

Cluster Creation on Websphere Application Server
Oracle FLEXCUBE Universal Banking
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Table of Contents

1. PURPOSE.....	1-1
2. INTRODUCTION TO WEBSPHERE.....	2-1
3. PRE-REQUISITES:	3-1
4. STEPS INVOLVED FOR CLUSTERING	4-1
4.1 CREATE PROFILE	4-1
4.1.1 Create Deployment Manager Profile.....	4-4
4.2 CREATE NODE	4-12
4.2.1 Start Node Agents	4-15
4.3 CREATE CLUSTER.....	4-15
4.3.1 Add Cluster Members	4-17
4.3.2 Start Cluster.....	4-19
4.4 CREATE PROXY SERVER.....	4-20
4.4.1 Start Proxy Server.....	4-23
4.5 CONFIGURE VIRTUAL HOST.....	4-23
4.5.1 Virtual Host Setup.....	4-25
5. CREATE RESOURCES IN CLUSTER SCOPE.....	5-1
6. DEPLOY APPLICATION TO CLUSTER	6-1
6.1.1 Test the application.....	6-2

1. Purpose

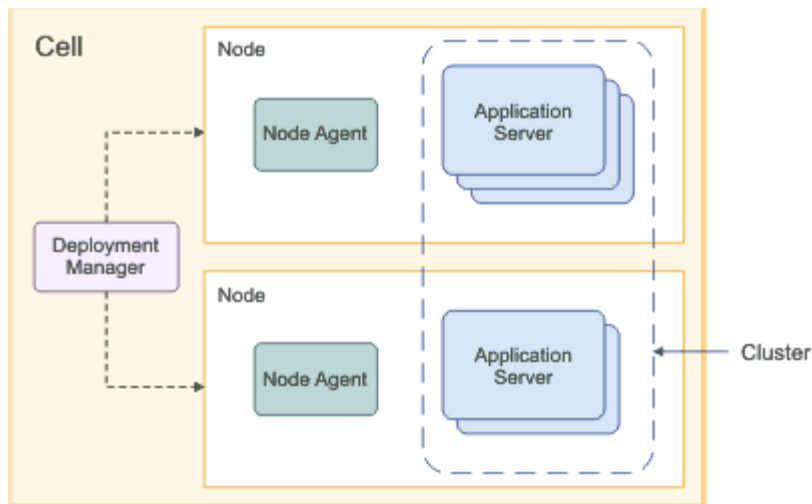
This document explains steps to create Cluster on Websphere Application Server 8.5 and also setup the proxy.

2. Introduction to Websphere

IBM websphere application server cluster deployment contains the below key elements

- Cell
- Nodes
 - Deployment Manager Node- “DMGR”
 - Node- “NodeXX”
 - Node Agent- “NAXX”
- Profiles
- Cluster
- Cluster Members
- Data Sources

Profile



- Cell: A cell is a grouping of nodes into a single administrative domain. In a Network Deployment environment, a cell can consist of multiple nodes (and node groups), which are all administered from a single point, the deployment manager.

- **Node:** A node is an administrative grouping of application servers for configuration and operational management within one operating system instance
- **Node Agent:** In distributed server configurations, each node has a node agent that works with the deployment manager to manage administration processes. A node agent is created automatically when you add (federate) a stand-alone node to a cell.
- **Cluster:** A cluster is a logical collection of application server processes that provides workload balancing and high availability. Application servers that belong to a cluster are members of that cluster and must all have identical application components deployed on them.
- **A profile is a Websphere runtime environment formed by collection of User data and Product files.** Product Files are shared application binaries for Websphere. User data is set of user customizations for a specific runtime environment.

Prominent profile types are:

- **Stand-alone Application Server:** An application server environment runs Enterprise Application. Application server is managed from its own administrative console and functions independently from other application server.
- **Deployment Manager:** A Deployment Manager manages operations for a logical group or cell of other servers. It is the central administration point of a cell that consists of multiple nodes and node groups in a distributed server configuration. The deployment manager uses the node agent to manage the application servers within one node. A deployment manager provides management capability for multiple federated nodes and can manage nodes that span multiple systems and platforms. A node can only be managed by a single deployment manager and must be federated to the cell of that deployment manager.

Note ** Deployment Manager is part of Network Deployment Edition of Websphere.

3. Pre-requisites:

Before proceeding with the cluster setup ensure that the below resources are created

- JDBC Provider
- Datasource
- Queue Connection Factory
- JMS Queue

The instructions for resource creation are available in document

<installer>\Docs\WEBSPPHERE\Resource_Creation_WAS.doc

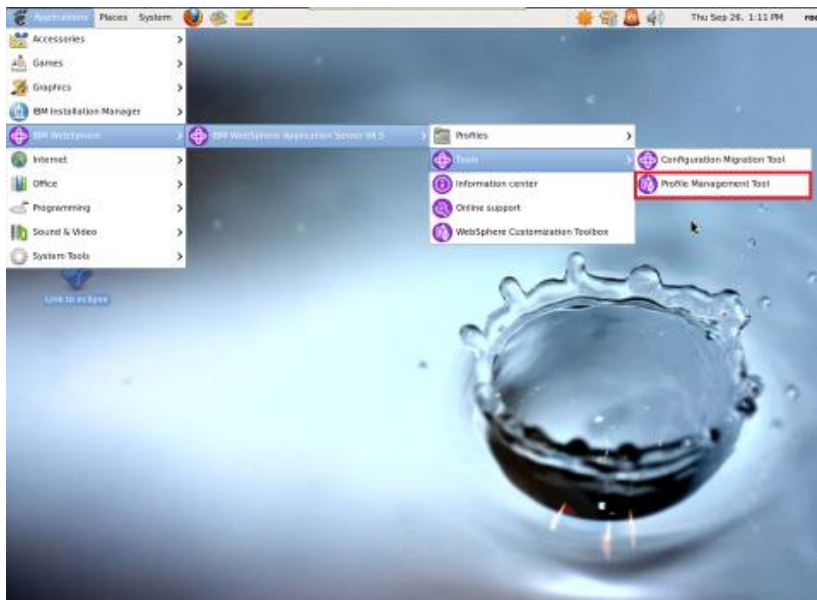
- For SSL configuration in Websphere, refer to the document SSL_Configuration_WAS.doc
- For application deployment, refer to document FCUBS_Application_WAS.doc
- For deployment of Gateway applications, refer to document GATEWAY_Applications_WAS.doc

4. Steps involved for Clustering

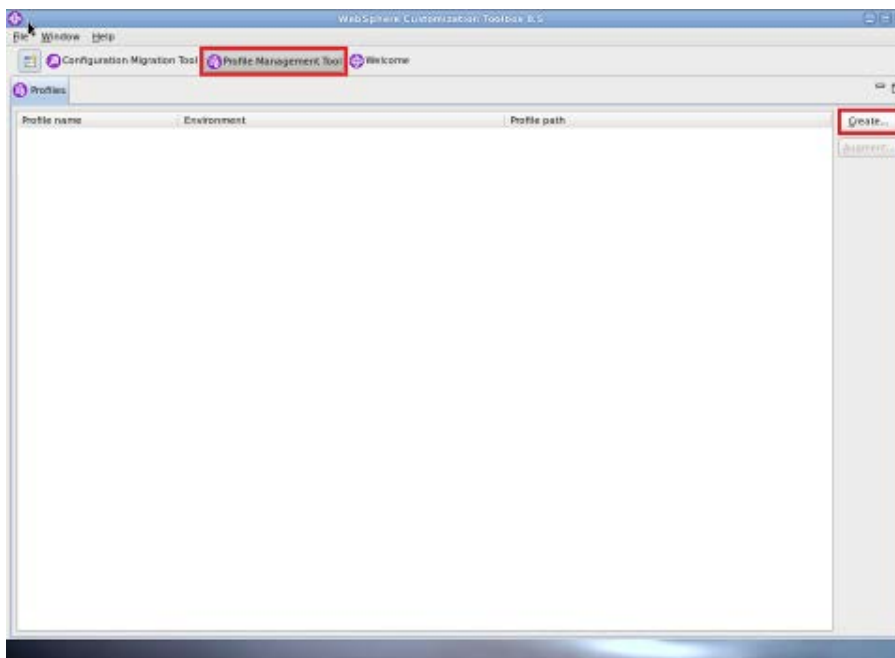
4.1 Create Profile

Go to Profile Management Tool

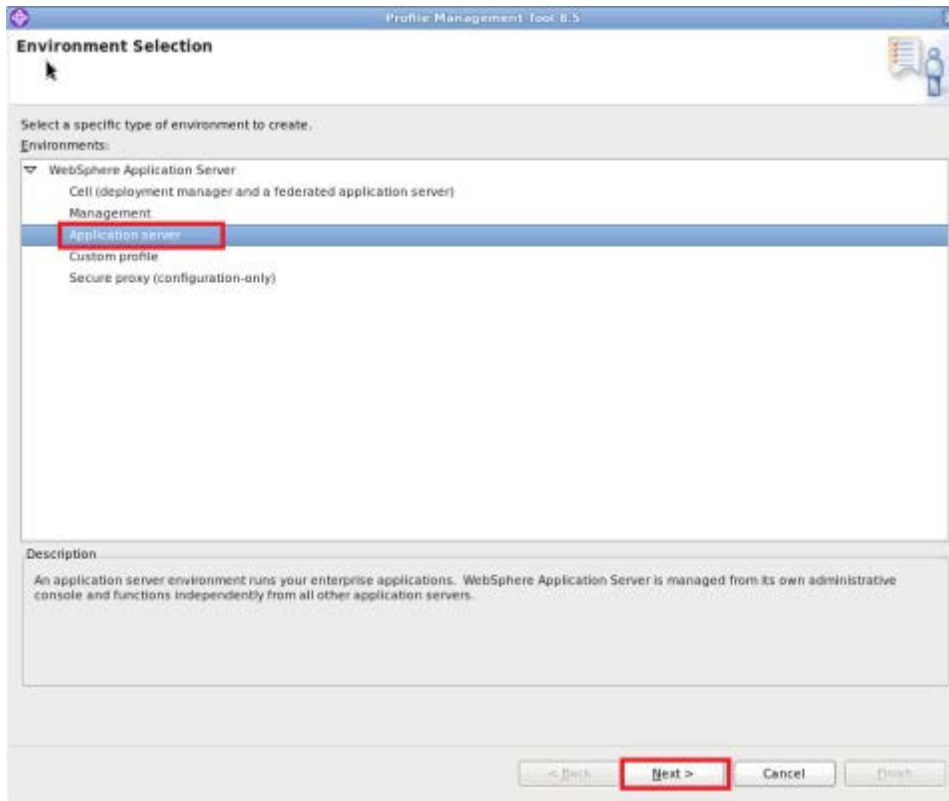
Navigation: IBM WebSphere > IBM WebSphere Application Server V8.5 > Tools > Profile Management Tool



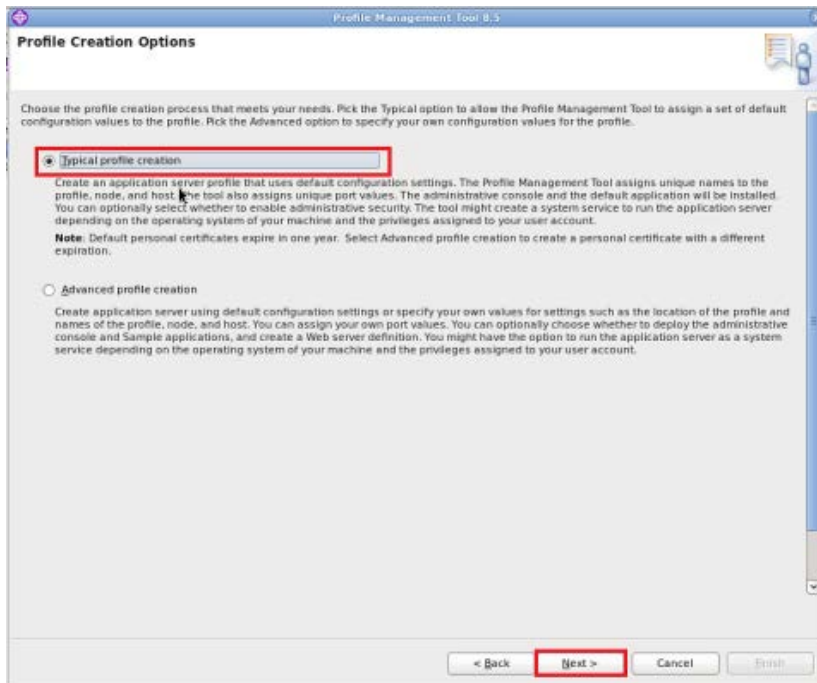
Navigation : Profile Management Tool > Create



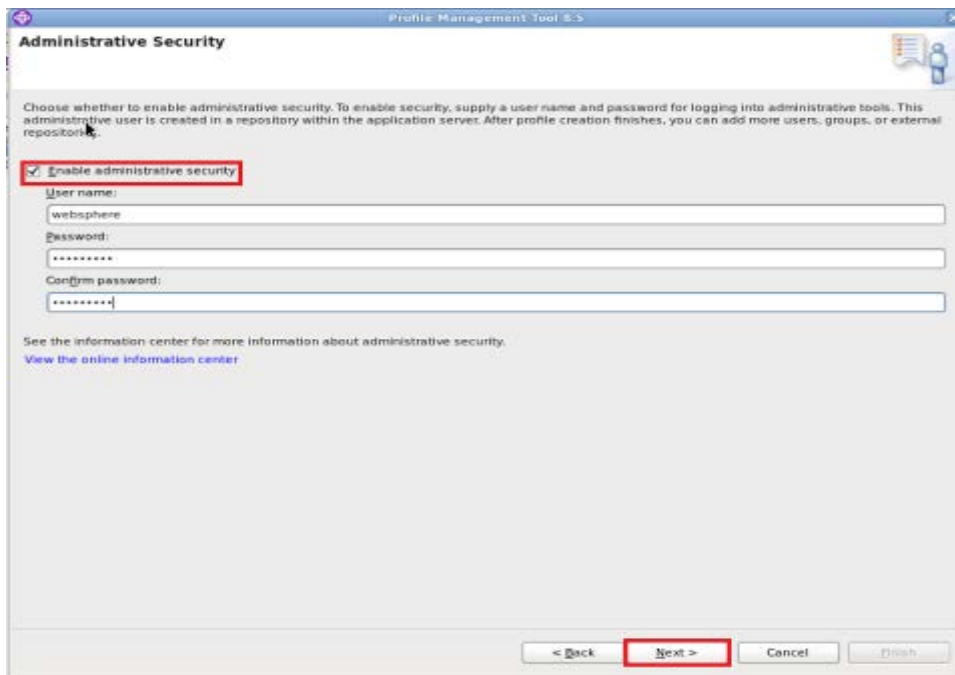
Navigation : *Application Server > Next*



Navigation : *Typical profile creation > Next*



Navigation: *Enable administrative security > Next*



The screenshot shows the 'Administrative Security' window in the Profile Management Tool 8.5. The window title is 'Profile Management Tool 8.5' and the subtitle is 'Administrative Security'. It contains a checkbox labeled 'Enable administrative security' which is checked and highlighted with a red box. Below the checkbox are three text fields: 'User name:' with the value 'websphere', 'Password:' with masked characters '*****', and 'Confirm password:' with masked characters '*****'. At the bottom, there are four buttons: '< Back', 'Next >' (highlighted with a red box), 'Cancel', and 'Finish'. A small icon of a person is in the top right corner.

Profile Management Tool 8.5

Administrative Security

Choose whether to enable administrative security. To enable security, supply a user name and password for logging into administrative tools. This administrative user is created in a repository within the application server. After profile creation finishes, you can add more users, groups, or external repositories.

☒ **Enable administrative security**

User name: websphere

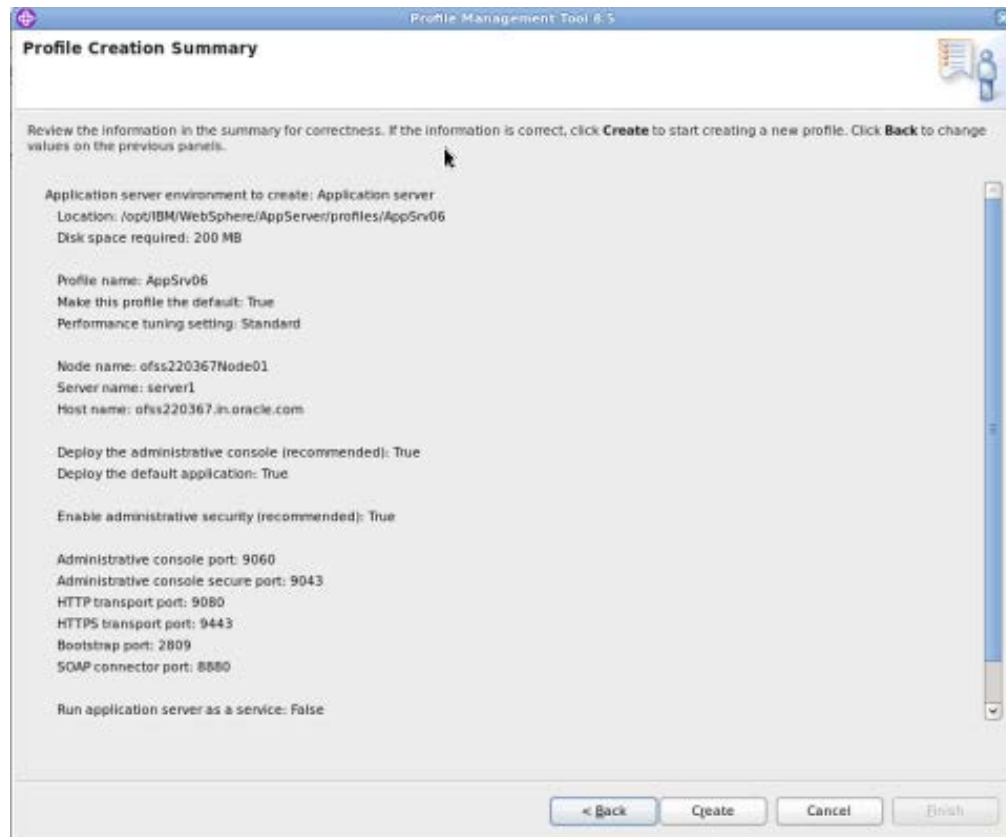
Password: *****

Confirm password: *****

See the information center for more information about administrative security.
[View the online information center](#)

< Back Next > Cancel Finish

Navigation : *Create Summary*



The screenshot shows the 'Profile Creation Summary' window in the Profile Management Tool 8.5. The window title is 'Profile Management Tool 8.5' and the subtitle is 'Profile Creation Summary'. It contains a scrollable list of configuration details for a new profile. At the bottom, there are four buttons: '< Back', 'Create', 'Cancel', and 'Finish'. A small icon of a person is in the top right corner.

Profile Management Tool 8.5

Profile Creation Summary

Review the information in the summary for correctness. If the information is correct, click **Create** to start creating a new profile. Click **Back** to change values on the previous panels.

Application server environment to create: Application server
Location: /opt/IBM/WebSphere/AppServer/profiles/AppSrv06
Disk space required: 200 MB

Profile name: AppSrv06
Make this profile the default: True
Performance tuning setting: Standard

Node name: ofss220367Node01
Server name: server1
Host name: ofss220367.in.oracle.com

Deploy the administrative console (recommended): True
Deploy the default application: True

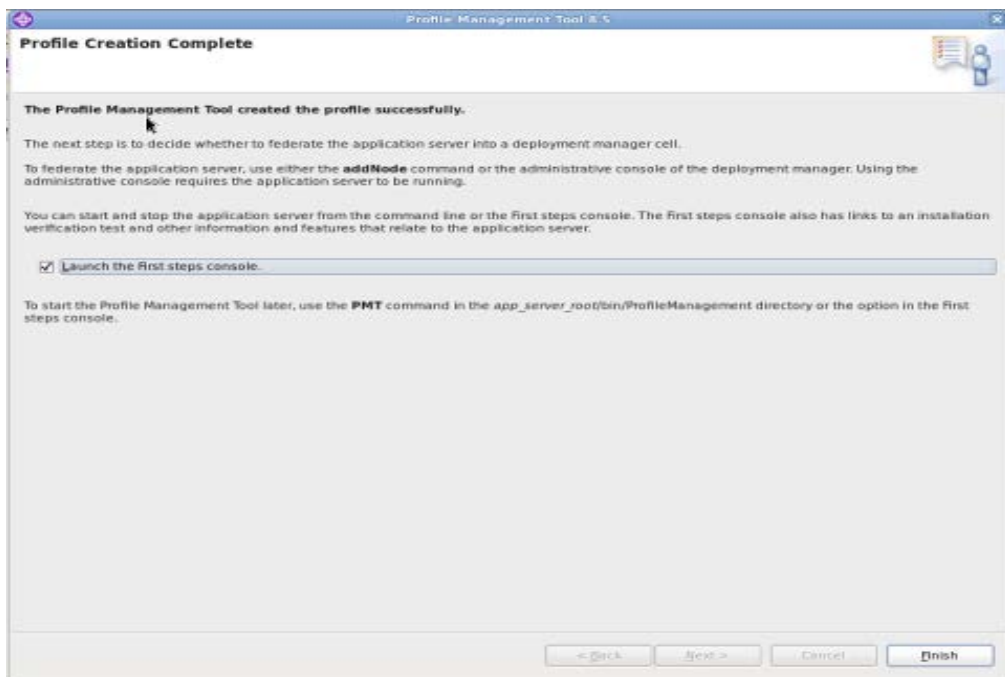
Enable administrative security (recommended): True

Administrative console port: 9060
Administrative console secure port: 9043
HTTP transport port: 9080
HTTPS transport port: 9443
Bootstrap port: 2809
SOAP connector port: 8880

Run application server as a service: False

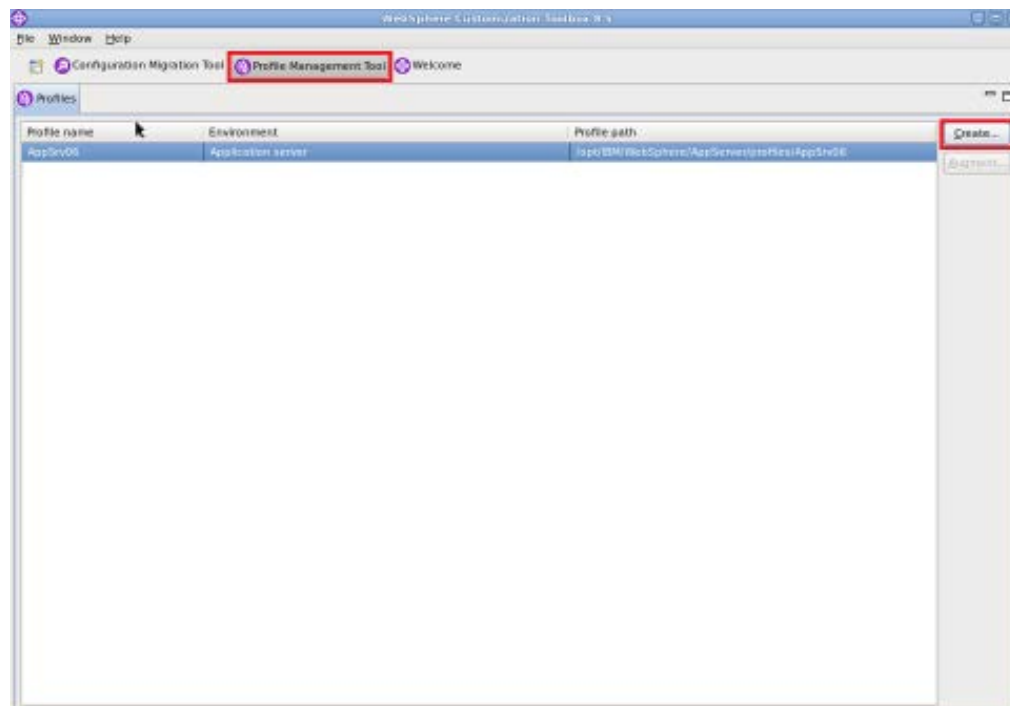
< Back Create Cancel Finish

Navigation : *Finish*

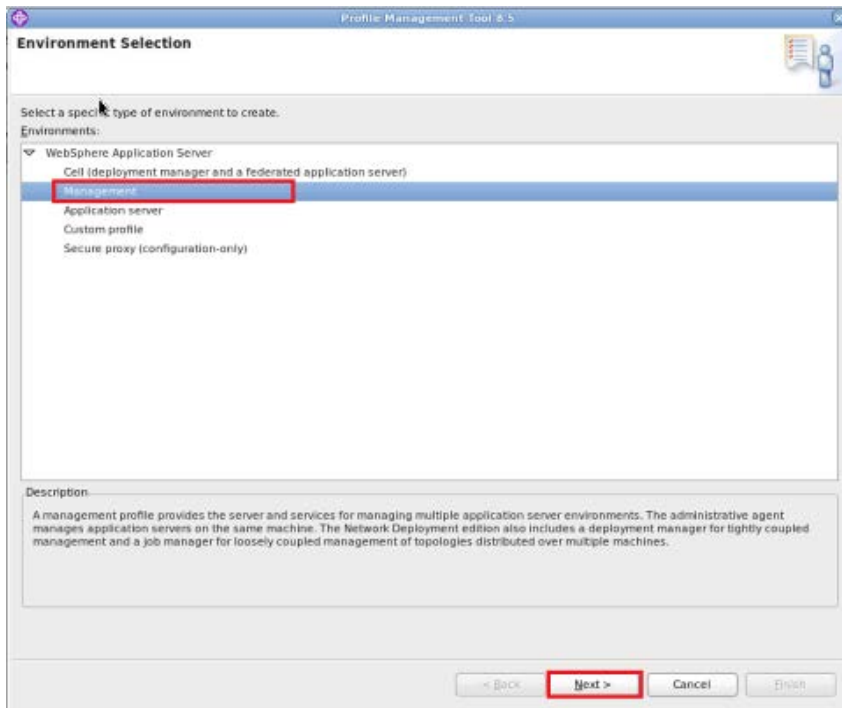


4.1.1 Create Deployment Manager Profile

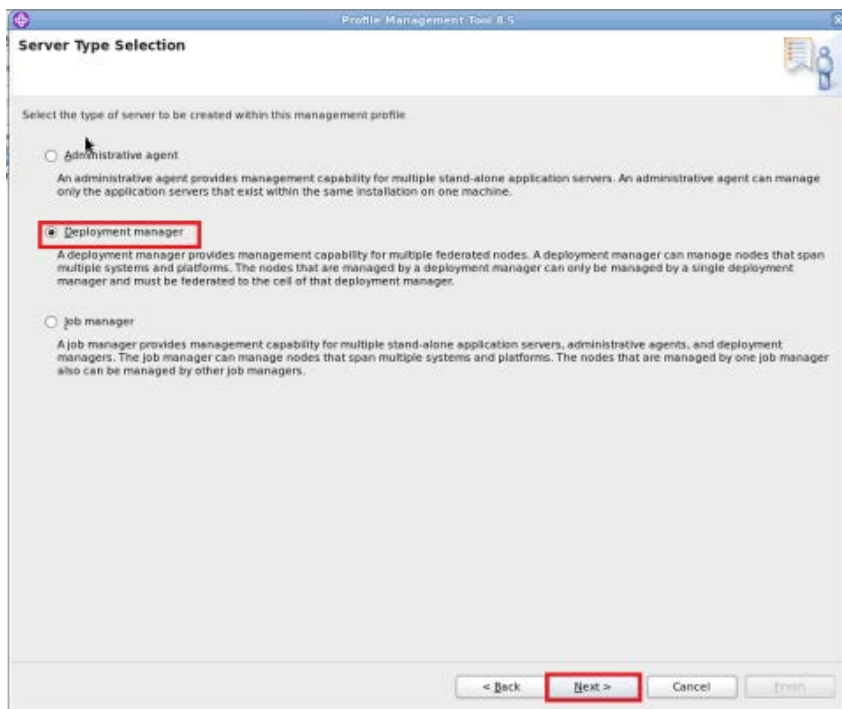
Navigation : *Profile Management Tool > Create*



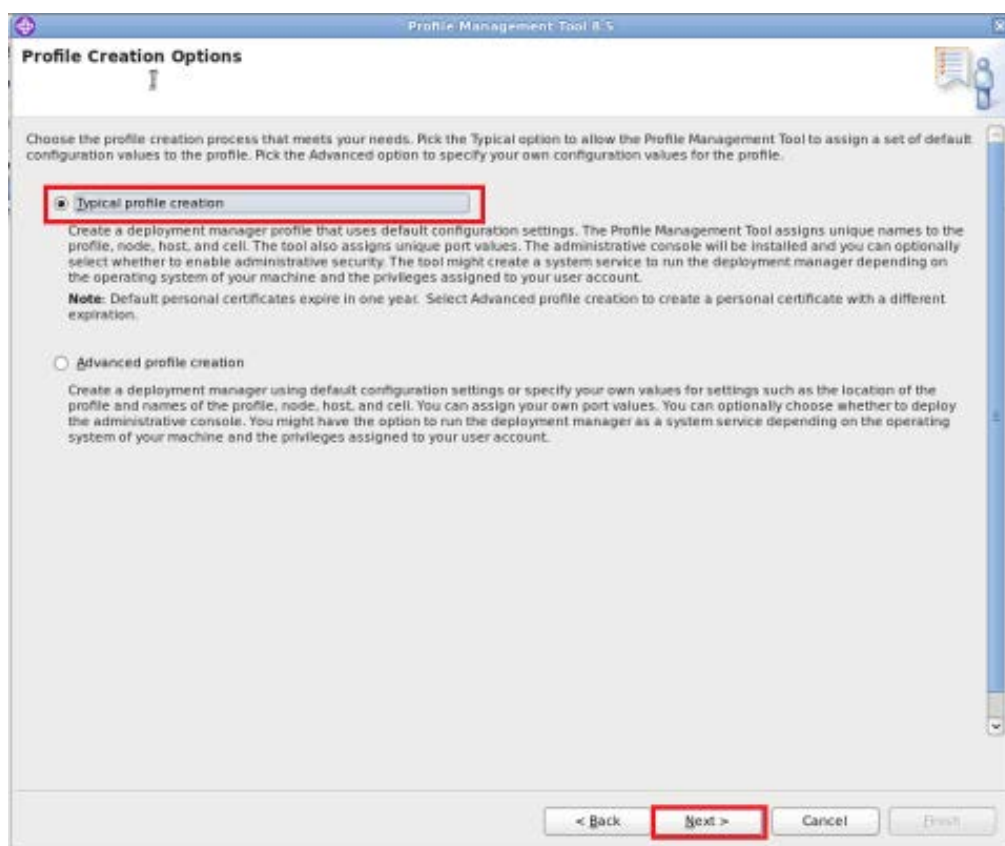
Navigation : *Management >Next*



Navigation : *Deployment Manager > Next*



Navigation: *Typical profile creation > Next*



Navigation: *Enable administrative security > Next*

Profile Management Tool 8.5

Administrative Security

Choose whether to enable administrative security. To enable security, supply a user name and password for logging into administrative tools. This administrative user is created in a repository within the application server. After profile creation finishes, you can add more users, groups, or external repositories.

☒ **Enable administrative security**

User name:
admin

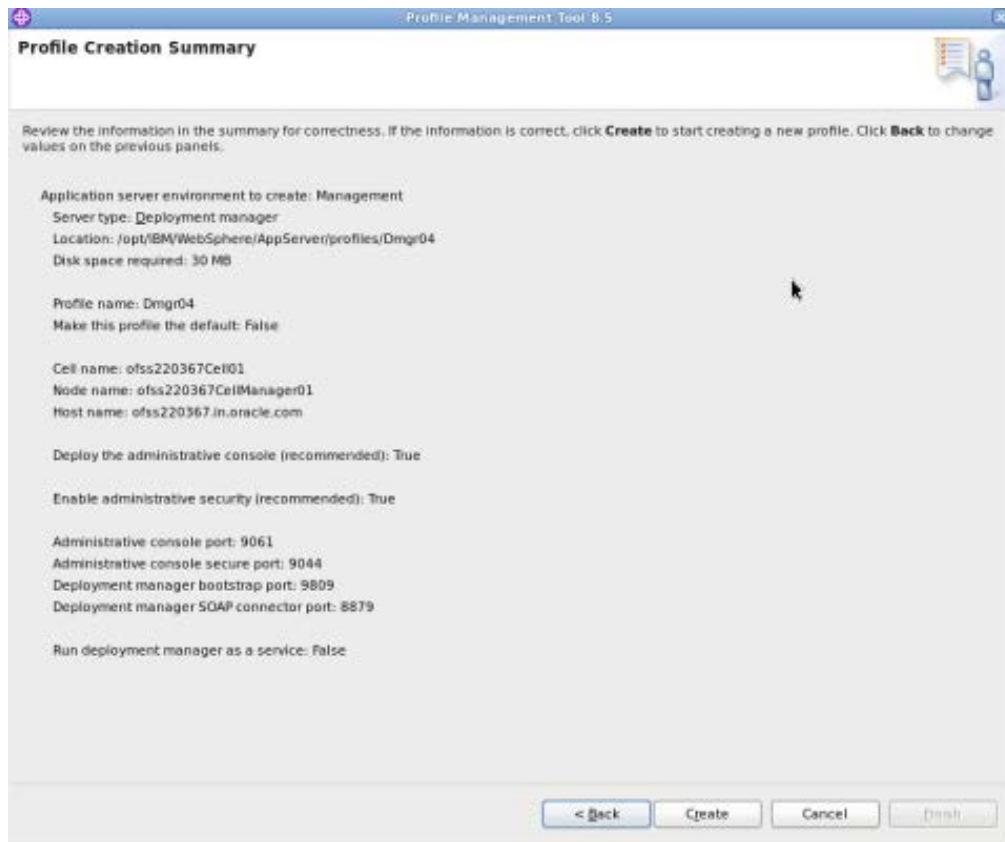
Password:

Confirm password:

See the information center for more information about administrative security.
[View the online information center](#)

< Back **Next >** Cancel Finish

Navigation : Create



The screenshot shows the 'Profile Management Tool 8.5' window with the 'Profile Creation Summary' tab selected. The window contains a summary of the profile configuration, including application server environment details, profile name, cell and node names, host name, deployment options, and ports. At the bottom, there are four buttons: '< Back', 'Create', 'Cancel', and 'Finish'.

Profile Management Tool 8.5

Profile Creation Summary

Review the information in the summary for correctness. If the information is correct, click **Create** to start creating a new profile. Click **Back** to change values on the previous panels.

Application server environment to create: Management
Server type: Deployment manager
Location: /opt/IBM/WebSphere/AppServer/profiles/Dmgr04
Disk space required: 30 MB

Profile name: Dmgr04
Make this profile the default: False

Cell name: ofss220367Cell01
Node name: ofss220367CellManager01
Host name: ofss220367.in.oracle.com

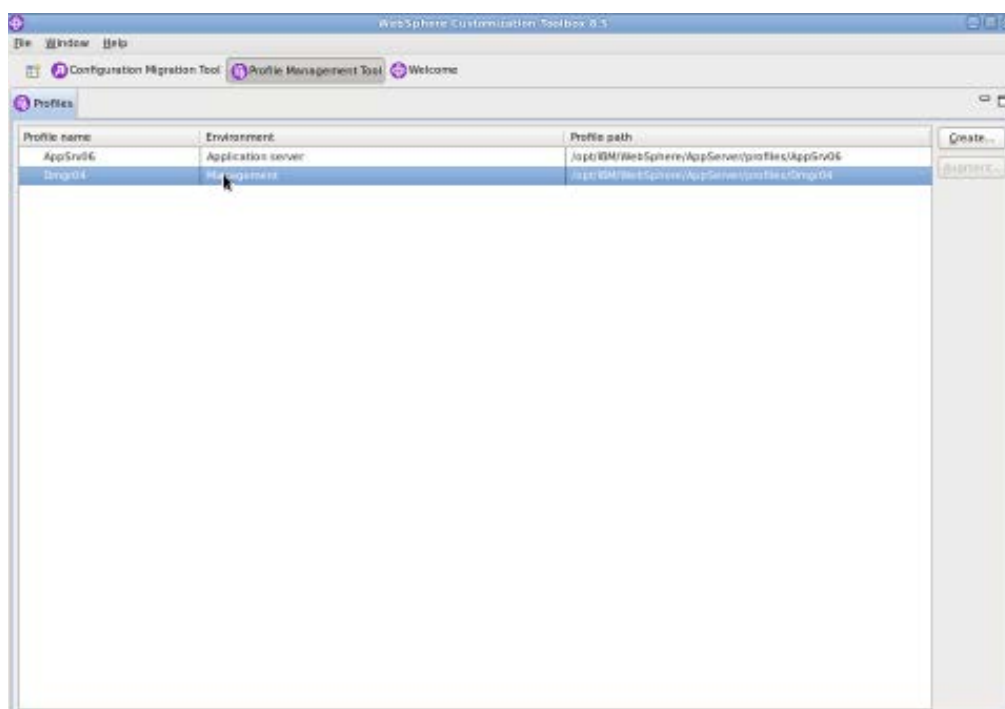
Deploy the administrative console (recommended): True

Enable administrative security (recommended): True

Administrative console port: 9061
Administrative console secure port: 9044
Deployment manager bootstrap port: 9809
Deployment manager SOAP connector port: 8879

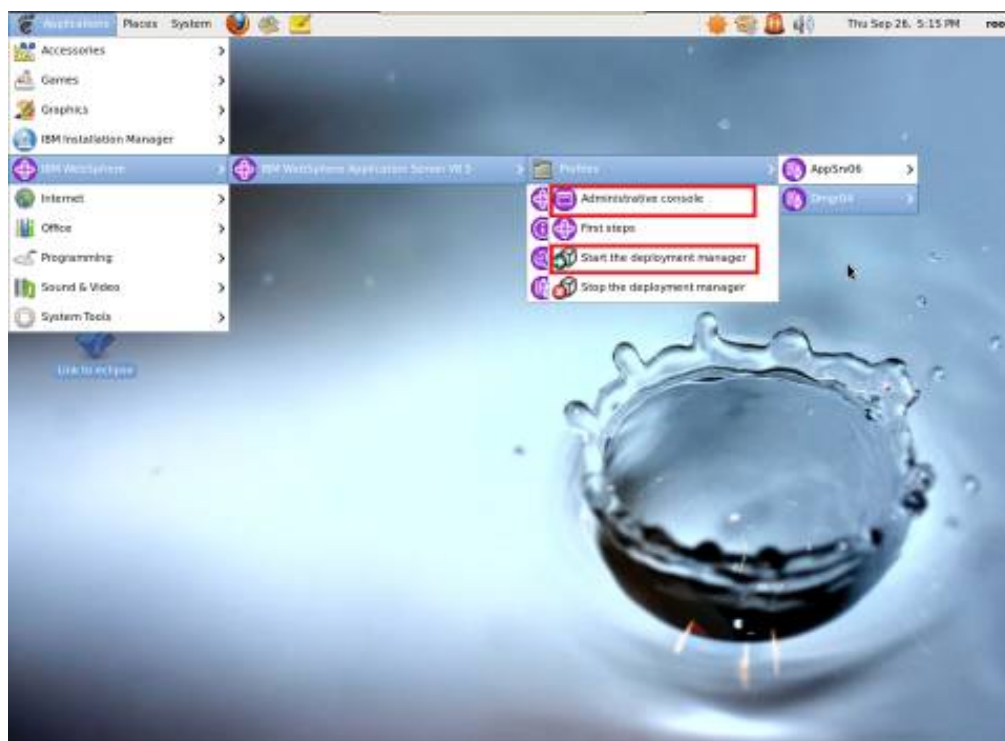
Run deployment manager as a service: False

< Back Create Cancel Finish



Start Deployment Manager & Open Administrative Console

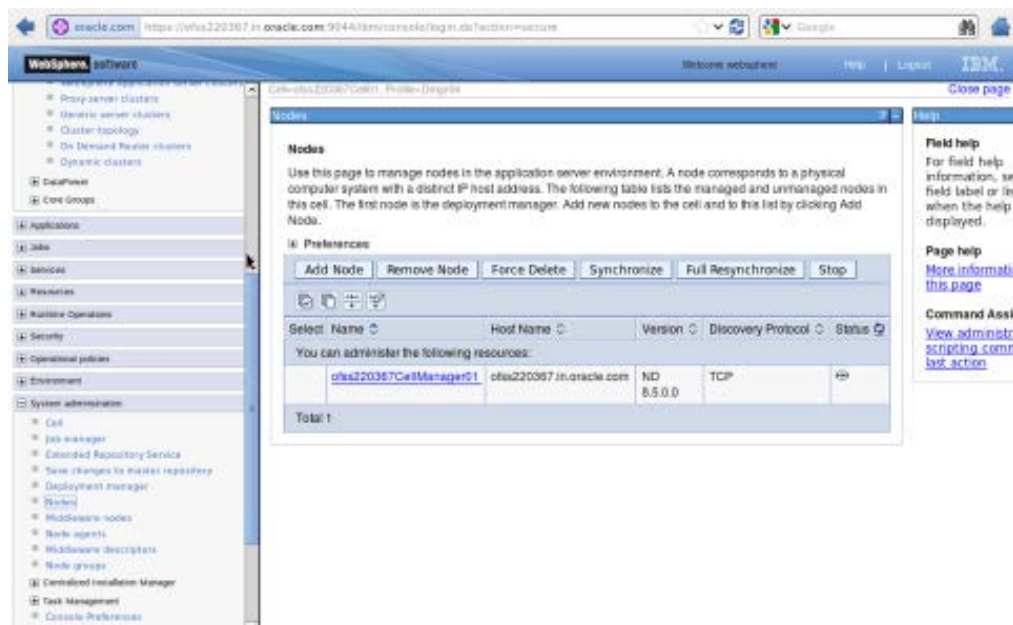
Navigation : IBM WebSphere > IBM WebSphere Application Server V8.5 > Profiles > Dmgr[i]>Start the deployment *manager* > *Administrative console*



Log into Deployment Manager Console

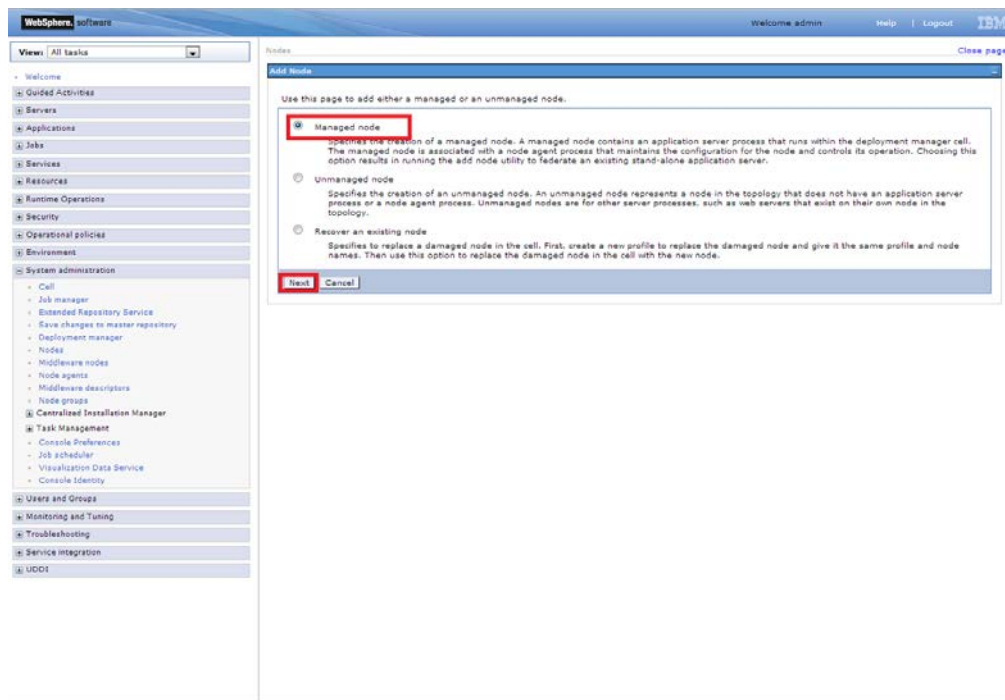


Navigation : System administration > Nodes > Add Node



4.2 Create Node

Navigation : *System administration > Nodes > Add Node*



Provide the following field information and Click 'OK'

Host : Host Machine with running Application Server

JMX Connector type : SOAP

JMX Connector Port : SOAP_CONNECTOR_ADDRESS of Application Server

Application server user name : Application server user id

Application server password : Application server password

Deployment manager user name : Deployment manager user id

Deployment manager password : Deployment manager password

WebSphere software

Welcome admin Help | Logout IBM

View: All tasks

- Home
- Guided Activities
- Servers
- Applications
- Jobs
- Services
- Resources
- Runtime Operations
- Security
- Operational policies
- Environments
- System administration
 - Cell
 - Job manager
 - Extended Repository Service
 - Save changes to master repository
 - Deployment manager
 - Nodes
 - Middleware nodes
 - Node agents
 - Middleware descriptors
 - Node groups
- Centralized Installation Manager
- Task Management
 - Console Preferences
 - Job scheduler
 - Visualization Data Service
 - Console Identity
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
- UDDI

Node

Add Managed Node

Use this page to identify a stand-alone application server process that is running. Start the application server, if necessary, or add the node from the command line by running the addnode command from the bin directory of the stopped application server profile.

Node connection

Host
ofas220367

JMX connector type
SOAP

JMX connector port
8880

Application server user name
webSphere

Application server password

Deployment manager user name
admin

Deployment manager password

Config URL
file://\$USER_INSTALL_ROOT/properties/sas.dll

Options

☐ Include applications

☐ Include buses

Starting port

☒ Use default

☐ Specify

Port number

OK Cancel

Field help
For field help information, select a field label or list marker when the help cursor is displayed.

Page help
More information about this page

WebSphere software

Welcome admin Help | Logout IBM

Generic server clusters

Cluster topology

On Demand Router clusters

Dynamic clusters

DataPower

Core Objects

Applications

Jobs

Services

Resources

Runtime Operations

Security

Operational policies

Environments

System administration

- Cell
- Job manager
- Extended Repository Service
- Save changes to master repository
- Deployment manager
- Nodes
- Middleware nodes
- Node agents
- Middleware descriptors
- Node groups

Centralized Installation Manager

Task Management

- Console Preferences
- Job scheduler
- Visualization Data Service

Adding node

ADMU0001: Begin federation of node ofas220367Node01 with Deployment Manager at ofas220367.in.oracle.com:8870.

ADMU0009: Successfully connected to Deployment Manager Server: ofas220367.in.oracle.com:8879

ADMU0054: Servers found in configuration:

ADMU0056: Server name: server1

ADMU0104: Stopping all server processes for node ofas220367Node01

ADMU0106: Server server1 is now STOPPED

ADMU0024: Deleting the old backup directory.

ADMU0015: Backing up the original cell. Please Wait...

ADMU0012: Creating Node Agent config. Node01

ADMU0014: Adding node ofas220367Node01 configuration to cell: ofas220367Cell01

ADMU0016: Synchronizing configuration between node and cell.

Transferring data from ofas220367.in.oracle.com...

Nodes

Use this page to manage nodes in the application server environment. A node corresponds to a physical computer system with a distinct IP host address. The following table lists the managed and unmanaged nodes in this cell. The first node is the deployment manager. Add new nodes to the cell and to this list by clicking Add Node.

Preferences

Add Node Remove Node Force Delete Synchronize Pull Resynchronize Stop

Select	Name	Host Name	Version	Discovery Protocol	Status
<input checked="" type="checkbox"/>	otss220367CellManager01	otss220367.in.oracle.com	ND 8.5.0.0	TCP	+
<input type="checkbox"/>	otss220367Node01	otss220367.in.oracle.com	ND 8.5.0.0	TCP	+

Total 2

Create necessary number of nodes following same instructions above:

Nodes

Use this page to manage nodes in the application server environment. A node corresponds to a physical computer system with a distinct IP host address. The following table lists the managed and unmanaged nodes in this cell. The first node is the deployment manager. Add new nodes to the cell and to this list by clicking Add Node.

Preferences

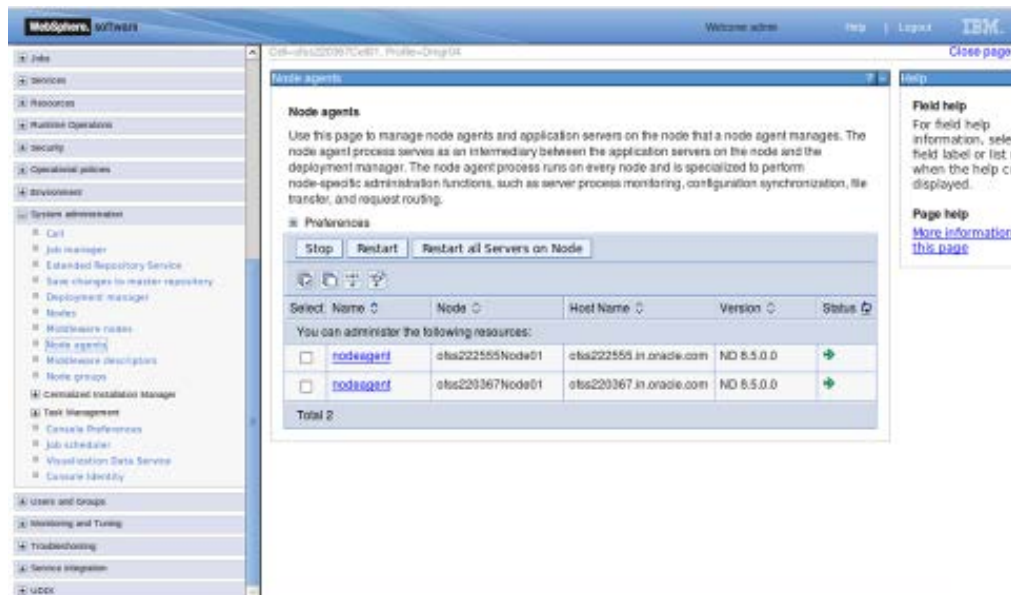
Add Node Remove Node Force Delete Synchronize Pull Resynchronize Stop

Select	Name	Host Name	Version	Discovery Protocol	Status
<input checked="" type="checkbox"/>	otss225397CellManager01	otss220367.in.oracle.com	ND 8.5.0.0	TCP	+
<input type="checkbox"/>	otss225367Node01	otss220367.in.oracle.com	ND 8.5.0.0	TCP	+
<input type="checkbox"/>	otss22555Node01	otss22555.in.oracle.com	ND 8.5.0.0	TCP	+

Total 3

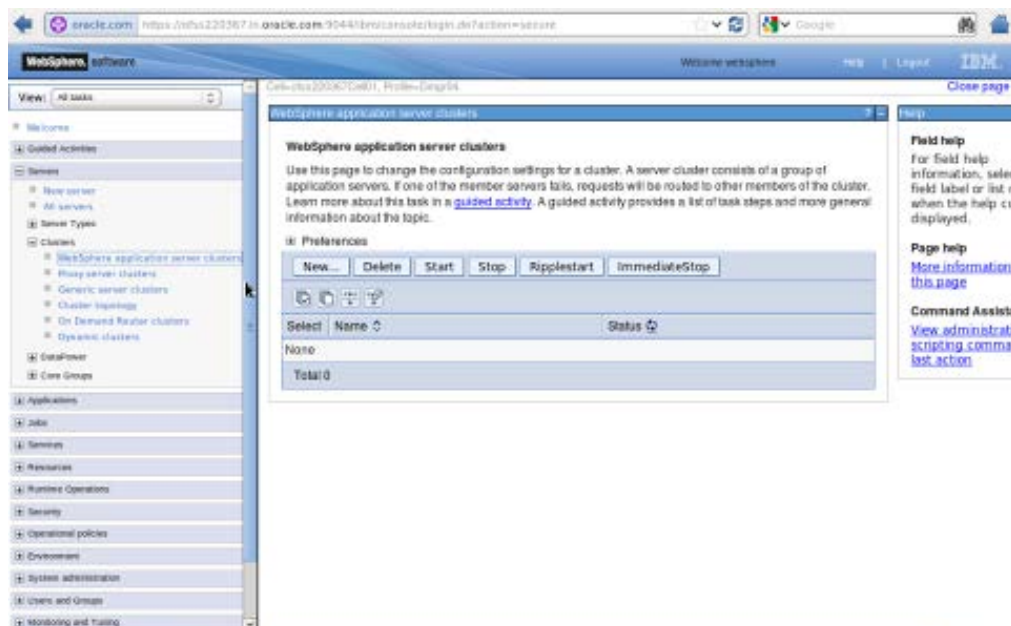
4.2.1 Start Node Agents

Navigation : *System administration> Node agents>Restart*

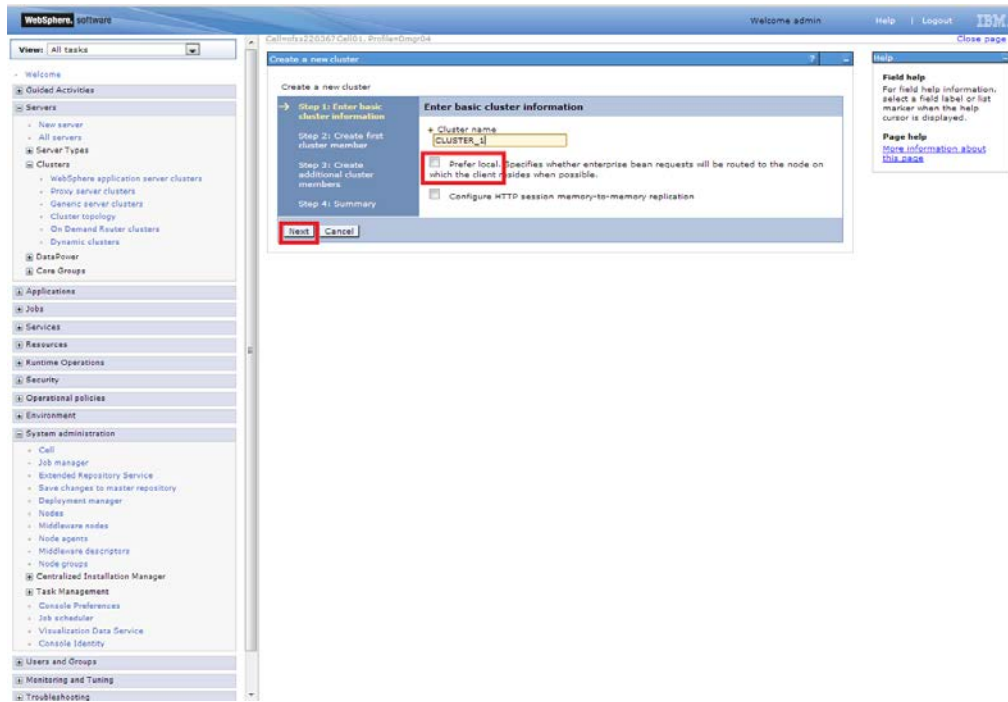


4.3 Create Cluster

Navigation: *Servers>Clusters> WebSphere application server clusters > New*



Navigation : *Uncheck [Prefer Local] > Next*



4.3.1 Add Cluster Members

The screenshot shows the 'Create a new cluster' wizard in the WebSphere software console. The left sidebar contains a navigation tree with categories like Servers, Clusters, DataPower, and Applications. The main panel is titled 'Create a new cluster' and shows four steps: Step 1: Enter basic cluster information, Step 2: Create first cluster member (current step), Step 3: Create additional cluster members, and Step 4: Summary. In Step 2, the 'Member name' is 'MS_1', 'Select node' is 'ofas220367Node01 (ND 8.5.0.0)', and 'Weight' is '2'. There are checkboxes for 'Generate unique HTTP ports' and 'Select how the server resources are promoted in the cluster'. Below this, there are radio buttons for 'Create the member using an application server template' (selected), 'Create the member using an existing application server as a template', and 'Create the member by converting an existing application server'. The 'Next' button is highlighted in red.

Add required number of cluster members

Navigation : Add Member > Next

The screenshot shows the 'Create a new cluster' wizard in the WebSphere software console, specifically Step 3: Create additional cluster members. The left sidebar is the same as in the previous screenshot. The main panel shows the 'Create additional cluster members' section. It has a text area for 'Enter information about this new cluster member, and click Add Member to add this cluster member to the member list. A server configuration template is created from the first member, and stored as part of the cluster data. Additional cluster members are copied from this template.' Below this, there are input fields for 'Member name' (MS_2), 'Select node' (ofas220367Node01 (ND 8.5.0.0)), and 'Weight' (2). There is a checkbox for 'Generate unique HTTP ports' and an 'Add Member' button. Below the input fields, there is a table with columns 'Select', 'Member name', 'Nodes', 'Version', and 'Weight'. The table contains one row with 'MS_1', 'ofas220367Node01', 'ND 8.5.0.0', and '2'. Below the table, it says 'Total: 1'. The 'Next' button is highlighted in red.

Navigation : Next

Create a new cluster

Step 1: Enter basic cluster information
Step 2: Create first cluster member
→ **Step 3: Create additional cluster members**
Step 4: Summary

Create additional cluster members

Enter information about this new cluster member, and click Add Member to add this cluster member to the member list. A server configuration template is created from the first member, and stored as part of the cluster data. Additional cluster members are copied from this template.

Member name:

Select node:

Weight: (0..100)

☒ Generate unique HTTP ports

Add Member

Use the Edit function to modify the properties of a cluster member in this list. Use the Delete function to remove a cluster member from this list. You are not allowed to edit or remove the first cluster member.

Edit **Delete**

Select	Member name	Nodes	Version	Weight
<input type="checkbox"/>	MS_1	ofss220367Node01	ND 8.5.0.0	2
<input type="checkbox"/>	MS_2	ofss22255Node01	ND 8.5.0.0	2

Total: 2

Previous **Next** **Cancel**

Help

Field help
For field help information, select a field label or list marker when the help cursor is displayed.

Page help
[More information about this page](#)

Navigation : Finish

Create a new cluster

Step 1: Enter basic cluster information
Step 2: Create first cluster member
Step 3: Create additional cluster members
→ **Step 4: Summary**

Summary

Summary of actions:

Options	Values
Cluster Name	CLUSTER_1
Core Group	DefaultCoreGroup
Node group	DefaultNodeGroup
Prefer local	false
Configure HTTP session memory-to-memory replication	false
Server name	MS_1
Node	ofss220367Node01 (ND 8.5.0.0)
Weight	2
Clone Template	default
Clone Basis	Create the member using an application server template.
Select how the server resources are promoted in the cluster.	cluster
Generate unique HTTP ports	true
Server name	MS_2
Node	ofss220367Node01 (ND 8.5.0.0)
Weight	2
Clone Template	Version 8.5 member template
Generate unique HTTP ports	true

Previous **Finish** **Cancel**

Help

Field help
For field help information, select a field label or list marker when the help cursor is displayed.

Page help
[More information about this page](#)

4.3.2 Start Cluster

WebSphere application server clusters

Use this page to change the configuration settings for a cluster. A server cluster consists of a group of application servers. If one of the member servers fails, requests will be routed to other members of the cluster. Learn more about this task in a [guided activity](#). A guided activity provides a list of task steps and more general information about the topic.

Preferences

New... Delete Start Stop Ripplestart ImmediateStop

Select	Name	Status
<input checked="" type="checkbox"/>	CLUSTER_1	

Total 1

Field help
For field help information, select field label or list item when the help is displayed.

Page help
[More information, this page](#)

Command Assistant
[View administrative command list action](#)

WebSphere application server clusters

Messages

The start operation on cluster CLUSTER_1 has been initiated. It may take several minutes for each cluster member to finish starting.

WebSphere application server clusters

Use this page to change the configuration settings for a cluster. A server cluster consists of a group of application servers. If one of the member servers fails, requests will be routed to other members of the cluster. Learn more about this task in a [guided activity](#). A guided activity provides a list of task steps and more general information about the topic.

Preferences

New... Delete Start Stop Ripplestart ImmediateStop

Select	Name	Status
<input type="checkbox"/>	CLUSTER_1	

Total 1

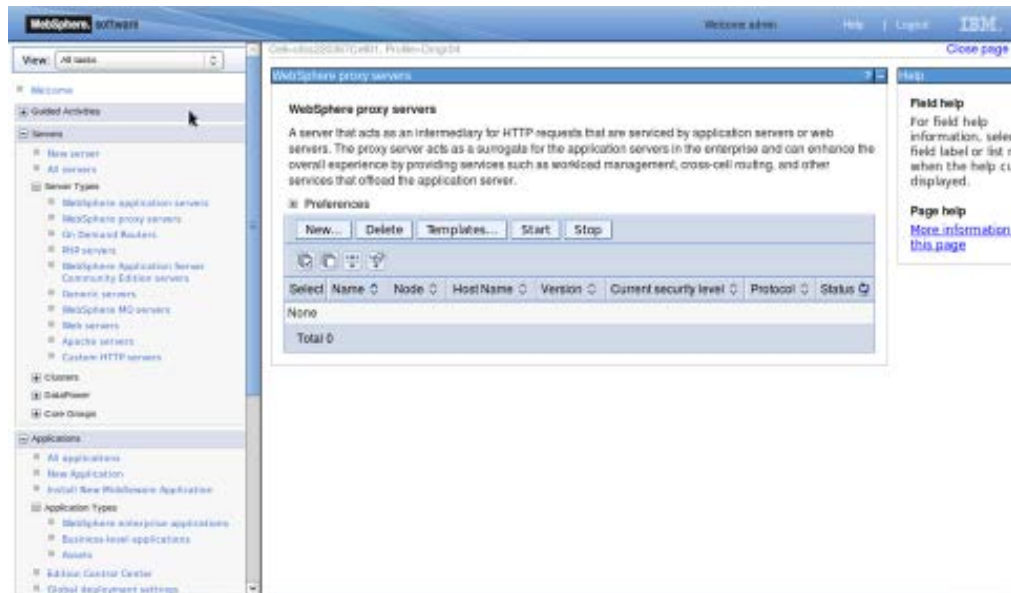
Field help
For field help information, select field label or list item when the help is displayed.

Page help
[More information, this page](#)

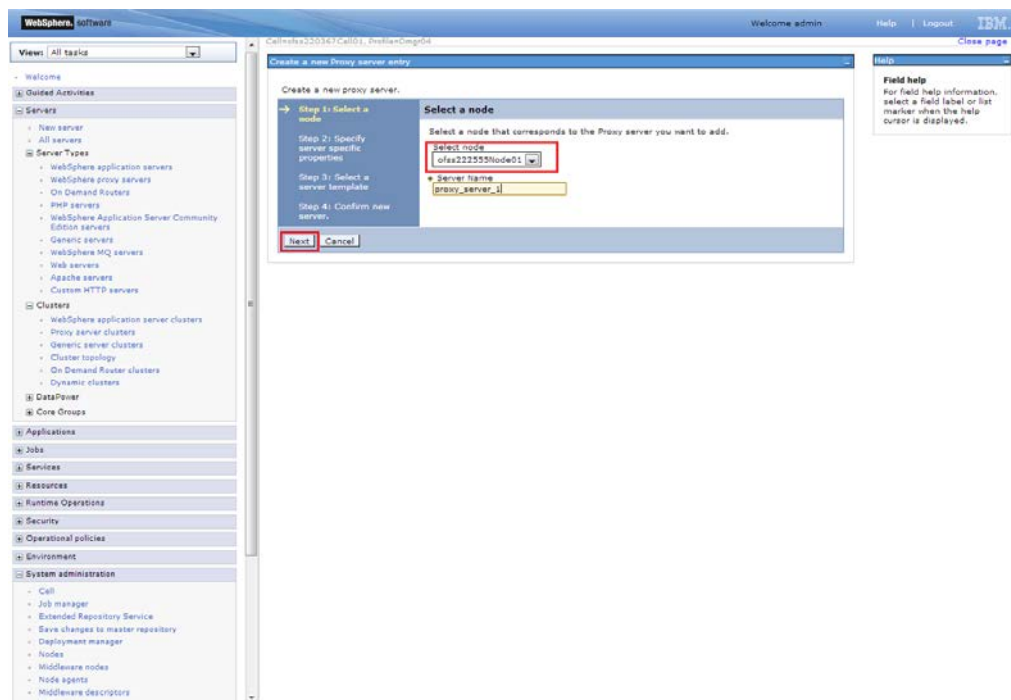
Command Assistant
[View administrative command list action](#)

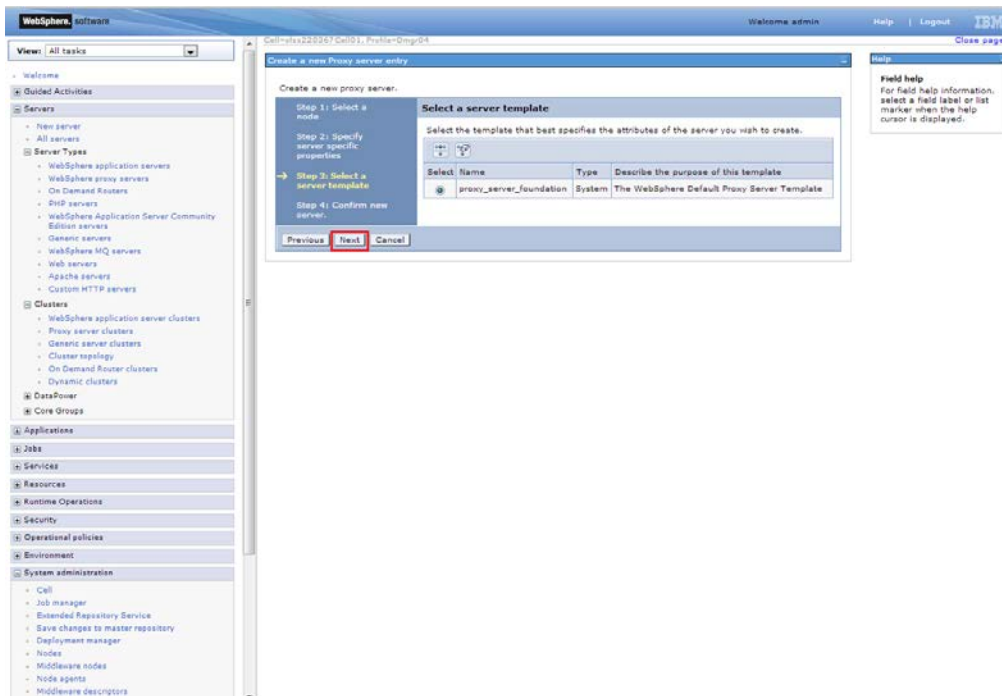
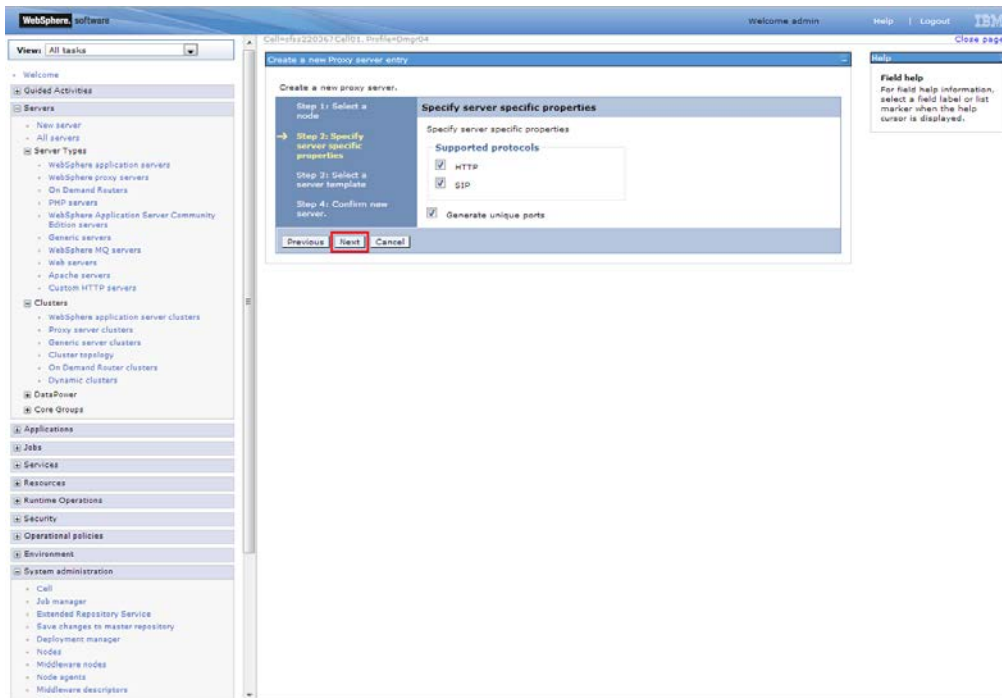
4.4 Create Proxy Server

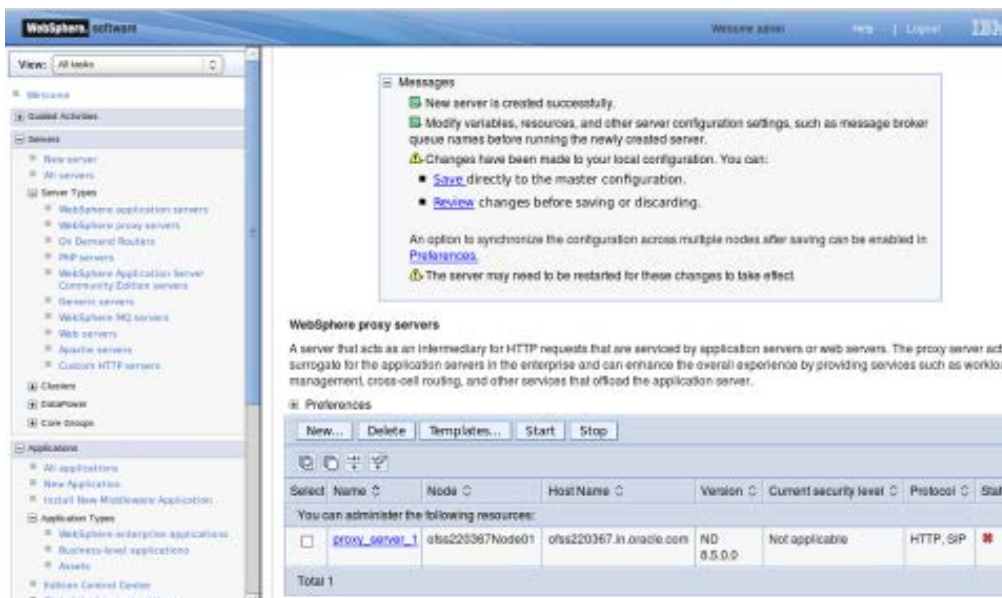
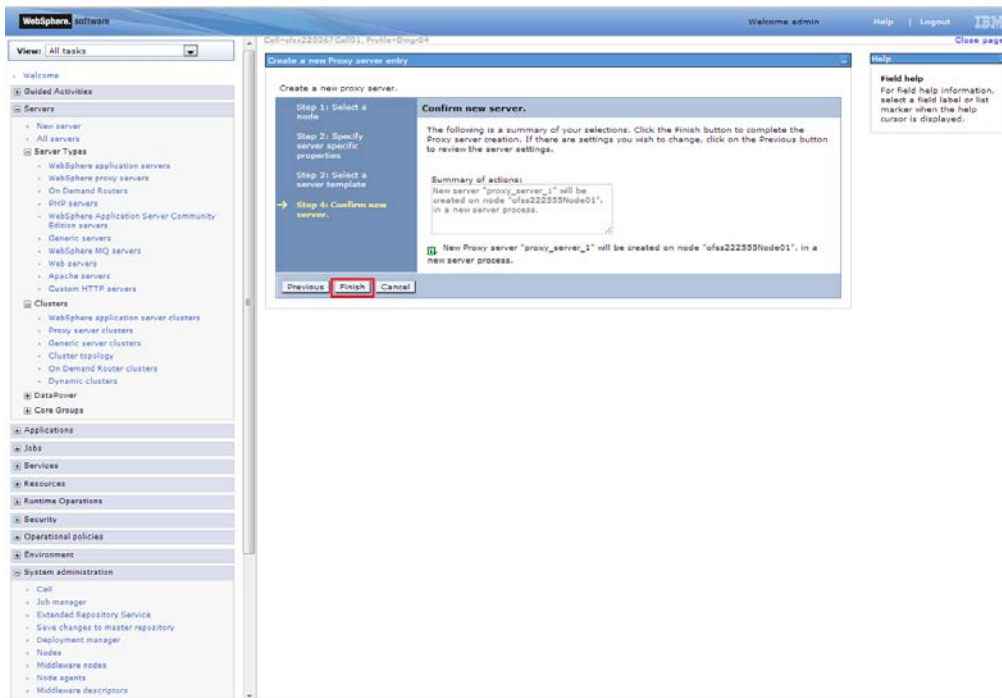
Navigation : Servers > Server Types > WebSphere proxy servers > New



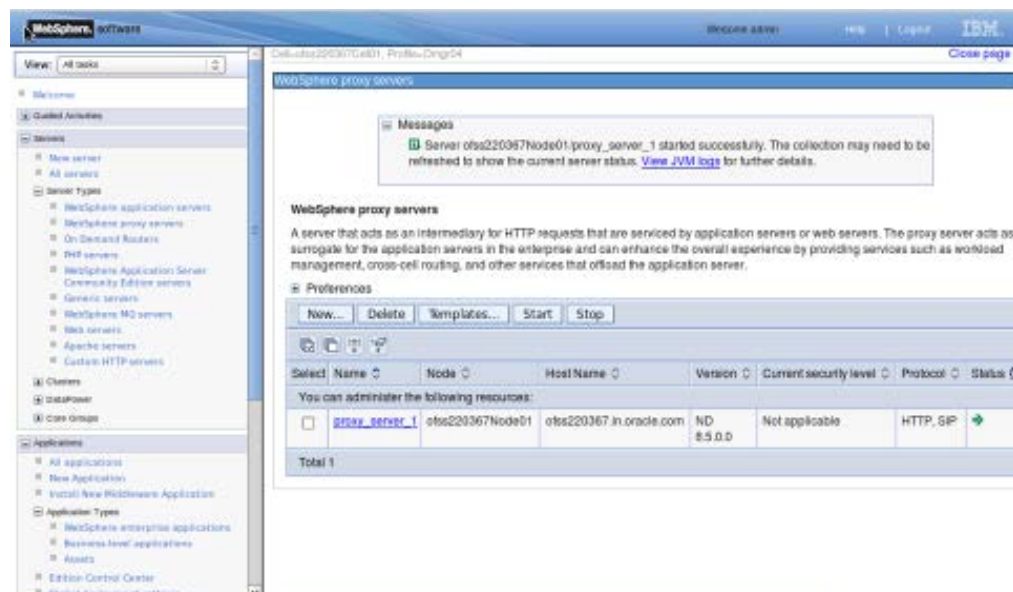
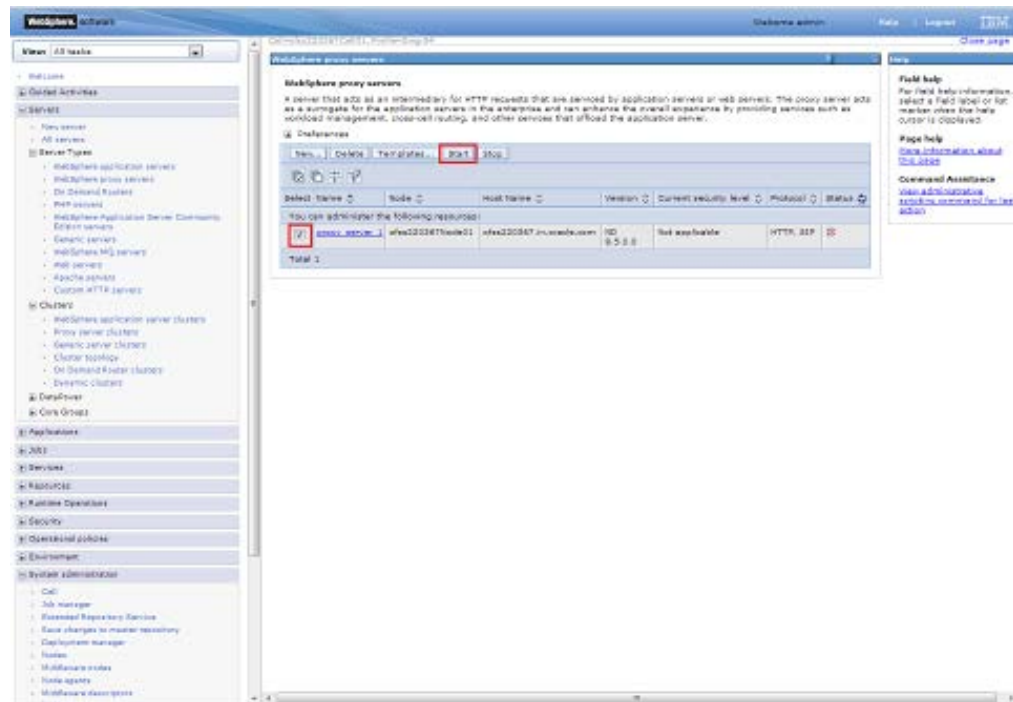
Navigation : [Select appropriate Node] > Next







4.4.1 Start Proxy Server



4.5 Configure Virtual Host

Make a note of "WC_defaulthost"/"WS_defaulthost_secure" port for server MS1 : 9081/9444

WebLogicServer > MS_1 > Ports

Specify the TCP/IP ports this server uses for connections.

Ports

You can administer the following resources:

Selected	Port Name	Host	Port	Transport Details
<input type="checkbox"/>	WC_defaulthost_secure	*	9445	No associated transports
<input type="checkbox"/>	WC_defaulthost	*	9082	No associated transports
<input type="checkbox"/>	WC_adminhost_secure	*	9043	No associated transports
<input type="checkbox"/>	WC_adminhost	*	9042	No associated transports
<input type="checkbox"/>	ADMIN_CONNECTOR_ADDRESS	ojs200367.in.oracle.com	8888	No associated transports
<input type="checkbox"/>	WLS_DEFAULTHOST_SECURE	*	9043	No associated transports
<input type="checkbox"/>	WLS_DEFAULTHOST	*	9042	No associated transports
<input type="checkbox"/>	WLS_HQ_ENDPOINT_SECURE_ADDRESS	*	8879	No associated transports
<input type="checkbox"/>	WLS_HQ_ENDPOINT_ADDRESS	*	8889	No associated transports
<input type="checkbox"/>	WLS_ENDPOINT_SECURE_ADDRESS	*	7287	No associated transports
<input type="checkbox"/>	WLS_ENDPOINT_ADDRESS	*	7279	No associated transports
<input type="checkbox"/>	WLS_SOL_SOCKETS_LISTENER_ADDRESS	ojs200367.in.oracle.com	8487	No associated transports
<input type="checkbox"/>	OVERLAY_WSP_LISTENER_ADDRESS	*	11009	No associated transports
<input type="checkbox"/>	OVERLAY_TCP_LISTENER_ADDRESS	*	11010	No associated transports
<input type="checkbox"/>	WSR_LISTENER_ADDRESS	ojs200367.in.oracle.com	9102	No associated transports

Make a note of “WC_defaulthost”/“WS_defaulthost_secure” for MS2 : 9082/9445

WebLogicServer > MS_2 > Ports

Specify the TCP/IP ports this server uses for connections.

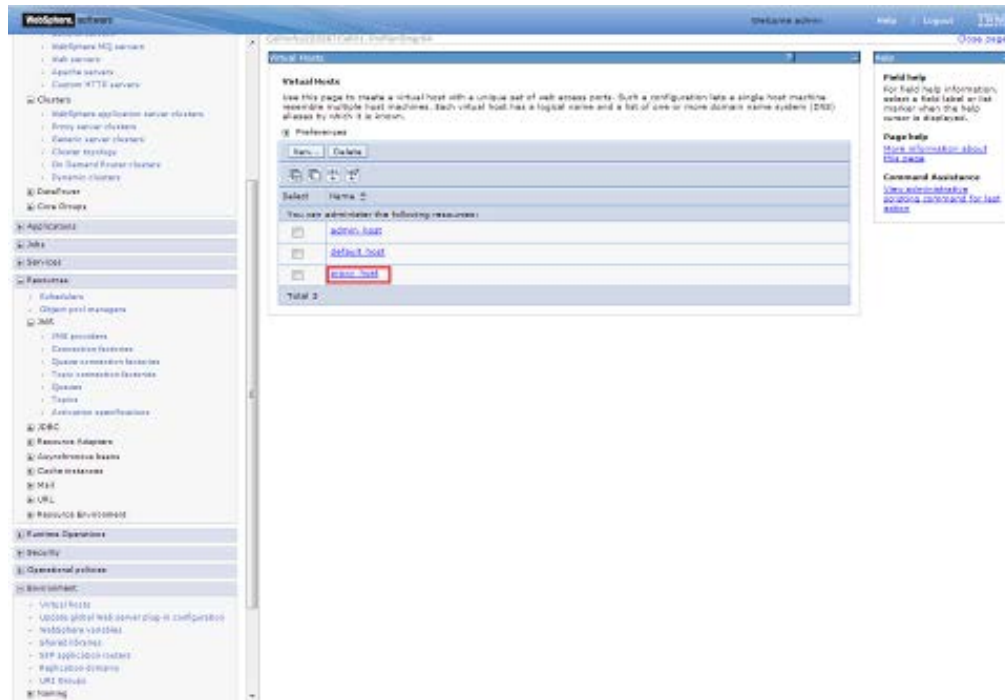
Ports

You can administer the following resources:

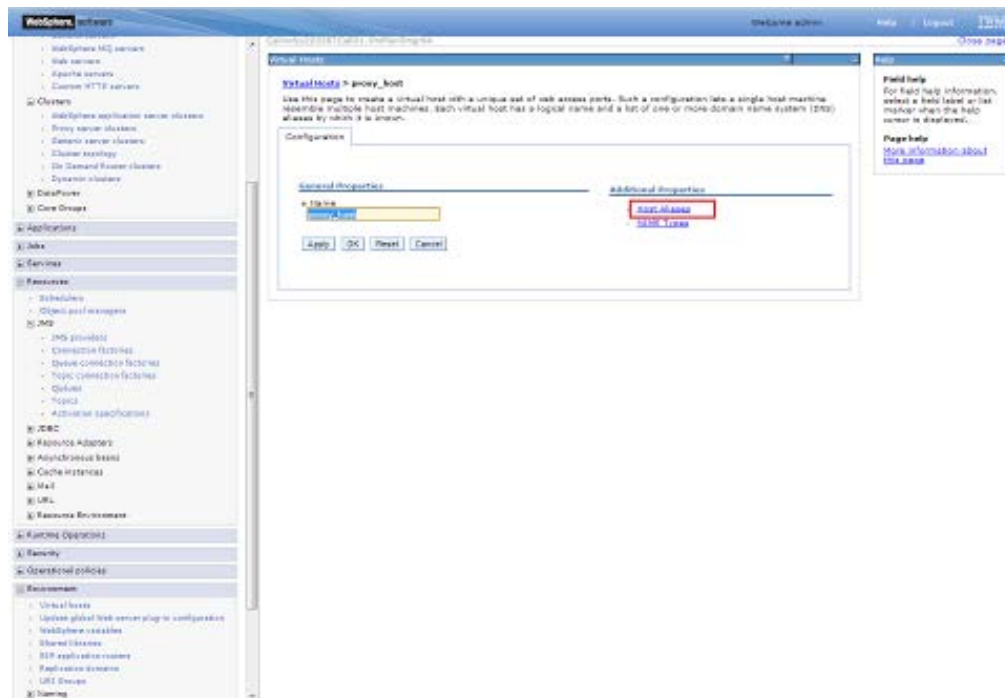
Selected	Port Name	Host	Port	Transport Details
<input type="checkbox"/>	WC_defaulthost_secure	*	9445	No associated transports
<input type="checkbox"/>	WC_defaulthost	*	9082	No associated transports
<input type="checkbox"/>	WC_adminhost_secure	*	9043	No associated transports
<input type="checkbox"/>	WC_adminhost	*	9042	No associated transports
<input type="checkbox"/>	ADMIN_CONNECTOR_ADDRESS	ojs200367.in.oracle.com	8888	No associated transports
<input type="checkbox"/>	WLS_DEFAULTHOST_SECURE	*	9043	No associated transports
<input type="checkbox"/>	WLS_DEFAULTHOST	*	9042	No associated transports
<input type="checkbox"/>	WLS_HQ_ENDPOINT_SECURE_ADDRESS	*	8879	No associated transports
<input type="checkbox"/>	WLS_HQ_ENDPOINT_ADDRESS	*	8889	No associated transports
<input type="checkbox"/>	WLS_ENDPOINT_SECURE_ADDRESS	*	7288	No associated transports
<input type="checkbox"/>	WLS_ENDPOINT_ADDRESS	*	7279	No associated transports
<input type="checkbox"/>	WLS_SOL_SOCKETS_LISTENER_ADDRESS	ojs200367.in.oracle.com	8487	No associated transports
<input type="checkbox"/>	OVERLAY_WSP_LISTENER_ADDRESS	*	11001	No associated transports
<input type="checkbox"/>	OVERLAY_TCP_LISTENER_ADDRESS	*	11002	No associated transports
<input type="checkbox"/>	WSR_LISTENER_ADDRESS	ojs200367.in.oracle.com	9102	No associated transports

4.5.1 Virtual Host Setup

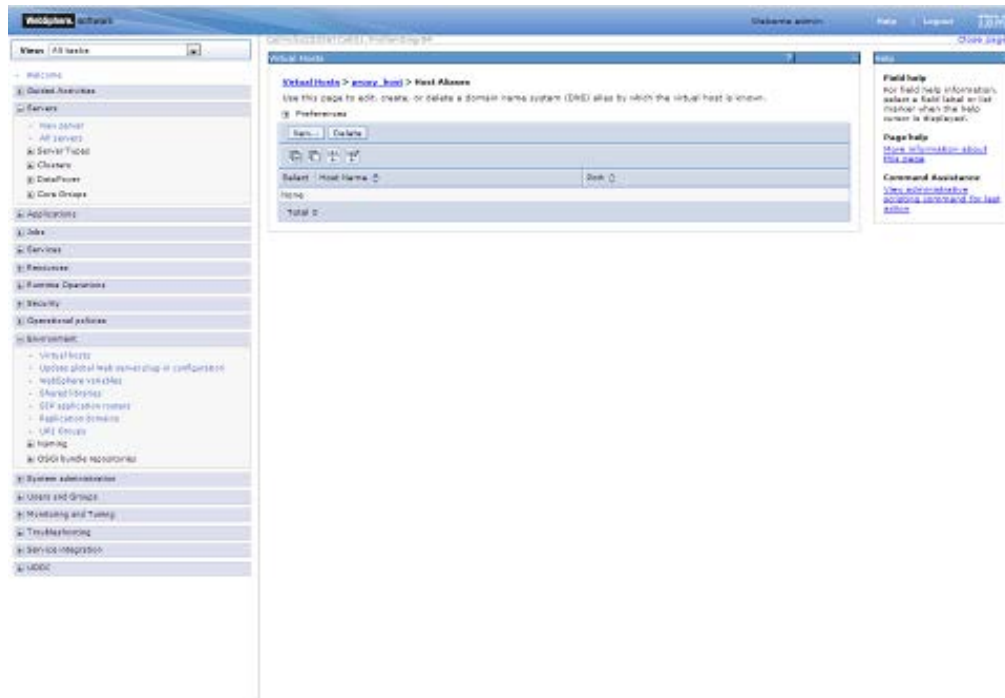
Navigation : *Environment>Virtual hosts>proxy_host*



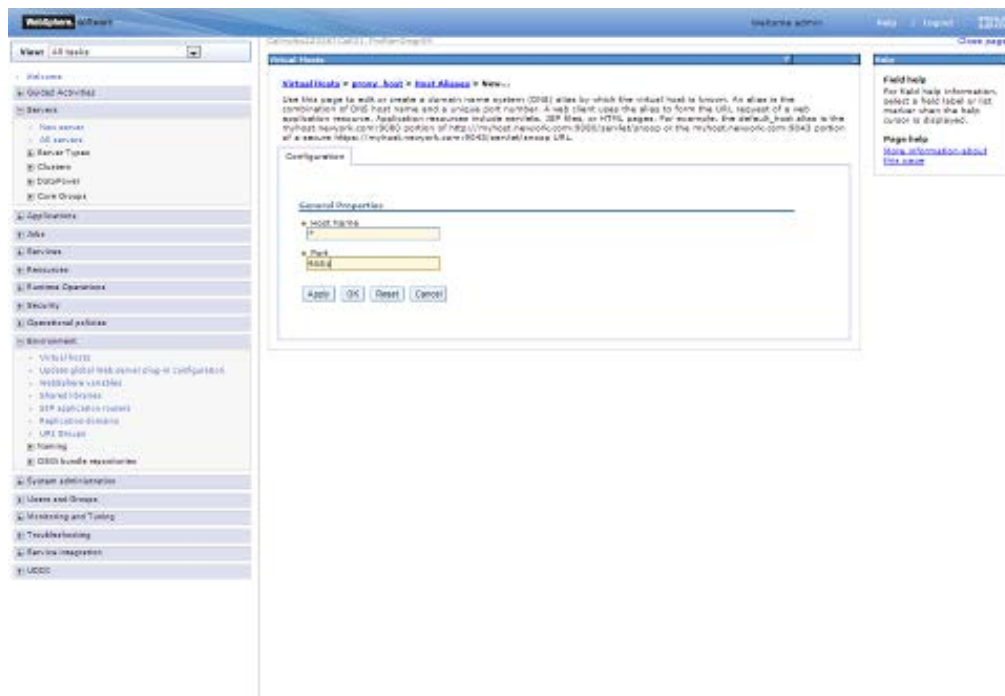
Navigation : *Host Aliases*

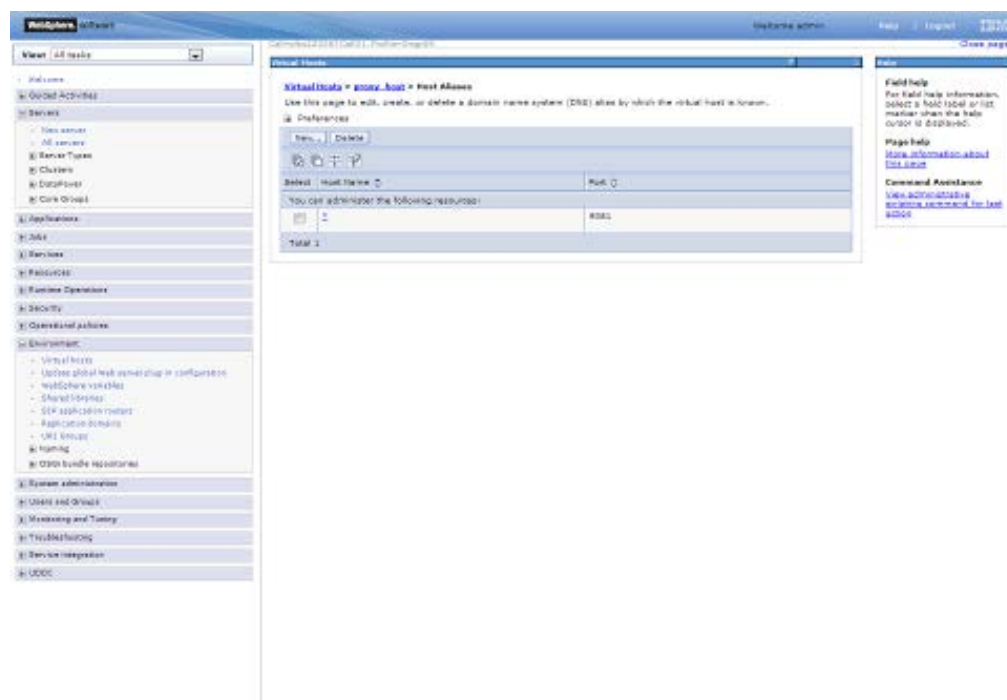


Navigation : *Environment>Virtual hosts>proxy_host>Host Aliases > New*

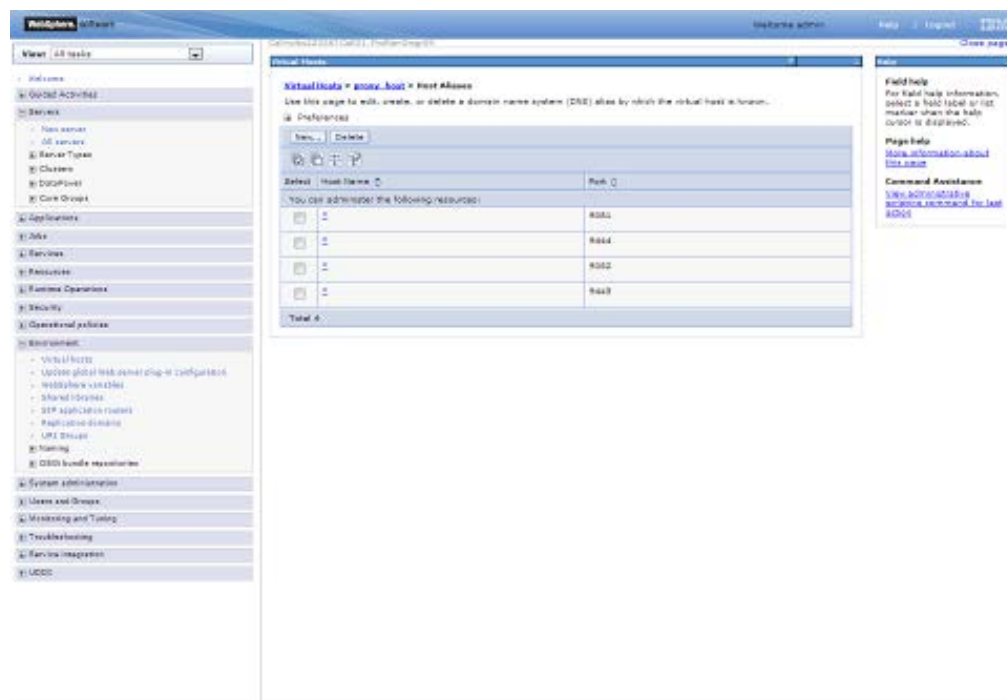


Create New Alias for default port in managed server <<9081>>:





Similarly create proxy alias for all cluster related server default ports



5. Create Resources in Cluster Scope

JDBC Provider :

JDBC providers

Use this page to edit properties of a JDBC provider. The JDBC provider object encapsulates the specific JDBC driver implementation class for access to the remote vendor database of your environment. Learn more about this task in a [guided activity](#). A guided activity provides a list of task steps and more general information about this topic.

Example: `Cluster=CLUSTER_001, Cluster=CLUSTER_1`

☒ Show scope selection drop-down list with the all scopes option

Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, see [the scope and scope table](#).

Cluster=CLUSTER_1

Resources

You can administer the following resources:

Select Name	Scope	Description
<input type="checkbox"/> Oracle JDBC Driver	Cluster=CLUSTER_1	Oracle JDBC Driver
<input type="checkbox"/> Oracle JDBC Driver (XA)	Cluster=CLUSTER_1	Oracle JDBC Driver (XA)

Total 2

Datasource :

Datasources

Use this page to edit the settings of a datasource that is associated with your selected JDBC provider. The datasource object encapsulates your application with connections for accessing the database. Learn more about this task in a [guided activity](#). A guided activity provides a list of task steps and more general information about this topic.

Example: `Cluster=CLUSTER_001, Cluster=CLUSTER_1`

☒ Show scope selection drop-down list with the all scopes option

Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, see [the scope and scope table](#).

Cluster=CLUSTER_1

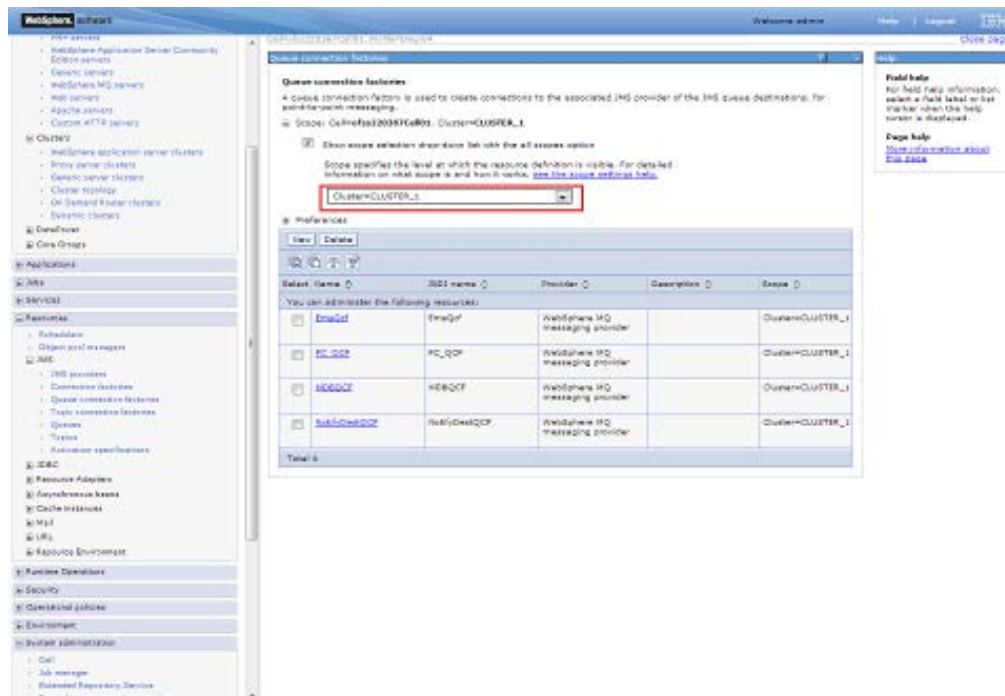
Resources

You can administer the following resources:

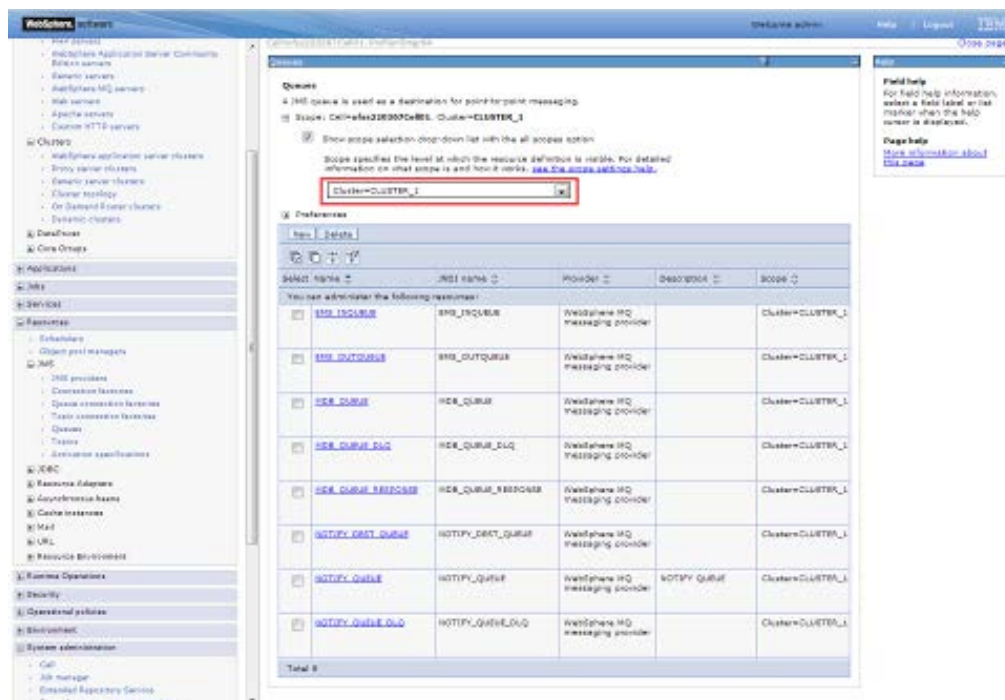
Select Name	JDBC name	Scope	Provider	Description	Category
<input type="checkbox"/> CLUSTER_001	jdbc/Cluster_001	Cluster=CLUSTER_1	Oracle JDBC Driver (XA)	Non-JDBC Datasource	
<input type="checkbox"/> CLUSTER_002	jdbc/Cluster_002	Cluster=CLUSTER_1	Oracle JDBC Driver	Non-JDBC Datasource	

Total 2

Queue Connection Factory

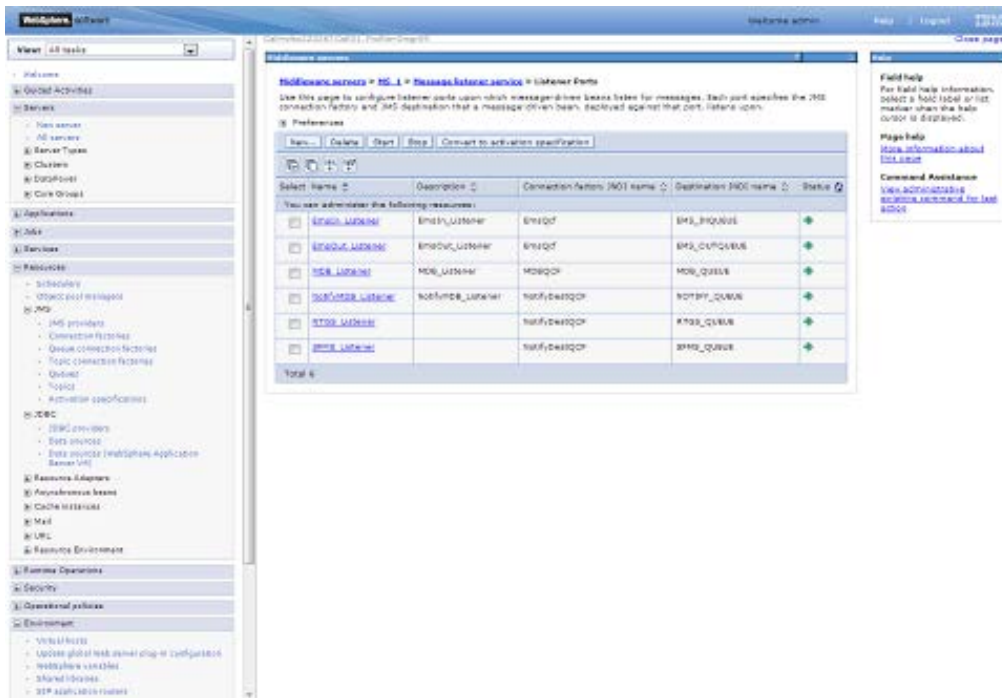


JMS Queue:

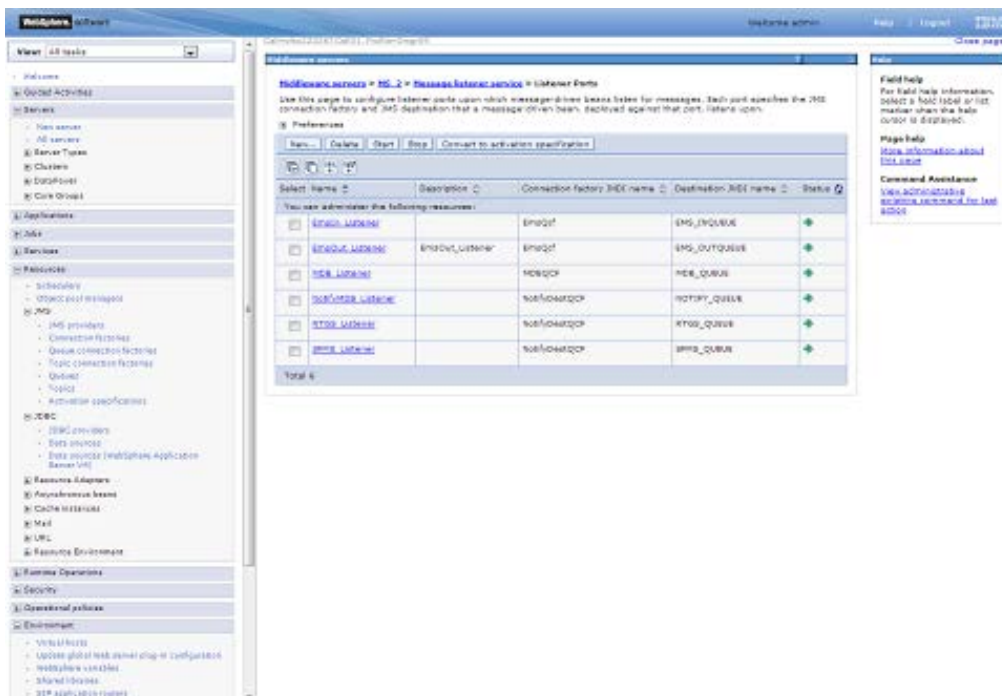


Create Message Listeners for individual Servers in Cluster

Navigation : *Middleware servers > MS_1 > Message listener service > Listener Ports*

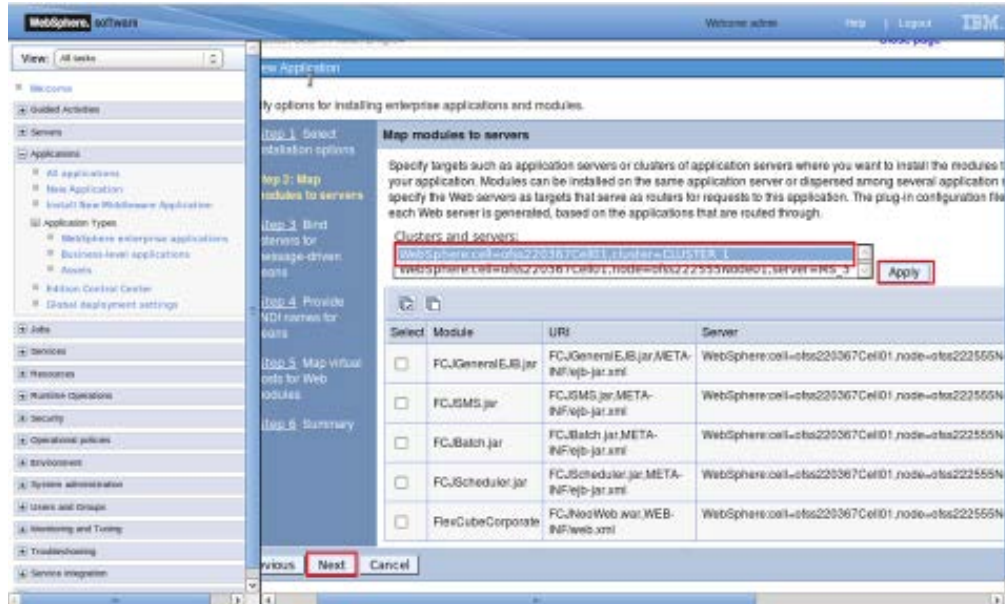


Navigation : Middleware servers > MS_2 > Message listener service > Listener Ports

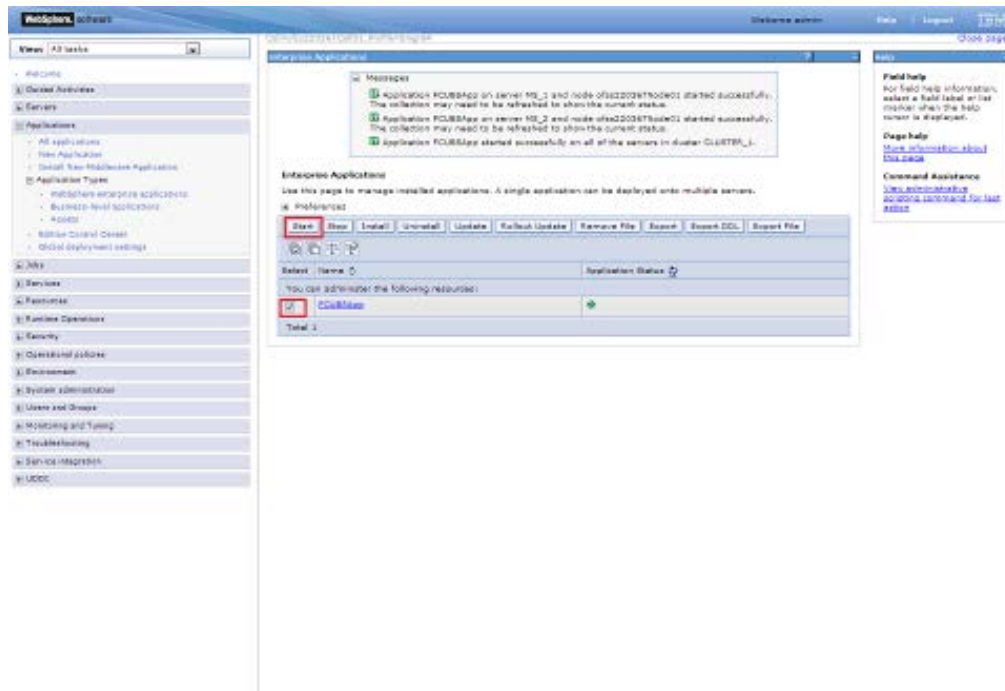


6. Deploy Application to Cluster

While deploying ensure the application is installed to Cluster



Start FCUBS application



6.1.1 Test the application

Make a note of the ports `PROXY_HTTPS_ADDRESS/PROXY_HTTP_ADDRESS` to access the application.

Navigation : *Servers > Server Types > WebSphere proxy servers > [proxy_server_1] > Ports*

The screenshot shows the WebSphere Admin Console interface. On the left is a navigation tree with categories like Servers, Clusters, Applications, and Services. The main panel displays the 'Ports' configuration for a selected proxy server. It includes a table with columns for Name, Host, Port, and Transport Details. Two rows are highlighted with a red box: 'PROXY_HTTPS_ADDRESS' on port 443 and 'PROXY_HTTP_ADDRESS' on port 80. Both are marked as 'Not associated transport'.

Name	Host	Port	Transport Details
PROXY_HTTPS_ADDRESS	*	443	Not associated transport
PROXY_HTTP_ADDRESS	*	80	Not associated transport

Launch Application:

URL : `http://<host>:<PROXY_HTTP_ADDRESS>/FCJNeoWeb` or
`https://<host>:<PROXY_HTTPS_ADDRESS>/FCJNeoWeb`



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Cluster Creation on Websphere Application Server
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