Instant Chime for IBM Sametime
High Availability Server Guide

Fall 2014

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Contact Information

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http://www.instant-tech.com/

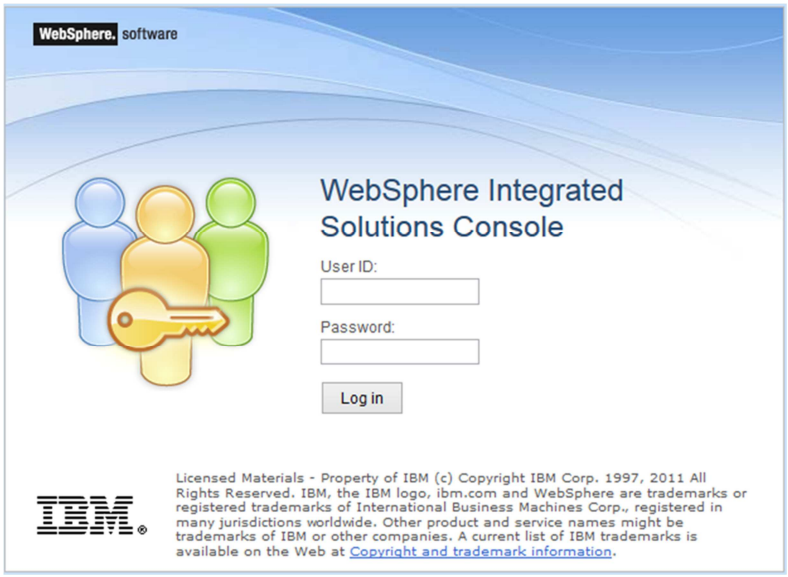
Contents

WebSphere Deployment Manager

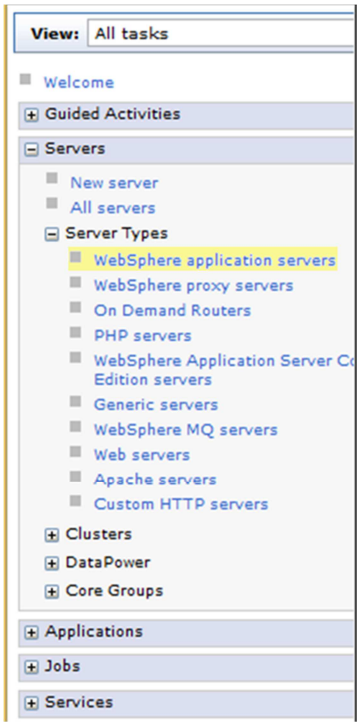
Disable the auto-start of the application server

1. Login in the WebSphere Console

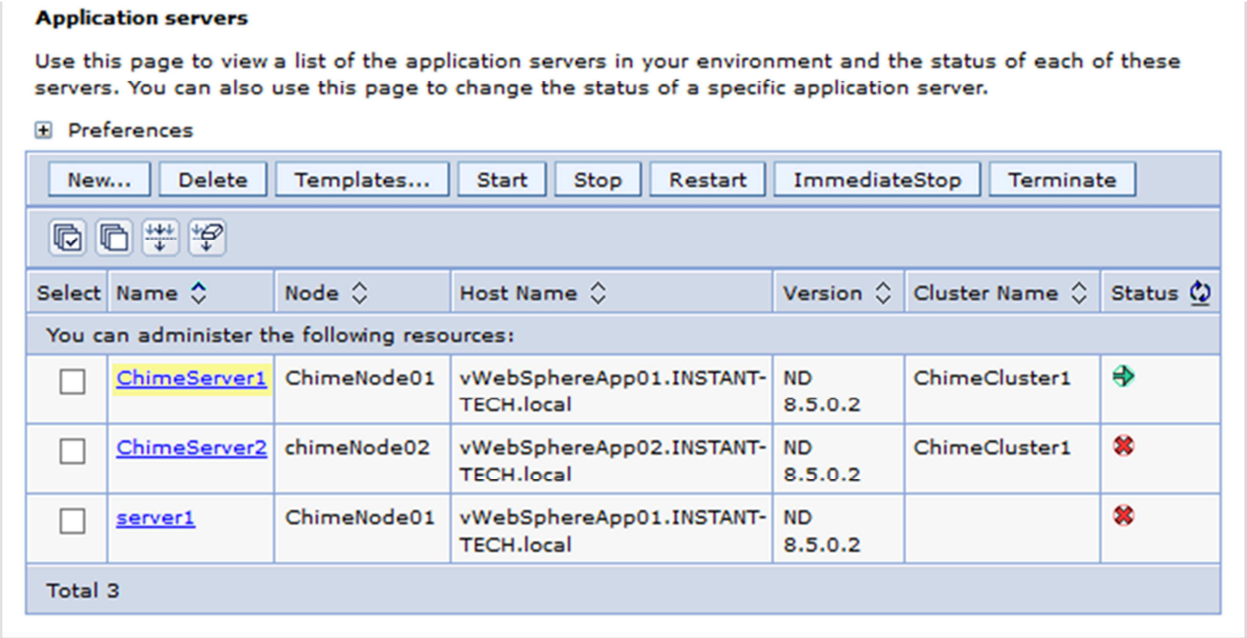
https://<severname>:9043/ibm/console



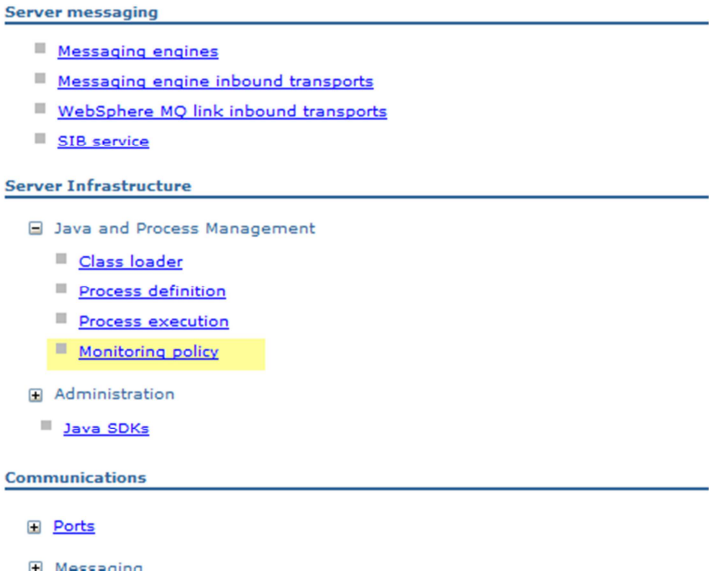
2. Click on Severs, then expand Server Types and click on WebSphere application servers



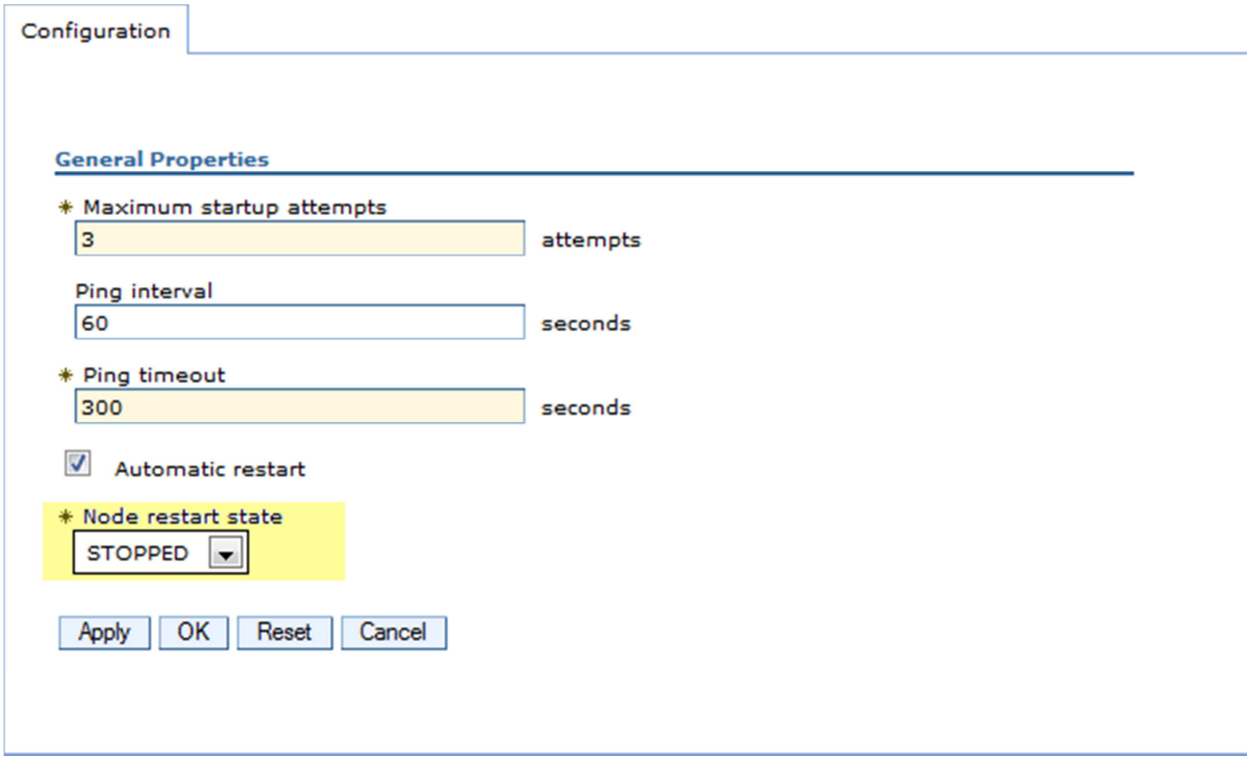
3. Click on the server you want to change



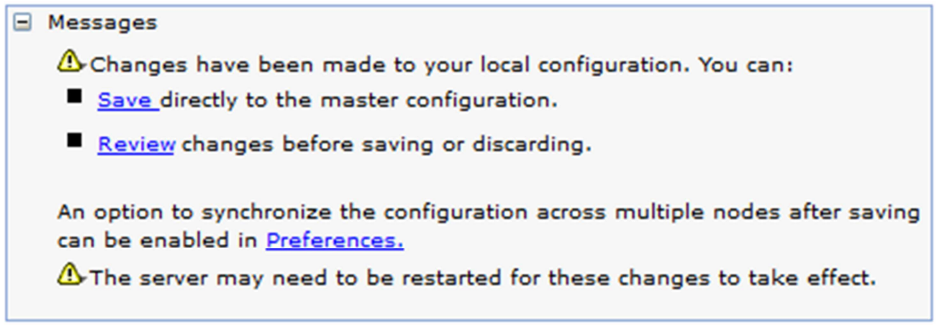
4. On the right hand side, Find Server Infrastructure and expand the “Java and Process Management”, and click on “Monitoring policy”.



5. Verify that the Application server is set to stopped, as required by Chime due to Sametime account restrictions. *Stopped is the default setting*.



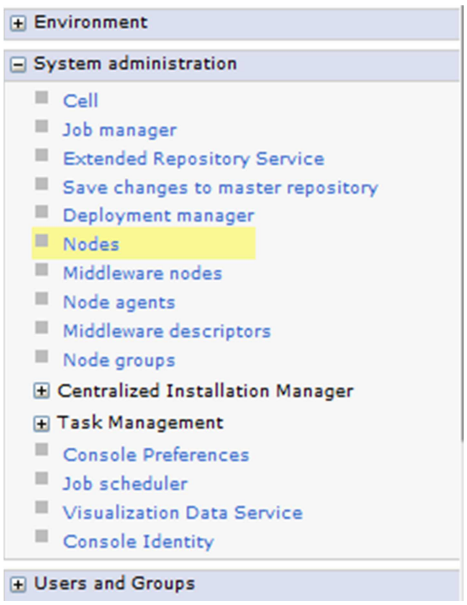
6. Press OK.
7. You will be prompted that "Changes have been made to your local configuration"



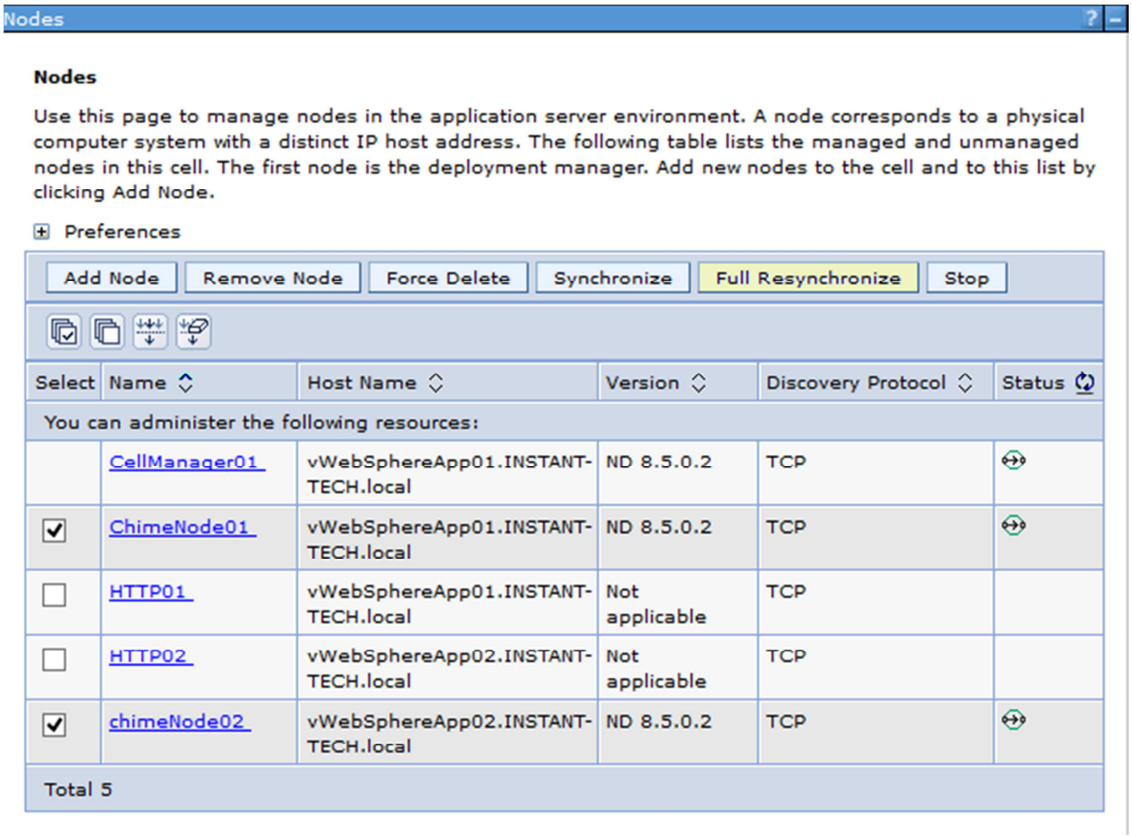
8. Verify that all other Application Servers' "Node restart state" are set to "Stopped", then save the configuration.

Sync the changes

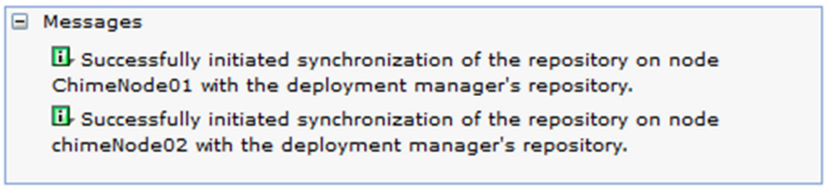
9. Expand System administration and click on nodes



10. Select the nodes you want to synchronize, and press Full Resynchronize (DO NOT use Synchronize). This will write the settings to all the nodes.



11. You should be prompted that the synchronization was successful.

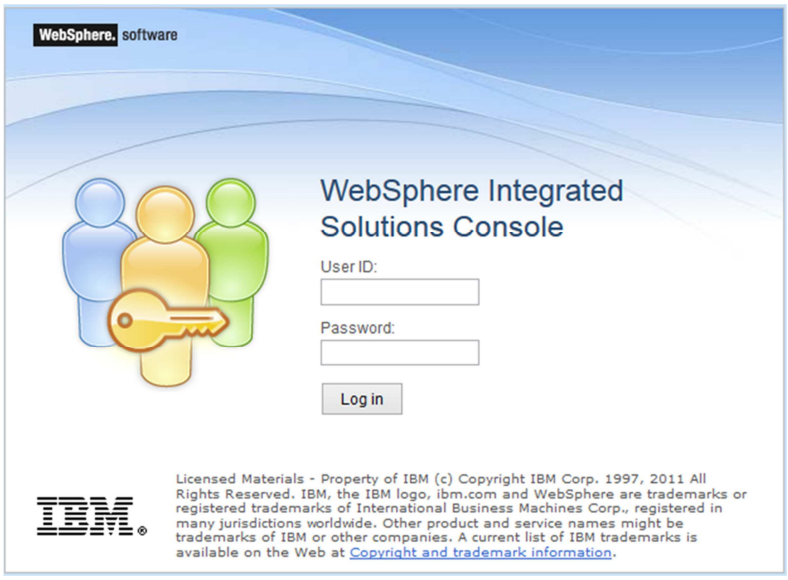


Enable/Disable application security

Application security is not required to run Chime

1. Login in the WebSphere Console

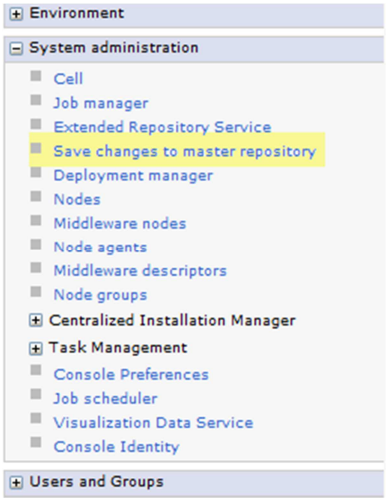
https://<severname>:9043/ibm/console



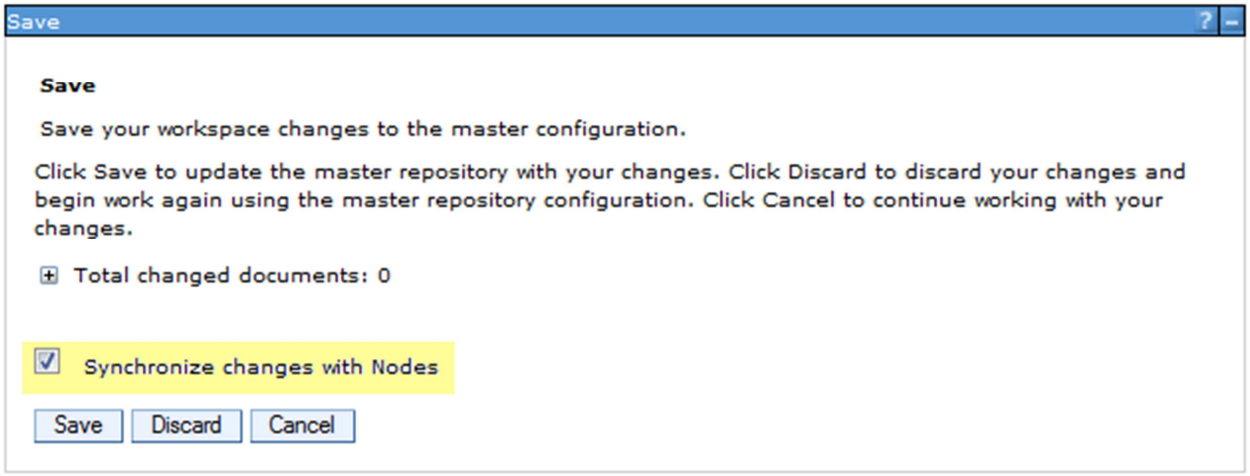
1. Click on Security, then Global Security

3. To enable application security, check the “Enable application security” checkbox
   To disable application security, uncheck the “Enable application security” checkbox

4. Press Apply
5. Expand System administration, and click on “Save changes to master repository”.



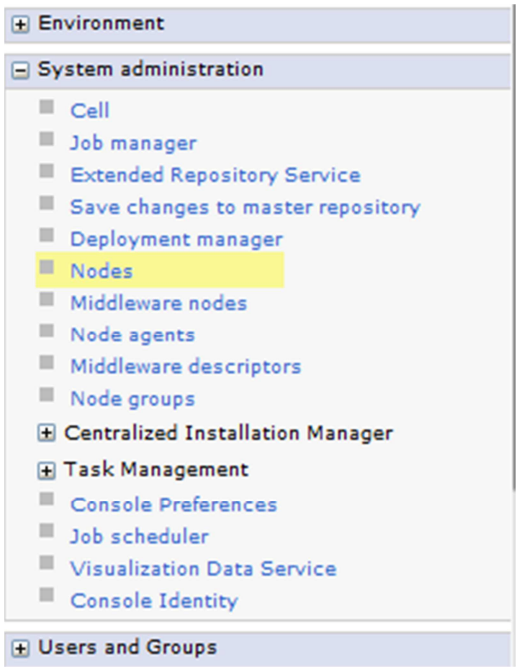
6. Click “Synchronize changes with Nodes”



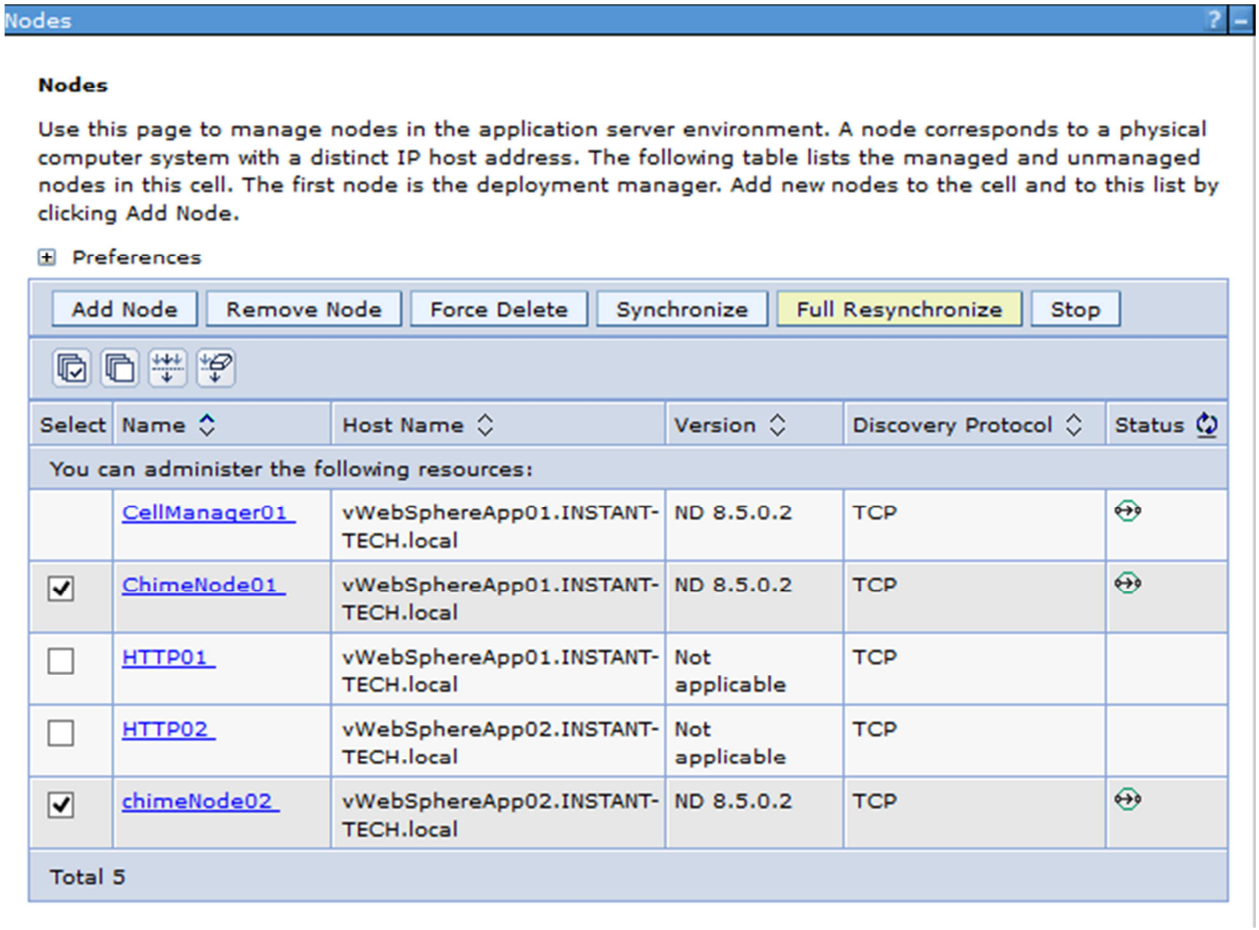
7. Press Save
8. You should receive a message that you settings have been applied.

Sync the changes

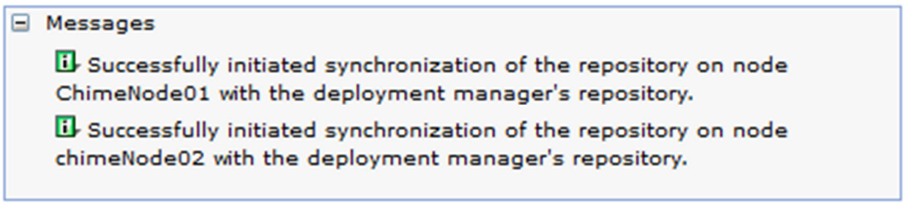
9. Expand System administration and click on nodes



10. Select the nodes you want to synchronize, and press Full Resynchronize (DO NOT use Synchronize). This will write the settings to all the nodes.

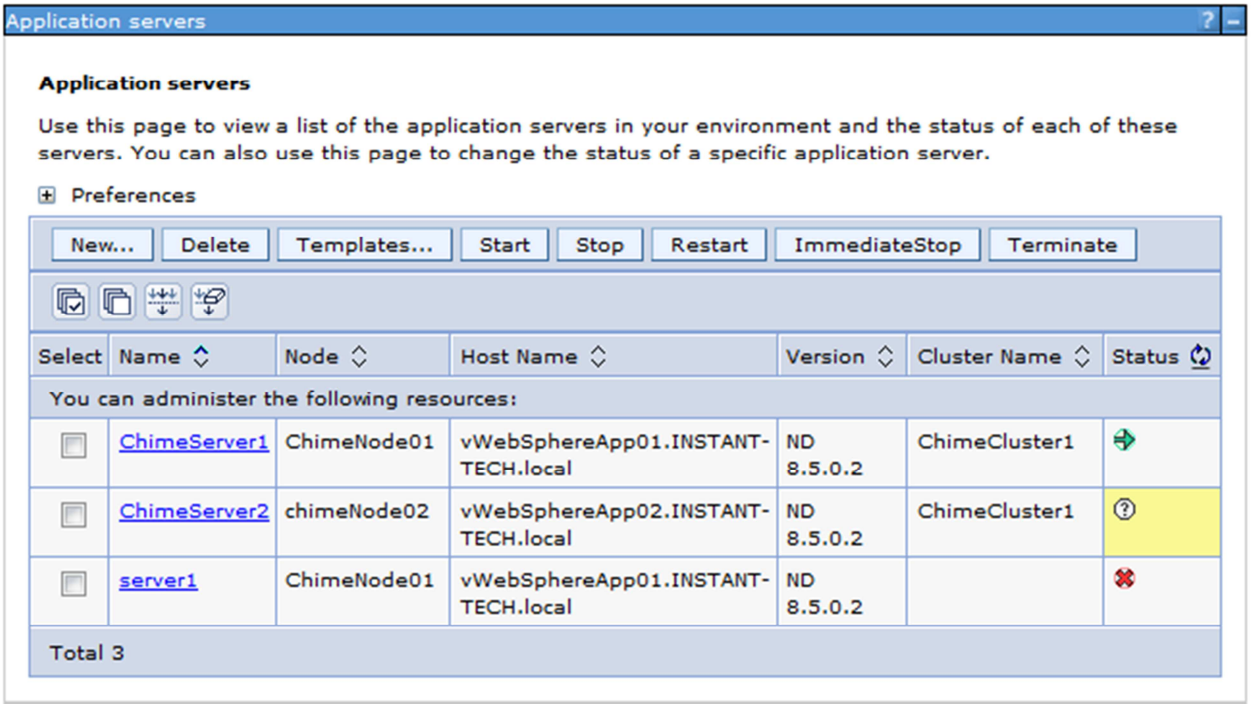


11. You should be prompted that the synchronization was successful.



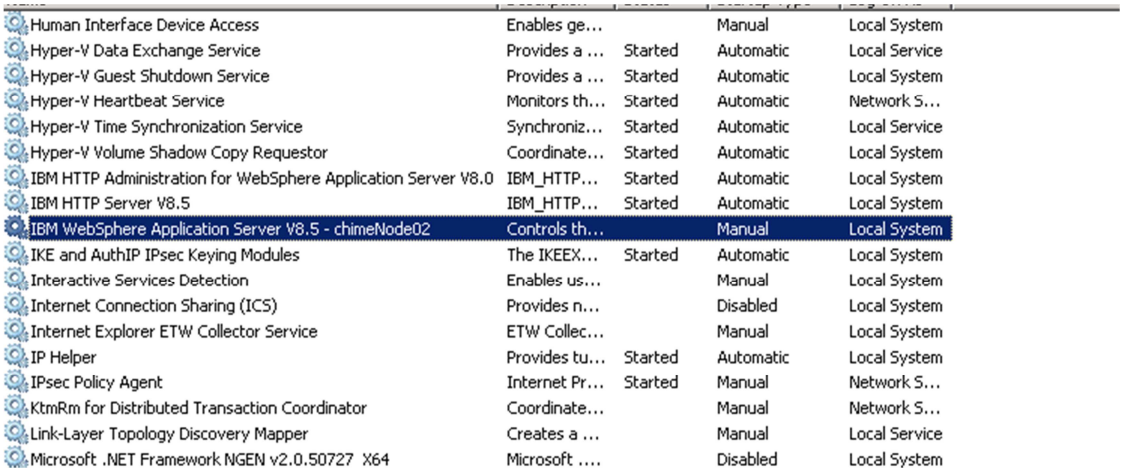
Application server unable to start

If the application server is showing a question mark instead of a red X or green arrow, you will want to verify and turn on the application server



Windows

Open Services and verify that IBM WebSphere Application Server V8.5 has been started



If it isn't started, right click on IBM WebSphere Application Server V8.5 and choose Start. Verify that the service has started in Windows services.

Human Interface Device Access	Enables ge...		Manual	Local System
Hyper-V Data Exchange Service	Provides a ...	Started	Automatic	Local Service
Hyper-V Guest Shutdown Service	Provides a ...	Started	Automatic	Local System
Hyper-V Heartbeat Service	Monitors th...	Started	Automatic	Network S...
Hyper-V Time Synchronization Service	Synchroniz...	Started	Automatic	Local Service
Hyper-V Volume Shadow Copy Requestor	Coordinate...	Started	Automatic	Local System
IBM HTTP Administration for WebSphere Application Server V8.0	IBM_HTTP...	Started	Automatic	Local System
IBM HTTP Server V8.5	IBM_HTTP...	Started	Automatic	Local System
IBM WebSphere Application Server V8.5 - chimeNode02	Controls th...	Started	Manual	Local System
IKE and AuthIP IPsec Keying Modules	The IKEEX...	Started	Automatic	Local System
Interactive Services Detection	Enables us...		Manual	Local System
Internet Connection Sharing (ICS)	Provides n...		Disabled	Local System
Internet Explorer ETW Collector Service	ETW Collec...		Manual	Local System
IP Helper	Provides tu...	Started	Automatic	Local System
IPsec Policy Agent	Internet Pr...	Started	Manual	Network S...
KtmRm for Distributed Transaction Coordinator	Coordinate...		Manual	Network S...
Link-Layer Topology Discovery Mapper	Creates a ...		Manual	Local Service
Microsoft .NET Framework NGEN v2.0.50727_X64	Microsoft		Disabled	Local System

Verify that the app server is now accessible

Application servers

Application servers

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

Preferences

New... | Delete | Templates... | Start | Stop | Restart | ImmediateStop | Terminate

Select	Name	Node	Host Name	Version	Cluster Name	Status
You can administer the following resources:						
	ChimeServer1	ChimeNode01	vWebSphereApp01.INSTANT-TECH.local	ND 8.5.0.2	ChimeCluster1	
	ChimeServer2	chimeNode02	vWebSphereApp02.INSTANT-TECH.local	ND 8.5.0.2	ChimeCluster1	
	server1	ChimeNode01	vWebSphereApp01.INSTANT-TECH.local	ND 8.5.0.2		
Total 3						

If the service still doesn't start, check the event logs for more details

Linux

Instructions found at
http://publib.boulder.ibm.com/infocenter/wpdoc/v6r0/index.jsp?topic=/com.ibm.wp.exp.doc/wpf/inst_startstop.html

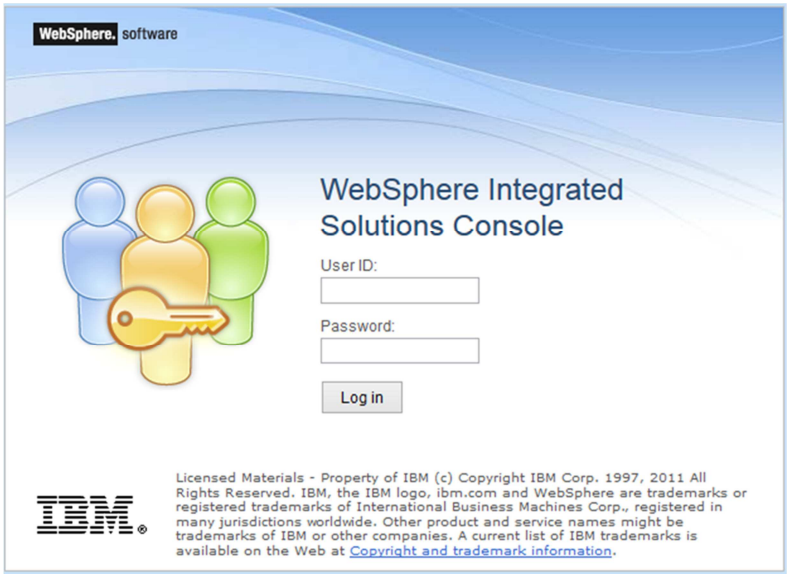
To start the administrative server:

1. Open a command prompt and change to the following directory:
   - **Linux**: was_profile_root/bin
   - **Windows**: was_profile_root\bin
   - **i5/OS**: app_server_root/bin
2. Enter the following command:
   - **Linux**: ./startServer.sh server1
   - **Windows**: startServer.bat server1
   - **i5/OS**: startServer.sh server1 -profileName profile_root
3. where profile_root is the name of the WebSphere Application Server profile where WebSphere Portal Express is installed; for example, wp_profile.
   server1 is the name of your WebSphere Application Server administrative server.
4. To verify that WebSphere Application Server is running, request the following URL from a browser:
   http://hostname.yourcompany.com:10038/snoop
   where hostname.yourcompany.com is the fully qualified host name of the machine where WebSphere Application Server is installed and the port number is the WC_defaulthost found in the serverindex.xml file. The file is located at was_profile_root/config/cells/cell_name/nodes/node_name/serverindex.xml.
5. If you want to access the Administrative Console for WebSphere Application Server, you can do so with the following URL:
   http://hostname.yourcompany.com:9060/admin/
   where the port number is the WC_adminhost found in the serverindex.xml file. The file is located at was_profile_root/config/cells/cell_name/nodes/node_name/serverindex.xml.

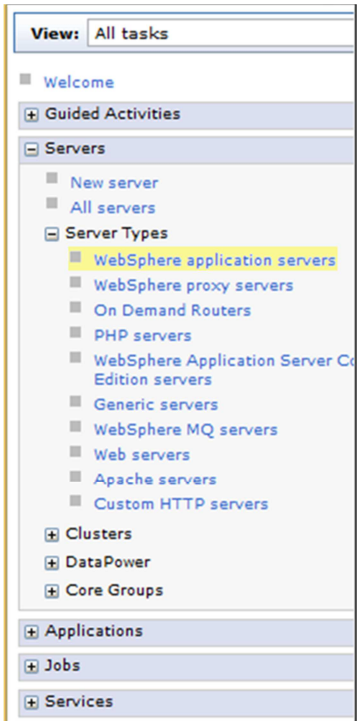
Manual Failover process

1. Login in the WebSphere Console

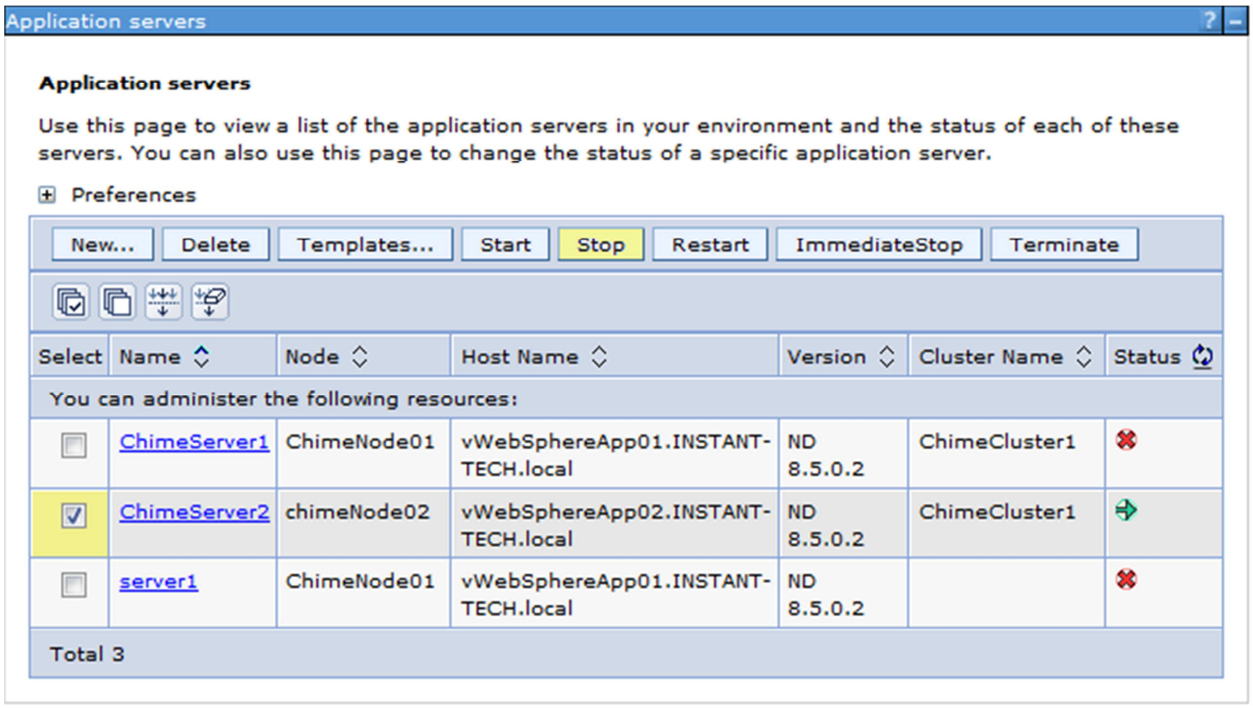
https://<severname>:9043/ibm/console



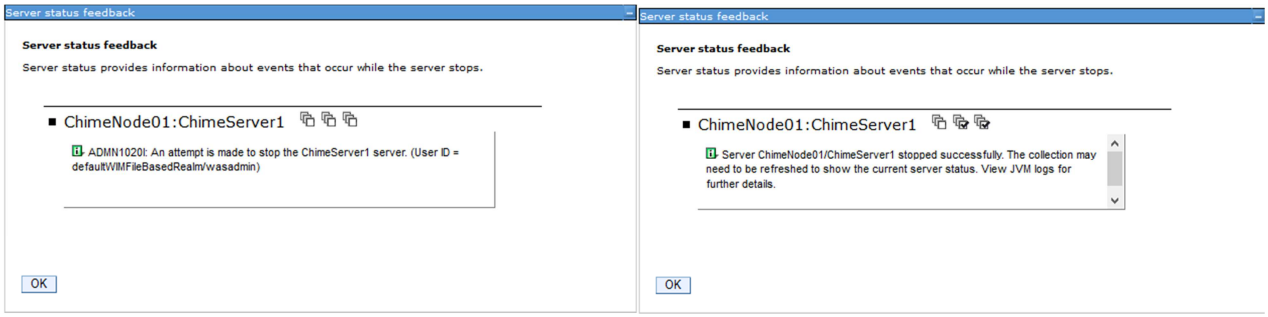
2. Click on Severs, then expand Server Types and click on WebSphere application servers



1. Check the server you wish to stop , then press the Stop button

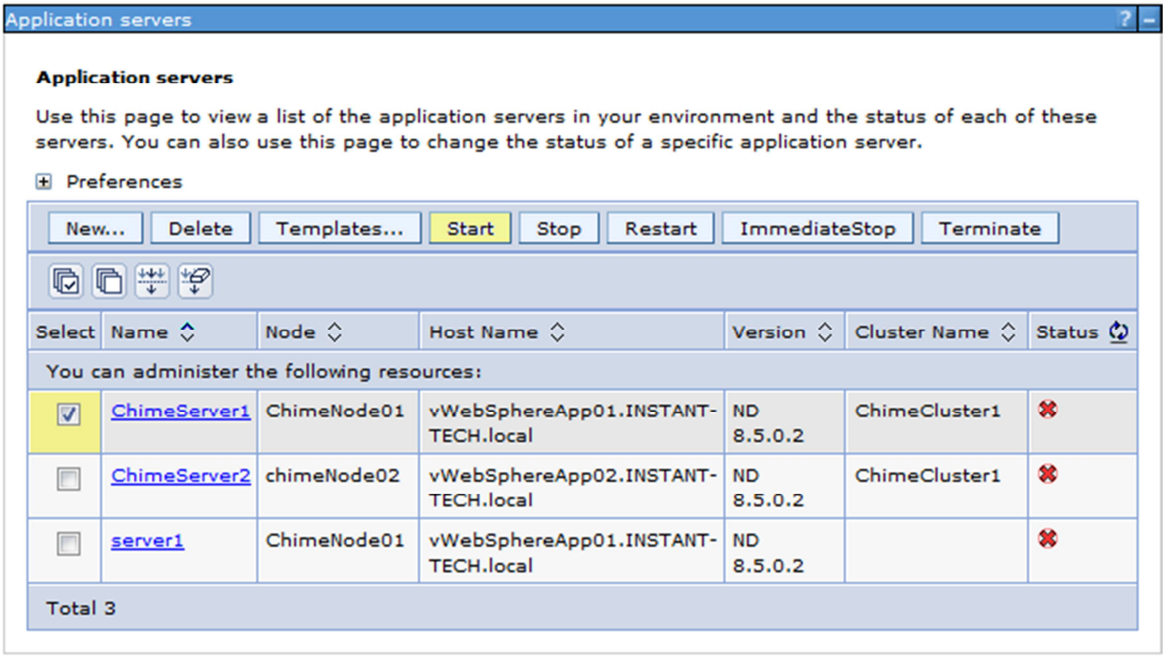


2. You will then be prompted that the server is attempting to stop and that it has been stopped.

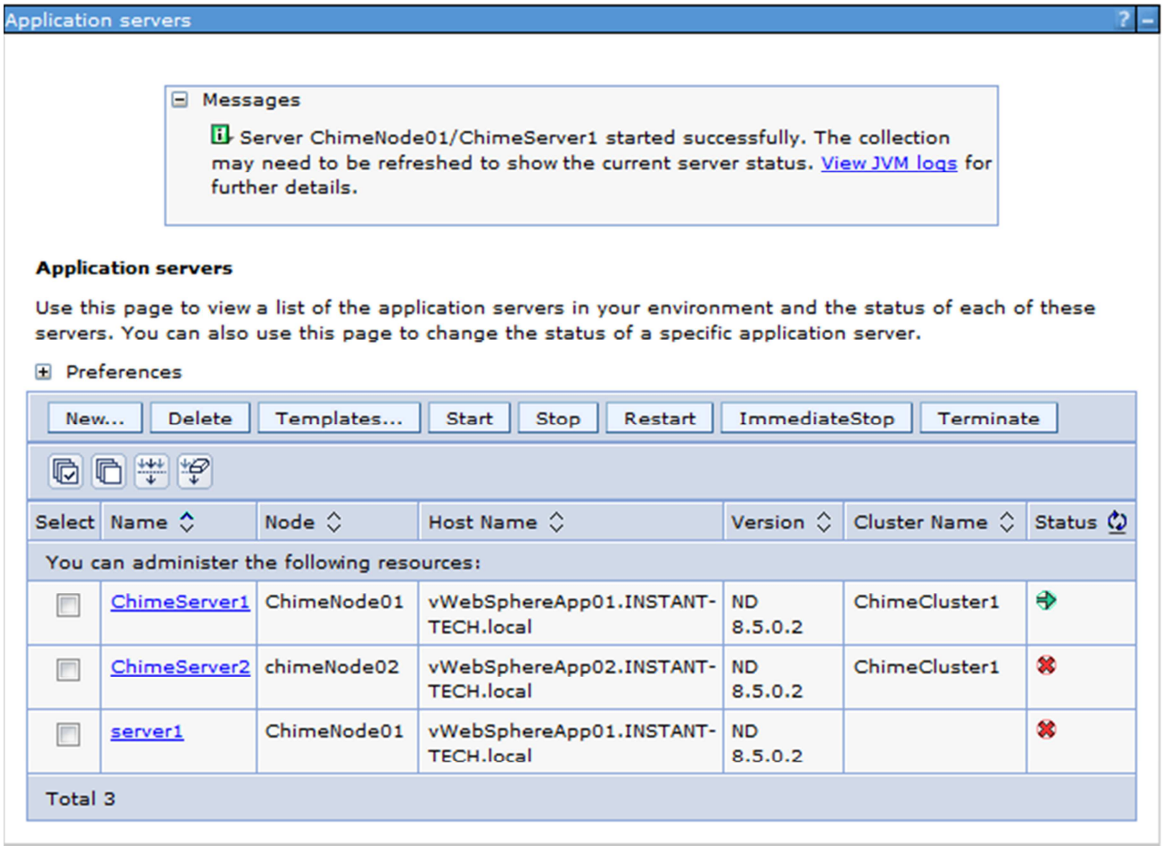


3. Press OK

5. Check the server you wish to start , then press the Start button



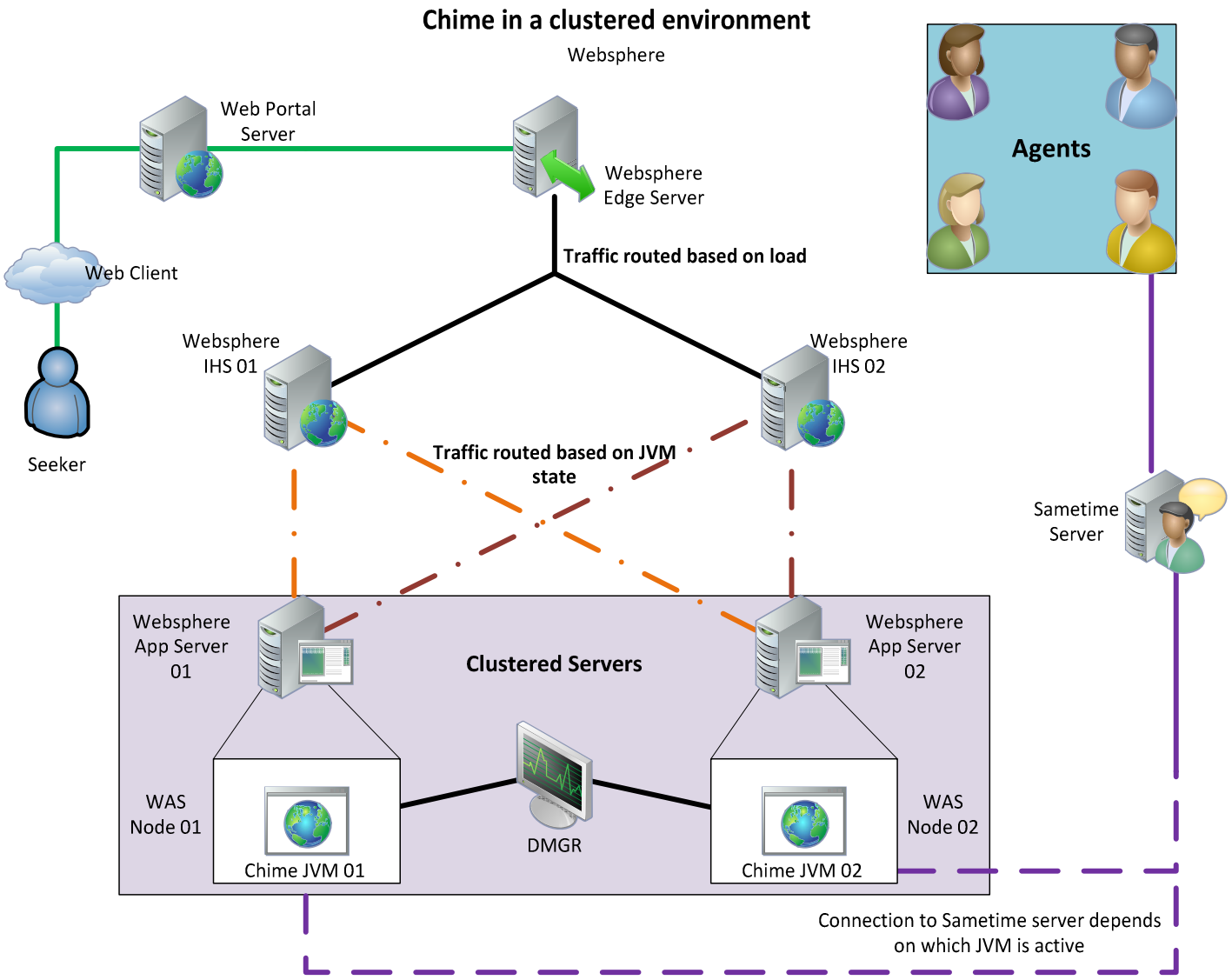
6. You will be prompted that the app server has started



7. Verify that the application is access via the webpage

Clustered Environment

Sample High Availability diagram



WebSphere Edge server

The Edge server will function as a normal load balancer, routing traffic to the IHS servers based on load.

WebSphere IHS

WebSphere IHS's will act as a secondary load balancer. They will monitor the state of the Chime JVM's and route traffic to the JVM that is active. The IHS will pole the WebSphere application cluster, to monitor the state of the Chime JVM. The Chime JVM will either be in an activated or deactivated state.

WebSphere App Server

WebSphere App Servers need to be in a cluster. Each server should have a node, in which the Chime JVM will be loaded. These nodes will be control by the DMGT.

Chime JVM

The Chime JVM will be loaded on to the App server. All Chime JVM should be configured to use the same Sametime accounts as dispatchers for the various queues. Because of this, the JVM should not be set to auto-start, but should be required to manually start when rebooted.

Revision History

Date	User	Remarks
Sept 30, 2014	SW	Initial Draft
Oct 1, 2014	SW	Updated the Visio to put the labels next to the correct boxes.
Oct 7,2014	SW	Added WebSphere Deployment Manager section