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

🗁 C:\IBM\WebSphere\MonServer\installableApps.wbm\installer\Alphablox	_ 🗆 🗵
Address 🛅 C:\IBM\WebSphere\MonServer\installableApps.wbm\installer\Alphablox 🗾	🔁 Go
ABXTheme Mainstall.exe responsefile.abx.tmp	

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

🖫 IBM Alphablox 9.5	
	Choose Instance Name and Location
 Introduction Install Location Install Options Choose WAS 	Enter the Instance Name for IBM Alphablox (the default is AlphabloxAnalytics) and choose the directory to which IBM Alphablox will be installed. If you choose a directory in which an existing version of IBM Alphablox is installed, the installation process will guide you through an upgrade to IBM Alphablox.
Server Alphablox Drivers Repository	Server Instance Name AlphabloxAnalytics
Confirm Installing Install Complete	Destination Directory C:\IBM\Alphablox Browse
InstallAnywhere by Macrovisi Cancel	on Previous Next

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

🖳 IBM Alphablox 9.5	
	Choose Application Server
 Introduction Install Location Install Options Choose WAS Server Alphablox Drivers Repository Confirm Installing Install Complete 	Choose an Application Server to use with IBM Alphablox.
InstallAnywhere by Macrovisio	Previous Next

- ____ 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

🖳 IBM Alphablox 9.5		
	Config	ure WebSphere
 Introduction Install Location Install Options 	Enter the WebSphere Application Server Directory. NOTE: For clustered servers, required applications must be manua post-installation steps in the Installation Guide.	lly deployed. See
🚽 Choose WAS	WebSphere Root Directory	
🚽 Server	C:\IBM\WebSphere\MonServer	Browse
🚽 Alphablox < 🗕		
Drivers		
Repository		
Confirm		
Installing		
Install Complete		
	✓ Installing to a clustered server	
InstallAnywhere by Macrovisio	n	
Cancel	Previous	Next

- _____16. Click Next
- 17. Select the WebSphere cluster member. In this scenario it is **business.Custom01Node01.0**

ر 🖳	BM Alphablox 9.5	
_		Choose WebSphere Server
	Introduction Install Location Install Options Choose WAS Server Alphablox Drivers Repository Confirm Installing Install Complete	Please select where to install the applications. Server: business.Custom01Node01.0
Ins	tallAnywhere by Macrovisit Cancel	Previous Next

- 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 weblsphere as the WebSphere Administrator Password.

🖫 IBM Alphablox 9.5	
	Verify WebSphere Settings
Introduction	Verify the following details used to make administrative connections to the WebSphere server.
Install Options	HTTP Port 9080
Server Alphablay	
Drivers	SOAP Connector Port: 8879
Repository Confirm Installing Install Complete	WebSphere Administrator Name monadmin
	WebSphere Administrator Password
Cancel	Previous
19. Click Next	

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

🖳 IBM Alphablox 9.5	
	Configure IBM Alphablox
Introduction Install Location Install Options Choose WAS Server	Enter values for the following configuration settings or accept the defaults. Telnet Console Port 23
Alphablox <	Server Log File Name Server.log Console Message Level
Install Complete	SMTP Server
InstallAnywhere by Macrovisio Cancel	Previous Next

- ____ 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

🖳 IBM Alphablox 9.5		
		Choose Java Location
 Introduction Install Location Install Options Choose WAS Server Alphablox Drivers Repository Confirm Installing Install Complete 	Enter the directory where a JRE or JDK of Java Directory [C:\IBM\WebSphere\MonServer\java	of at least version 1.4 is installed. Browse
Cancel	111	Previous

- ____ 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.

🖳 IBM Alphablox 9.5	
	Enable Additional Drivers
 Introduction Install Location Install Options Choose WAS Server Alphablox Drivers Repository Confirm Installing 	You may configure additional drivers by specifying the directory where they are located. The Alphablox lib directory must not be used. Add additional drivers from directory Choose directory containing additional drivers. C:\IBM\WebSphere\MonServer \universalDriver.wbm\lib Browse
Install Complete	Show Drivers Enabled: DB2 Type 4, Derby n Previous Next
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

🖳 IBM Alphablox 9.5			
			Configure Repository
 Introduction Install Location 	Select the reposito IBM Alphablox in a	ory type to use with this i clustered environment,	nstallation of IBM Alphablox. If you are running you must select the 'Database Repository'.
 Install Options Choose WAS 	👩 File Repository	Database Repository	
🕑 Server 🚽 Alphablox	Database	DB2	
 Drivers Repository 	Server	dbserver.austin.ibm.com	
Confirm	Database Server		
Installing Install Complete	Port	50000	
==== <u>(</u> ,	Alias	MONITOR	
	User	db2admin	
	Password	****	
InstallAnywhere by Macrovisio	m		Previous

27. Click Next



- 28. Click **OK** to test connection to the database
- _____ 29. Ensure the database connection is successful as shown below:

Database	: Connection Test Successful 🛛 🔀
	Database Connection Test Successful
	System Information
	Database Name: DB2/NT
	Database Version: SQL09010
	Driver Name: IBM DB2 JDBC Universal Driver Architecture
	Driver Version: 3.4
	Connection URL:
	jdbc:db2://aimcp094.austin.ibm.com:50000/MONITOR
	Alphablox system table ABX_OBJECTS not found
	Alphablox system table ABX_TYPES not found
	Alphablox system table ABX_VERSION not found
	Alphablox system table ABX_LOOKUP not found
	Alphablox system table ABX_PROPERTY_MAP not found
	Alphablox system table ABX_LOOKUP_VALUES not found
	ОК

_____ 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

🖳 IBM Alphablox 9.5	
	Configure Clustering
 Introduction Install Location Install Options Choose WAS Server Alphablox Drivers Repository Confirm Installing Install Complete Installing InstallAnywhere by Macrovisi Cancel	Enter the configuration information for the clustering settings in your configuration. Image: Enable Alphablox Clustering Cluster Port Number 7855 Cluster Subnet Mask 255 255.255.0
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.

🖫 IBM Alphablox 9.5				
		с	onfigure Conv	ersion Utility
 Introduction Install Location 	The Conversion Utility is selected the most comr	s run when IBM Alphablox firs mon options for your environr	t starts up. The insta ment.	ller has
 Install Options Choose WAS 	Conversion Operation	Сору		•
 Server Alphablox 	Move Server Properties Existing Repository Tables	Do nothing		•
🖌 Drivers	User defined DDL sch	nema file		Browse
Confirm	kuse default>			_
install Complete				
InstallAnywhere by Macrovisio	on —————		Previous	Next

- _____ 34. Click Next
- 35. In the **Pre-Installation Summary** window, review the Alphablox installation summary

🖳 IBM Alphablox 9.5				_ 🗆 🗡
		F	re-Install	ation Summary
	Please Review the Following B	efore Continuing:		
🕑 Install Location	Install Set			<u> </u>
🕑 Install Options	Typical			
🚽 Choose WAS				
J Server	Product Components:			
Alphablov	Core,			
Alphabiox	Tools,			
Drivers	FastForward,			
🕑 Repository	Examples,			
🖌 Confirm	Relational Reporting,			
Installing	Applications,			
Install Complete	IBM Alphablox,			
	Query Builder			
	Summary			
COMPATIBLE	Installation Directory:	C:\IBM\Alphablox		
	Instance Name:	AlphabloxAnalytics		-
InstallAnywhere by Macrovision				
Cancel			Previous	Install

- _____ 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 SOA P -username monadmin -password web1sphere_

3. Press Enter



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

_ 🗆 🛛

📾 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:

🖾 DeployWebSphereLibraries.exe
Please Wait Please select the Cluster you wish to target. 1*) mon.Support(cells/mondmgrCell01/clusters/mon.Support cluster.xml#ServerClust er_1228596538171) 2) mon.Messaging(cells/mondmgrCell01/clusters/mon.Messaging cluster.xml#ServerCl uster_1228596824484) 3) mon.Business(cells/mondmgrCell01/clusters/mon.Business cluster.xml#ServerClus ter_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 \rightarrow 4) mon.Business
 - __ 8. Press Enter. This action lists all the cluster members associated with the cluster you chose, as shown below:

🖾 DeployWebSphereLibraries.exe 📃 🔲	x
The following servers have been found: business.Custom01Node01.0(cells/mondmgrCell01/nodes/Custom01Node01/servers/busin ess.Custom01Node01.0 server.xml#Server_1228596671671) business.Custom04Node04.1(cells/mondmgrCell01/nodes/Custom04Node04/servers/busin ess.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:

🖾 DeployWebSphereLibraries.exe 📃 🗆 🗙
Do you wish to continue?[Y/N]:Y Processing object business.Custom01Node01.0(cells/mondmgrCell01/nodes/Custom01No de01/servers/business.Custom01Node01.0[server.xm]#Server_1228596671671) Libraries successfully installed! Processing object business.Custom04Node04.1(cells/mondmgrCell01/nodes/Custom04No de04/servers/business.Custom04Node04.1[server.xm]#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.

🗁 C:\IBM\Alphablox\installableApps	_ 🗆 ×
Address 🛅 C:\IBM\Alphablox\installableApps	🔁 Go
🖬 AlphabloxAdminPortlets.war	
📾 AlphabloxPlatform.ear	
📾 AlphabloxPortlets.war	
📾 AlphabloxSamplePortlets.war	
ApplicationStudio.ear	

Complete the following steps to install the AlphabloxPlatform application:

- 1. Open the Administrative console of the deployment manager
 - URL: <u>http://<dmgr_hostname:port>/admin</u>

Example: http://locathost: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 AlpahbloxPlatform.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

Spe	cify the EAR, WAR, JAR, or SAR module to upload and install.
Pat	h to the new application
۲	Local file system
	Full path X\AlphabloxPlatform.ear Browse
0	Remote file system
	Full path Browse
Cor	utext root Used only for standalone Web modules (.war files) and SIP lules (.sar files)
Hos	v do you want to install the application?
$^{\circ}$	Prompt me only when additional information is required.
\odot	Show me all installation options and parameters.
[Next Cancel

___ 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.

	<u>Step 1</u> Select	Map mod	lules to serv	ers		
	Step 2: Map modules to servers <u>Step 3</u> Provide JSP reloading options for Web modules <u>Step 4</u> Map shared libraries	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.AppTarget WebSphere:cell=aimcp098Cell01,cluster=mon.Support Apply				
	<u>Step 5</u> Initialize parameters for servlets	ēē	1			
		Select M	1odule -	URI	Server	
-	➡ <u>Step 6</u> Map virtual hosts for Web modules		BM Alphablox Administration Application	AlphabloxAdmin.war,WEB- INF/web.xml	WebSphere:cell=aimcp098Cell01,cluster=mon.Business	
	<u>Step 7</u> Map context roots for	I	BM Alphablox	AlphabloxServer.war,WEB- INF/web.xml	WebSphere:cell=aimcp098Cell01,cluster=mon.Business	
	Web modules <u>Step 8</u> Map		BM Alphablox Slox Builder Veb Service	AlphabloxTooling.war,WEB- INF/web.xml	WebSphere:cell=aimcp098Cell01,cluster=mon.Business	
	Step 9 Summary IBM Alphablox BloxBuilder WebSphere:cell=aimcp098Cell01,clus Step 9 Summary Viewer BloxBuilder, war, WEB- INF/web.xml				WebSphere:cell=aimcp098Cell01,cluster=mon.Business	
	Previous Next Cancel	1				

- 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	
	AlphabloxAdministrator			businessmgr		
	AlphabloxUser			businessmgr		
	AlphabloxDeveloper					

- _____ 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.

Save ? -
Save
Save your workspace changes to the master configuration.
Click Save to update the master repository with your changes. Click Discard to discard your changes and begin work again using the master repository configuration. Click Cancel to continue working with your changes.
Total changed documents: 0
Synchronize changes with Nodes
Save Discard Cancel

___ 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

🗁 C:\IBM\WebSphere\MonServer\installableApps.wbm\installer\Alphablox\ABXTheme 💶 🗖 🔀				
Address C:\IBM\WebSphere\MonServer\installableApps.wbm\installer\Alphablox\ABXTheme	🕶 🔁 Go			
ib wbmonitor clm_sorted.gif				

____b. Copy the wbmonitor directory to <ABX_HOME>\repository\theme

🗁 C:\IBM\Alphablox\repository\theme 📃 🗖 🗙				
Address 🛅 C:\IBM\Alphablox\repository\theme				
🛅 coleman	🛅 printer	📾 example_pdfreport.properties		
astforward	🛅 purple	📴 pdfreport.css		
🛅 financial	🚞 spreadsheet	📴 report.css		
🛅 greyscale	🛅 swing	mwbmonitor		
🛅 highcontrast	📴 dhtml_view.css			
i 🦳	dhtml_view_report.css			

____ 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

 <
- 2) Copy the clm_sorted.gif file
- 3) Now navigate to <ABX_HOME>\repository\theme\wbmonitor\i

🗁 C:\IBM\Alphablox\repository\theme\wbmonitor\i 📃 🗖 🗙					
Address 🛅 C:\IBM\Alphablox\repos	itory\theme\wbmonitor\i	💌 🔁 Go			
😒 tbsa.gif	🔊 undo_disabled.gif	😒 viewPageFilter.gif			
📘 tle.gif	횐 viewChart.gif	횐 viewPageFilter_active.gif			
tn_closed.gif	횐 viewChart_active.gif	횐 viewPoppedOut.gif			
tn_open.gif	횐 viewDataLayout.gif	횐 viewPoppedOut_active.gif			
📘 top.gif	횐 viewDataLayout_active.gif	횐 viewPoppedOut_disabled.gif			
📘 trc.gif	횐 viewGrid.gif	🔰 vscroll.gif			
treenode_close.gif	횐 viewGrid_active.gif	Clm_sorted.gif			
T					

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

General Properties	Modules
* Name IBM_BSPACE_WIDGETS	Manage Modules
Application reference validation Issue warnings	Web Module Properties Session management
Detail Properties Target specific application status Startup behavior Application binaries Class loading and update detection Remote request dispatcher properties View Deployment Descriptor Last participant support extension References Shared library references	 <u>Context Root For Web</u> <u>Modules</u> <u>JSP reload options for web</u> <u>modules</u> <u>Virtual hosts</u>
Apply OK Reset Cancel	

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

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

____f. In the next panel, under Additional Properties, click Target specific application status

General Properties	Additional Properties 🗲
* URI WBMDashboardABX.war	View Module Class Loader
Alternate deployment descriptor	 <u>Target specific</u> application status
* Starting weight	View Deployment Descriptor
* Class loader order Classes loaded with parent class loader first	 <u>View Portlet</u> <u>Deployment</u> <u>Descriptor</u>
Apply OK Reset Cancel	 <u>Session</u> <u>Management</u> <u>Web Module Proxy</u> Coofiguration
	conngaradon

____g. In the next panel, select the check box for mon.Business cluster

nterprise Applications ? .						
Enterprise Applications > <u>IBM_BSPACE_WIDGETS</u> > <u>Manage Modules</u> > <u>WBMDashboardABX.war</u> > Target specific application status						
Use this page to view a mapping of a deployed object, such as an application or module, into a target server or cluster environment. This page displays the status of the enterprise application or module on each server or cluster.						
Preferences						
Enable Auto Start Disable Auto Start						
Q C ## #?						
Select Target 🛟	Select Target 🔅 Node 🗘 Version 🗘 Auto Start Application Status 👲					
mon.Busines	mon.Business Not applicable Not applicable No					
Total 1						

___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/web1sphere
- ___ c. Click OK

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APPLICATIONS	ADMINISTRATION	ASSEMBLY			
				Version 9.5.0.0	Build 262 [Interim Fix]
General	<u>Groups</u>	<u>Users</u>	Applications	Data Sources	<u>Cubes</u>

- ____d. Select the ADMINISTRATION tab as shown above
- ____e. Click Data Sources

APPLICATIONS	ADMINISTRATION	ASSEMBLY		1	
				📲 Version 9.5.0.0	Build 262 [Interim Fix]
<u>General</u>	<u>Groups</u>	<u>Users</u>	Applications	Data Sources	<u>Cubes</u>
D			-		
Data Sources					
filter:					
	Test 3	Selected Data So	urce		
1					
Canned					
create					
delete					
uenere					

- ____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			
	Create Data Source		
filter:			
	Data Source Name	MONITOR	
Canned	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		
create edit	1		

___h. Click Save

Data Sources	
filter:	Test Selected Data Source
Canned MONITOR	
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
- ___I. 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	MONITOR_CUBE
Description	
Adapter	Alphablox Cube Server Adapter
Maximum Rows	1000
Maximum Columns	1000
SAVE	CANCEL

- ___ n. Click Save
- ____ o. Now, select the MONITOR_CUBE data source and then click Test Selected Data Source

Data Sources	
filter:	Test Selected Data Source
Canned MONITOR MONITOR_CUBE	←
create edit delete	

Test MONITOR_CUBE Data Source Connection

Connection to the MONITOR_CUBE data source was successful!

Connected in: 0m 0s 16ms

Connected as user:

Close

____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

APPLICATIONS	ADMINISTRATION	ASSEMBLY			
	6			Version 9.5.0.0	Build 262 [Interim Fix]
General	<u>Groups</u>	<u>Users</u>	Applications	<u>Data Sources</u>	<u>Cubes</u>
General Properties	System				
<u>Startup</u> System <u>Telnet Console</u> <u>Repository Manage</u> <u>IBM Alphablox Cube</u> <u>Manager</u>	New Log Start New Log End New Log Rollo	Message Level Message Level ver Interval Generate Liser P	INFO FATAL 1 DAY	▼ ▼ (S) ▼	
Custom Properties User Definitions Application Definitio	Message Hist Save On Exit Default HTML SMTP Server	ory Size Client Theme	100 V Wbmonit	or	
Runtime Managem Comments IBM Alphablox Cube Application Session PDE Reports (DHT)	ent Keep Users Lo	cancel	-1 -11	to always keep users lo.	aded in memory

- _____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.