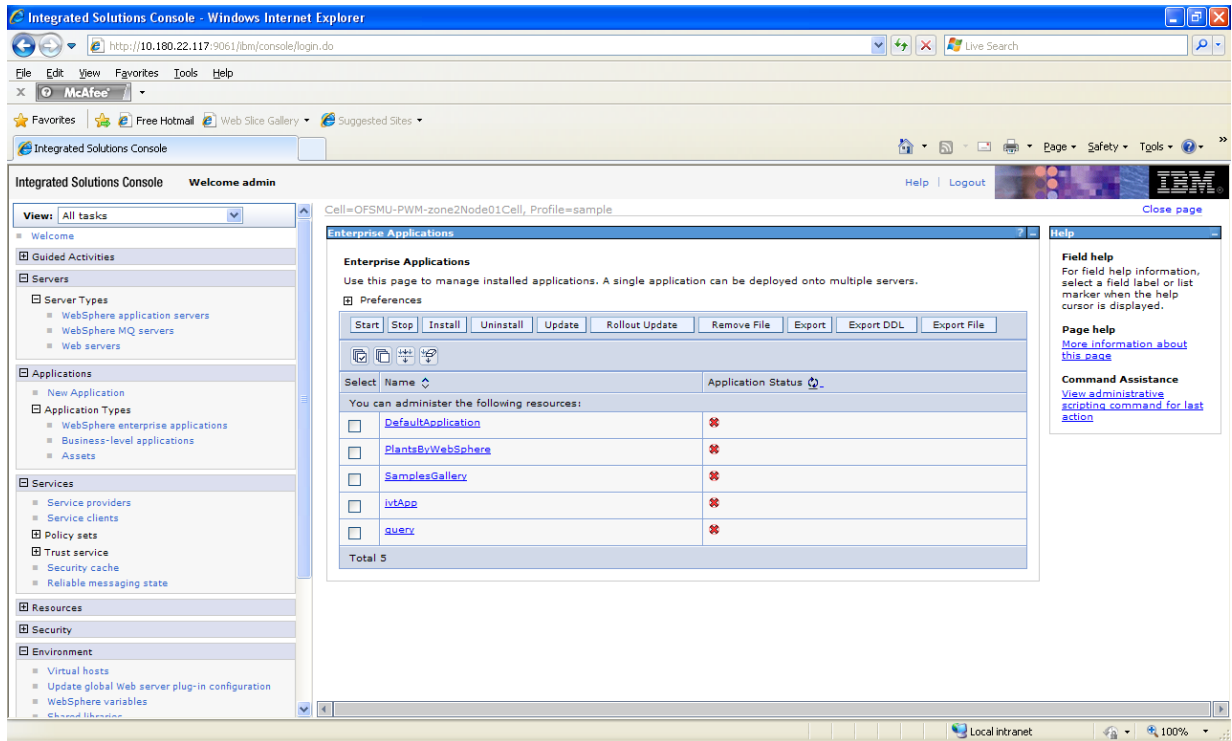
E) Email server settings

Once the email server is setup, please ensure that the table SMTP_MST_DETAILS is populated with the appropriate values

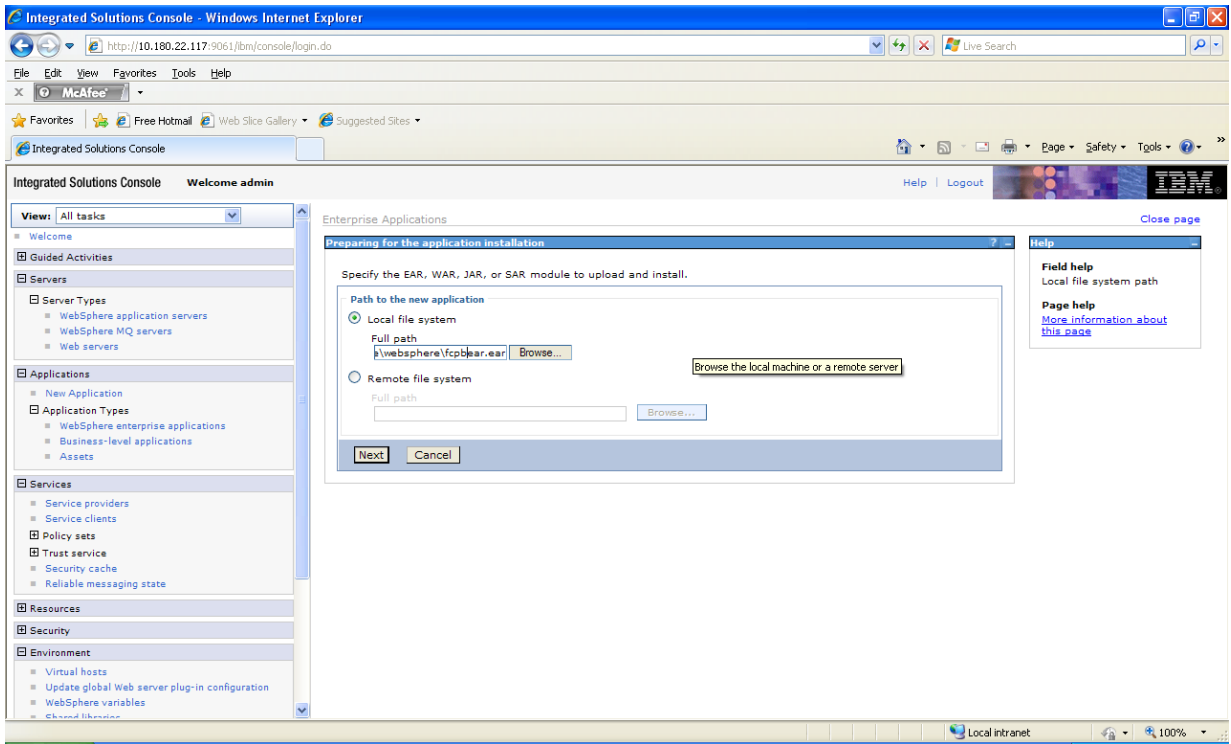
➤ FCPB Application Deployment

Once the parameter setup is complete, the FCPB application can be deployed. The deployable is a single ear file

Click on Applications -> Enterprise Applications -> Install



Enter the path of the ear file and the context root as fcpcbank.



Accept the default values until the summary page comes up. Click on finish

Enterprise Applications

Install New Application

Specify options for installing enterprise applications and modules.

[Step 1](#) Select installation options
[Step 2](#) Map modules to servers
[Step 3](#) Map virtual hosts for Web modules
→ Step 4: 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	fcpbear
Create MBeans for resources	Yes
Enable class reloading	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
Allow EJB reference targets to resolve automatically	No
Cell/Node/Server	Click here

Installing...

If there are enterprise beans in the application, the EJB deployment process can take several minutes. Please do not save the configuration until the process completes.

Check the SystemOut.log on the Deployment Manager or server where the application is deployed for specific information about the EJB deployment process as it occurs.

ADMA5016: Installation of fcpbear started.

ADMA5067: Resource validation for application fcpbear completed successfully.

ADMA5058: Application and module versions are validated with versions of deployment targets.

ADMA5005: The application fcpbear is configured in the WebSphere Application Server repository.

ADMA5053: The library references for the installed optional package are created.

ADMA5005: The application fcpbear is configured in the WebSphere Application Server repository.

ADMA5001: The application binaries are saved in D:\FCPBS\Installed-Software\Servers\WASProd\profiles\AppSrv02\wstemp\584259536\workspace\cells\OFLAPCVR-7X67Node02Cell\applications\fcpbear.ear\fcpbear.ear

ADMA5005: The application fcpbear is configured in the WebSphere Application Server repository.

SECJ0400: Successfully updated the application fcpbear with the appContextIDForSecurity information.

ADMA5011: The cleanup of the temp directory for application fcpbear is complete.

ADMA5013: Application fcpbear installed successfully.

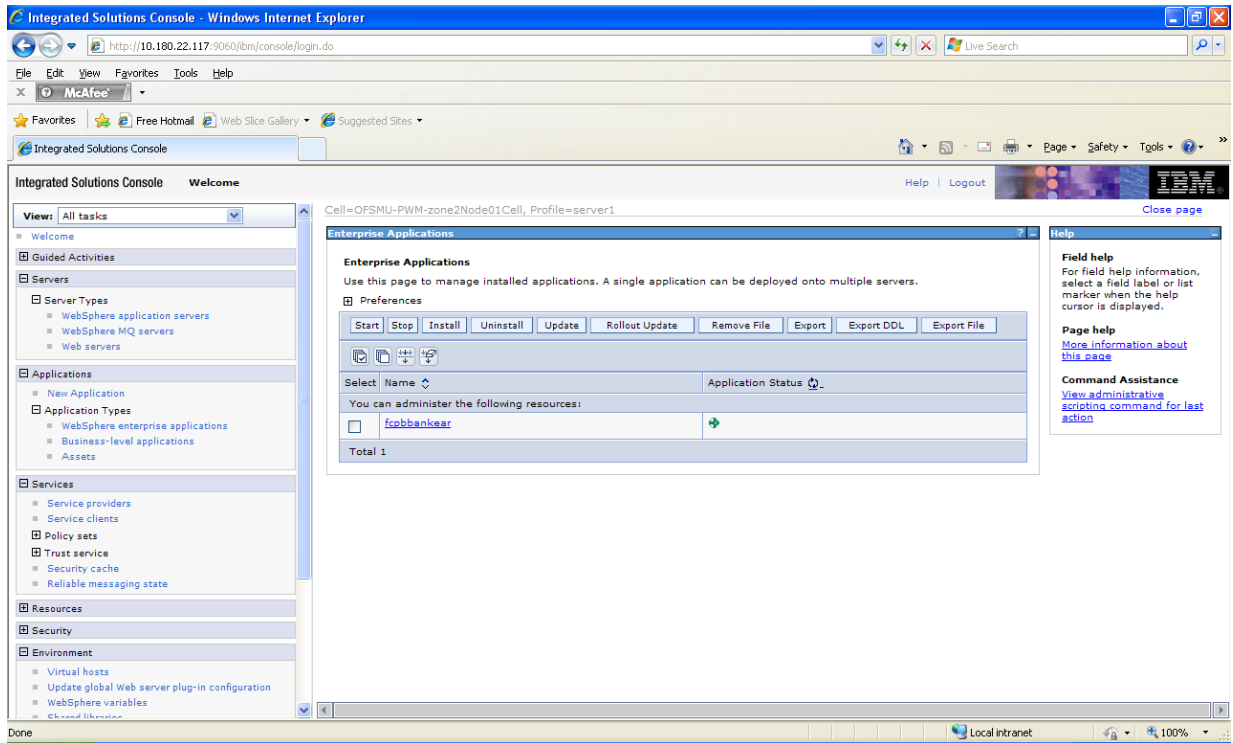
Application fcpbear installed successfully.

To start the application, first save changes to the master configuration.

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

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

Once the application is successfully installed, click on the save directly to the master configuration. Select the fcpbear checkbox and click on start. The application will be deployed



Open a browser and enter the following link :-> http://localhost:<port_no>/fcpbbank/entryWM.jsp. You can login with the bootstrap users (wadmin1,2,3,4 <-> Windows8!)