

IBM WEBSPHERE BUSINESS MONITOR 6.2 – LAB EXERCISE

WebSphere Business Monitor V6.2

Alphablox clustering

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What this exercise is about

The objective of this lab is to provide instructions for installing Alphablox into a WebSphere Business Monitor V6.2 clustered environment.

There is a separate lab document [WBMonitorV62_InstallationAdvancedClustering.pdf](#) which shows you how to install WebSphere Business Monitor into a clustered environment. In that lab, you will install business space into the mon.Business cluster on two nodes. This lab will show you how to install and configure Alphablox into the same mon.Business cluster.

Lab requirements

List of system and software required for the student to complete the lab:

- WebSphere Business Monitor V6.2
- WebSphere Application Server V6.1.0.21
- DB2 UDB ESE V9.5
- Alphablox V9.5
- IBM Information Center
- One or more nodes to contain the business space and Alphablox cluster

What you should be able to do

At the end of this lab you should be able to do the following:

- Install Alphablox into the existing Monitor custom nodes.
- Deploy the Alphablox libraries to the nodes which will run the business space cluster.
- Install the Alphablox applications.
- Install the Monitor theme into the Alphablox nodes
- Set autostart behavior for Alphablox
- Identify the Monitor data sources to Alphablox

Introduction

AlphaBlox is not installed for you automatically in a network deployment environment when you create a WebSphere® Business Monitor custom profile. If you plan to use the dimensional capabilities of WebSphere Business Monitor, you must manually install AlphaBlox.

You can install a single instance of AlphaBlox on the server where Business Space is installed. If Business Space is clustered, you must install AlphaBlox on the same cluster.

In this lab, it shows installing Alphablox into the business space cluster which happens to be installed on two nodes.

Part 1: Pre-requisites for installing and configuring an Alphablox cluster over an existing cluster

Refer to lab document WBMonitorV62_InstallationAdvancedClustering.pdf which shows you how to install WebSphere Business Monitor into a clustered environment.

- ___ 1. Install Monitor deployment manager with Alphablox feature selected
- ___ 2. Create MONITOR database
- ___ 3. Install custom Monitor nodes with Alphablox feature selected
- ___ 4. Create clusters and cluster members
- ___ 5. Each instance of Alphablox must be configured to access the same Alphablox Repository, which must reside in a relational database
- ___ 6. Copy any JDBC drivers you may need into a directory containing only JDBC drivers on your installation machine. During installation, you can enable the supported JDBC drivers in that directory
- ___ 7. Cluster nodes must reside in the same subnet
- ___ 8. **Important:** The Alphablox installation locations (paths) for must be the same for all the cluster members. For example, if the installation location for cluster member one on machine one is `C:\IBM\Alphablox`, the installation location for cluster member two on machine two must be the same.

Note: - The instructions in this document are for installing Alphablox V9.5 on an existing WebSphere Business Monitor horizontal cluster environment

Part 2: Installing Alphablox V9.5

In this part of the lab, you will install Alphablox V9.5 on monitor custom nodes.

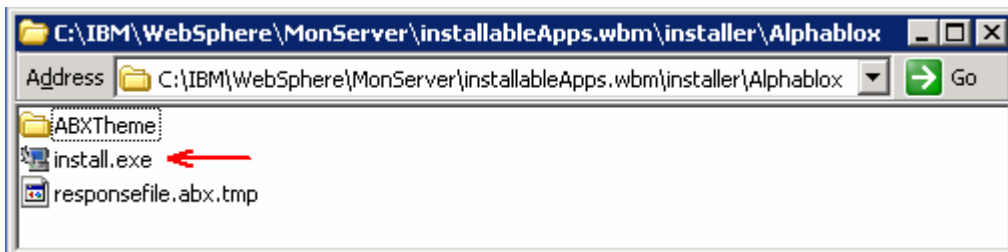
Note: The instructions in this part of the lab should be completed on all of the monitor custom nodes where Business Space is configured.

Pre-requisites:

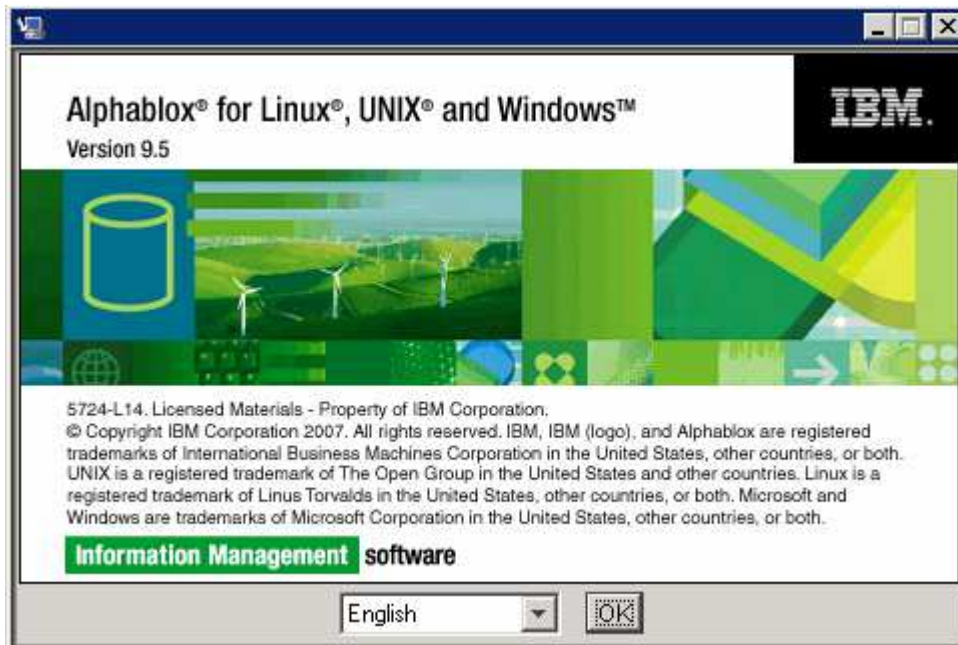
- Stop the Monitor Deployment manager
- Stop all the monitor cluster members on the node where Alphablox is being installed
- Stop all the Node agents where Alphablox is being installed

___ 1. On the monitor custom node machine, navigate to the following location:

- <MONITOR_HOME>\installableApps.wbm\installer\Alphablox



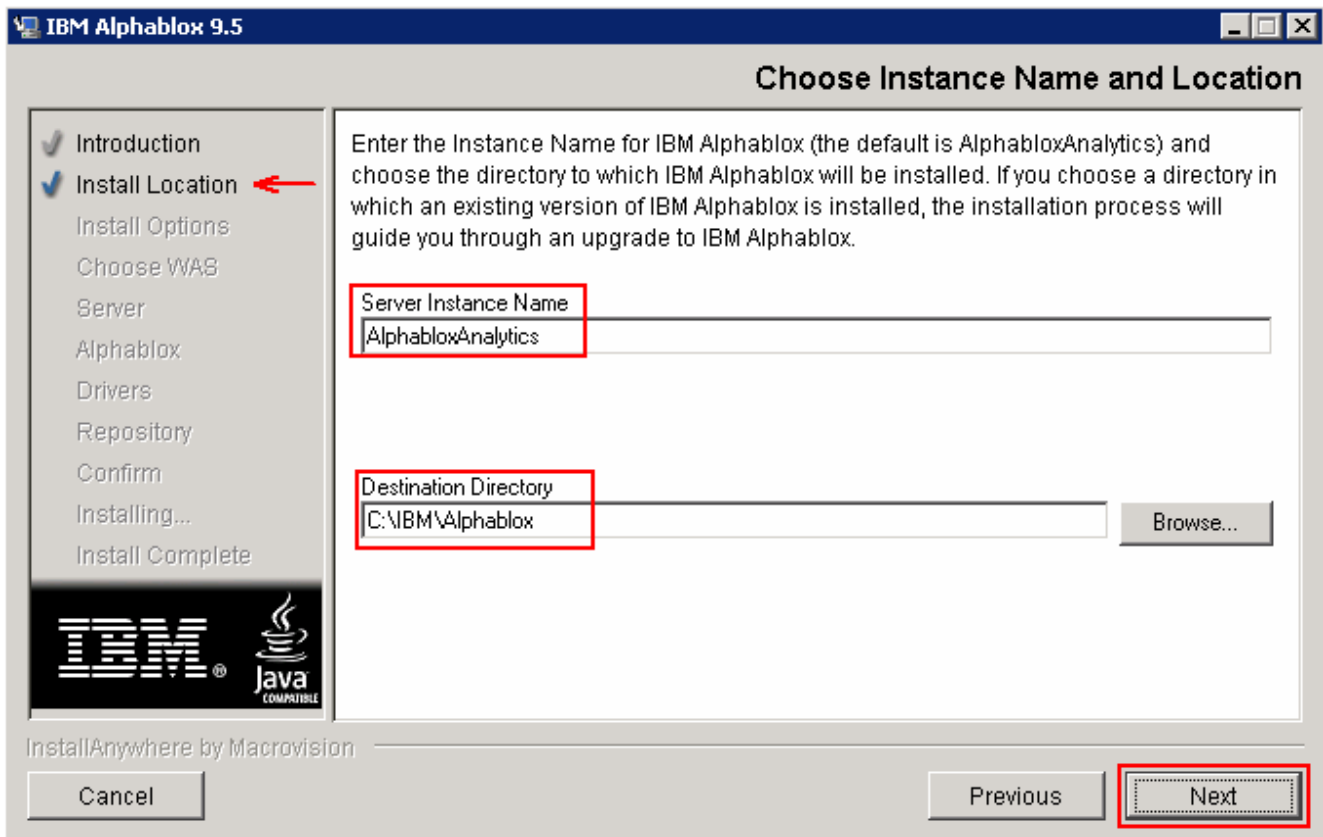
___ 2. Double click the **install.exe** executable file to launch the Alphablox installation wizard



___ 3. Select the language and click **OK**

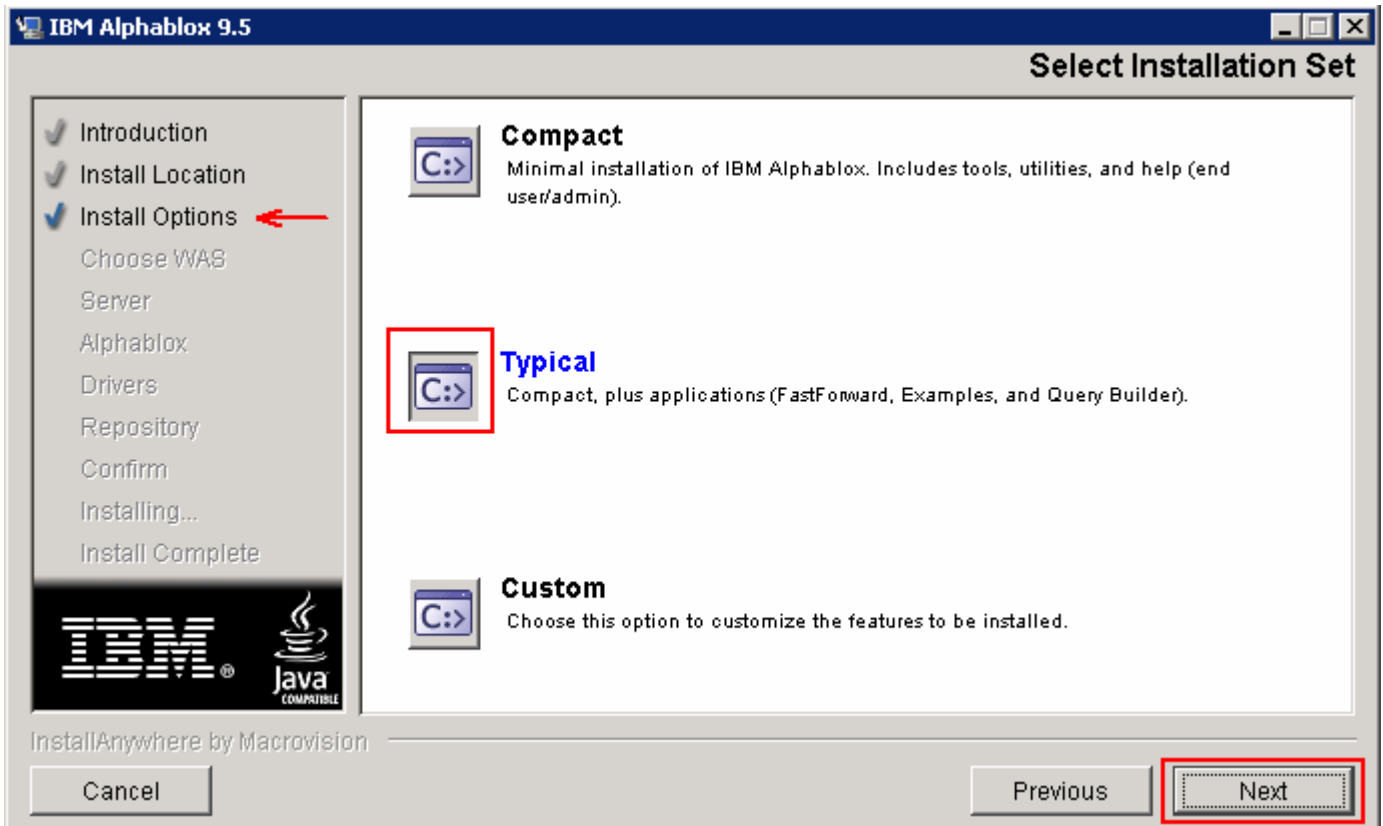
___ 4. In the next panel, read the license agreement. If you agree to the terms, select **I accept the terms in the license agreement**

- ___ 5. Click **Next**
- ___ 6. In the **Introduction** section, click **Next**
- ___ 7. In the **Install Location** section, enter the following:
 - **Server Instance Name** : AlphabloxAnalytics (you can rename it to a different instance name)
 - **Destination Directory** : C:\IBM\Alphablox



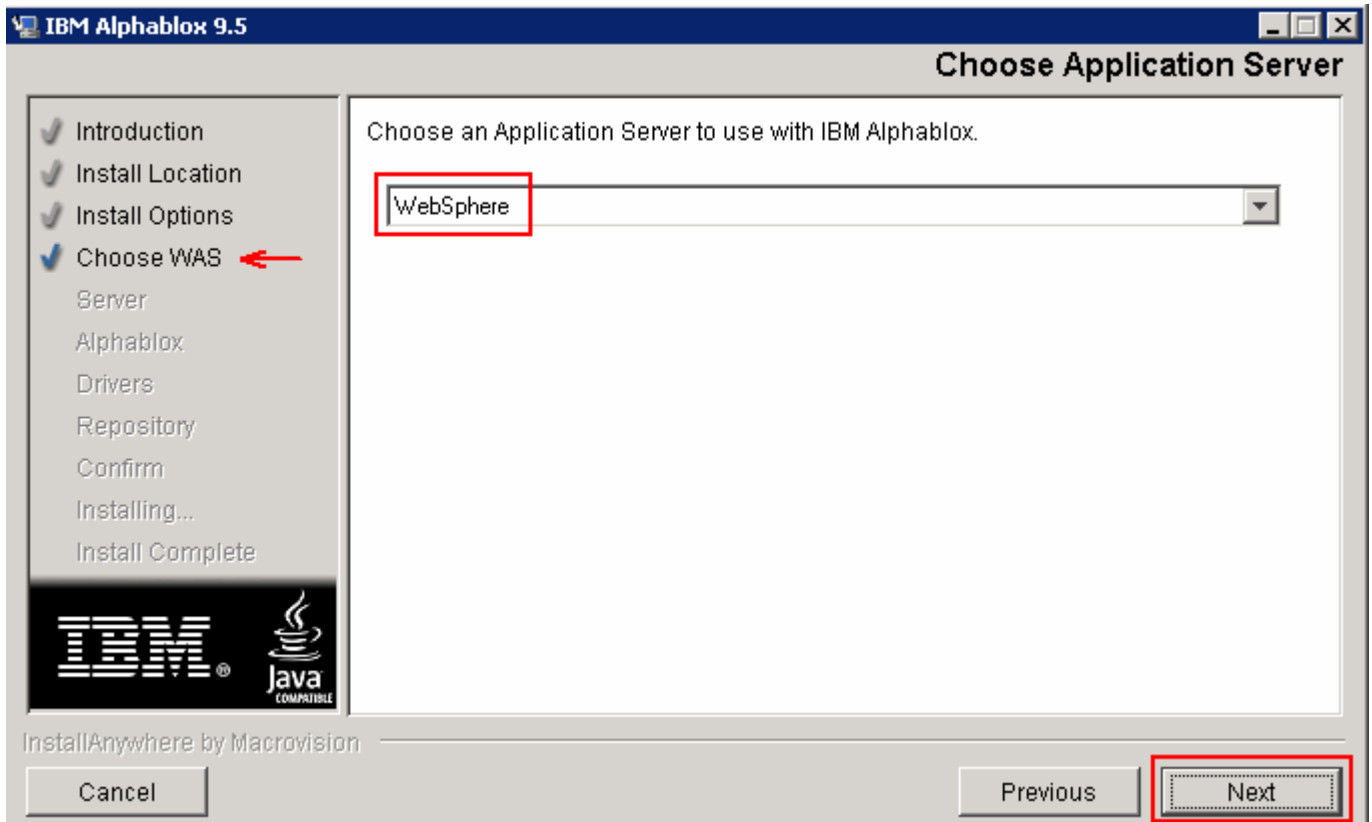
Note: - Ensure that the same destination directory is selected for subsequent Alphablox installations in this cluster.

- ___ 8. Click **Next**
- ___ 9. In the **Install Options** section, select **Typical**

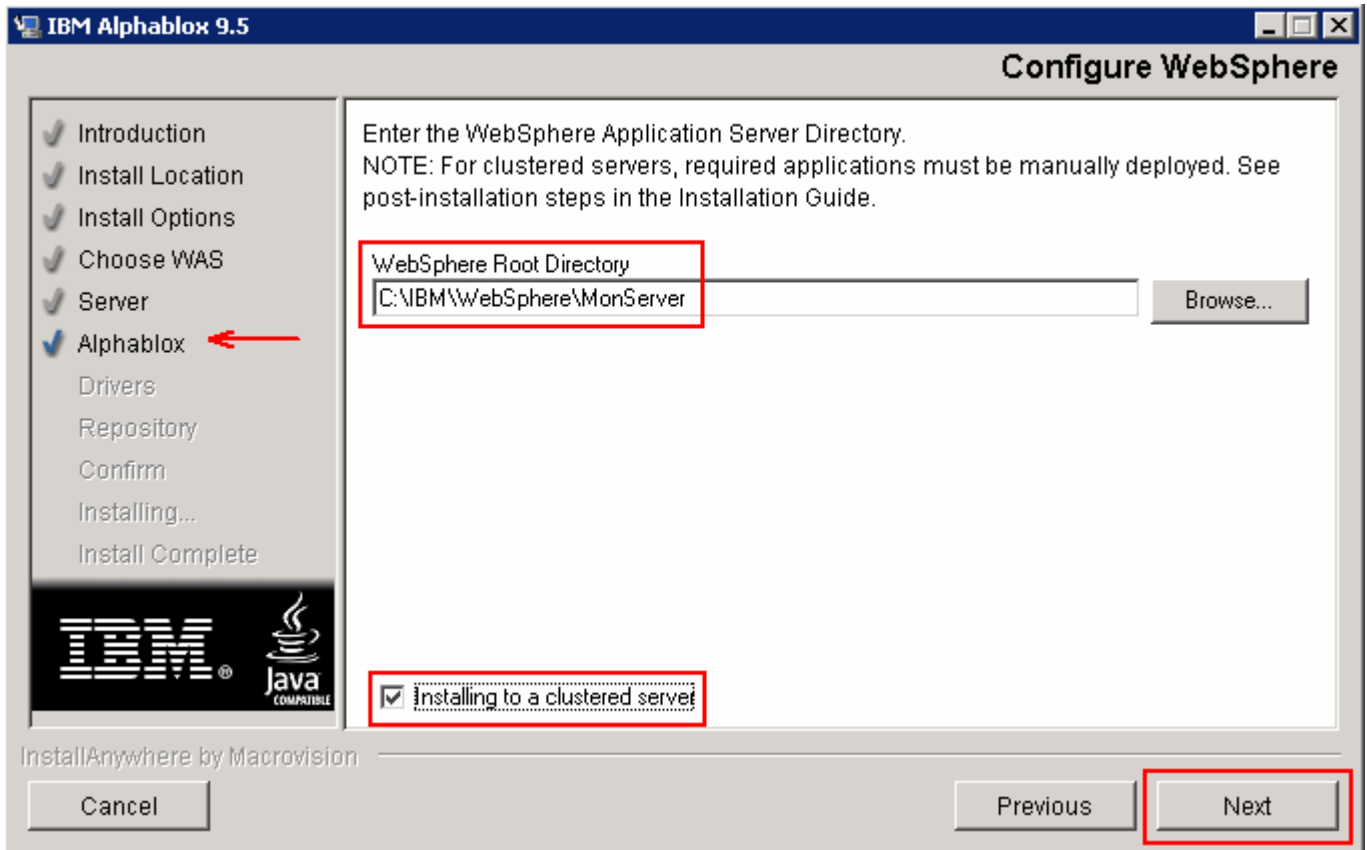


___ 10. Click **Next**

___ 11. In the **Choose WAS** section, ensure **WebSphere** is selected from the list

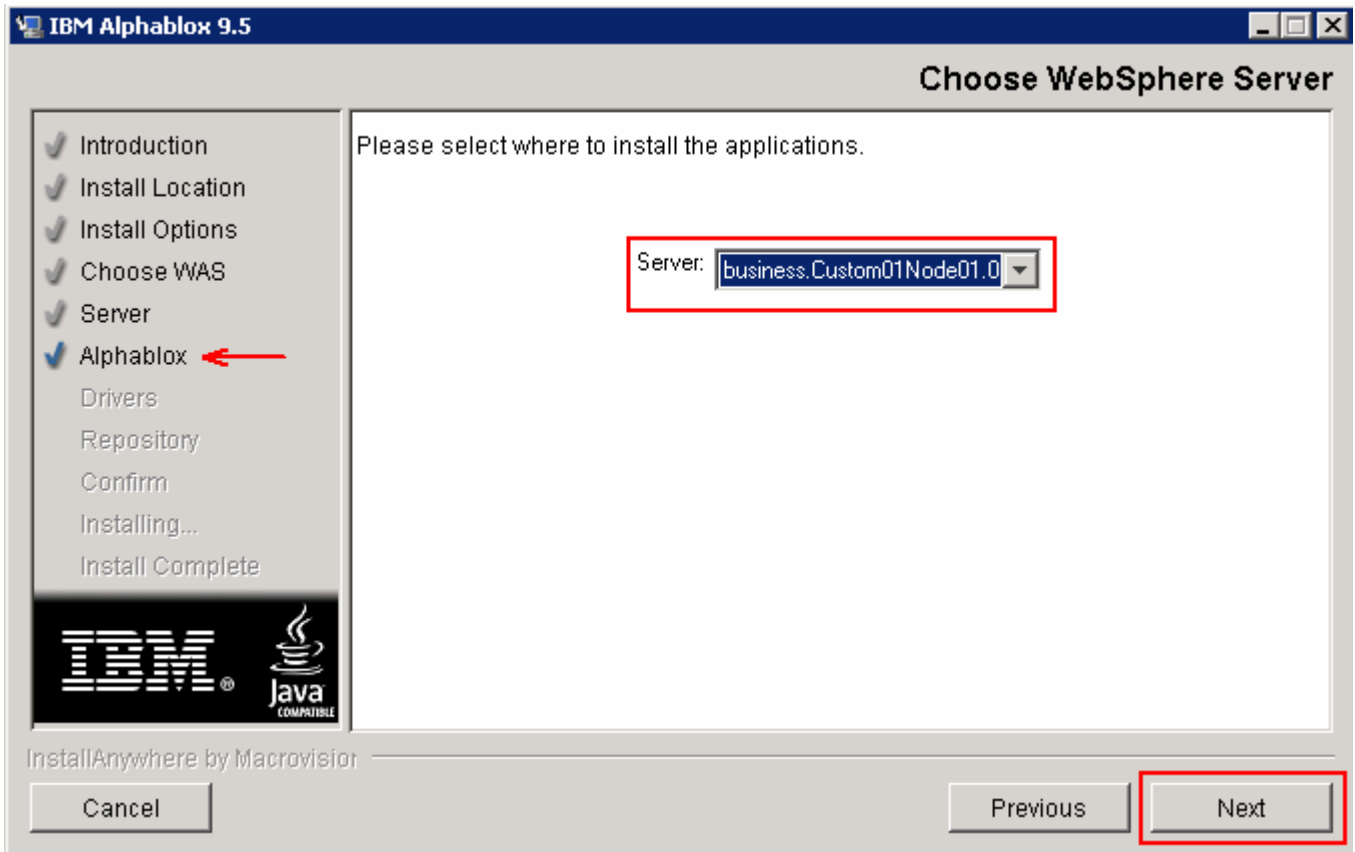


- ___ 12. Click **Next**
- ___ 13. The Alphablox installer reminds you to stop all the WebSphere processes at this time. Ensure that the Deployment Manager, all the cluster members, and all the Node Agents are stopped.
- ___ 14. Click **Next**
- ___ 15. Click **Browse** to select the WebSphere Root Directory (C:\IBM\WebSphere\MonServer) and select **Installing to a clustered server**

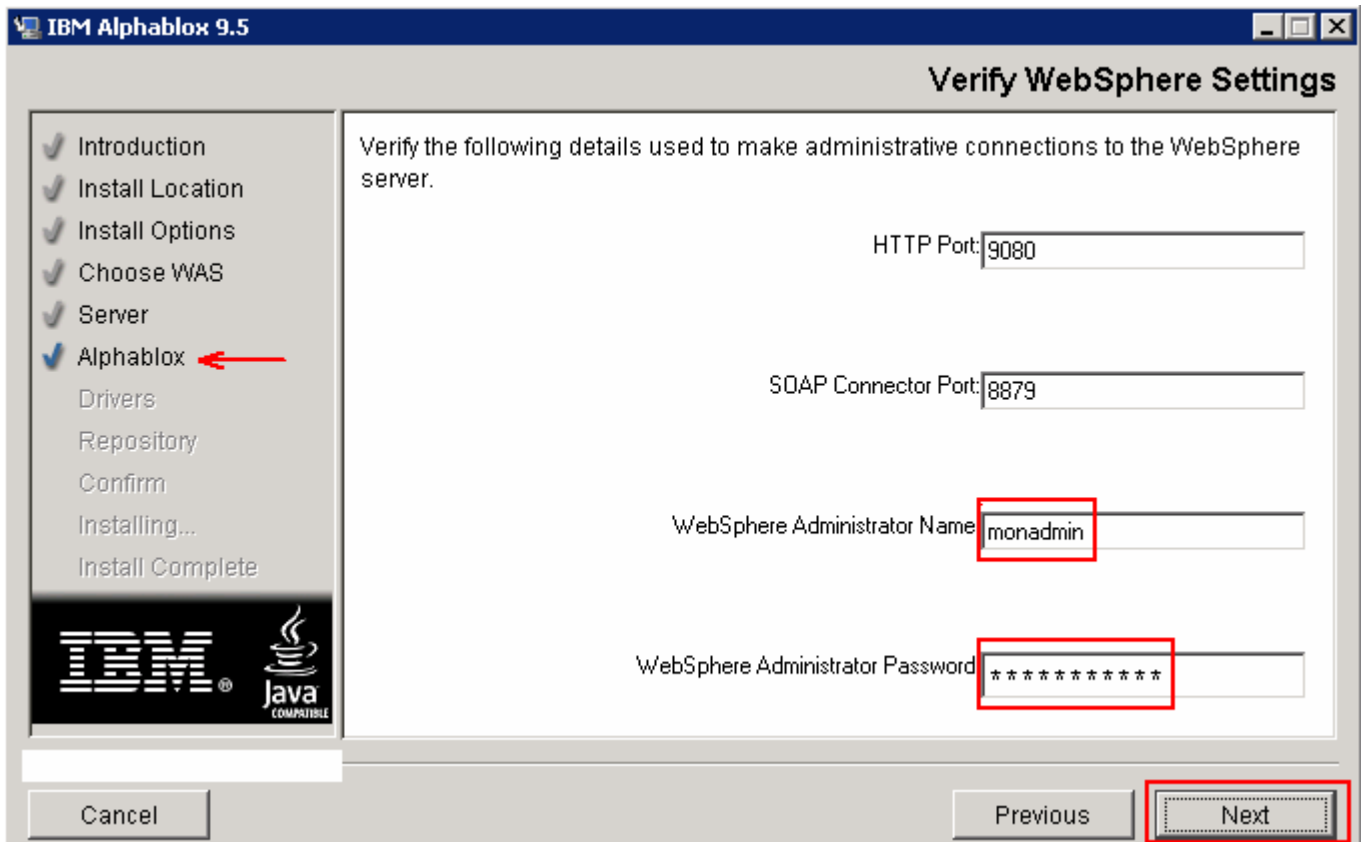


___ 16. Click **Next**

___ 17. Select the WebSphere cluster member. In this scenario it is **business.Custom01Node01.0**

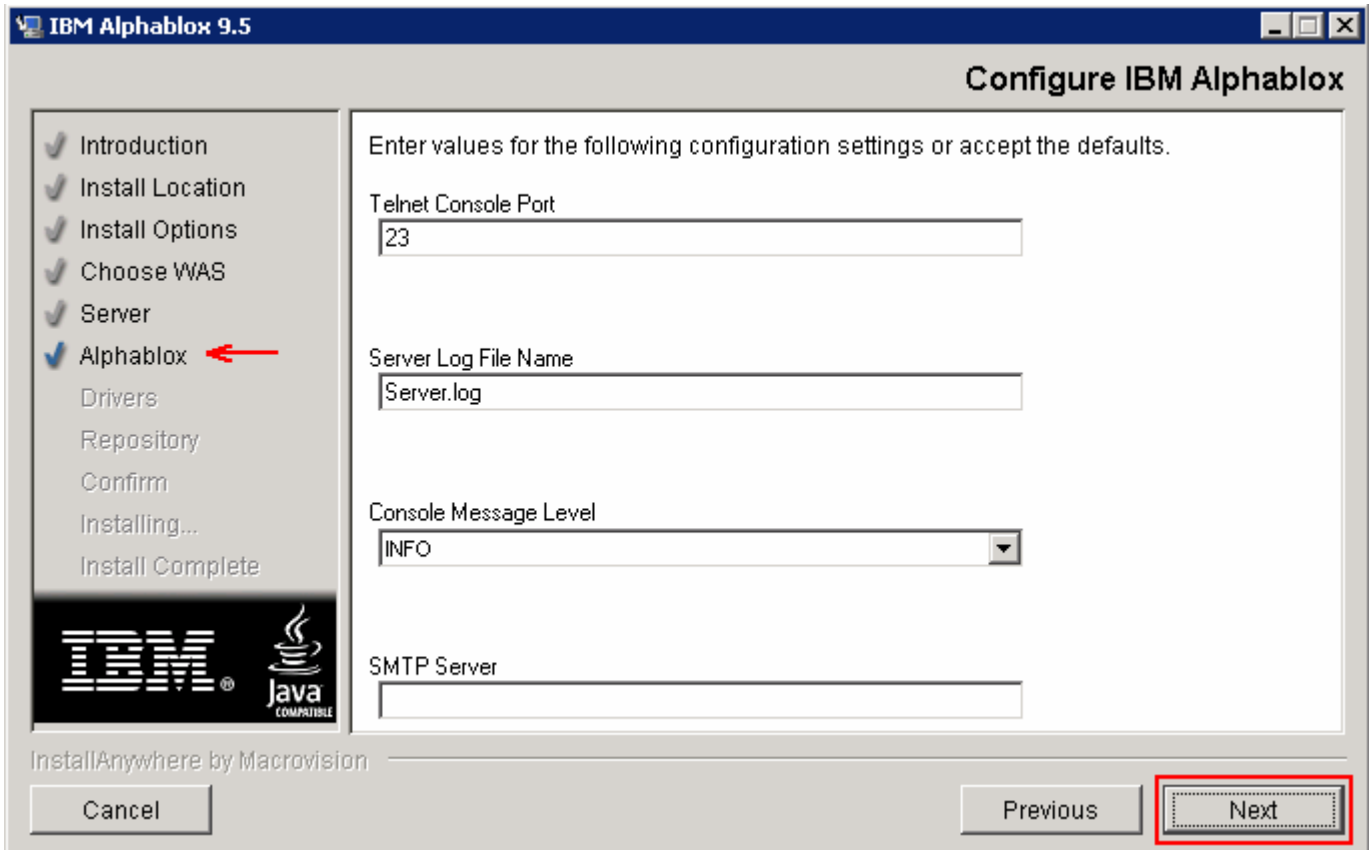


18. Click **Next**. At this time the Alphablox installer reads the configuration of the WebSphere server that you selected
- In the **Verify WebSphere Settings** window, use the default port values and enter `monadmin` as the **WebSphere Administrator Name** and enter `websphere` as the **WebSphere Administrator Password**.



___ 19. Click **Next**

___ 20. In the **Configure IBM Alphablox** window, leave the defaults or update as your environment demands

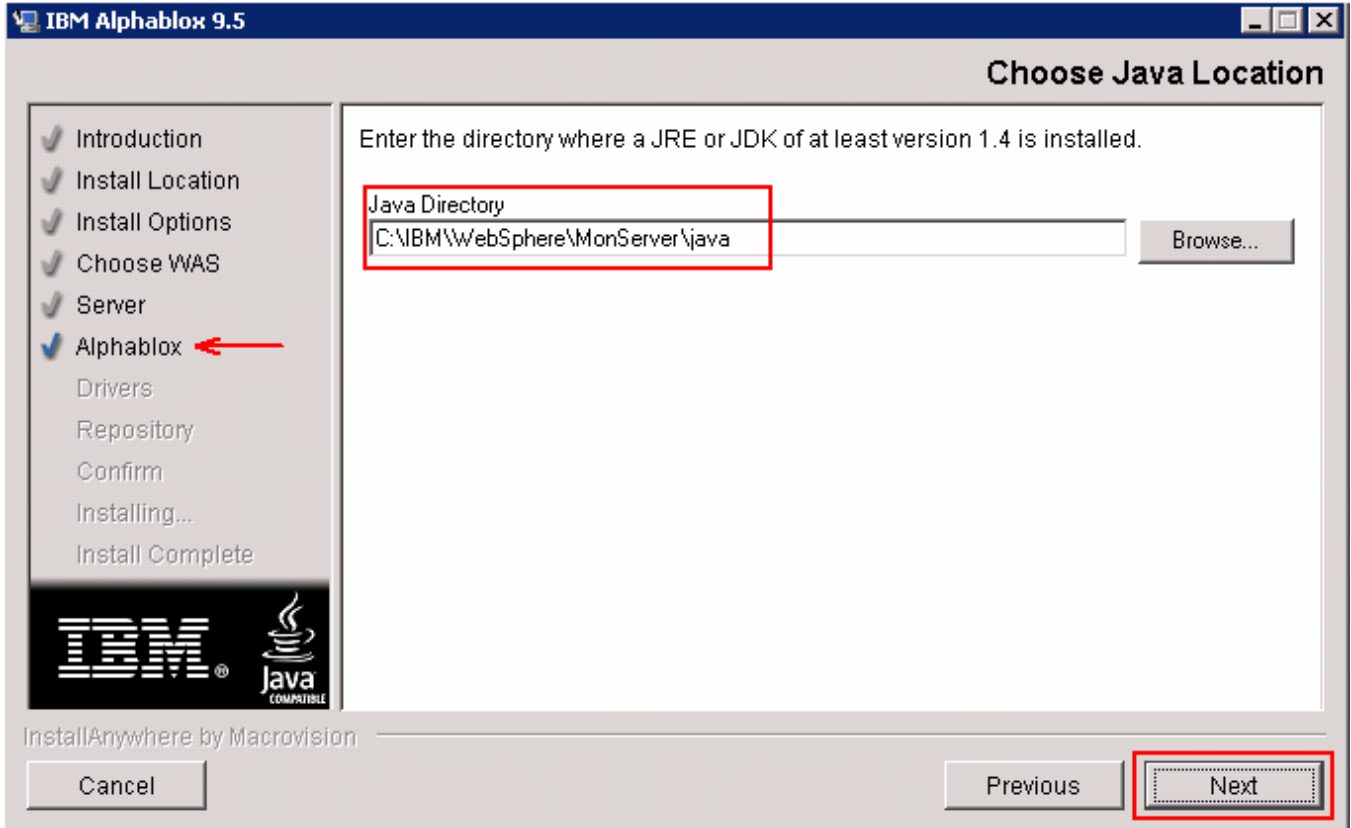


___ 21. Click **Next**

___ 22. In the Choose **Java Location window**, ensure the **Java Directory** is correct.

Default location : <MONITOR_HOME>\java

Example: C:\IBM\WebSphere\MonServer\java



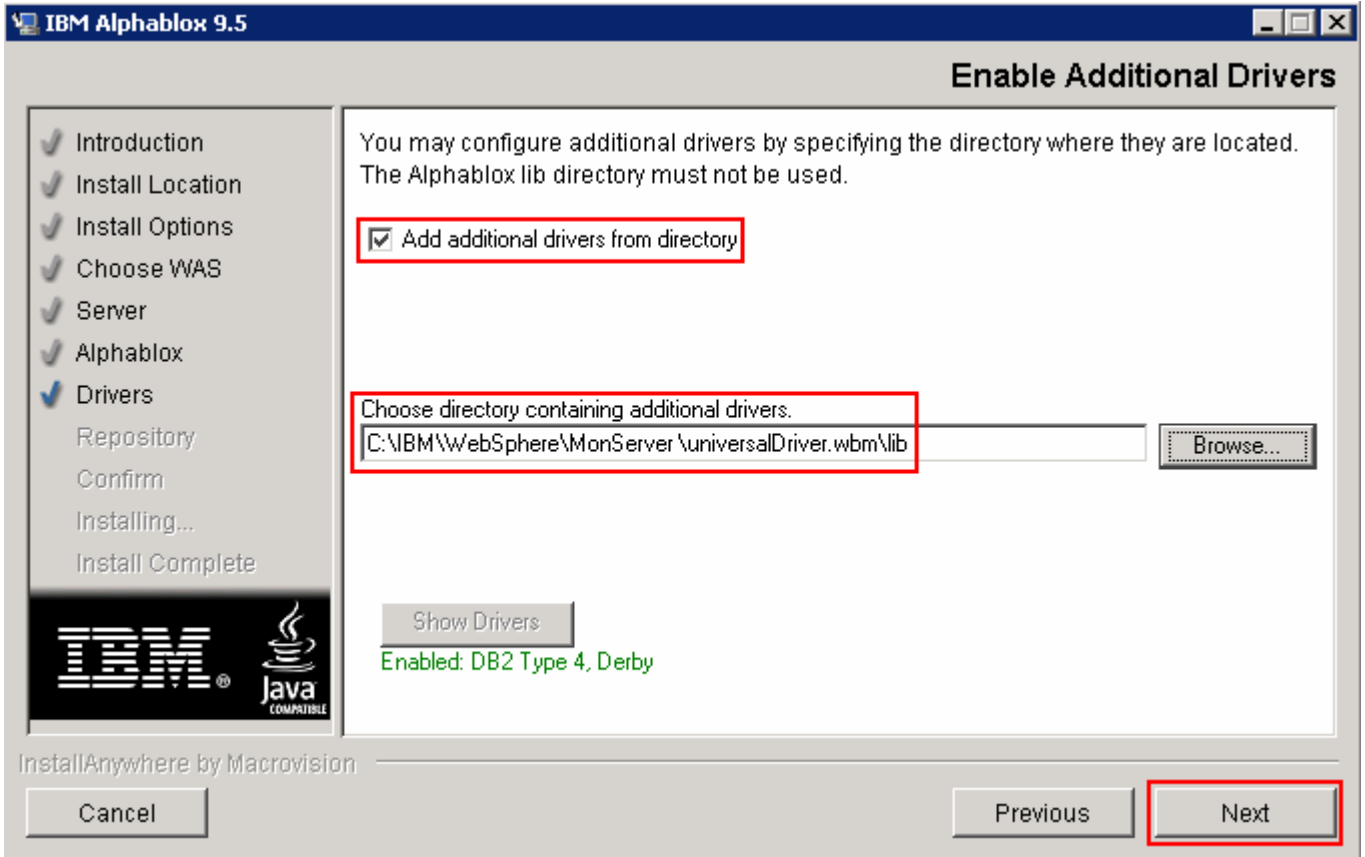
___ 23. Click **Next**

___ 24. In the **Enable Additional Drivers** window, enable the additional drivers as follows:

- Select the **Add additional drivers from directory** check box. This action enables you to choose an additional driver directory
- Click **Browse** for **Choose directory containing additional drivers** to select the DB2 drivers required to connect to the database
 - **<MONITOR_HOME>\universalDriver.wbm\lib**

Note: - If you do not have the database drivers on this machine, copy them to a temporary location and then click **Browse** to add them as additional drivers.

- Ensure the database drivers are enabled.



___ 25. Click **Next**

___ 26. In the **Configure Repository** window, configure the repository as follows:

Select **Database Repository**. This is required for a cluster configuration.

Database : DB2

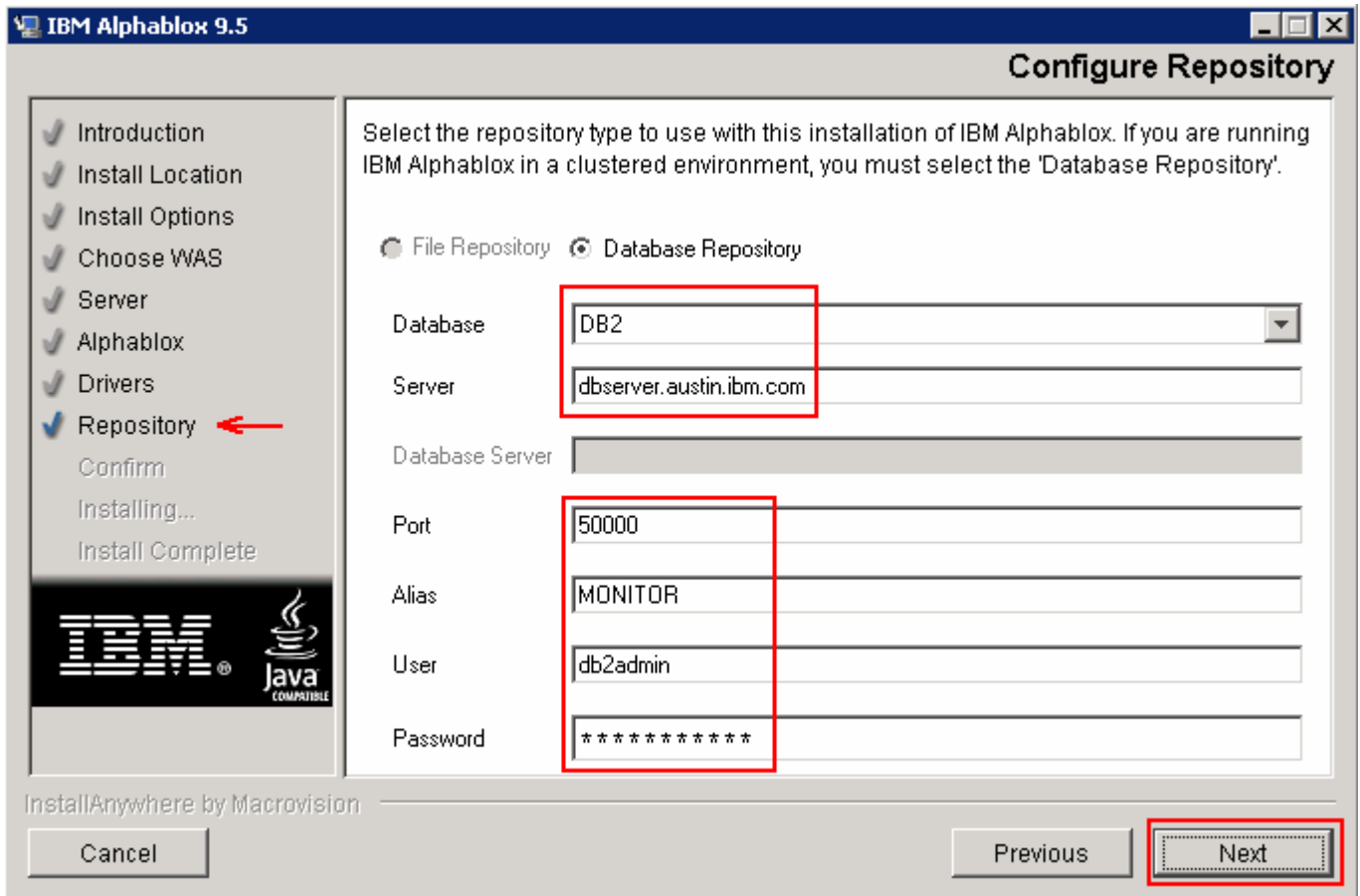
Server : dbserver.austin.ibm.com

Port : 50000

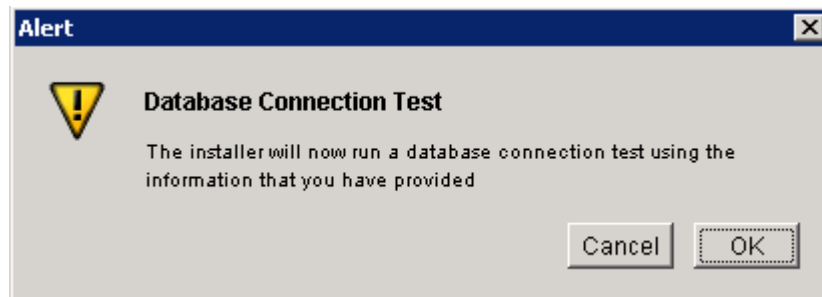
Alias : MONITOR

User : db2admin

Password : db2admin

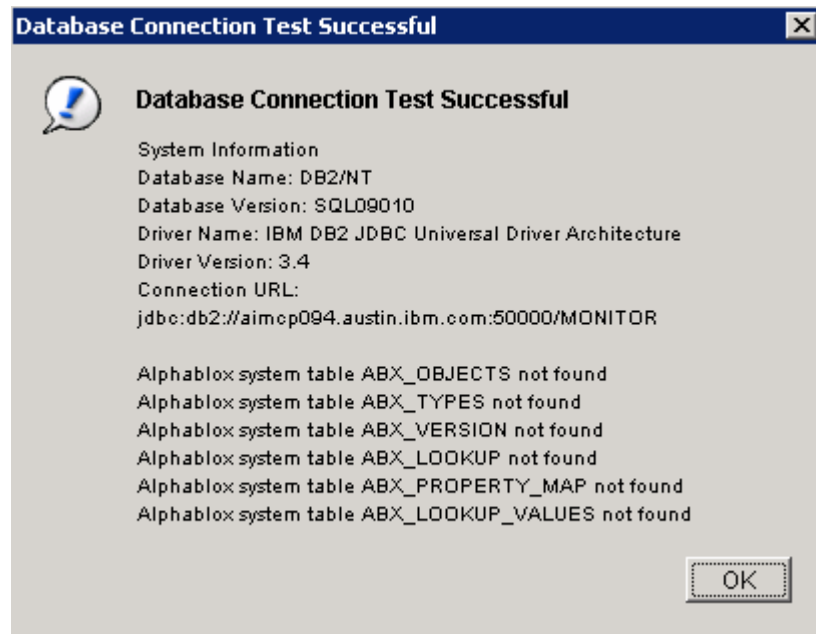


___ 27. Click **Next**



___ 28. Click **OK** to test connection to the database

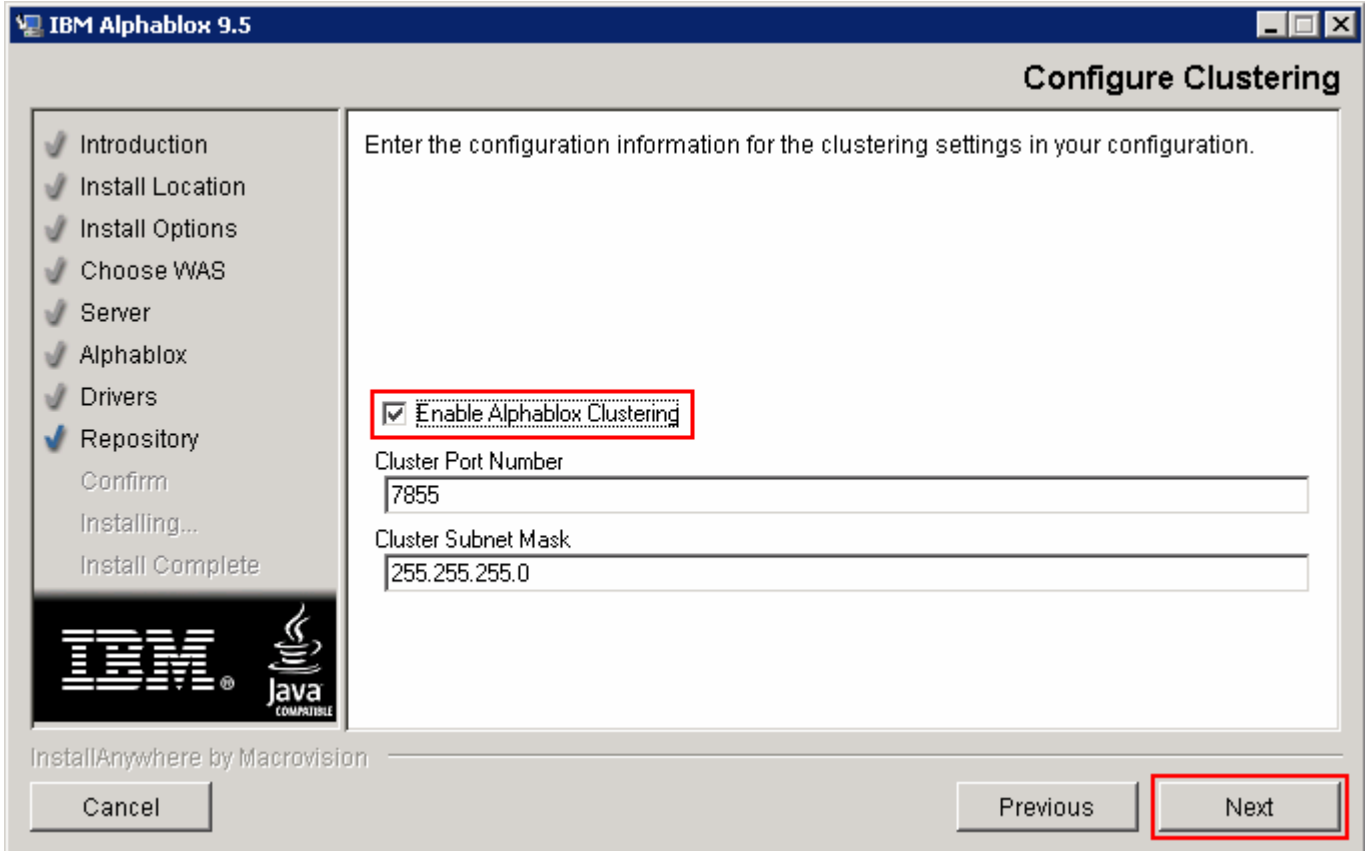
___ 29. Ensure the database connection is successful as shown below:



___ 30. Click **OK**

___ 31. In the **Configure Clustering** window, make changes as below:

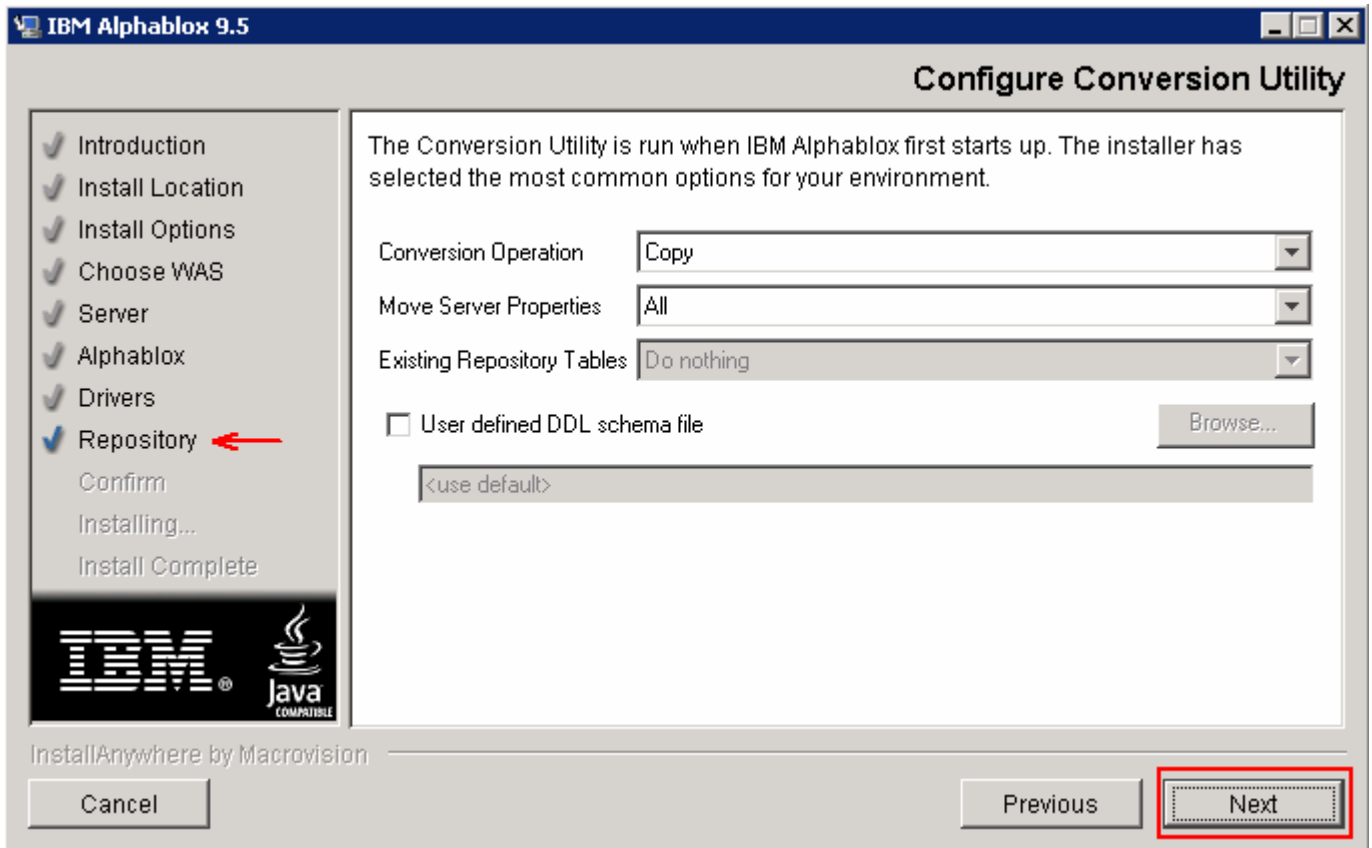
- Select **Enable Alphablox Clustering**
- **Cluster Port Number** : 7855 (Note: You can type a different port number)
- **Cluster Subnet Mask** : 225 . 225 . 225 . 0



___ 32. Click **Next**

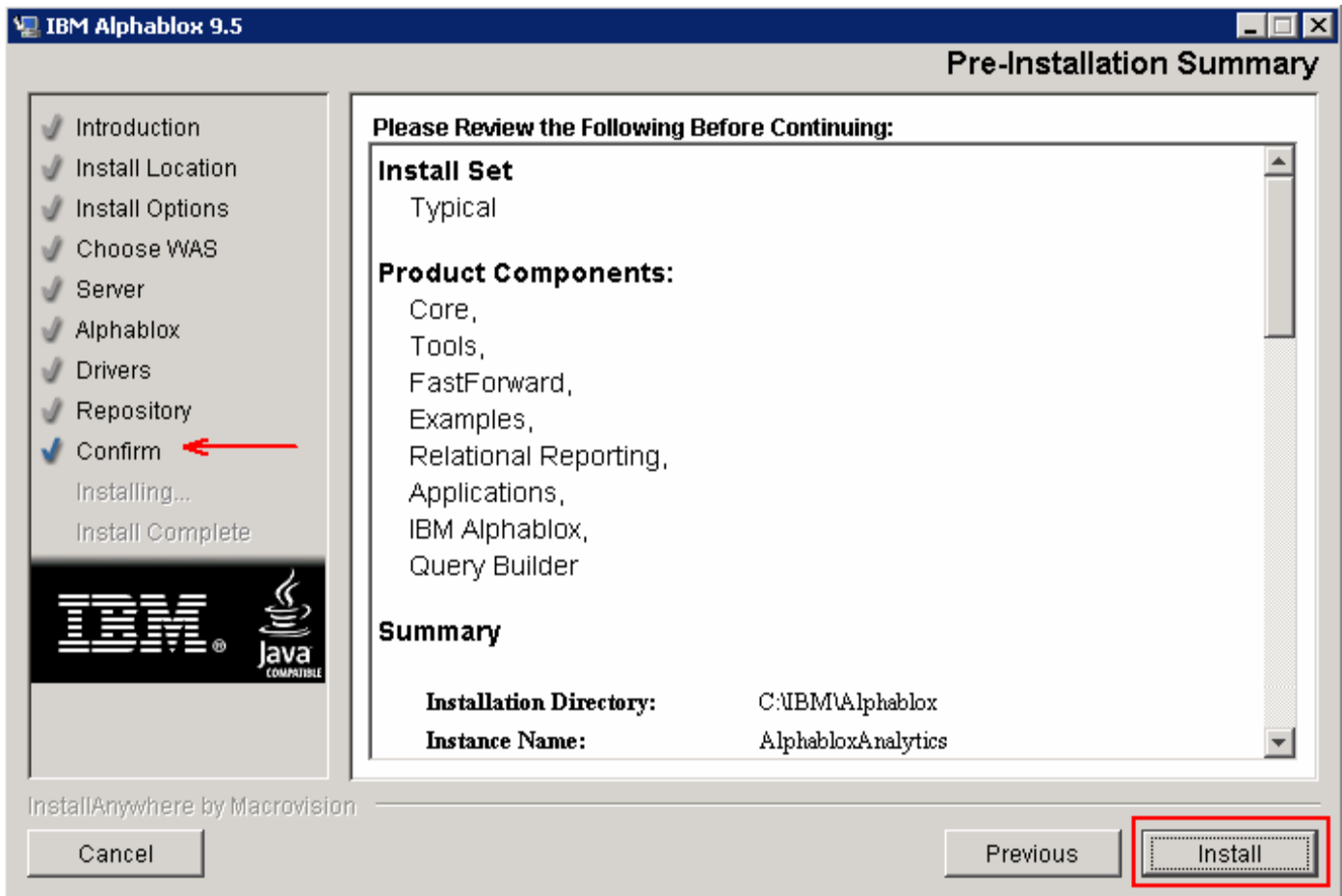
___ 33. In the Configure Conversion utility window, take the defaults as below:

Note : These defaults will be different for each subsequent node in the cluster.



___ 34. Click **Next**

___ 35. In the **Pre-Installation Summary** window, review the Alphablox installation summary



___ 36. Click **Install** to continue with the installation

___ 37. Click **Done** once the installation is complete

___ 38. Review the Alphablox installation logs (for example, C:\IBM\Alphablox)

Note: Repeat this installation for each Monitor custom node where business space is installed.

Part 3: Deploy the Alphablox libraries

In a clustered environment, you should manually deploy the Alphablox libraries to all the business space nodes in the WebSphere clustered environment. These libraries are required for Alphablox to start properly.

Pre-requisites:

- Ensure the Alphablox software is installed on all the business space nodes
- Ensure that Alphablox is installed in the same path on each node
- Start the Deployment Manager
- Start all the Node Agents
- Start all the business space cluster members

Complete the following instructions on any one of the nodes where Alphablox is installed.

___ 1. Open a command prompt and change directories to the following path:

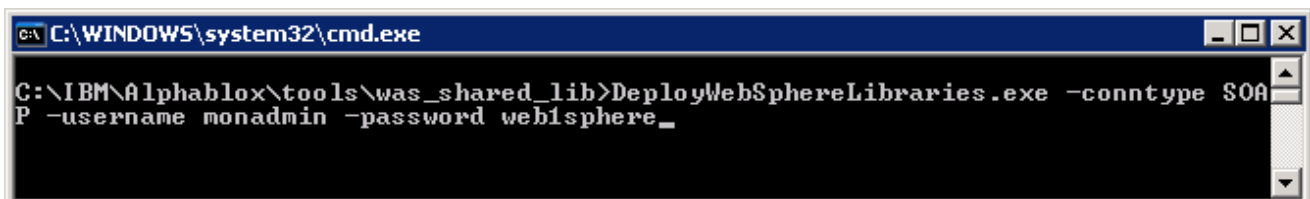
- `<ABX_HOME>\tools\was_shared_lib`

Example: `C:\IBM\WebSphere\MonServer\profiles\Custom01\Alphablox\tools\was_shared_lib`

___ 2. Start the DeployWebSphereLibraries utility as shown below:

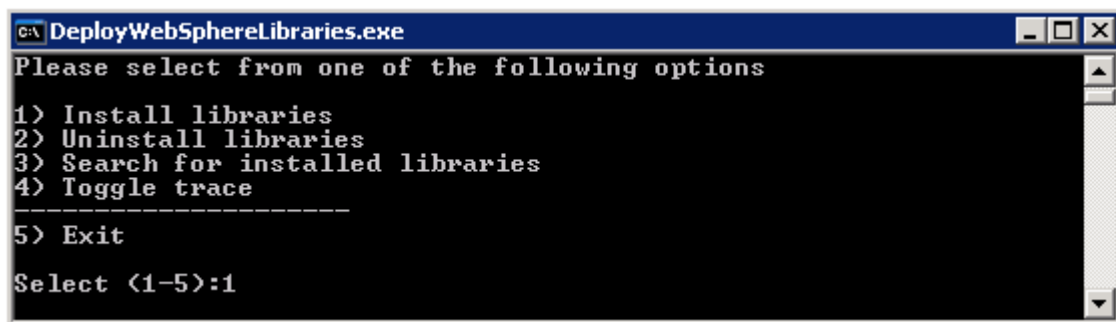
- `DeployWebSphereLibraries.exe -conntype SOAP -username <User_ID> -password <Password>`

Example: `DeployWebSphereLibraries.exe -conntype SOAP -username monadmin -password weblsphere`



```
C:\WINDOWS\system32\cmd.exe
C:\IBM\Alphablox\tools\was_shared_lib>DeployWebSphereLibraries.exe -conntype SOAP
P -username monadmin -password weblsphere_
```

___ 3. Press **Enter**



```
DeployWebSphereLibraries.exe
Please select from one of the following options
1) Install libraries
2) Uninstall libraries
3) Search for installed libraries
4) Toggle trace
-----
5) Exit
Select <1-5>:1
```

___ 4. Enter **1** for the option **Install libraries** and press **Enter**

```

C:\> DeployWebSphereLibraries.exe

Select the level you wish to deploy the libraries.

1) Cluster
2) Cell
3) Node
4) Server
-----
5) Back

Select <1-5>:1_

```

- ___ 5. Select **1** for the option **Cluster** and press **Enter**
- ___ 6. At this time, the utility connects to the wsadmin client and lists all the available clusters in the WebSphere cell as shown below:

```

C:\> DeployWebSphereLibraries.exe

Please Wait...
Please select the Cluster you wish to target.
1*) mon.Support(cells/mondmgrCell01/clusters/mon.Support!cluster.xml#ServerCluster_1228596538171)
2) mon.Messaging(cells/mondmgrCell01/clusters/mon.Messaging!cluster.xml#ServerCluster_1228596824484)
3) mon.Business(cells/mondmgrCell01/clusters/mon.Business!cluster.xml#ServerCluster_1228596661109)
4) mon.Models(cells/mondmgrCell01/clusters/mon.Models!cluster.xml#ServerCluster_1228596323546)
-----
5) Back

Select <1-5>:3_

```

- ___ 7. Enter the number corresponding to the cluster name for which you would like to deploy the libraries
- Example: 4 → 4) **mon.Business**
- ___ 8. Press **Enter**. This action lists all the cluster members associated with the cluster you chose, as shown below:

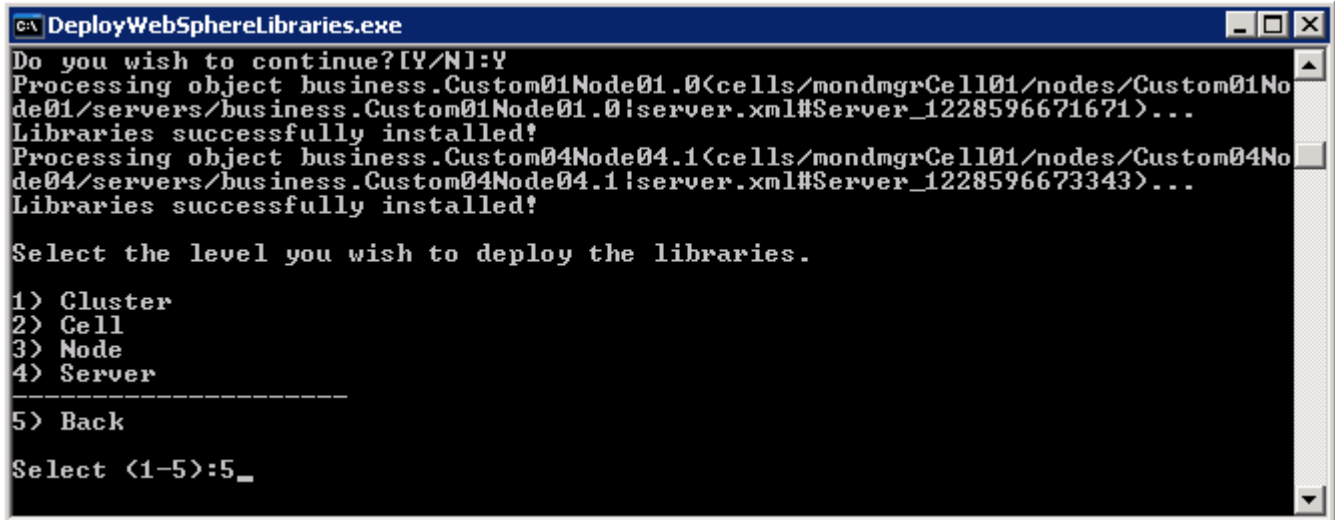
```

C:\> DeployWebSphereLibraries.exe

The following servers have been found:
business.Custom01Node01.0(cells/mondmgrCell01/nodes/Custom01Node01/servers/business.Custom01Node01.0!server.xml#Server_1228596671671)
business.Custom04Node04.1(cells/mondmgrCell01/nodes/Custom04Node04/servers/business.Custom04Node04.1!server.xml#Server_1228596673343)
Do you wish to continue?[Y/N]:Y_

```

- ___ 9. Type **Y** for Yes and press **Enter**
- ___ 10. The required libraries are deployed to all the nodes, as shown below:



```
C:\> DeployWebSphereLibraries.exe
Do you wish to continue?[Y/N]:Y
Processing object business.Custom01Node01.0(cells/mondmgrCell101/nodes/Custom01No
de01/servers/business.Custom01Node01.0!server.xml#Server_1228596671671)...
Libraries successfully installed!
Processing object business.Custom04Node04.1(cells/mondmgrCell101/nodes/Custom04No
de04/servers/business.Custom04Node04.1!server.xml#Server_1228596673343)...
Libraries successfully installed!

Select the level you wish to deploy the libraries.

1) Cluster
2) Cell
3) Node
4) Server
-----
5) Back

Select <1-5>:5_
```

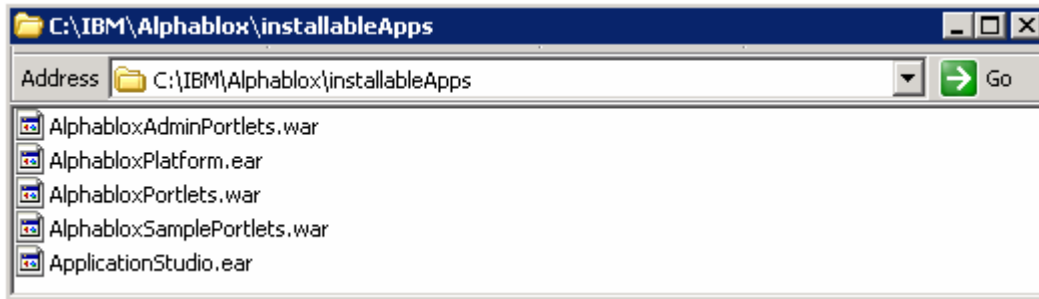
___ 11. Enter **5** to go back to main menu

___ 12. Enter **5** to exit the utility

Part 4: Installing the Alphablox Applications

In this part of the lab, you will install the AlphabloxPlatform and Alphablox Studio application using the administrative console of the deployment manager.

Note: The AlphabloxPlatform and Alphablox Studio applications are located on the custom node machines where you installed Alphablox. Example: - <ABX_HOME>\installableApps. Copy the applications to a temporary location on the deployment manager machine. For example: C:\temp\installableApps_ABX. Or you can use the remote file system option in the deployment manager when installing the applications and then navigate to the monitor custom node machine where you installed the Alphablox software.



Complete the following steps to install the AlphabloxPlatform application:

___ 1. Open the Administrative console of the deployment manager

- URL: http://<dmgr_hostname:port>/admin

Example: <http://localhost:9060/admin>

___ 2. In the left navigation pane of the administrative console, expand **Applications** and click **Install New Applications**

___ 3. In **Preparing for the application installation** window, complete the following steps:

___ a. Select the **Local file system** check box and then click **Browse** for 'Full Path' to locate the **AlphabloxPlatform.ear** file

Note: If you have not copied the Alphablox applications to the deployment manager machine, select the **Remote file system** radio button and follow the instructions from the administrative console.

___ b. Select the **Show me all installation options and parameters** radio button

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

Remote file system

Full path

Context root
 Used only for standalone Web modules (.war files) and SIP modules (.sar files)

How do you want to install the application?

Prompt me only when additional information is required.

Show me all installation options and parameters.

___ c. Click **Next**

___ 4. In the following panel, accept the defaults and click **Next**

___ 5. In **Step 1: Select installation options**, accept the defaults and click **Next**

___ 6. In **Step 2: Map modules to servers**, complete the following steps:

___ a. From the **Clusters and Servers** list, select the cluster where the Alphablox server is installed

Note: If you have a Web Server configured in the environment, you must select the Web Server listed along with the cluster

___ b. Select all the check boxes next to all the modules listed

___ c. Click **Apply**

___ d. Ensure the cluster you selected is associated with all the modules in the **Server** column as shown below:

Note: If had selected a Web Server, you should also see the name of the Web Server bound to the modules along with the name of the cluster you selected.

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 Initialize parameters for servlets

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

Step 7 Map context roots for Web modules

Step 8 Map security roles to users or groups

Step 9 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=aimcp098Cell01,cluster=mon.Business
WebSphere:cell=aimcp098Cell01,cluster=default.Support
WebSphere:cell=aimcp098Cell01,cluster=default.Messaging
WebSphere:cell=aimcp098Cell01,cluster=default.AppTarget
WebSphere:cell=aimcp098Cell01,cluster=mon.Support
```

Apply

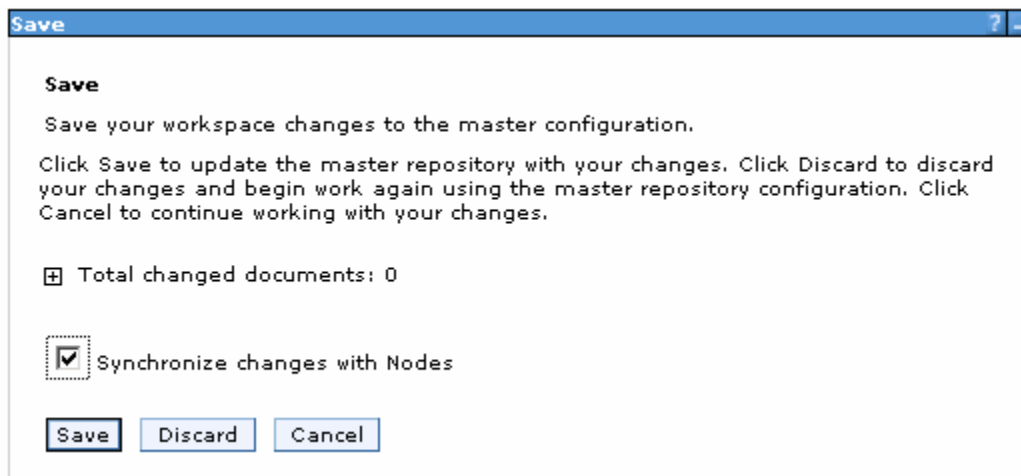
Select	Module	URI	Server
<input checked="" type="checkbox"/>	IBM Alphablox Administration Application	AlphabloxAdmin.war,WEB-INF/web.xml	WebSphere:cell=aimcp098Cell01,cluster=mon.Business
<input checked="" type="checkbox"/>	IBM Alphablox	AlphabloxServer.war,WEB-INF/web.xml	WebSphere:cell=aimcp098Cell01,cluster=mon.Business
<input checked="" type="checkbox"/>	IBM Alphablox Blox Builder Web Service	AlphabloxTooling.war,WEB-INF/web.xml	WebSphere:cell=aimcp098Cell01,cluster=mon.Business
<input checked="" type="checkbox"/>	IBM Alphablox BloxBuilder Application Viewer	BloxBuilder.war,WEB-INF/web.xml	WebSphere:cell=aimcp098Cell01,cluster=mon.Business

Previous Next Cancel

- ___ 7. Click **Next**
- ___ 8. In **Step 3: Provide JSP reloading options for Web modules**, accept the defaults and click **Next**
- ___ 9. In **Step 4: Map shared libraries**, accept the defaults and click **Next**
- ___ 10. In **Step 5: Initialize parameters for servlets**, accept the defaults and click **Next**
- ___ 11. In **Step 6: Map virtual hosts for Web modules**, ensure **default_host** is selected for **Virtual Host** for all the modules listed and click **Next**
- ___ 12. In **Step 7: Map context roots for Web modules**, accept the defaults and click **Next**
- ___ 13. In **Step 8: Map security roles to users or groups**, complete the following steps:
 - ___ a. Select the **AlphabloxAdministrator** check box and **AlphabloxUser** check box and then click **Look up users**. In the next panel, search for the user you like to use and then select the user. Click **OK**
 - ___ b. Select the check box under **All Authenticated?** for the **AlphabloxDeveloper** role

Look up users		Look up groups			
Select	Role	Everyone?	All authenticated?	Mapped users	Mapped groups
<input type="checkbox"/>	AlphabloxAdministrator	<input type="checkbox"/>	<input type="checkbox"/>	businessmgr	
<input type="checkbox"/>	AlphabloxUser	<input type="checkbox"/>	<input type="checkbox"/>	businessmgr	
<input type="checkbox"/>	AlphabloxDeveloper	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

- ___ 14. Click **Next**
- ___ 15. In **Step 9: Summary**, review the summary and click **Finish**
- ___ 16. Once the installation is complete, click **Save** to save the changes to the master configuration
- ___ 17. **Repeat steps 2 through 16**, to install the **AlphabloxStudio** application
- ___ 18. Synchronize the changes with the Nodes
 - ___ a. In the left navigation pane, expand **System Administration** and then click **Save Changes to the Master Repository**
 - ___ b. Select **Synchronize changes with the Nodes**.



- ___ c. Click **Save**
- ___ 19. Set the **Startup Order** as 1000 for the **AlphabloxPlatform** application. This will help ensure that the AlphabloxPlatform application starts after all other applications have loaded
 - ___ a. In the left navigation pane of the administrative console, expand **Applications** and click the **Enterprise Applications**
 - ___ b. In the **Enterprise Applications** section, click **AlphabloxPlatform**
 - ___ c. In the following panel, click **Startup behavior** under the **Detailed Properties** section
 - ___ d. In the following panel, enter 1000 as the **Startup Order**

General Properties

* Startup order

1000

Launch application before server completes startup

Create MBeans for resources

Apply

OK

Reset

Cancel

___ e. Click **OK**

___ f. Save to the master configuration and then synchronize changes with the nodes

___ 20. Stop the cluster members.

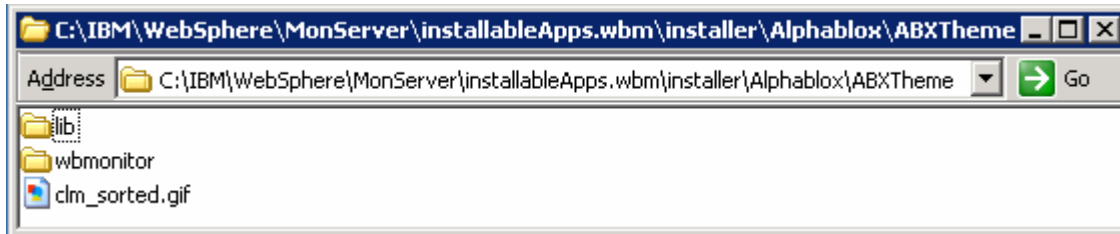
___ 21. Now start one cluster member first. This allows Alphablox to create all necessary repository objects in the database.

___ a. Verify the WebSphere logs and ensure that there are no errors related to Alphablox. Also verify that Alphablox is started successfully.

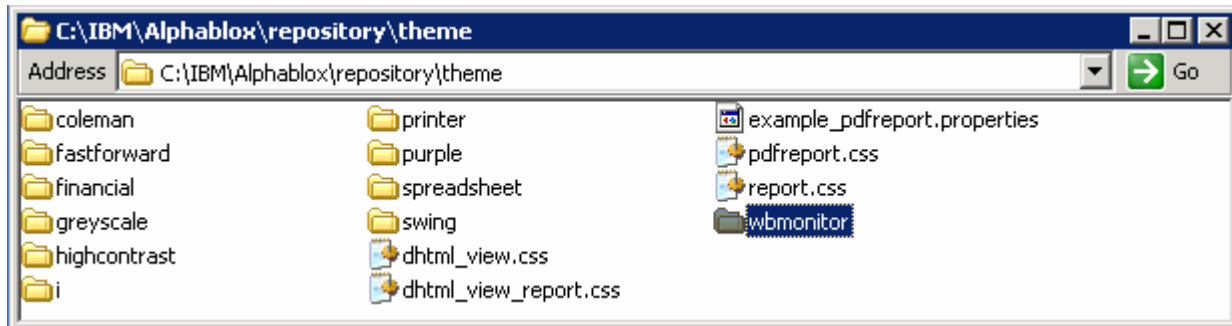
___ 22. Now start the remaining cluster members and ensure that the Alphablox instances are started successfully

Part 5: Post installation configuration for Monitor

- ___ 1. Manually deploy the Monitor theme to each Alphablox node.
- ___ a. On the monitor custom node containing Alphablox, navigate to the following location:
- **<MONITOR_HOME>\installableApps.wbm\installer\Alphablox\ABXTheme**



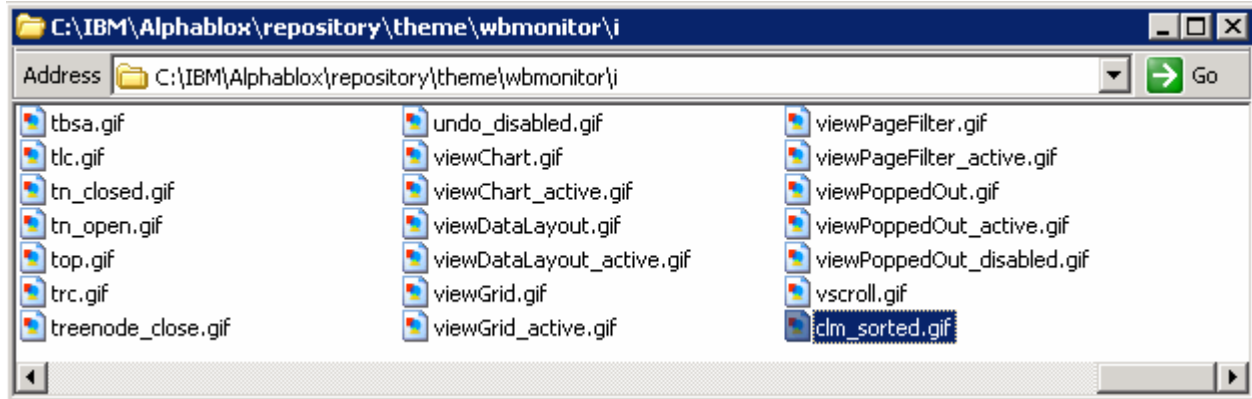
- ___ b. Copy the **wbmonitor** directory to **<ABX_HOME>\repository\theme**



- ___ c. Now the copy the **clm_sorted.gif** to the monitor theme. Follow the instructions below:

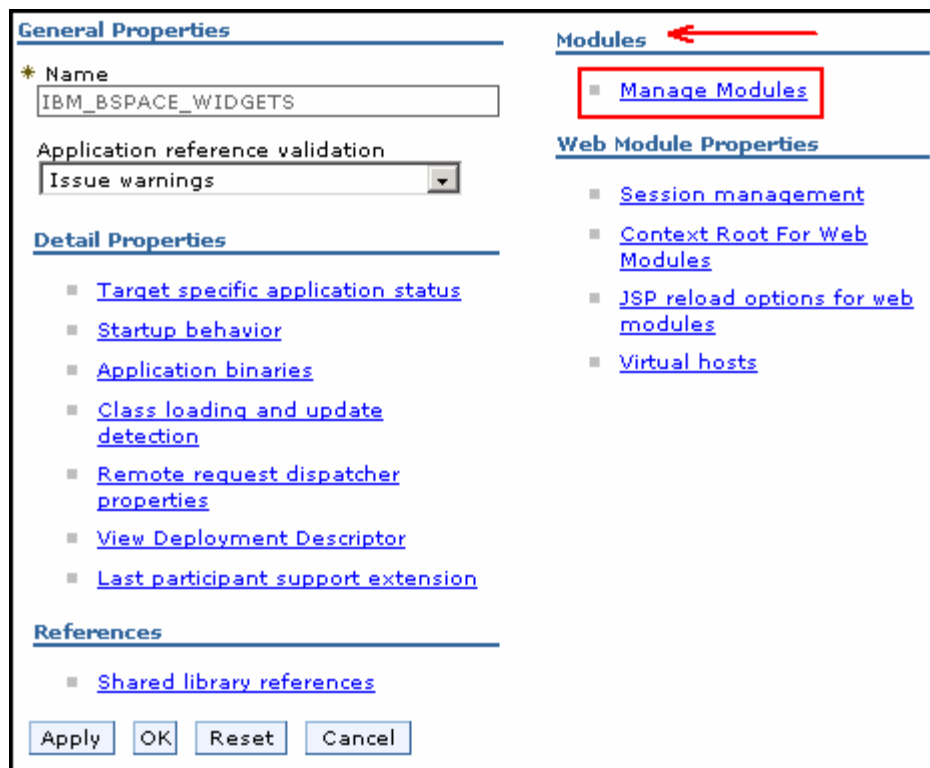
The **clm_sorted.gif** is required for proper presentation of the Reports and Dimensions widgets. If you change the theme for Alphablox in the future, you must copy this image to the directory. To prevent this issue, you can copy **clm_sorted.gif** to each theme that you have in your Alphablox installation directory.

- 1) Navigate back to **<MONITOR_HOME>\installableApps.wbm\installer\Alphablox\ABXTheme**
- 2) Copy the **clm_sorted.gif** file
- 3) Now navigate to **<ABX_HOME>\repository\theme\wbmonitor\i**



Note: If you are using a theme other than **wbmonitor**, ensure you copy the **clm_sorted.gif** file to the 'i' directory of that theme

- ___ d. Repeat this section for the other Alphablox nodes.
- ___ 2. Enable the Alphablox application to start automatically by completing the following steps on the deployment manager:
 - ___ a. Log in to the WebSphere Business Monitor administrative console on the deployment manager
 - ___ b. In the navigation panel, click **Applications** → **Enterprise Applications**
 - ___ c. Click **IBM_BSPACE_WIDGETS** listed Enterprise Application panel
 - ___ d. In the next panel, under **Modules**, click **Manage Modules**



___ e. In the next panel, click **Dashboard.ABX**. This module name corresponds to the **WBMDashboardWeb.war** file

Select	Module	URI
<input type="checkbox"/>	IBM BSPACE WIDGETS FABRIC	BSpaceWidgetsFabric.war,WEB-INF/web.xml
<input type="checkbox"/>	IBM BSPACE WIDGETS PROCESS SERVER	BSpaceWidgetsProcessServer.war,WEB-INF/web.xml
<input type="checkbox"/>	IBM BSPACE WIDGETS COMMON	BSpaceWidgetsCommon.war,WEB-INF/web.xml
<input type="checkbox"/>	IBM BSPACE WIDGETS PUB SERVER	BSpaceWidgetsPubServer.war,WEB-INF/web.xml
<input type="checkbox"/>	IBM BSPACE WIDGETS FORMS	BSpaceWidgetsForms.war,WEB-INF/web.xml
<input type="checkbox"/>	WBMDashboard	WBMDashboardWeb.war,WEB-INF/web.xml
<input type="checkbox"/>	Dashboard.ABX	WBMDashboardABX.war,WEB-INF/web.xml
<input type="checkbox"/>	IBM BSPACE WIDGETS VISUAL STEP	BSpaceWidgetsVisualStep.war,WEB-INF/web.xml
<input type="checkbox"/>	Health Monitor	hmwidget.war,WEB-INF/web.xml
<input type="checkbox"/>	Security Manager Widgets	SecurityManagerWidgets.war,WEB-INF/web.xml
<input type="checkbox"/>	BusinessCalendarMqrApp	bcmgr.war,WEB-INF/web.xml

___ f. In the next panel, under **Additional Properties**, click **Target specific application status**

General Properties

* URI

Alternate deployment descriptor

* Starting weight

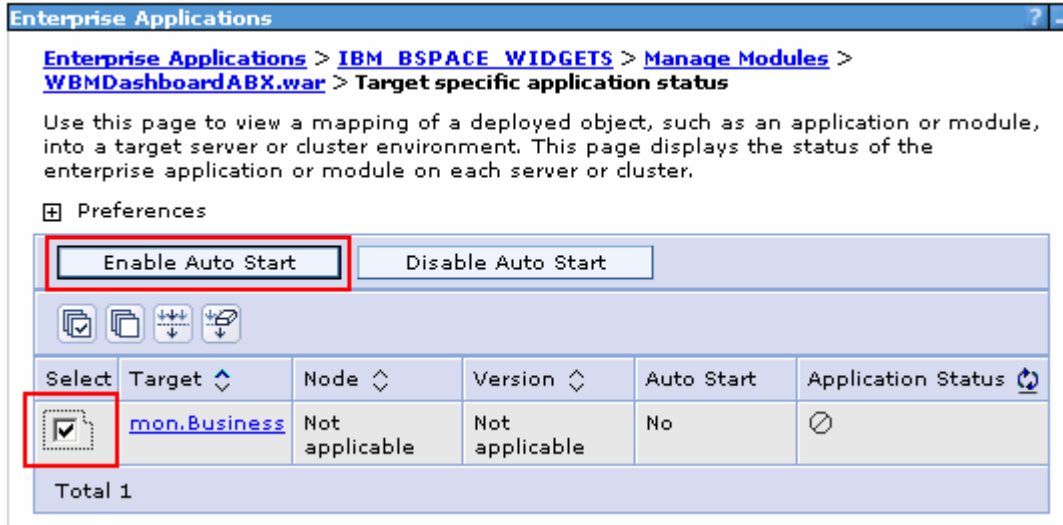
* Class loader order

Apply OK Reset Cancel

Additional Properties ←

- [View Module Class Loader](#)
- **Target specific application status**
- [View Deployment Descriptor](#)
- [View Portlet Deployment Descriptor](#)
- [Session Management](#)
- [Web Module Proxy Configuration](#)

___ g. In the next panel, select the check box for **mon.Business** cluster



___ h. Click **Enable Auto Start**

___ i. Save to the master configuration. Synchronize changes to the nodes

___ 3. Configure the WebSphere Business Monitor data sources for each Alphablox node

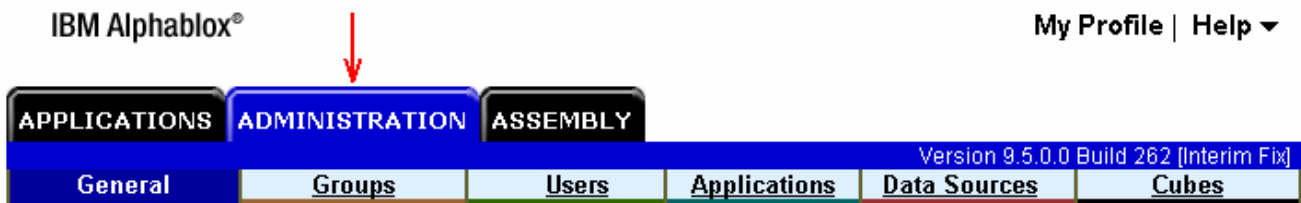
___ a. Launch the Alphablox administrative home for an Alphablox node

- URL: http://<server_hostname:port>/AlphabloxAdmin/home

Example: <http://business.austin.ibm.com:9082/AlphabloxAdmin/home>

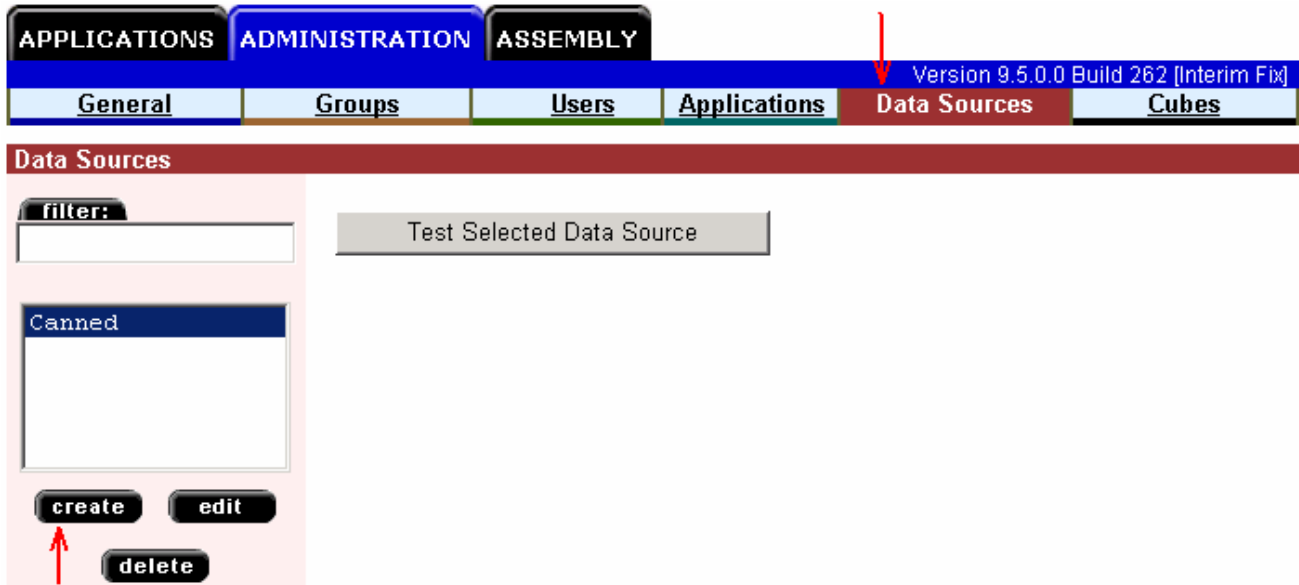
___ b. Enter the **username** and **password** : monadmin/websphere

___ c. Click **OK**



___ d. Select the **ADMINISTRATION** tab as shown above

___ e. Click **Data Sources**



__ f. Click **Create**

__ g. In the **Create Data Source** section, enter the following

- 1) **Data Source name** : MONITOR
- 2) **Adapter** : Application Server Data Source
- 3) **Application Server Data Source Name**: jdbc/wbm/MonitorDatabase
- 4) **Default Username** : db2admin
- 5) **Default Password** : db2admin
- 6) Accept the existing values for the remaining properties

Data Sources

filter:

Create Data Source

Data Source Name: MONITOR

Description:

Adapter: Application Server Data Source

Application Server Data Source Name: jdbc/wbm/MonitorDatabase

Default Username: db2admin

Default Password:

Use IBM Alphablox Username and Password: No

Maximum Rows: 10000

Maximum Columns: 1000

SAVE **CANCEL**

__ h. Click **Save**

Data Sources

filter:

Canned

MONITOR

Test Selected Data Source

create **edit**

delete

__ i. Now select the **MONITOR** data source and then click **Test Selected Data Source**

Test MONITOR Data Source Connection

Connection to the MONITOR data source was successful!

Connected in: 0m 1s 235ms

Connected as user: db2admin

Close

__ j. Ensure the connection to the MONITOR data source was successful. Click **Close**

__ k. While the **ADMINISTRATION** tab is selected, click **Data Sources**

__ l. Click **Create** to create another data source

__ m. In the **Create Data Source** section, enter the following

- **Data Source Name** : MONITOR_CUBE
- **Adapter** : Alphablox Cube Server Adapter
- **Maximum Rows** : 1000
- **Maximum Columns** : 1000

Create Data Source

Data Source Name

Description

Adapter

Maximum Rows

Maximum Columns

SAVE **CANCEL**

__ n. Click **Save**

__ o. Now, select the **MONITOR_CUBE** data source and then click **Test Selected Data Source**

Data Sources

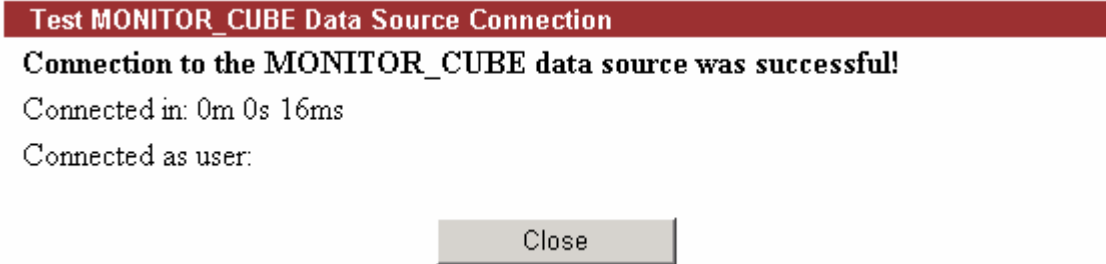
filter:

Canned
MONITOR
MONITOR_CUBE

create **edit**

delete

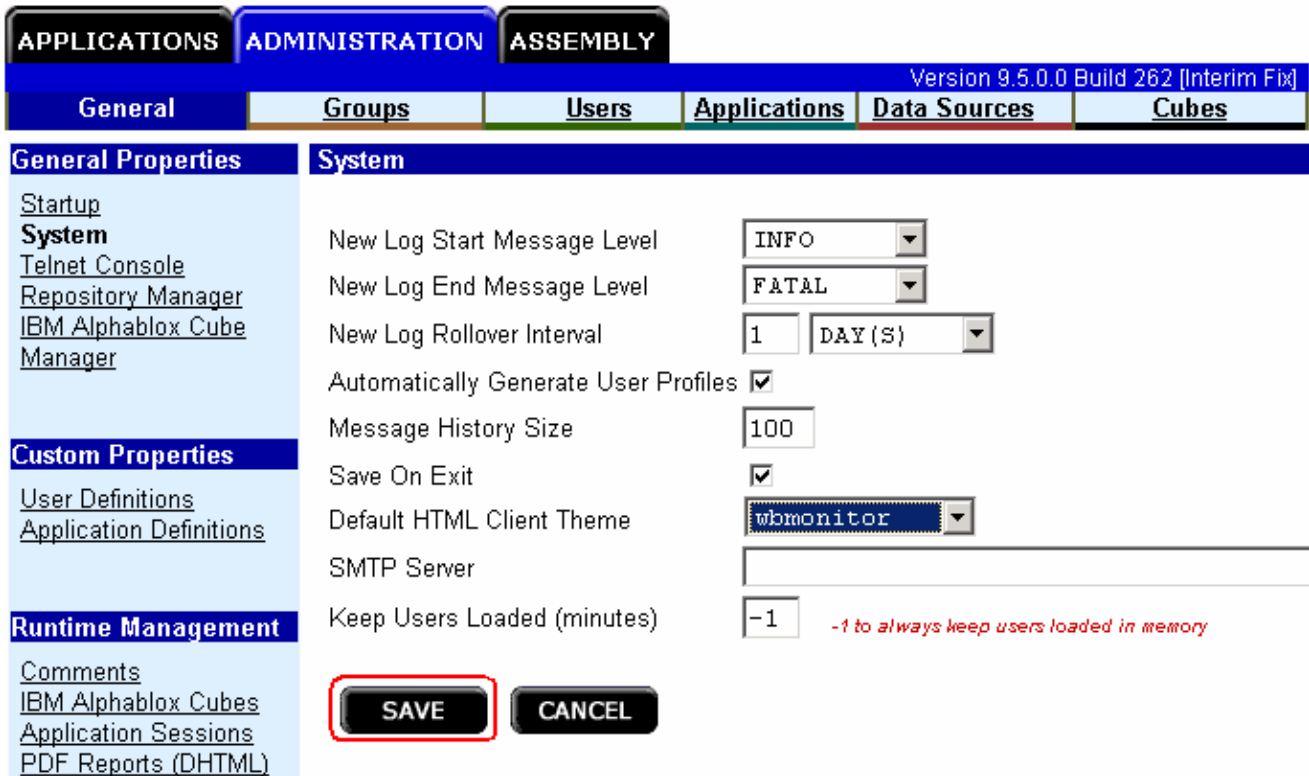
Test Selected Data Source



__ p. Click **Close**

Note: Repeat this section for all Alphablox nodes.

- ___ 4. Now, restart the cluster members
- ___ 5. Set the **wbmonitor** theme for each Alphablox node
 - __ a. Login to the Alphablox administrative home
 - __ b. Select the **General** tab
 - __ c. Click **System** under the **General Properties** section



__ d. Select **wbmonitor** from the **Default HTML Client Theme** drop down

__ e. Click **Save**

__ f. Repeat this for each Alphablox node.

What you did in this exercise

In this lab you installed Alphablox into the existing Monitor custom nodes where business space is installed. You deployed the Alphablox libraries to the nodes, and installed the Alphablox applications using the deployment manager. You also installed the Monitor theme into the Alphablox nodes, set autostart behavior for Alphablox, and identified the Monitor data sources to the Alphablox nodes.