CHAPTER 3: ADMINISTRATIVE CONSOLE

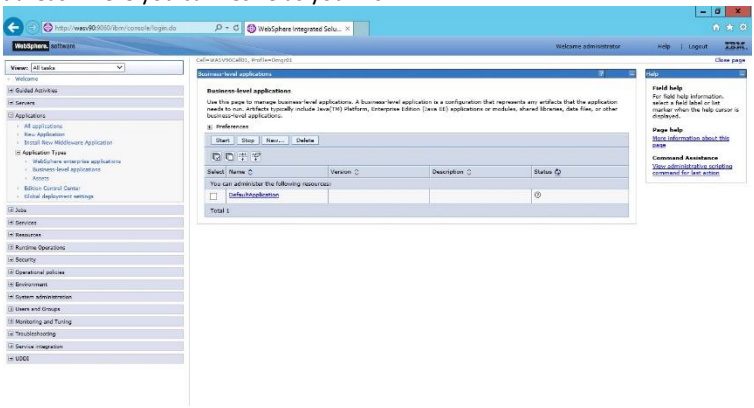
Theory

WebSphere resources can be configured and managed via web based graphical tool. Although this tool is called officially as “Websphere Integrated Solutions Console”, you can usually find resources referring this console as “administrative console” or “admin console”.

Admin console is automatically installed system application called “isclite”. This application is installed on deployment manager in a network deployment environment or on application server in a stand-alone environment. Since it is a system application, you cannot see it in the list of applications. But, in case of troubles, you can uninstall and re-install this admin console using command line tool, “wsadmin”.

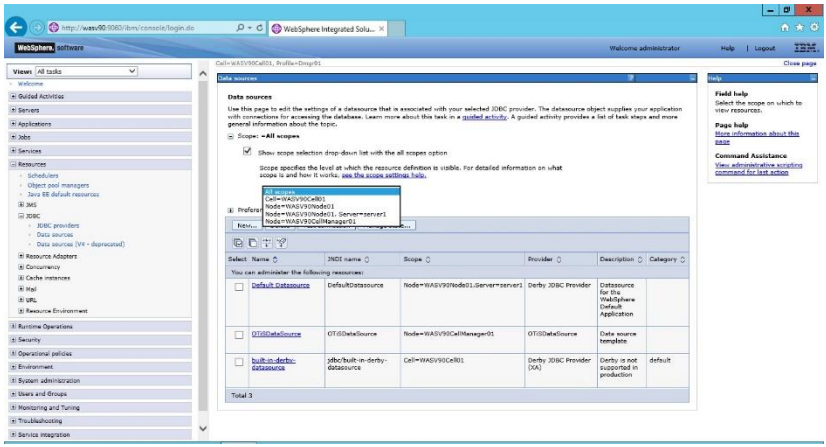
In the network deployment environment, you can perform administrative activities such as creating and managing applications and viewing logs for entire cell, where in stand-alone environment, you can take those activities only for that specific server.

Admin console has a simple layout to ease access to administrative tasks with different areas where you can resize as you wish.



Navigation tree has categorized view of all possible administrative tasks. As you click on a ‘+’, that menu item will expand and if you click on a ‘-‘ that menu item will collapse. Banner area is on the top of the page and contains three parts, that are, ’Welcome’ part showing the user logged in, ‘Help’ link which navigates to online help for Websphere Application Server and ‘Logout’ link that ends your session and redirects you to the login page. Work area is the place you take actions add, view, and change the configurations items. It contains also Messages part where you can see the outputs of your actions. But this part is just basic information, for further information, you should check the related logs.

In Websphere Application Server, certain configuration items should/can be defined for certain scope level. Possible scope levels from high to low are cell, cluster, node, server and application.



In admin console, you can choose the scope level as shown in the image and then click “Apply” to set the level. After that, the configuration item you changed will be effective for that level. Each scope level configuration is stored in different files (resources.xml) such as <profile_home>/config/cells/cell_name/nodes/<node>/resources.xml for node level or <profile_home>/config/cells/cell_name/resources.xml for cell level.

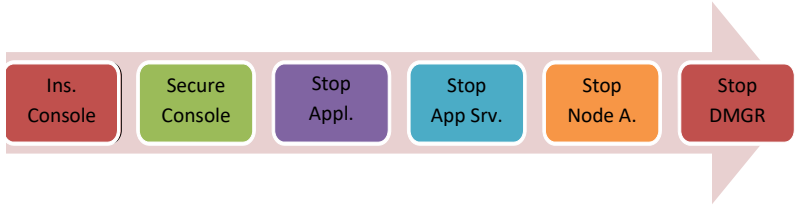
AIM

When you complete the lab exercise, you will be able to take basic operations using graphical web interface, IBM Integrated Solutions Console.

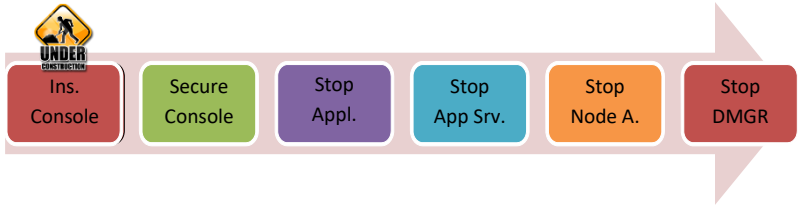
The lab exercise contains following tasks:

1. Uninstall & Install Administration Console
2. Secure Administration Console
3. Stop & Start Application
4. Stop & Start Application Server
5. Restart & Stop Node Agent
6. Stop Deployment Manager

Lab Exercise 3: ADMINISTRATIVE CONSOLE



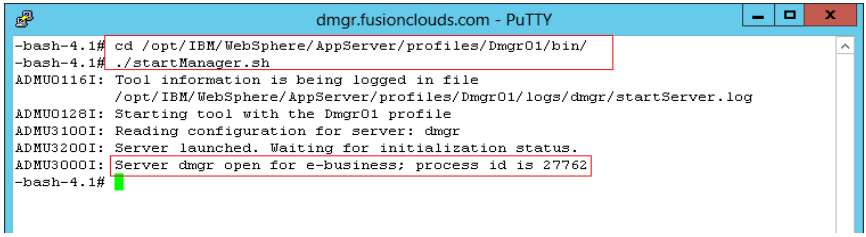
1. **Uninstall & Install Administration Console**
2. **Start AgentNode**
3. **Stop & Start Application**
4. **Stop & Start Application Server**
5. **Restart & Stop Node Agent**
6. **Stop Deployment Manager**



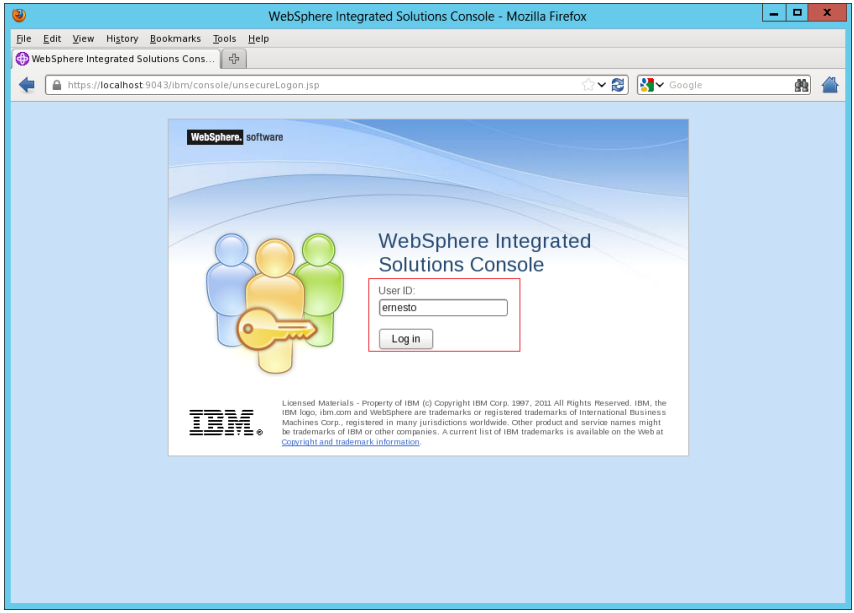
Task 1: Uninstall & Install Administration Console

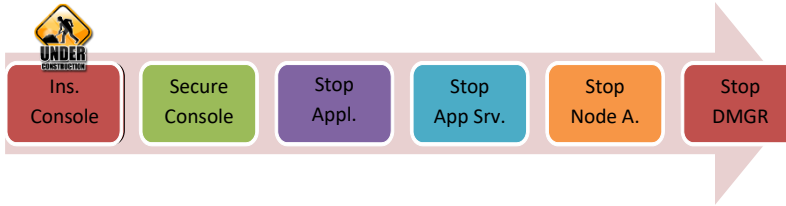
Step 1: Make sure that Deployment Manager is up and running. In case you need to start, please issue “startManager.sh” command to start it.

Note: You can run “stopManager.sh” command to stop it.

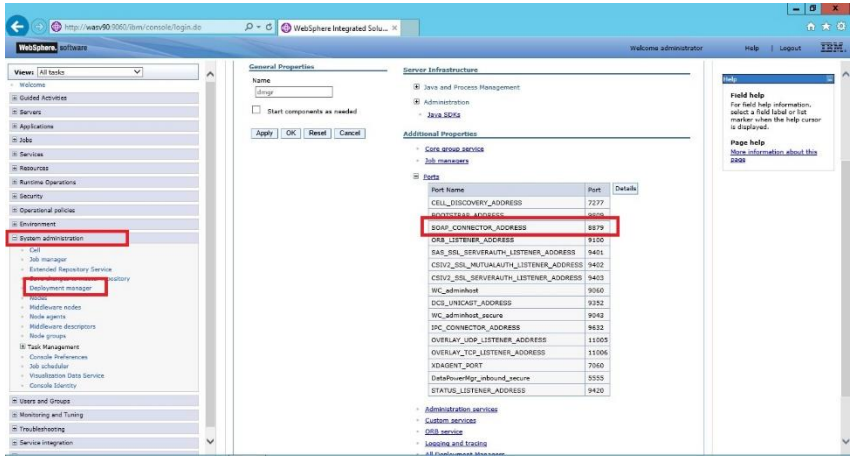


Step 2.1: In order to use “wsadmin” command, we need to have SOAP port. We can get this information from the administrative console or from configuration file. To check SOAP port from administrative console, we need to login.

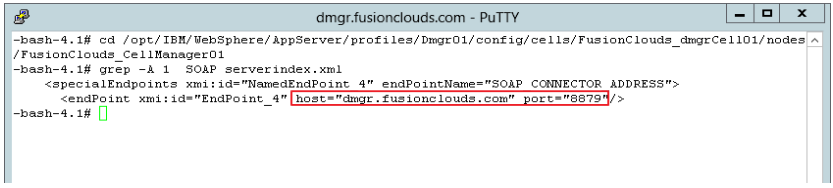


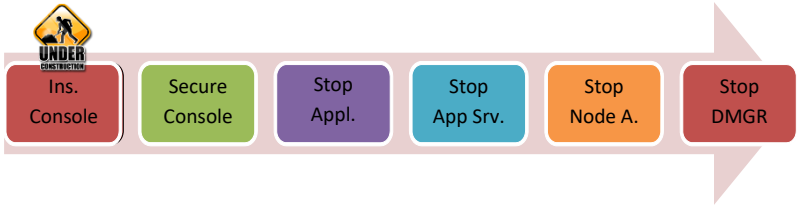


Step 2.2: Click on “System administration>Deployment manager” from left menu and then expand the “Ports” list in work area.



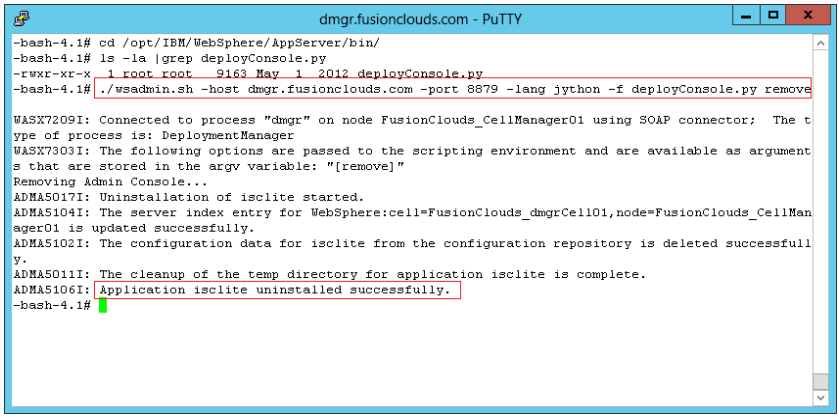
Step 2.3: Or, you can check the SOAP configuration in “serverindex.xml”





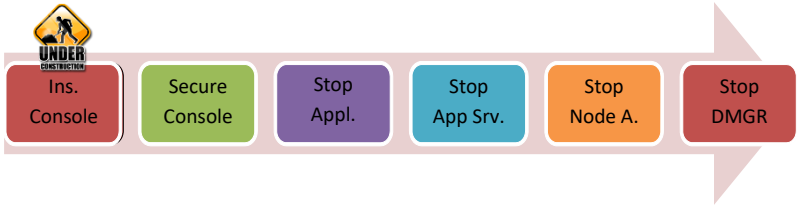
Step 3: From command line, run the following command under "/opt/IBM/WebSphere/AppServer/bin":

"wsadmin.sh –host localhost –port 8879 –lang jython –f deployConsole.py remove"



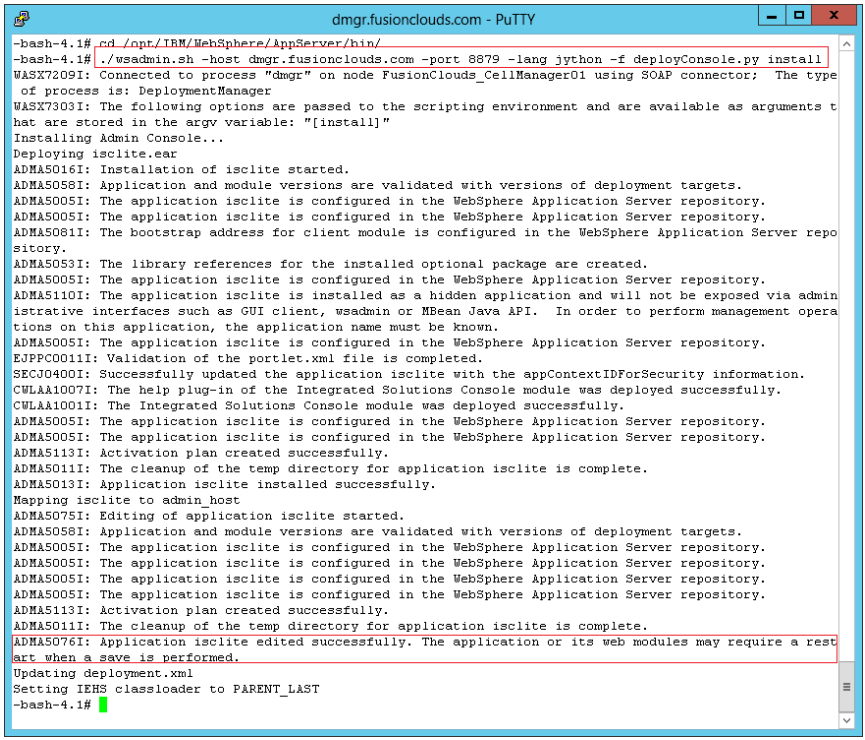
Step 3: When you try to reach the administrative console, you should get the error below.

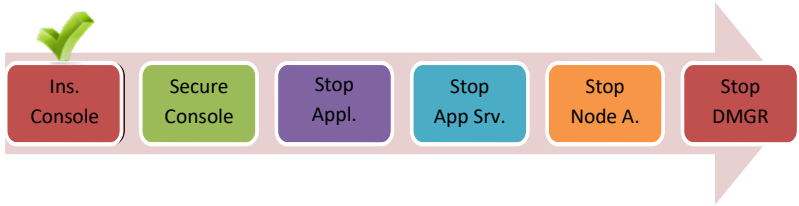
Uninstall of administrative console is completed.



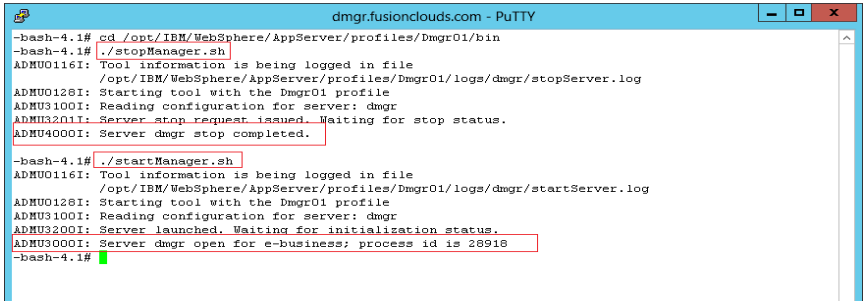
Step 4: To install the Integrated Solutions Console again, issue the following command:

"wsadmin.sh –host localhost –port 8879 –lang jython –f deployConsole.py install"





Step 5: Restart the Deployment Manager as shown in the picture.



Step 6: Check if the installation of the console application is successful.

Task 1 is complete!

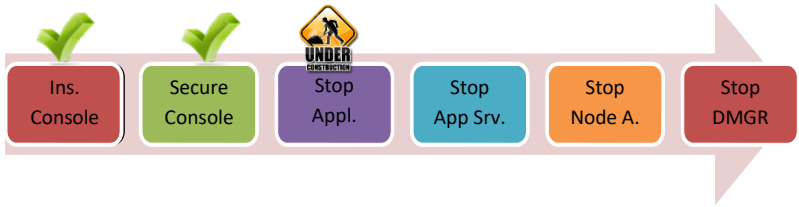
Task 2: Start AgentNode

Note: Run following command in the terminal first.

/opt/IBM/WebSphere/AppServer/profiles/AppSrv01/bin/startNode.sh

```
bash-4.2# /opt/IBM/WebSphere/AppServer/profiles/AppSrv01/bin/startNode.sh
ADMU0116I: Tool information is being logged in file
           /opt/IBM/WebSphere/AppServer/profiles/AppSrv01/logs/nodeagent/startSe
rver.log
ADMU0128I: Starting tool with the AppSrv01 profile
ADMU3100I: Reading configuration for server: nodeagent
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server nodeagent open for e-business; process id is 3780
bash-4.2# /opt/IBM/WebSphere/AppServer/profiles/AppSrv01/bin/stopNode.sh
ADMU0116I: Tool information is being logged in file
           /opt/IBM/WebSphere/AppServer/profiles/AppSrv01/logs/nodeagent/stopSer
ver.log
ADMU0128I: Starting tool with the AppSrv01 profile
ADMU3100I: Reading configuration for server: nodeagent
```

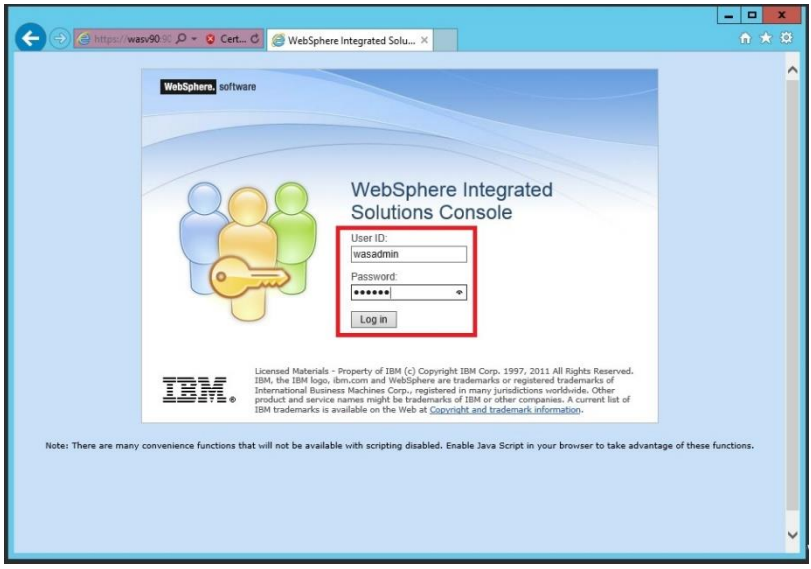
Task 2 is complete!

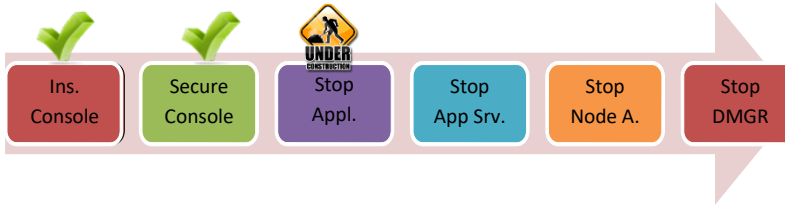


Task 3: Stop & Start Application

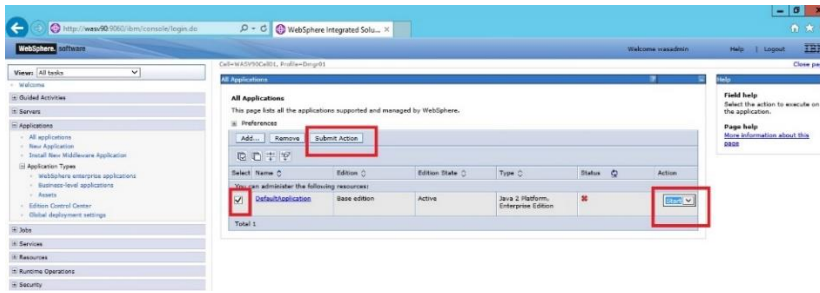
Step 1: Login to admin console. We set user “ernesto” as the user, you should use

the one you set on the previous task.

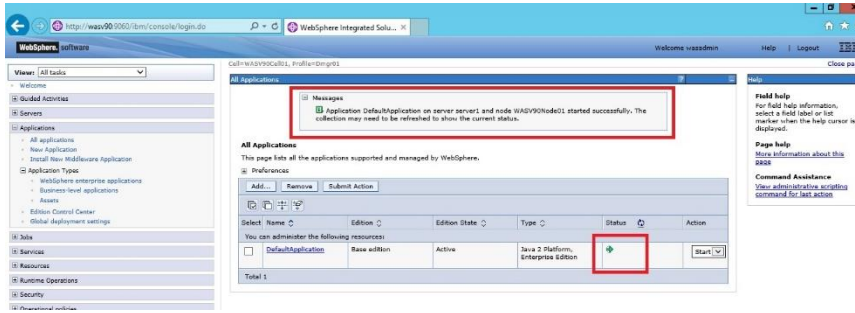


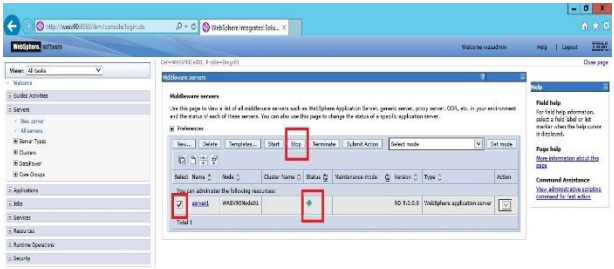


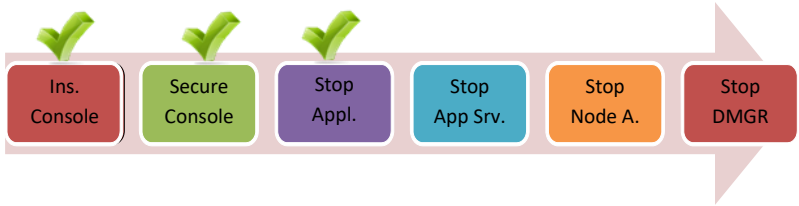
Step 2: Navigate to “Applications>All applications” to see the list of applications. Check the box next to the application you want to stop, select the option “Stop” as for “Action” and then click on “**Submit Action**” button.



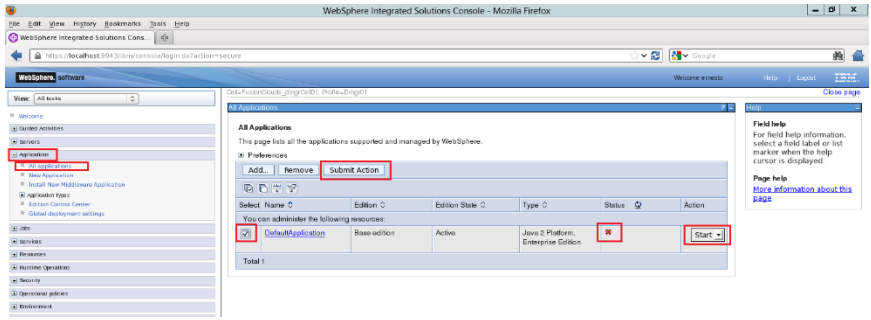
Step 3: You should see the successful message as shown below. Sometimes, it takes a while to see the change in the “Status” icon. You may click on “Refresh” button next to “Status” to see fresh state of the application.



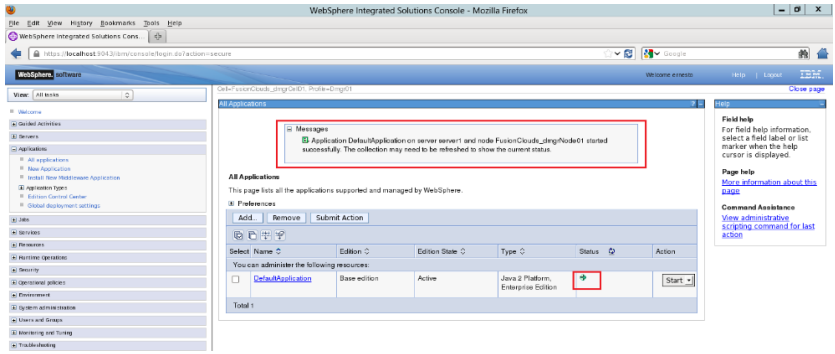

WebSphere software
Welcome wasadmin
Help
Logout
Close page
Viewing: All tasks
Welcome
Guided Activities
Servers
New server
All servers
Server Types
Clusters
DataPower
Core Groups
Applications
Jobs
Services
Resources
Runtime Operations
Security
Middleware servers
Use this page to view a list of all middleware servers such as WebSphere Application Server, generic server, proxy server, ODR, etc. 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
Terminate
Immediate Restart
Sync changes with Nodes
Full Resynchronize
Force Configuration Synchronization
Select node
Set node
Select
Name
Node
Cluster Name
Status
Maintenance mode
Version
Type
Action
You can administer the following resources:
server1
WAS1909Node01
ND 9.0.0.0
WebSphere application server
Total 1
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
Command Assistance
View administrative scripting command for last action



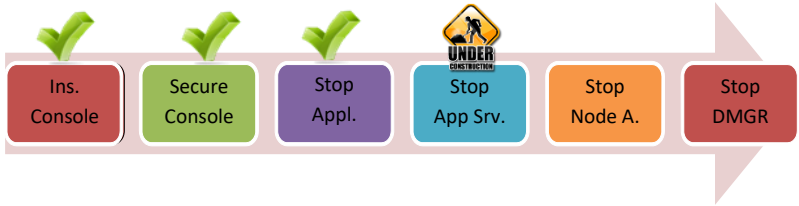
Step 4: Before starting any application, you need to be sure that the current status of the application must be stopped. Click on the check box of the application you want to start, choose the action “Start” and then click on “**Submit Action**”.



Step 5: You should see a success message as follows with status green.

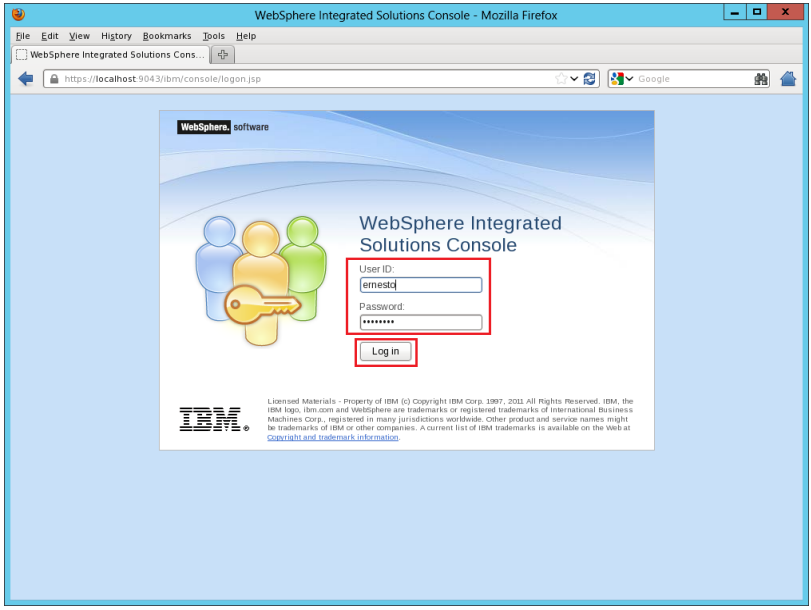


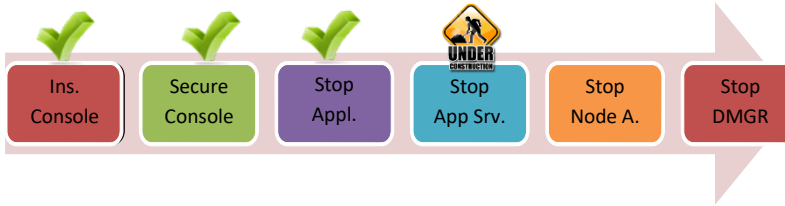
Task 3 is complete!



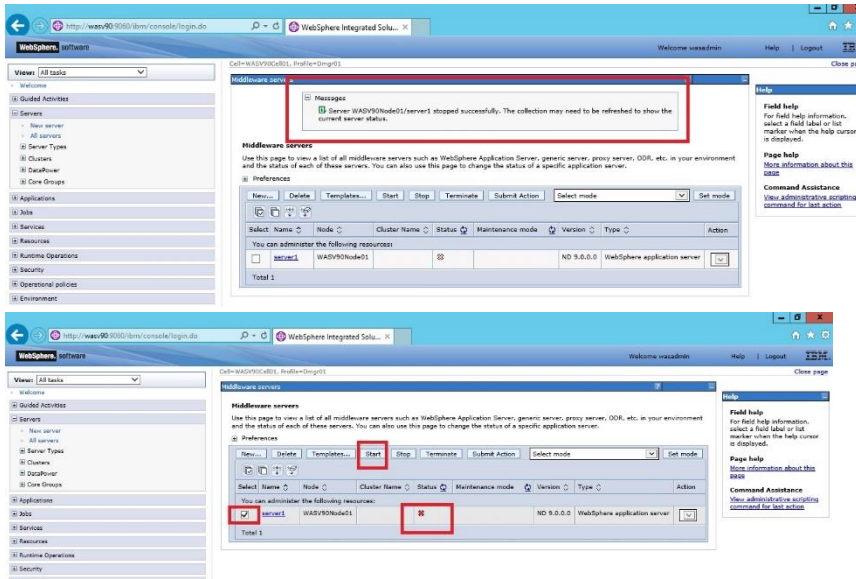
Task 4: Stop & Start Application Server

Step 1: Login to admin console using administrative user and password.

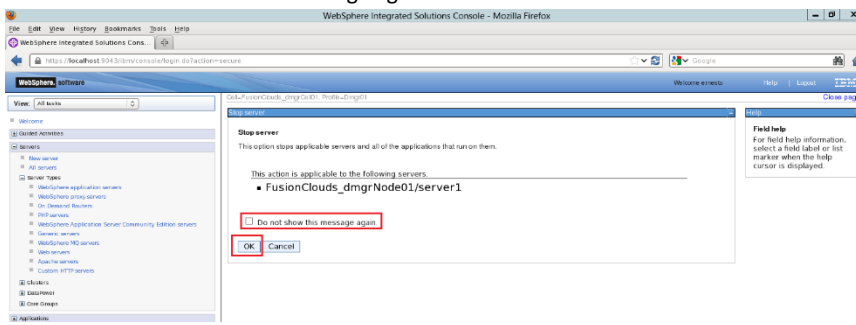


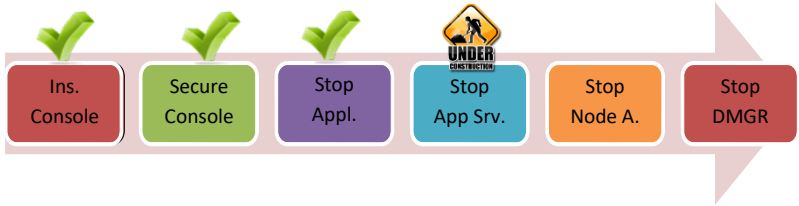


Step 2: Navigate to “Servers>Server Types>WebSphere application servers” to list the application servers. Mark the application server you want to stop and then click “**Stop**”.

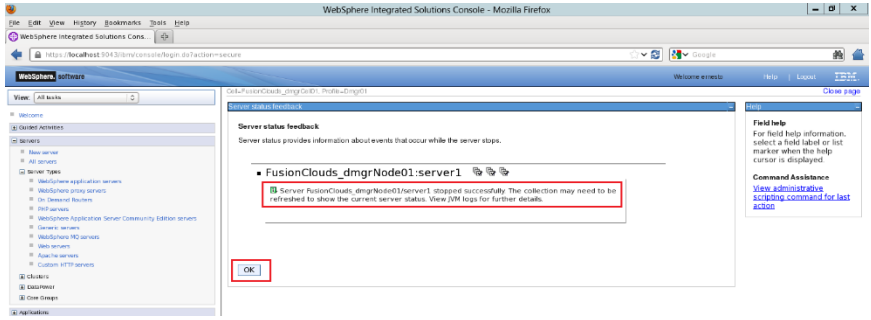


Step 3: If this is the first time, you may see a confirmation message as follows. You can check “Do not show this message again” and then click on “**OK**”.

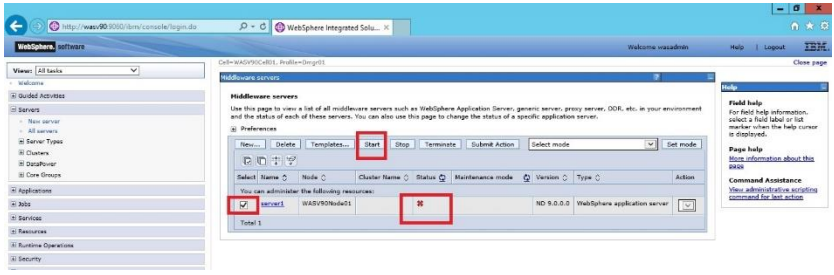


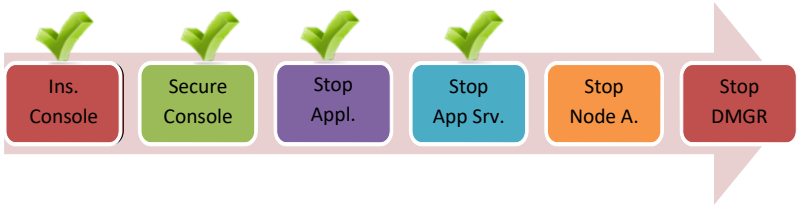


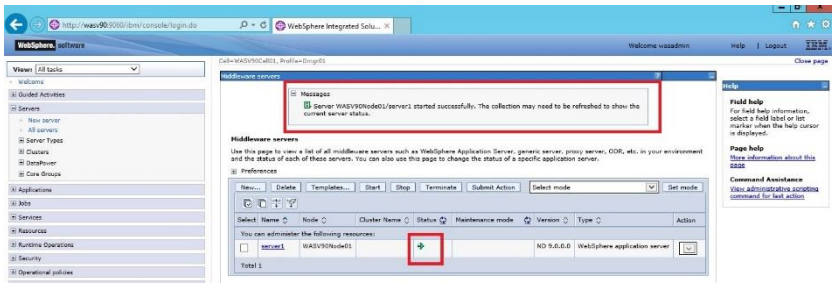
Step 4: You should see the success message as below. Click "**OK**" to continue.



Step 5: Select the application server that you want to start under "Servers>Server Types>WebSphere application servers", and then click on "**Start**".

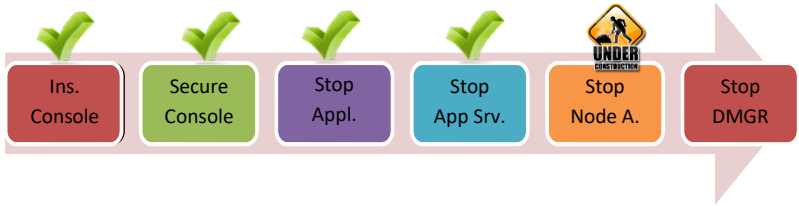






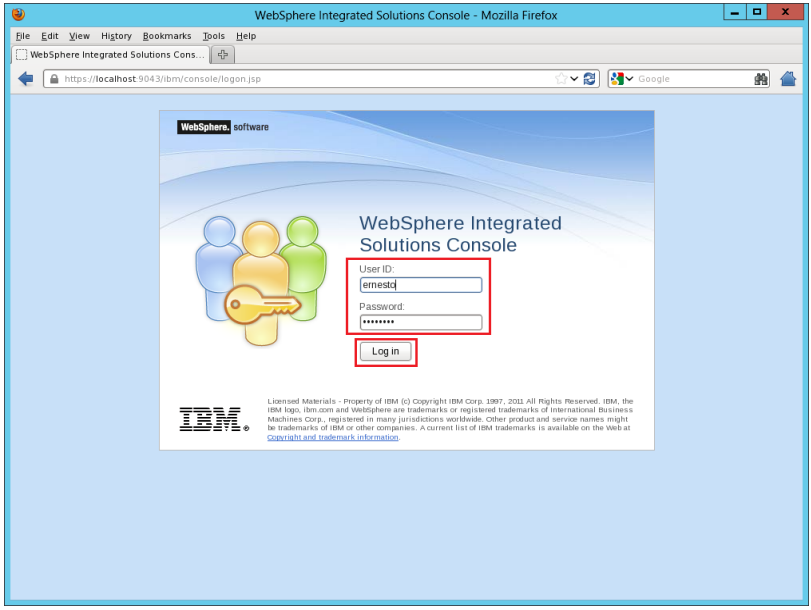
Step 6: You should see the success message.

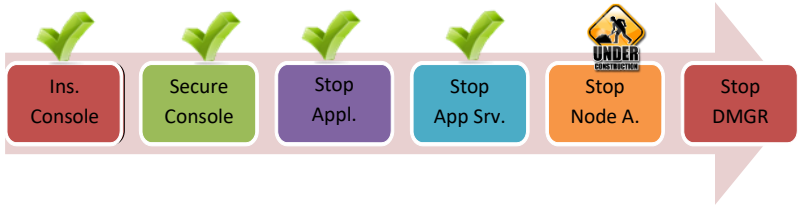
Task 4 is complete!



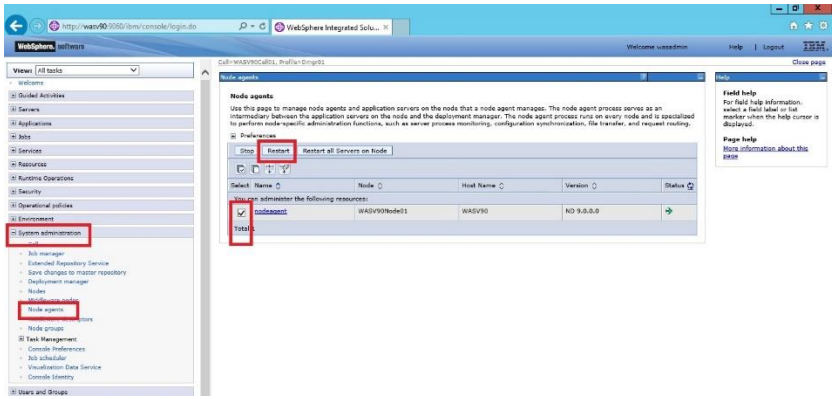
Task 5: Restart & Stop Node Agent

Step 1: Login to admin console using administrative user and password.

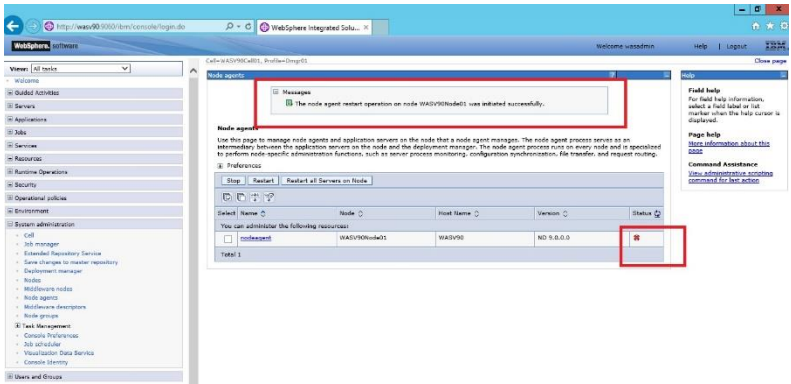


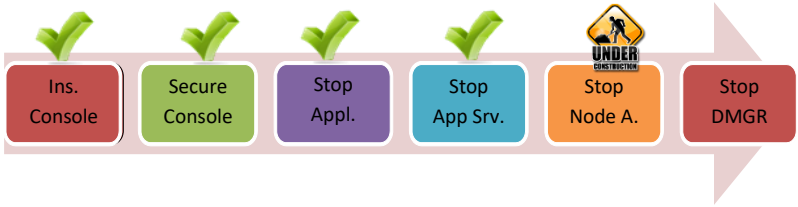


Step 2: Navigate to “System administration>Node agents” to see the list of node agents. Select the node agent you want to restart and then click on **“Restart**” button.

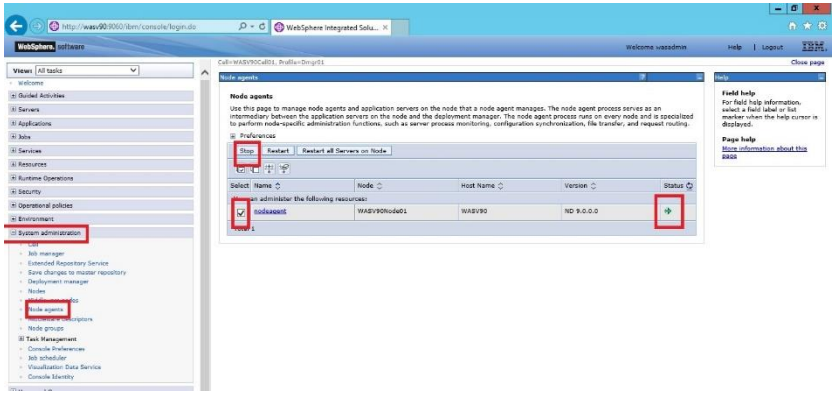


Step 3: You should see the success message as follows. You can click on status refresh button to see node agent up again.

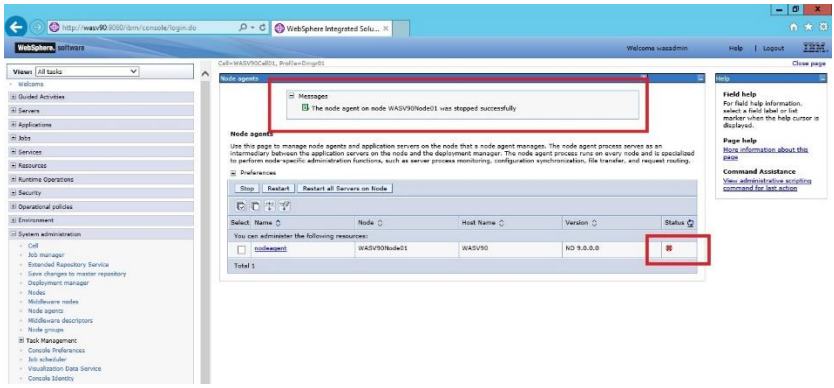


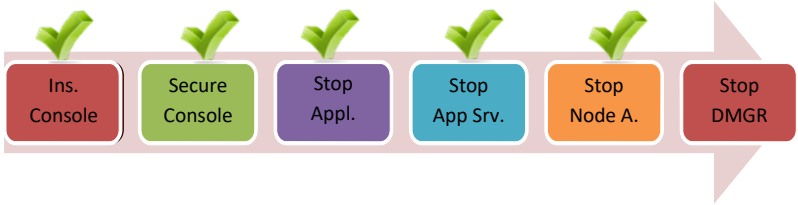


Step 4: Select the node agent you want to stop and then click on **"Submit"** button.

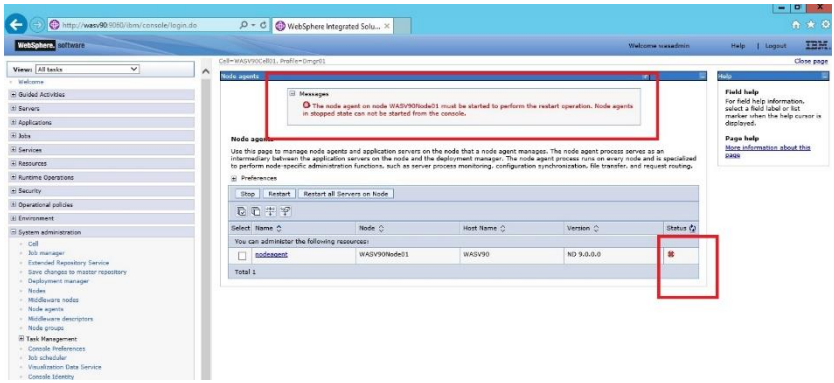


Step 5: You should see the success message.

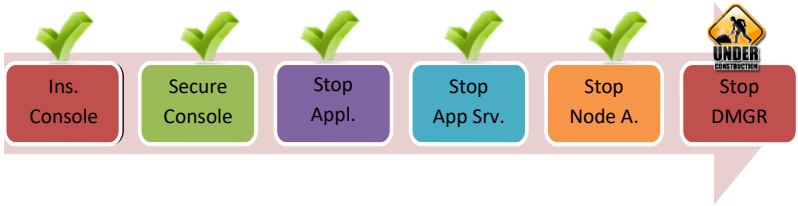




Step 6: Be careful about stopping node agent via admin console, because you have to use command line to start it again. You cannot take any further action for that node agent and servers and applications under it from admin console!

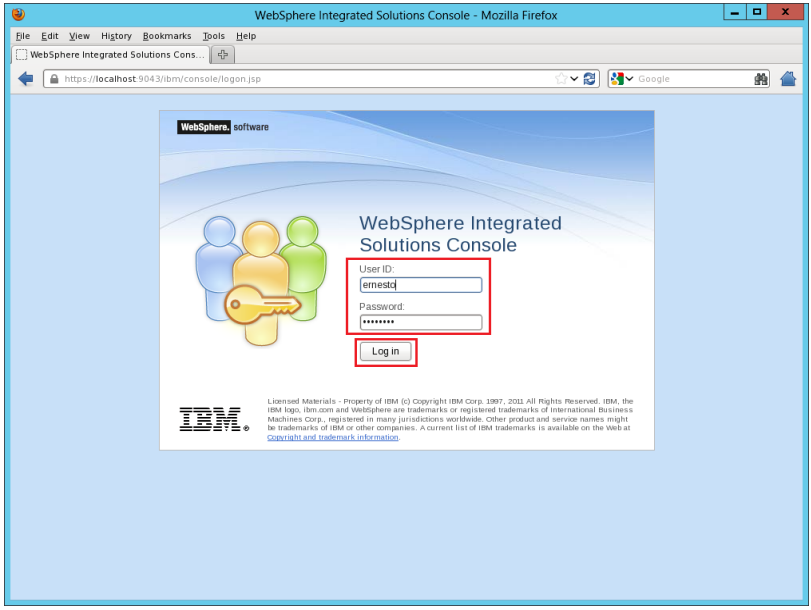


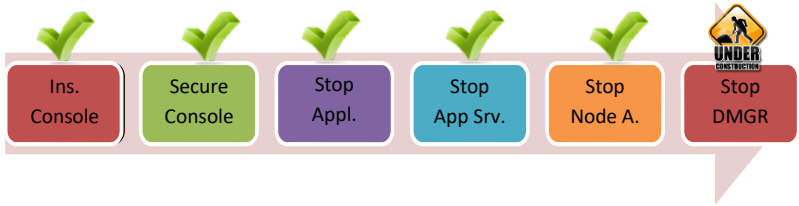
Task 5 is complete!



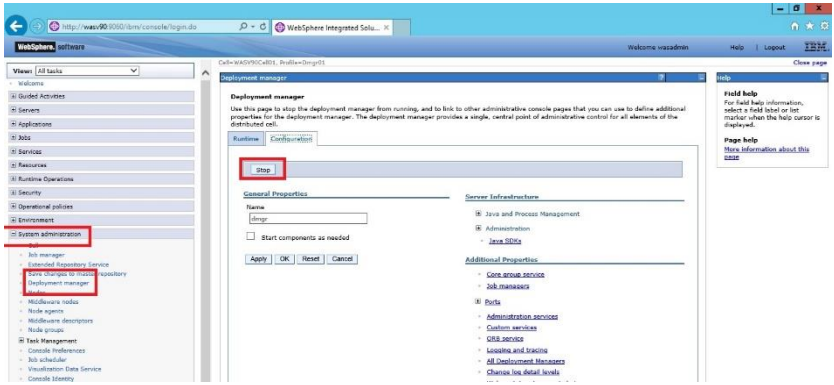
Task 6: Stop Deployment Manager

Step 1: Login to admin console using administrative user and password.

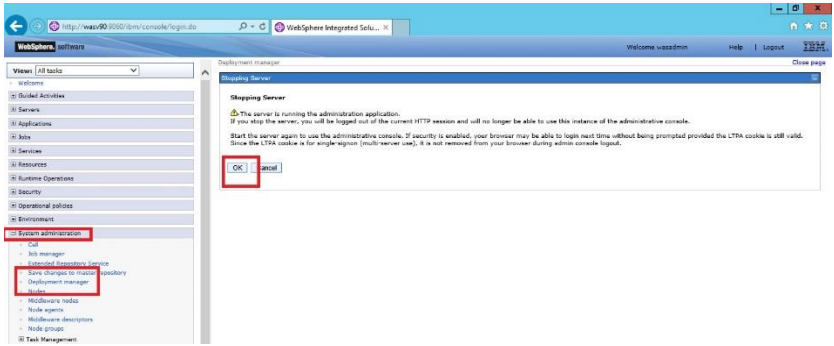


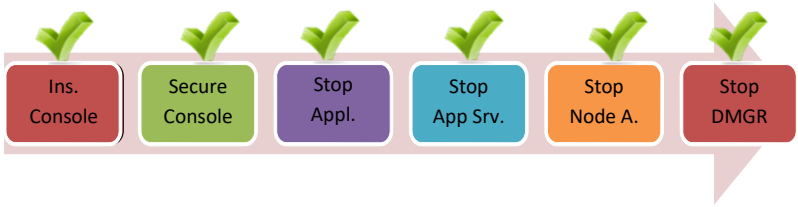


Step 2: Navigate to “System administration>Deployment manager” and click **“Stop”** button.



Step 3: Click on **“OK”** button to confirm to stop deployment manager.





Step 4: You will see the following screen. There is no way to start deployment manager from graphical interface, you have to use command line to start it again.

Task 6 is complete!

SUMMARY

IBM WebSphere Application System provides a web based graphical user interface to perform administrative tasks. The official name for this tool is “WebSphere Integrated Solutions Console” but in many resources you may see different terms such as “admin console” and “administrative console” for the same interface. You can configure to use different realms to login admin console. Integrated Solutions Console also gives you the possibility to configure items on different scopes that are cell, node, server and application.

REFERENCES

- http://pic.dhe.ibm.com/infocenter/wasinfo/v8r0/index.jsp?topic=%2Fcom.ibm.websphere.base.doc%2Finfo%2Faes%2Fae%2Ftsec_useregistry.html
- http://pic.dhe.ibm.com/infocenter/wasinfo/v8r5/index.jsp?topic=/com.ibm.websphere.ihs.doc/ihs/tihs_startadmserv.html