After installation and configuration of SOA

Start/Stop the Admin Server and Managed servers

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Start the Admin server either by start menu or by startWebLogic.cmd E:\oracle\Middleware\user\_projects\domains\soa\_domain\bin\startWebLogic.cmd

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Now the server is started in running mode



# Fusion Middleware welcome page can be accessed through <u>http://host.domain:port</u>



We can access the administration console with the following url

http://host.domain:port/console

Address 💩 http://hyder-server:7001/console

## 💌 🔁 Go 🛛 Links 🏾

## Deploying application for /console....

This application is deployed on the first access. You can change this application to instead deploy during startup. Refer to instructions in the On-Demand Deployment documentation.

The admin console itself is a jar file deployed onto the WL server when accessed for the first time, once it is deployed the following login page is displayed.

		Welco	ome
	L	og in to work with the WebLogic	Server domain
	C u	Jsername:	
	F	assword:	

Give userid and password used at the time of configuring the domain.

The following admin console page is displayed.

	Administration Console	
Change Center	🏠 Home Log Out Preferences 🔤 Re	ecord Help
View changes and restarts	Home	
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Home Page — Information and Resources —	
Domain Structure	Helpful Tools	General Information
soa_domain Deployments Services	<ul> <li>Configure applications</li> <li>Recent Task Status</li> <li>Set your console preferences</li> <li>Oracle Enterprise Manager</li> </ul>	<ul> <li>Common Administration Task Desc</li> <li>Read the documentation</li> <li>Ask a question on My Oracle Supp</li> <li>Oracle Guardian Overview</li> </ul>
	Domain Configurations	Services
	• Domain	Messaging     JMS Servers     Store-and-Forward Agent
	Servers     Clusters	<ul> <li>JMS Modules</li> <li>Path Services</li> </ul>
How do I	Virtual Hosts	<ul> <li>Bridges</li> </ul>
<ul> <li>Search the configuration</li> <li>Use the Change Center</li> <li>Record WLST Scripts</li> <li>Change Concole preferences</li> </ul>	<ul> <li>Migratable Targets</li> <li>Machines</li> <li>Work Managers</li> <li>Startup And Shutdown Classes</li> </ul>	<ul> <li>JDBC</li> <li>Data Sources</li> <li>Multi Data Sources</li> <li>Data Source Factories</li> </ul>
Monitor servers	Your Deployed Resources	Persistent Stores     XML Registries
System Status	Deployments	XML Entity Caches     Foreign JNDI Providers

Select environment  $\rightarrow$  server under the soa\_domain domain

Notice that both the managed servers, soa\_server1 and bam\_server1 are down.

New	Clone Delete				Showing 1 to	3 of 3 Previous   Next
	Name 🖚	Cluster	Machine	State	Health	Listen Port
	AdminServer(admin)			RUNNING	🖋 ок	7001
	bam_server1		LocalMachine	SHUTDOWN		9001
	soa_server1			SHUTDOWN		8001
New	Clone Delete				Showing 1 to	3 of 3 Previous   Next

Start both managed servers by the help of managed server script.

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startManagedWeblogic.cmd soa\_server1 http://hostname:port

similarly for bam\_server1

The script will prompt for wls admin username and password.



Once the soa\_server1 managed server is up and running. The following message is displayed.



When both the servers are up and running. Check the status in admin console.

New	Clone Delete				Showing 1 to	3 of 3 Previous   Next
	Name 🖚	Cluster	Machine	State	Health	Listen Port
	AdminServer(admin)			RUNNING	🖋 ок	7001
	bam_server1		LocalMachine	RUNNING	🖋 ок	9001
	soa_server1			RUNNING	🖋 ок	8001

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Log in to Oracle Enterprise Manager 11g Fusion Middleware control.

## http://host.domain:port/em

ORACLE Enterprise Manager 11g Fusion Middleware Control		23
	8	Login to Oracle Fusion Middleware Control Farm Farm_soa_domain * User Name * Password Login
Enhanced User Experience	New Features	Did you know
<ul> <li>Menu Based Navigation Finding a feature in Enterprise Manager is now easy with menus. Well-designed menu navigation makes the product easy to learn and remember.</li> <li>Interactive Correlation Charts</li> <li>Dynamic Context Menu</li> <li>Context Sensitive Help</li> </ul>	<ul> <li>SOA Management</li> <li>You can manage, monitor and diagnose the SOA infrastructure, as well as the composite applications you deploy. You can configure service engines such as BPEL, Mediator, Human Work Flow and can deploy and manage SCA composite applications.</li> <li>Identity Management</li> <li>WebCenter Management</li> <li>Complete Security and Audit Management</li> </ul>	Manage and Secure Web Services and SOA Application You can manage and secure Web services and SOA applications You can define new service policies. You can enforce service policies of service endpoints. You can also test Web service endpoints and monitor their performance and faults.

Use the same username password configured for admin console.

http://localhost:8001/b2b

ORACLE <sup>®</sup>	28	
	Username Password	
The link for BAM (a http://localhost:900)	must use IE browser) <u>I/OracleBAM</u>	
ORACLE' BA	λM	
	Sign In         Enter your Single Sign-On user name and password.         User name         Password         Go	Welcome Oracle Business Activity Monitoring (Oracle BAM) is a complete solution for building real-time operational dashboards, monitoring and alerting applications over the web. Oracle BAM provides customers with the ability to instrument their existing business applications and processes to be able to monitor and correlate in real-time the emanating business events and to understand their impact on the Key Performance Indicators

Configuring Data Sources

Login to the Admin console

Navigate to domain structure  $\rightarrow$  domain\_name  $\rightarrow$  services  $\rightarrow$  JDBC  $\rightarrow$  Data Sources

#### Summary of JDBC Data Sources

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

#### Customize this table

### Data Sources(Filtered - More Columns Exist)

New	New Delete Showing 1 to 9 of 9 Previous   Next					
	Name 🚕	JNDI Name	Targets			
	BAMDataSource	jdbc/oracle/bam/adc	bam_server1			
	EDNDataSource	jdbc/EDNDataSource	soa_server1			
	EDNLocalTxDataSource	jdbc/EDNLocalTxDataSource	soa_server1			
	JDBC-ebs	oracle.apps.fnd.ext.jdbc.datasource.AppsDataSource	bam_server1, soa_server1			
	mds-owsm	jdbc/mds/owsm	AdminServer, bam_server1, soa_server1			
	mds-soa	jdbc/mds/MDS_LocalTxDataSource	AdminServer, soa_server1			
	OraSDPMDataSource	jdbc/OraSDPMDataSource	bam_server1, soa_server1			
	SOADataSource	jdbc/SOADataSource	soa_server1			
	SOALocalTxDataSource	jdbc/SOALocalTxDataSource	soa_server1			
New	Delete					

Click on New as shown in above window

Create a new datasource dialogue will appear.

5

🚰 Create a New JDBC Data Source - soa_dom	ain - WLS Console - Microsoft Internet Explorer	_ 8 ×
Eile Edit Yiew Favorites Tools Help		- 🥂
🚱 Back 🔹 🕥 👻 😰 🐔 🔎 Search 🔹	Favorites 🛷 😥 💀 🖌 🛄 📖	
Address 🗃 http://hyder-server:7001/console/cons	ole. portal?CreateGlobalJDBCDataSourcePortletreturnTo=GlobalJDBCDataSourceTablePage&GlobalJDBCDataSourceTablePortlethandl 🗾 🎅 Go	Links »
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New JDBC Data Source Back Next Finish Cancel	-
Domain Structure	JDBC Data Source Properties	···
soa_domain D-Environment Servers Clusters	The following properties will be used to identify your new JDBC data source. * Indicates required fields	
Virtual Hosts Migratable Targets Machines	What would you like to name your new JDBC data source?	
Work Managers Startup & Shutdown Classes	御 *Name: JDBC Data Source-0	
t-Deployments D-Services	What JNDI name would you like to assign to your new JDBC Data Source?	
Herman Sector Se	6월 JNDI Name:	
Create JDBC data sources     Create LLR-enabled JDBC data sources		
System Status	What database type would you like to select?	
Health of Running Servers	Database Oracle	
Failed (0)	······································	
Critical (0)	What database univer would you like to use to treate database connections? Note: * Indicates that the univer is explicitly supported by oracle WebLogic Server.	
Warning (0)	Database *Oracle's Driver (Thin XA) for Instance connections; Versions:9.0.1,9.2.0,10,11	
OK (3)	Dest Most Chick Consel	
C Done	Trusted sites	

Give datasource name and jndi name for the datasource.

Provide details like the database type

Database drivers want to use.

Database=oracle, driver is non-XA thin driver.

Click on next, the following page appears

Deselect the supports Global Transactions check box and click next

The following page prompts for the database details to create the data source.

Create a New JDBC Data Source - soa_doma	ain - WLS Console - Microsoft Internet I	Explorer
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Back 🝷 🕤 👻 😰 🐔 🔎 Search , 🖈	Favorites  🙆 - 😓 🗁 - 🗔 👔	1
dress 🙋 http://hyder-server:7001/console/conso	ole.portal?CreateGlobalJDBCDataSourcePortle	et_actionOverride=/com/bea/console/actions/jdbc/datasources/createjdbcdatasource/z 🚽 🎅 Go 🛛 Lir
Configuration editing is enabled. Future	Create a New JDBC Data Source	
odify, add or delete items in this domain.	Back Next Finish Cancel	
omain Structure	Connection Properties	
a_domain	Define Connection Properties.	
Servers	What is the name of the database you w	ould like to connect to?
Clusters Virtual Hosts Migratable Targets	Database Name:	fusion
Machines	What is the name or IP address of the da	utabase server?
Startup & Shutdown Classes Deployments 3Services	Host Name:	localhost
Hessaging	What is the port on the database server	used to connect to the database?
low do I	Port:	1521
Create IDBC data sources	What database account user name do yo	ou want to use to create database connections?
Create LLR-enabled JDBC data sources	Database User Namer	
	Database user Manie.	system
rstem Status	What is the database account password	to use to create database connections?
ealth of Running Servers	Password	
Failed (0)	1 0339901 0.	
Critical (0)	Confirm Password:	
Overloaded (0)		
Warning (u)	Back Next Finish Cancel	
OK (3)		
Done		Trusted sites

Test Configuration Back Next Fin	ish Cancel
Test Database Connection	· · · · · · · · · · · · · · · · · · ·
Test the database availability and the co	nnection properties you provided.
What is the full package name of JDBC dri	ver class used to create database connections in the connection pool?
(Note that this driver class must be in the	classpath of any server to which it is deployed.)
Driver Class Name:	oracle.jdbc.OracleDriver
What is the URL of the database to conne	ect to? The format of the URL varies by JDBC driver.
URL:	jdbc:oracle:thin:@localhos
What database account user name do you	u want to use to create database connections?
Database User Name:	system
What is the database account password t	o use to create database connections?
(Note: for secure password management,	enter the password in the Password field instead of the Properties field below)
Password:	•••••••••••
Make sure the following message	appears
Messages	
$\checkmark$ Connection test succeeded.	
Create a New JDBC Data Source	

Click finish to complete the wizard.