

# Installing Metadata Repository for Fusion Middleware

- Install oracle Database 10.2.0.4 or 11.1.0.7+
- Install Oracle Weblogic Server 11g
- Download and unzip the rcu ( Repository Creation Utility)
- Install SOA Suite
- Configure SOA Install

# Oracle Metadata Repository

- Most components require a database-based repository. In those cases, you must use the Oracle Fusion Middleware Metadata Repository Creation Utility (RCU) to create the Oracle Metadata Repository in an existing database. You use RCU to create schemas to hold configuration information for particular components, and optionally, for overall configuration information.

**To create a metadata repository:**

**1. Invoke RCU, using the following command:**

(UNIX) *RCU\_HOME/bin/rcu*

(Windows) *RCU\_hOME\bin\rcu.bat*

**2. On the Welcome page, click Next.**

The Create Repository page appears.

**3. To create the repository, which loads the component schemas into the database, select Create, then click Next.**

The Database Connection Details page appears.

#### **4. Provide the following information about the database into which you want to load**

the component schemas:

■ **Database Type: Select the type of database. This example assumes that you**

are using an Oracle Database.

■ **Host Name: Enter the host name for the computer where the database is**

installed, for example: myhost.example.com.

■ **Port: Enter the port number, for example: 1521.**

■ **Database Name: Enter the Service Identifier (SID) for the database.**

- **Username:** Enter a user name for the database which is assigned the **SYSDBA**
- role, for example: **SYS**.
- **■ Password:** Enter the password for the user.
- **■ Role:** Select **SYSDBA**.
- **5. Click Next.**
- The Checking Prerequisites dialog box is displayed.

- **6. When the operation completes, click OK.**
- The Select Components page appears.
- **7. Provide the following information:**
- **■ Select Create a New Prefix, and enter characters to be added to the beginning**
- of the schema names. For example, if you enter OFM, the Oracle Business
- Activity Monitoring schemas are named OFM\_ORABAM.
- **■ In the component table, select the components. For example, if you want to**
- install Oracle SOA Suite components, select SOA Infrastructure, as shown

## Select Components



- Welcome
- Create Repository
- [Database Connection Details](#)
- Select Components**
- [Schema Passwords](#)
- Map Tablespaces
- Summary
- Completion Summary

A Prefix groups the components associated with one deployment.

- Select an existing Prefix:
- Create a new Prefix:

Prefix can contain only alpha-numeric characters. Prefix should not start with a number and should not contain any special characters.

Component	Schema Owner
<input type="checkbox"/> Oracle AS Repository Components	
<input checked="" type="checkbox"/> AS Common Schemas	
<input checked="" type="checkbox"/> Metadata Services	OFM_MDS
<input type="checkbox"/> Audit Services	IAU
<input type="checkbox"/> Enterprise Scheduler Service	ORAESS
<input type="checkbox"/> Identity Management	
<input type="checkbox"/> ECM_SUITE	
<input type="checkbox"/> ODI_REPOSITORIES	
<input type="checkbox"/> WebLogic Communication Services	
<input checked="" type="checkbox"/> SOA Infrastructure	
<input checked="" type="checkbox"/> SOA Infrastructure	OFM_SOAINFRA
<input checked="" type="checkbox"/> Business Activity Monitoring	OFM_ORABAM
<input checked="" type="checkbox"/> User Messaging	OFM_ORASDPM
<input type="checkbox"/> Webcenter Suite	

Messages:

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Cancel



- **8. Click Next.**
- **9. The Checking Prerequisites dialog box is displayed.**  
**When the operation**
  - completes, click **OK**.
  - The Schema Passwords page appears.
- **10. You can use the same password for all schemas, or enter passwords for each**
  - schema. If you enter passwords for each schema, you can specify that auxiliary
  - schemas use the same password as the main schema. In this case, select **Use same**
  - **passwords for all schemas. Then, enter the password and re-enter it to confirm.**

- **11. Click Next.**
- The Map Tablespaces page appear.
- **12. This page displays the default tablespaces for each schema. You can manage the**
- tablespaces, configuring the size, storage type, and data files for the tablespaces. In
- addition, depending on the components you selected, you may be able to specify
- additional tablespaces for the components.
- For this example, assume the default tablespace is adequate. Click **Next**.

- **13. A dialog box is displayed that says that any tablespaces that do not already exist**
- **are created. Click OK.**
- **14. A progress box is displayed. When the operation completes, click OK.**
- The Summary page appears.
- **15. Review the information and click Create.**
- A progress dialog box is displayed.

- **16. When it completes, note the details in the Completion Summary, and click Close.**
- Now, you have created a database-based metadata repository and have populated it
- with the required schemas.

Install SOA Suite.

Run the installer from the soa stage

`./runInstaller.sh` or `setup.exe`

Provide the jre location when prompted by the installer.

# Welcome



- Welcome
- Prerequisite Checks
- Specify Installation Location
- Installation Summary
- Installation Progress
- Installation Complete

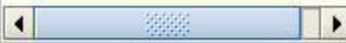
Welcome to Oracle Fusion Middleware 11g SOA Suite Installer.

**Before proceeding, create schemas for all products you want to install.** Schemas are created using the Repository Creation Utility. For more information, see the *Repository Creation Utility User's Guide* and the *Oracle Fusion Middleware Installation Guide for Oracle SOA Suite*.

**Before proceeding, install a WebLogic server.** For more information, see the WebLogic Server installation instructions in the *Oracle Fusion Middleware Installation Guide for Oracle SOA Suite*.

After all necessary schemas are created, and a WebLogic server is installed, click **Next** to proceed with the installation.

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Help < Back **Next >** Finish Cancel

Installer will check the system and packages  
Requirements (soa prereq)

Prompt for the location of Weblogic installation  
and soa server installation.

Displays a summary of installation.

Check and make sure there is no warnings or  
messages in the prereqs

# Installation Complete



**ORACLE** 11g  
FUSION MIDDLEWARE

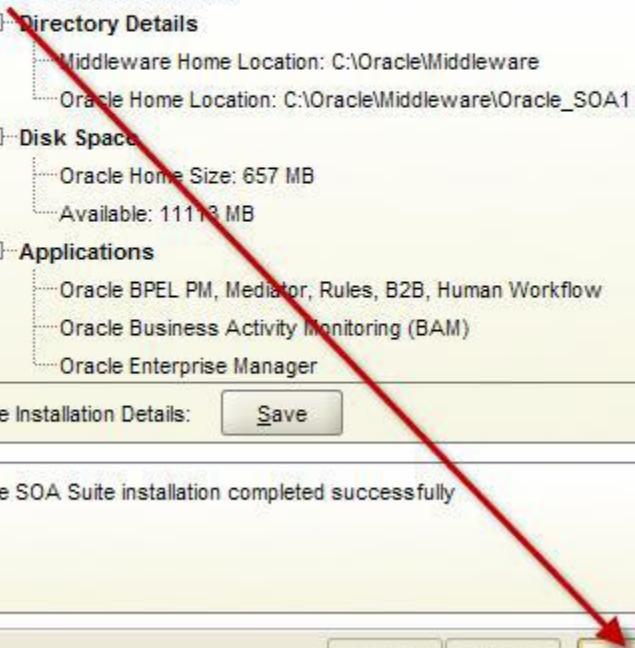
- Welcome
- Prerequisite Checks
- Specify Installation Location
- Installation Summary
- Installation Progress
- Installation Complete**

**Install Oracle SOA Suite**

- Directory Details**
  - Middleware Home Location: C:\Oracle\Middleware
  - Oracle Home Location: C:\Oracle\Middleware\Oracle\_SOA1
- Disk Space**
  - Oracle Home Size: 657 MB
  - Available: 11113 MB
- Applications**
  - Oracle BPEL PM, Mediator, Rules, B2B, Human Workflow
  - Oracle Business Activity Monitoring (BAM)
  - Oracle Enterprise Manager

Save Installation Details:

Oracle SOA Suite installation completed successfully





# Configure Domain for SOA Suite

To configure Oracle WebLogic Server and Oracle SOA Suite:

## 1. Invoke the Configuration Wizard:

(UNIX) *ORACLE\_HOME/common/bin/config.sh*

(Windows)

*ORACLE\_HOME\common\bin\config.cmd*

## 2. Follow the directions in the Installation Guide for the components. For example,

for Oracle SOA Suite, follow the directions in the section "Configuration

- In the Welcome screen, select Create a new WebLogic domain.
- In the Select Domain Source screen, select Oracle SOA Suite, Oracle Enterprise Manager, and Oracle Business Activity Monitoring. This automatically also selects Oracle JRF, and Oracle WSM Policy Manager.
- In the Specify Domain Name screen, specify SOA\_domain for the name of the domain and take the default for the domain location, as shown in the following figure:

Oracle WebLogic Configuration Wizard

Specify Domain Name and Location

ORACLE

Enter the name and location for the domain and its applications:

Domain name:

Domain location:

Application location:

■ In the Configure Administrator User Name and Password screen, use the default user name, weblogic, and enter a password. Then, re-enter the password.

■ In the Configure Server Start Mode and JDK screen, select **Production Mode**.

■ In the Configure JDBC Component Schema screen, the following instructions

assume that you have the same password and database for all of the schemas:

– **Select all of the schemas.**

– **For Vendor, select Oracle.**

– **For Driver, select Oracle's Driver (Thin) for Service connections;  
Versions:9.0.1,9.2.0,10,11.**

For **Driver**, select **Oracle's Driver (Thin)** for Service connections;  
**Versions:9.0.1,9.2.0,10,11.**

– **For Schema Owner**, do not enter anything if the schemas listed in the table are correct. Each data source uses the user name specified in the table.

If you need to change the schema owner, select each schema individually, then change the owner name.

– **If you used the same password when you created the schemas**, enter the password in **Schema Password**.

Alternatively, you can specify different passwords for each data source by entering them in the password column of the table.

– **With all of the schemas selected, for DBMS/Service**, enter the **SID** of the database.

– **With all of the schemas selected, for Host Name**, enter the host name of the database.

– **With all of the schemas selected, for Port**, enter the listening port of the database.

The following figure shows the Configure JDBC Component Schema page



## Configure JDBC Component Schema

ORACLE

**Note:** Change only the input fields below that you wish to modify and values will be applied to all selected rows.

Vendor: Oracle

DBMS/Service: orcl

Driver: \*Oracle's Driver (Thin) for Service connections; Versions:9.0.1

Host Name: dbhost.example.com

Schema Owner: OFM\_MDS

Port: 1521

Schema Password: \*\*\*\*\*

Configure selected component schemas as RAC multi data source schemas in the next panel.

	Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password
<input type="checkbox"/>	BAM Schema	orcl	dbhost.example.coi	1521	OFM_ORABAM	*****
<input type="checkbox"/>	SOA Infrastructure	orcl	dbhost.example.coi	1521	OFM_SOAINFRA	*****
<input type="checkbox"/>	User Messaging Service	orcl	dbhost.example.coi	1521	OFM_ORASDPM	*****
<input type="checkbox"/>	OWSM MDS Schema	orcl	dbhost.example.coi	1521	OFM_MDS	*****
<input checked="" type="checkbox"/>	SOA MDS Schema	orcl	dbhost.example.coi	1521	OFM_MDS	*****

Exit

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- Make sure you enter appropriate values for each of the components.

- Start Admin Server and managed server

*MW\_HOME/user\_projects/domains/SOA\_domain/bin/startWeblogic.sh*

-Dweblogic.management.username=*username*

-Dweblogic.management.password=*password*

- Start Managed Server

*MW\_HOME/user\_projects/domains/SOA\_domain/bin/startManagedWebLogic.sh*

*soa\_server1 http://hostname:7001*

*username password*



- ***Stop***
- Whenever you need to stop the server complete the following:
- a) Stop the managed servers first by entering CTRL-C in the command window.
- Wait until stopped.
- b) Stop the admin server by entering CTRL-C in the command window.