

UCM Server Setup  
Oracle FLEXCUBE Investor Servicing  
Release 14.1.0.0.0  
[May] [2019]



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# 1. Introduction

## 1.1 Background

This document provides an overview of setting up the UCM server for capturing of all documents received from/given to customer in a central content management repository. Oracle documentation are to be referred for HA and other configuration patterns.

## 1.2 Organization of the Document

The first chapter of this document gives an introduction with brief background and organization of the document.

Subsequent chapters of this document will give the implementation details.

## 1.3 Acronyms and Abbreviations

UCM	Universal Content Management
IPM	Imaging and Process Management
RCU	Repository Creation Utility

## 2. Prerequisites

Oracle Weblogic 11gR1 (10.3.6)

Download Oracle Weblogic from Oracle Website.

1. Download based on your needs (Windows/Linux/Generic).
2. The installation process might slightly vary depending on the platform / mode if installation (package/net).

### 2.1 Create Repository in order to Configure the Application

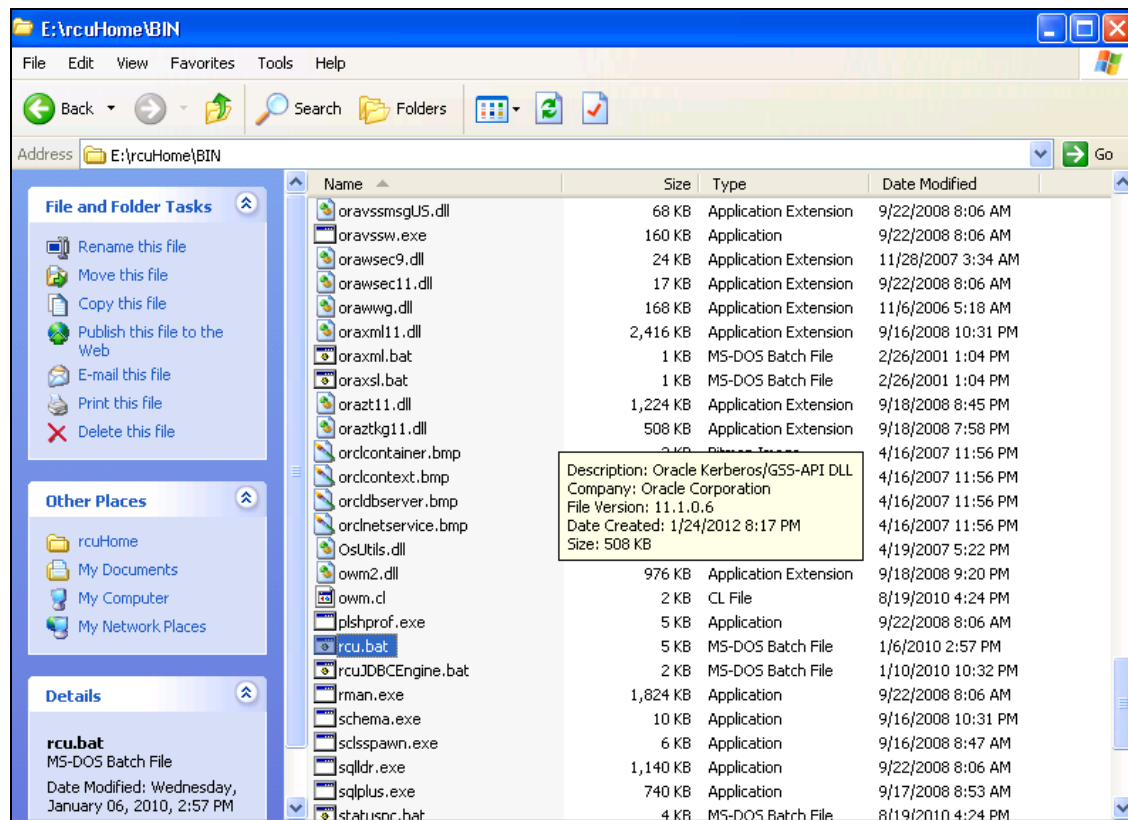
Oracle Repository Creation Utility (RCU) is used to create schemas that are required for UCM server Installation.

1. Install Database.
2. Navigate to the directory into which RCU is installed. For Example

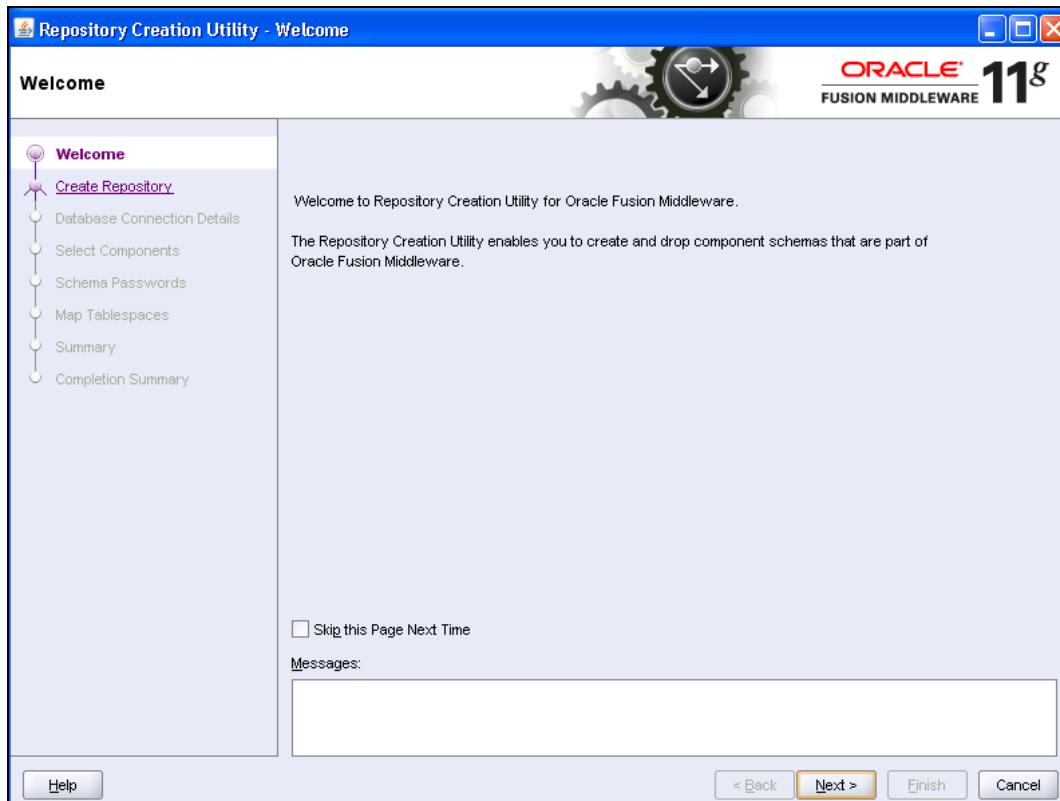
<rcu\_home>\BIN

Where rcu\_home is the directory in which RCU is installed.

3. Click on rcu.bat file to create the repository.



The Repository Creation Welcome Screen appears.



4. Select Create, and then click 'Next'.

Repository Creation Utility - Step 1 of 7 : Create Repository

ORACLE 11g FUSION MIDDLEWARE

Create Repository

Welcome

Create Repository

Database Connection Details

Select Components

Schema Passwords

Map Tablespaces

Summary

Completion Summary

Create

Create and load component schemas into a database.

Drop

Remove component schemas from a database.

Messages:

Help < Back Next > Finish Cancel

Repository Creation Utility - Step 2 of 7 : Database Connection Details

ORACLE 11g FUSION MIDDLEWARE

Database Connection Details

Welcome

Create Repository

Database Connection Details

Select Components

Schema Passwords

Map Tablespaces

Summary

Completion Summary

Database Type: Oracle Database

Host Name: localhost

For RAC database, specify VIP name or one of the Node name as Host name.

Port: 1521

Service Name: ORCL123

Username: sys

User with DBA or SYSDBA privileges. Example: sys

Password: .....

Role: SYSDBA

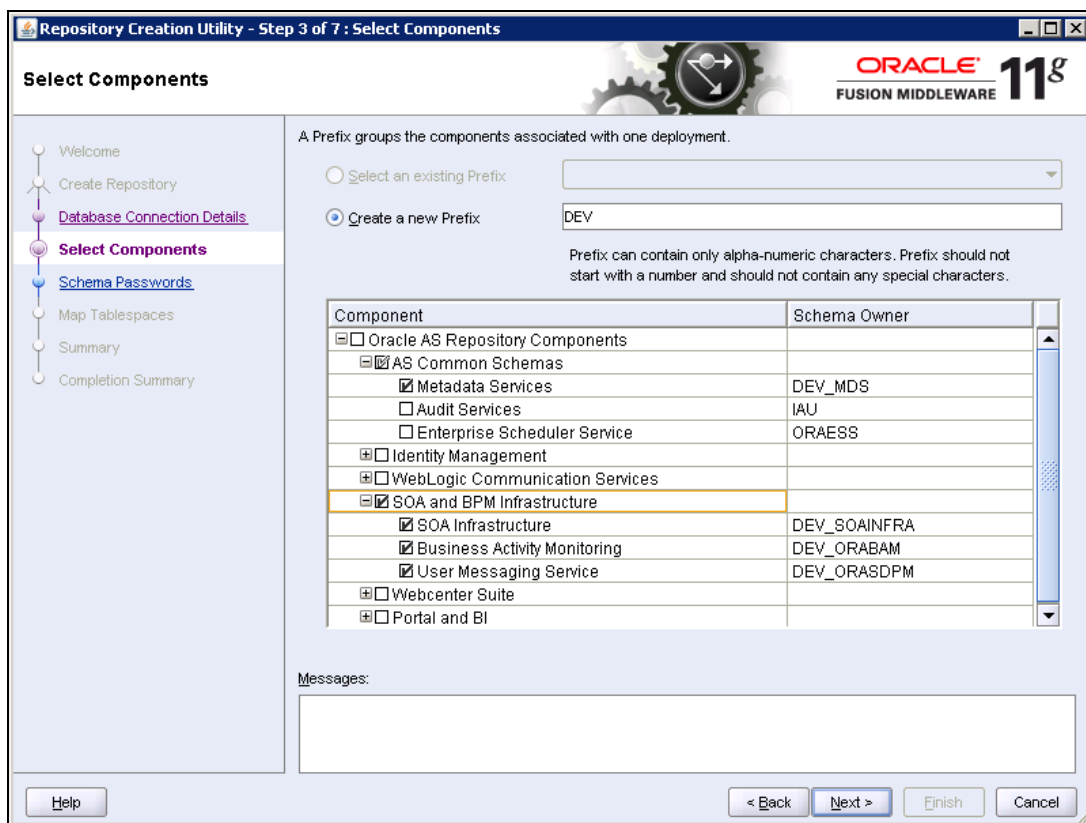
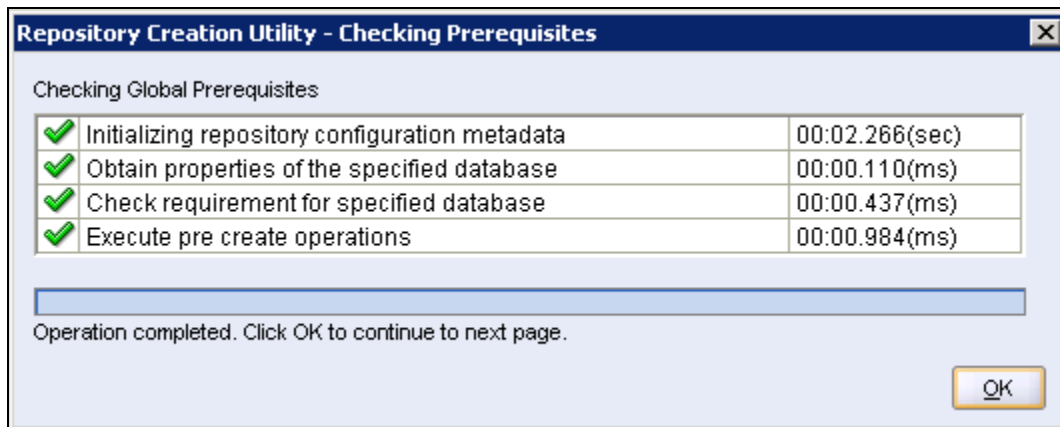
One or more components may require SYSDBA role for the operation to succeed.

Messages:

Help < Back Next > Finish Cancel

5. Provide oracle database connection properties

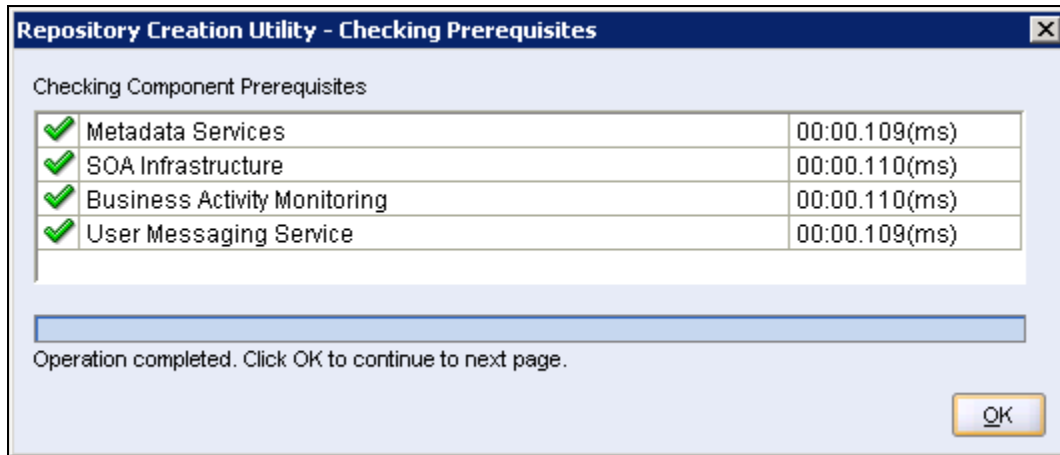
6. SYS credentials are required.



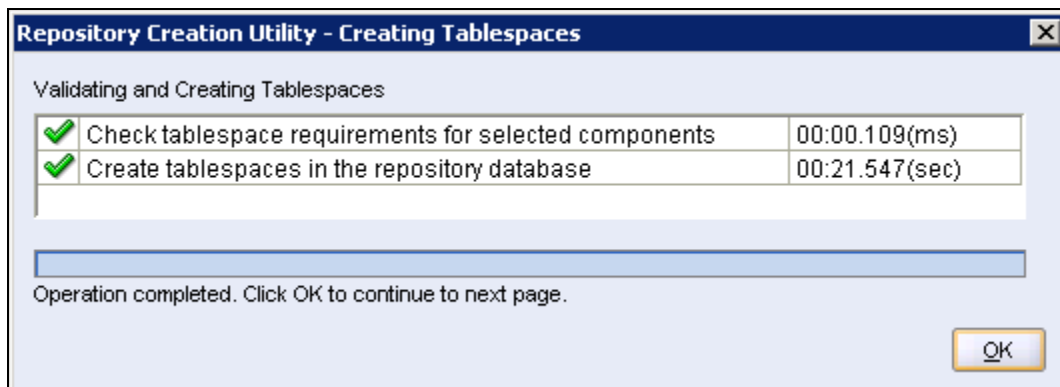
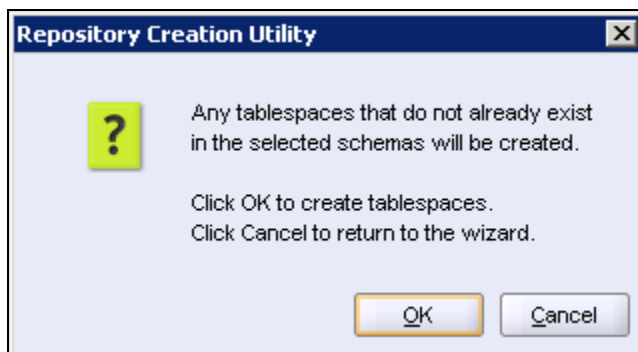
7. The prefix option is provided so that multiple soa schemas can be in the same instance.

8. Select Enterprise Content Management

- DEV\_OCS
- DEV\_OCSSEARCH
- DEV\_IPM



9. Please make a note of the password / passwords being used.





## 10. Tablespaces creation.

**Repository Creation Utility - Step 6 of 7: Summary**

**Summary**

Database details:

Host Name: ddhp0240.i-flex.com  
Port: 1521  
Service Name: ORCL.I-FLEX.COM  
Connected As: SYS  
Operation: Create  
Prefix for (prefixable) Schema Owners:DEV

Component	Schema Owner	Tablespace Type	Tablespace Name
Metadata Services	DEV_MDS	Default	DEV_MDS
		Temp	DEV_IAS_TEMP
		Additional	None
SOA Infrastructure	DEV_SOAINFRA	Default	DEV_SOAINFRA
		Temp	DEV_IAS_TEMP
		Additional	None
Business Activity Monitoring	DEV_ORABAM	Default	DEV_ORABAM
		Temp	DEV_IAS_TEMP
		Additional	None
User Messaging Service	DEV_ORASDPM	Default	DEV_IAS_ORASDPM
		Temp	DEV_IAS_TEMP
		Additional	None

Buttons: Help, < Back, Next >, Create, Cancel

## 11. Summary

**Repository Creation Utility - Step 7 of 7: Completion Summary**

**Completion Summary**

Database details:

Host Name: localhost  
Port: 1521  
Service Name: ORCL123  
Connected As: sys  
Operation: Create  
RCU Logfile: E:\rcuHome\rcu\log\logdir.2012-03-05\_11-57\rcu.log  
Component Log Directory: E:\rcuHome\rcu\log\logdir.2012-03-05\_11-57  
Execution Time: 37 seconds  
Prefix for (prefixable) Schema Owners:DEV11

Component	Status	Logfile	Time
Oracle Content Server 11g - Complete	Success	contentserver11.log	00:08.229(sec)
Oracle Content Server 11g - Search Only	Success	contentserver11search.log	00:00.983(ms)
Oracle Imaging and Process Management	Success	ipm.log	00:01.953(sec)

Buttons: Help, < Back, Next >, Create, Close

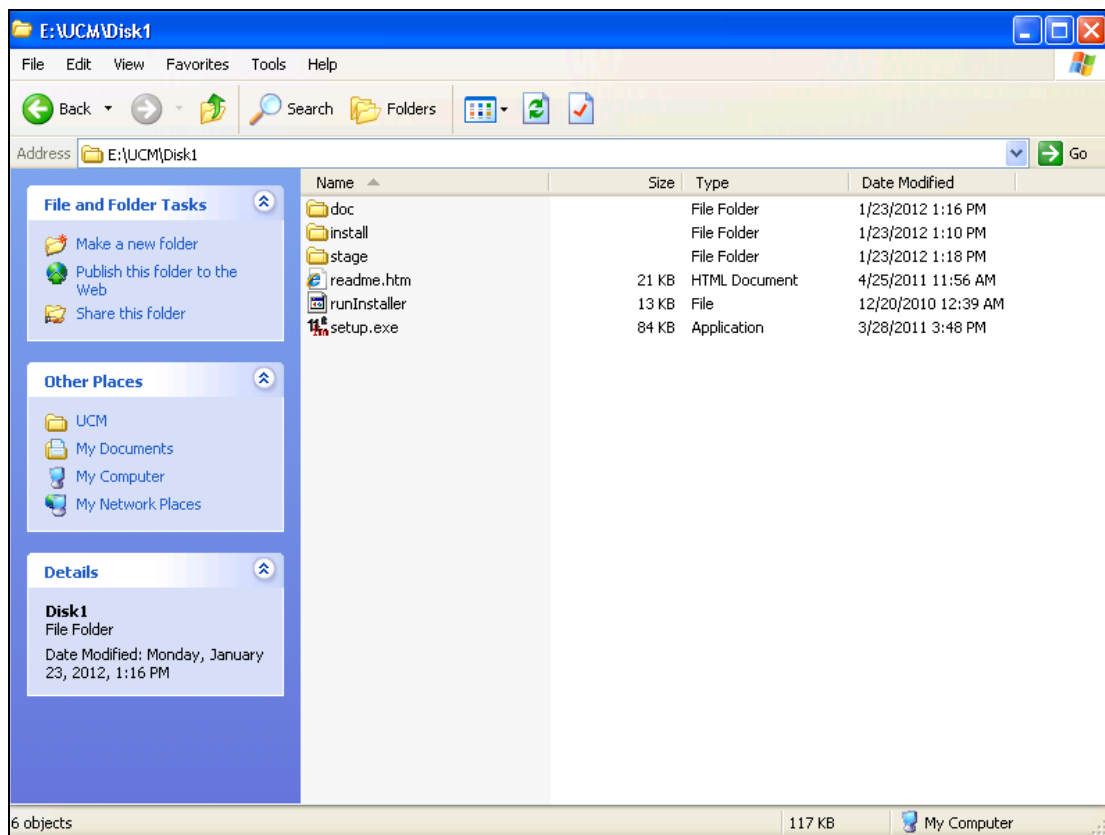
## 12. Completion Summary.

### 3. UCM Server Setup

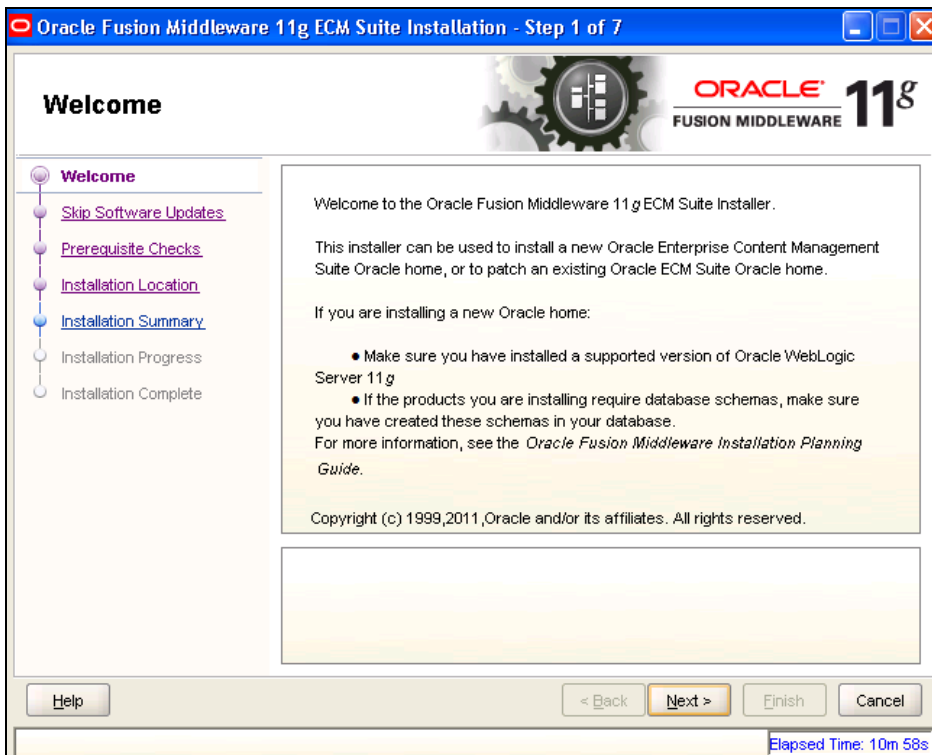
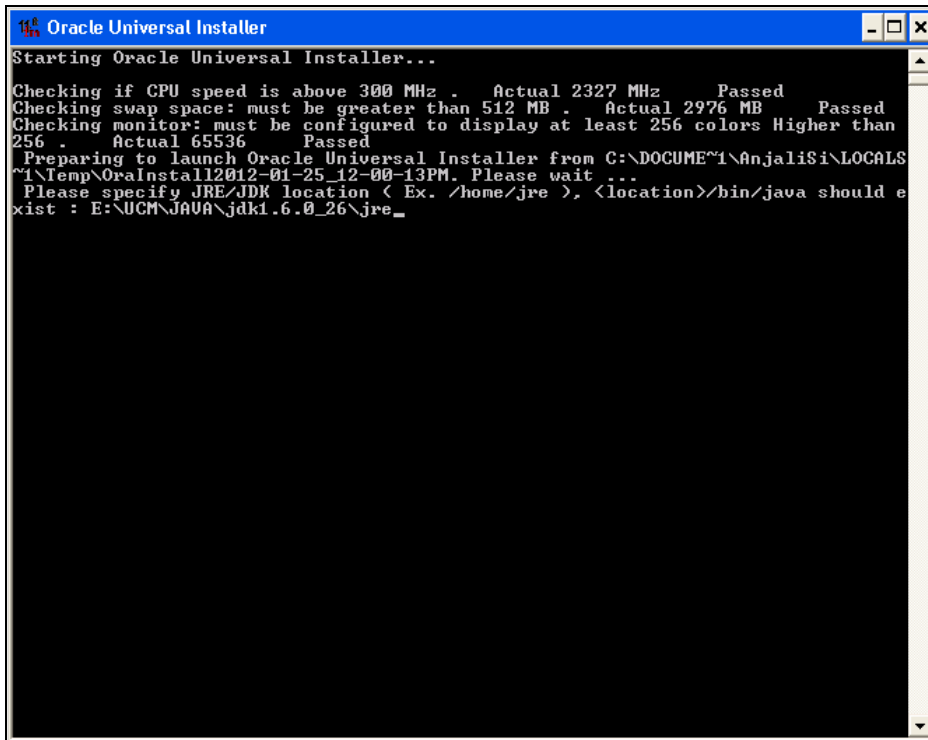
1. Download Oracle Webcenter Content 11gR1 (Version: 11.1.1.9.0), formerly known as (Oracle Enterprise Content Management) from

<https://sac.us.oracle.com/download/index.html>

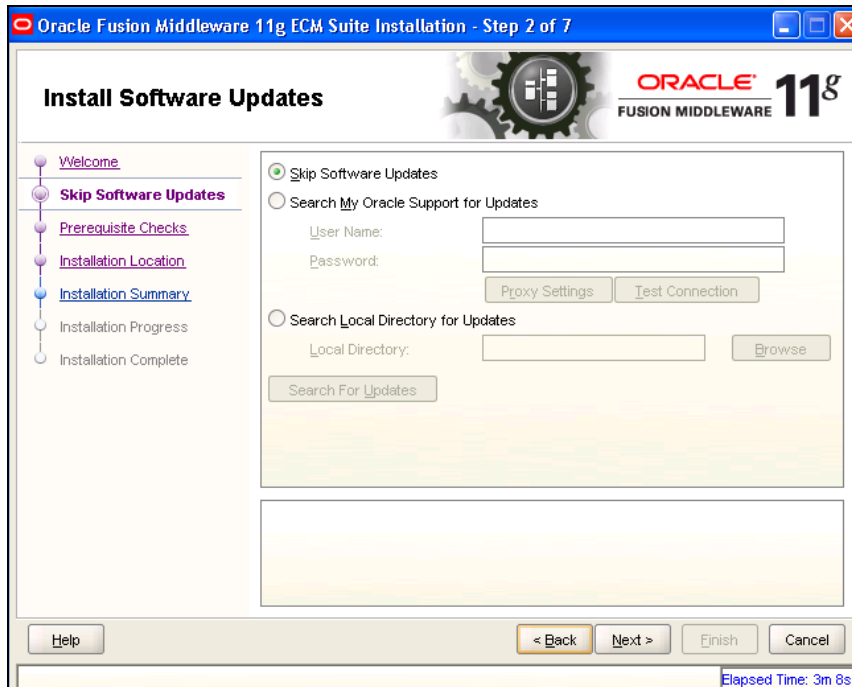
2. At the right top corner there is a search box, where searching for string <11.1.1.9.0>
3. Search for <Enterprise Content> in the result page and find a zip which is downloadable and download it
4. Extract all the files and Install them on the server machine.



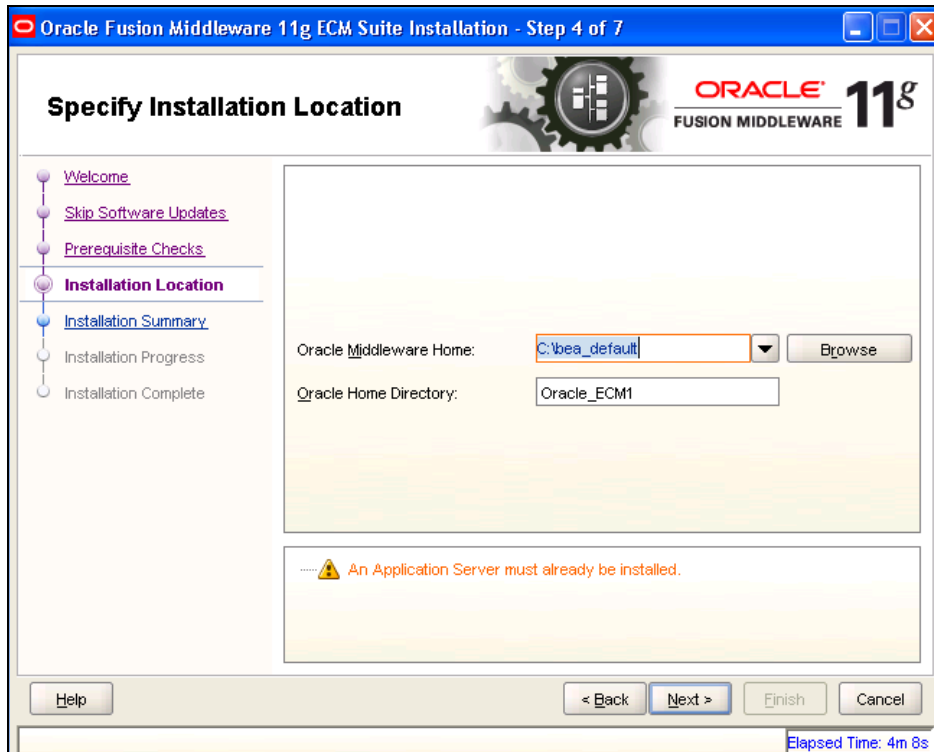
5. Click on Setup.exe available in Disk1. It will ask you for a JRE location. Specify the location as E:\UCM\JAVA\jdk1.7.0.80\jre.



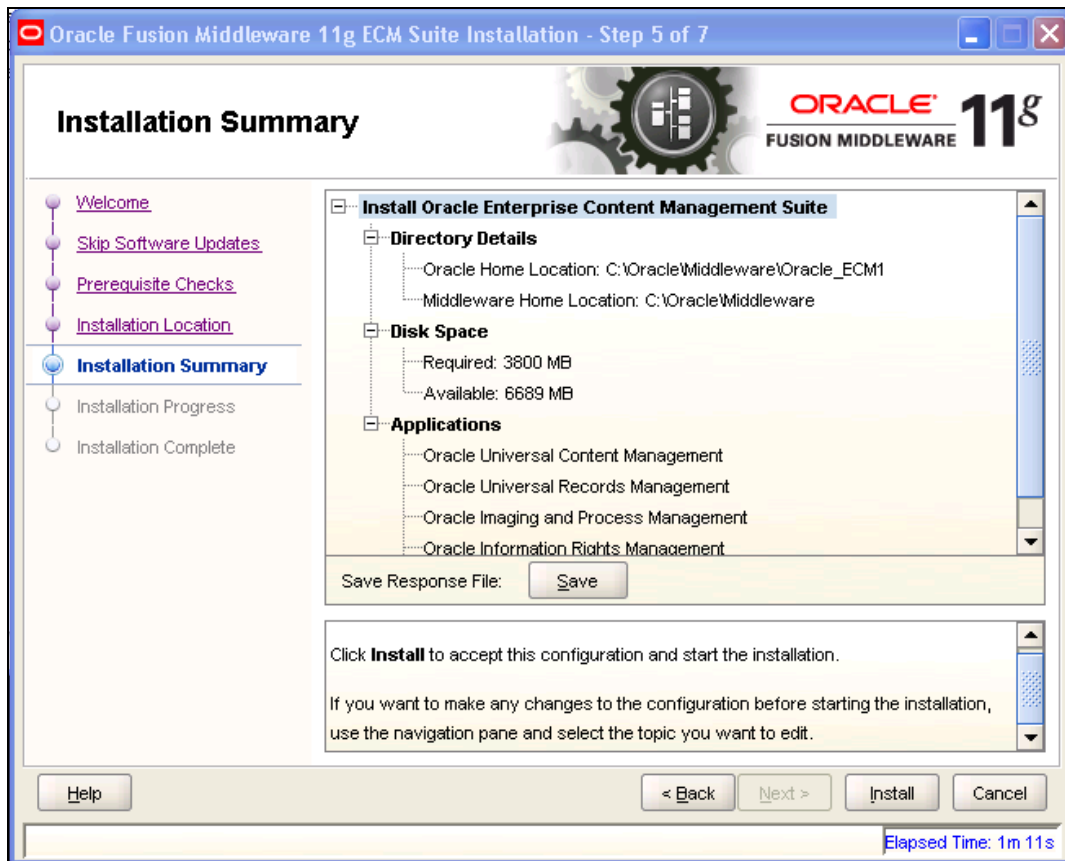
6. Click 'Next' to navigate to skip software updates



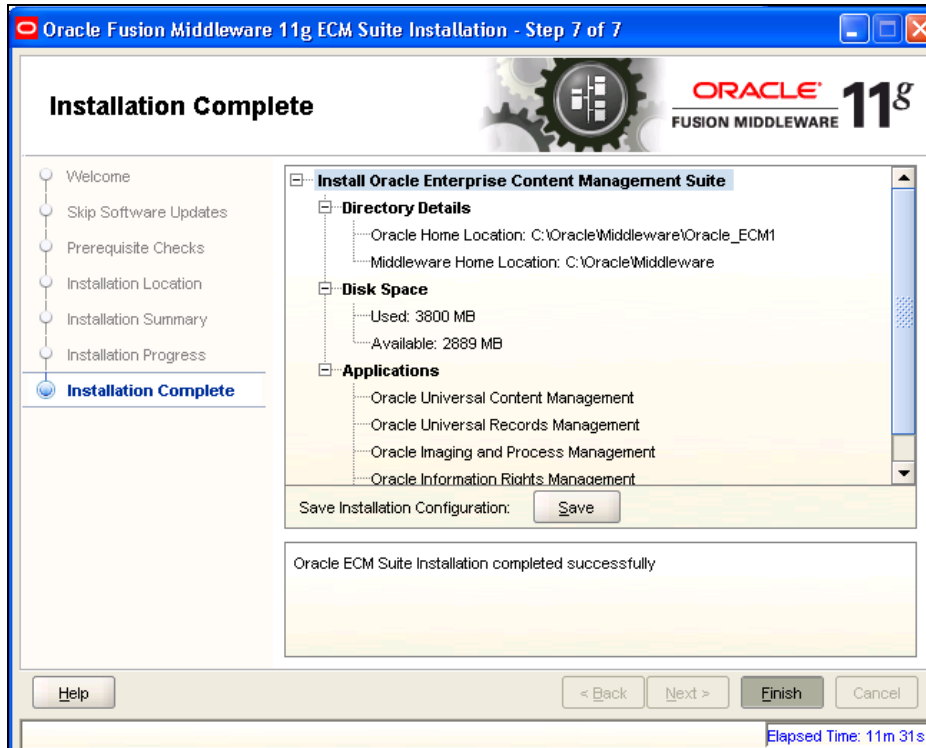
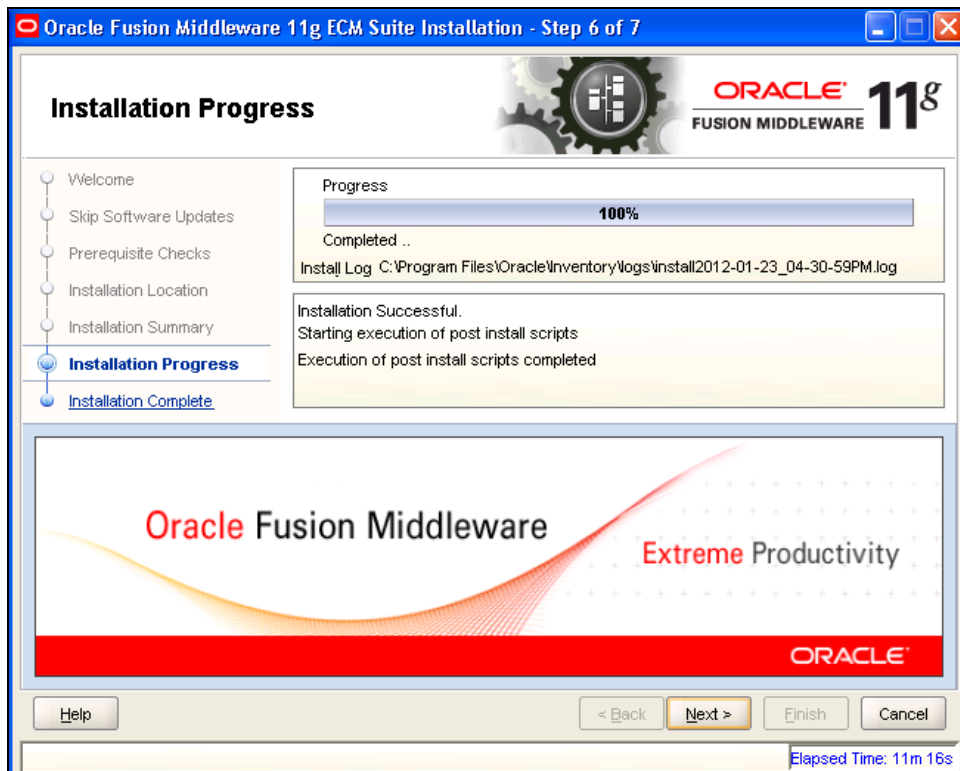
7. Click 'Next' to navigate to specify Installation Location.



8. Specify your Oracle Middleware home directory path and click next. Oracle Middleware version should be 10.3.6.



9. Click on Install button to accept this configuration and start the Installation



10. To verify the installation, Click start, navigate to All programs and then to ECM 11g home.

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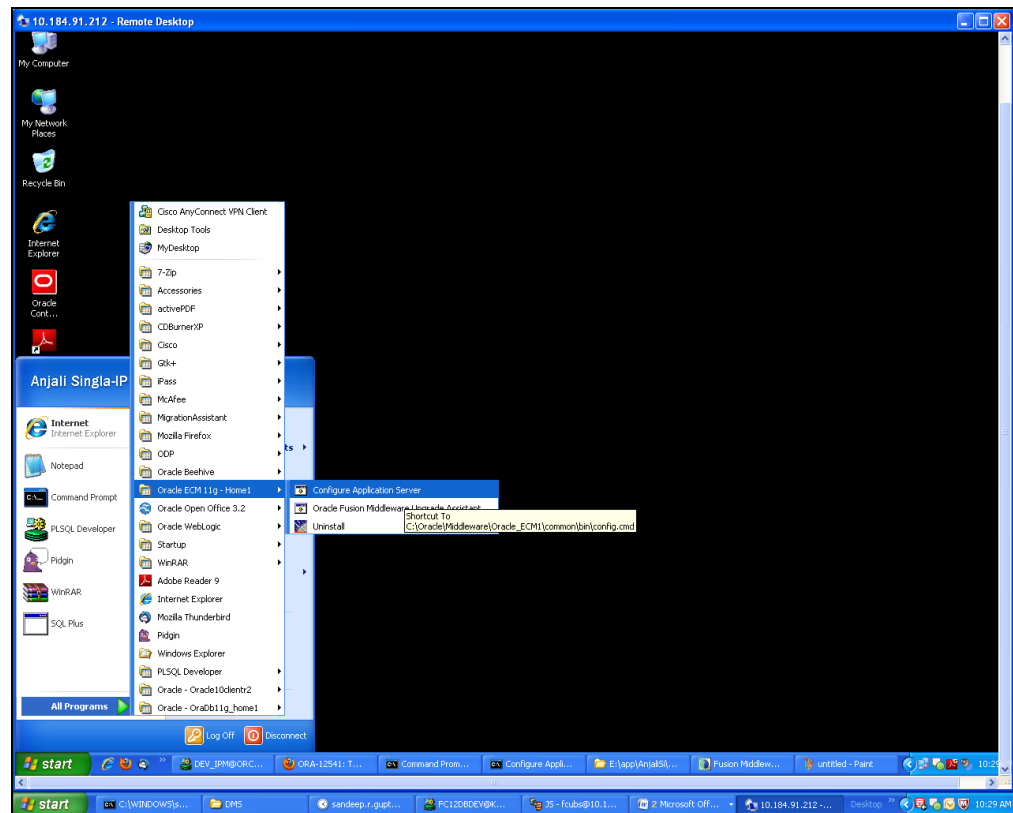
## 4. Configuring the ECM application server:

### 4.1 Introduction

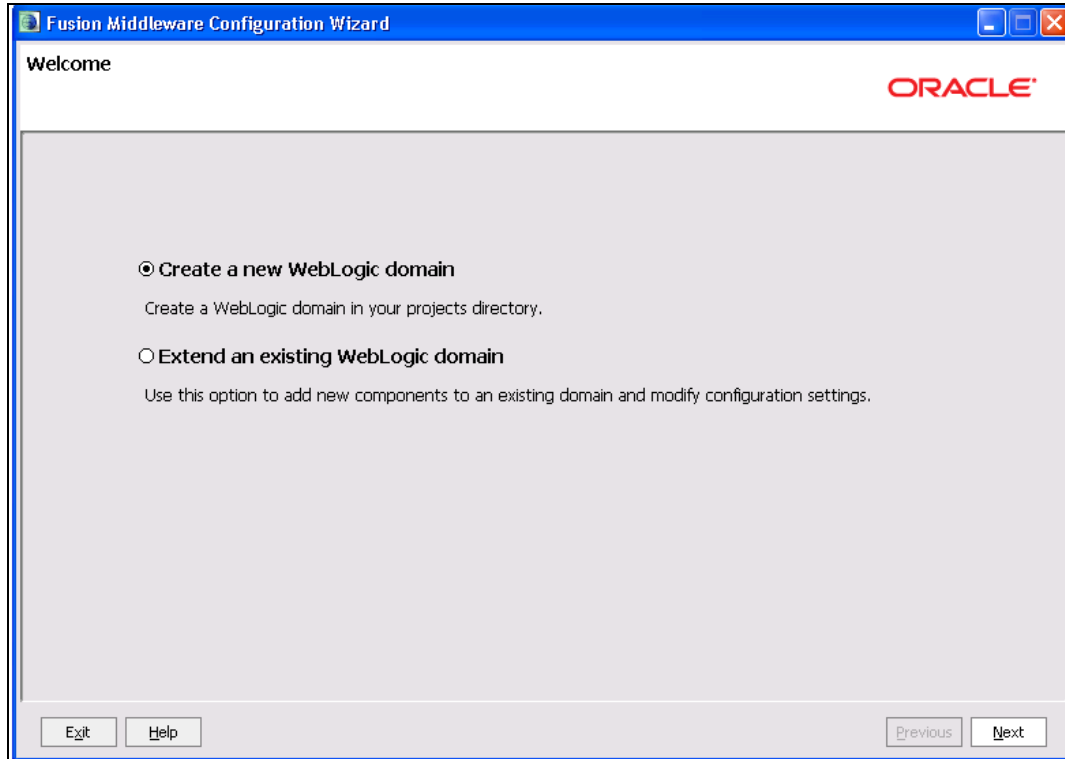
New domain can be configured or an existing domain can be extended with Oracle ECM suite components.

### 4.2 New Domain Configuration

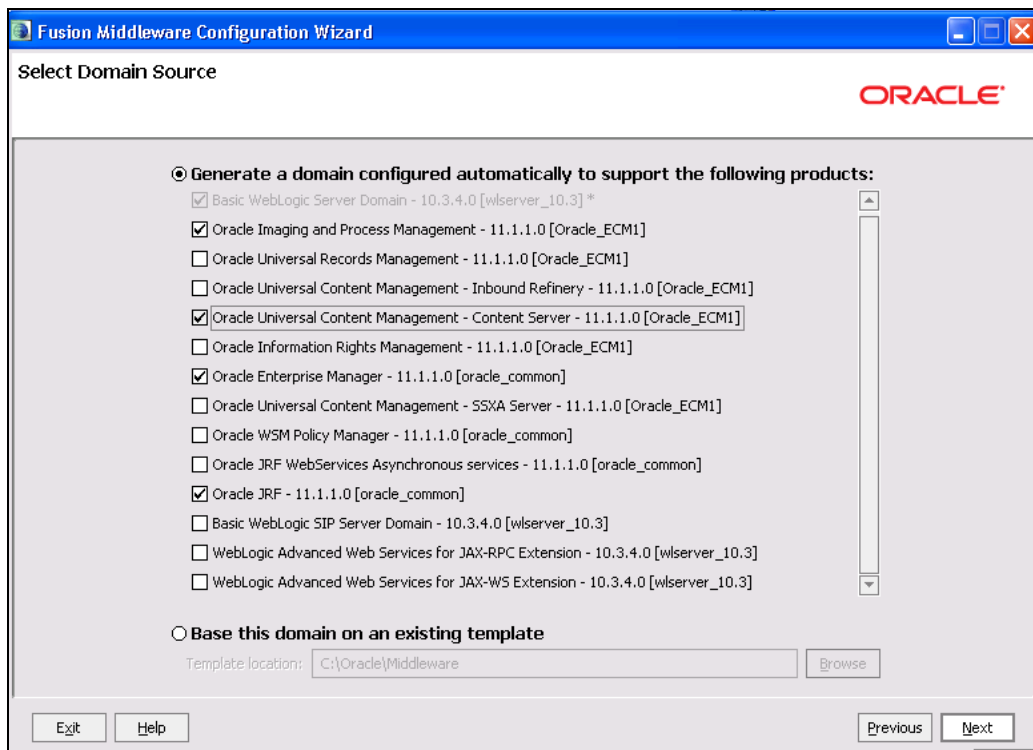
1. Run Configure Application server



## Creating a new WebLogic domain

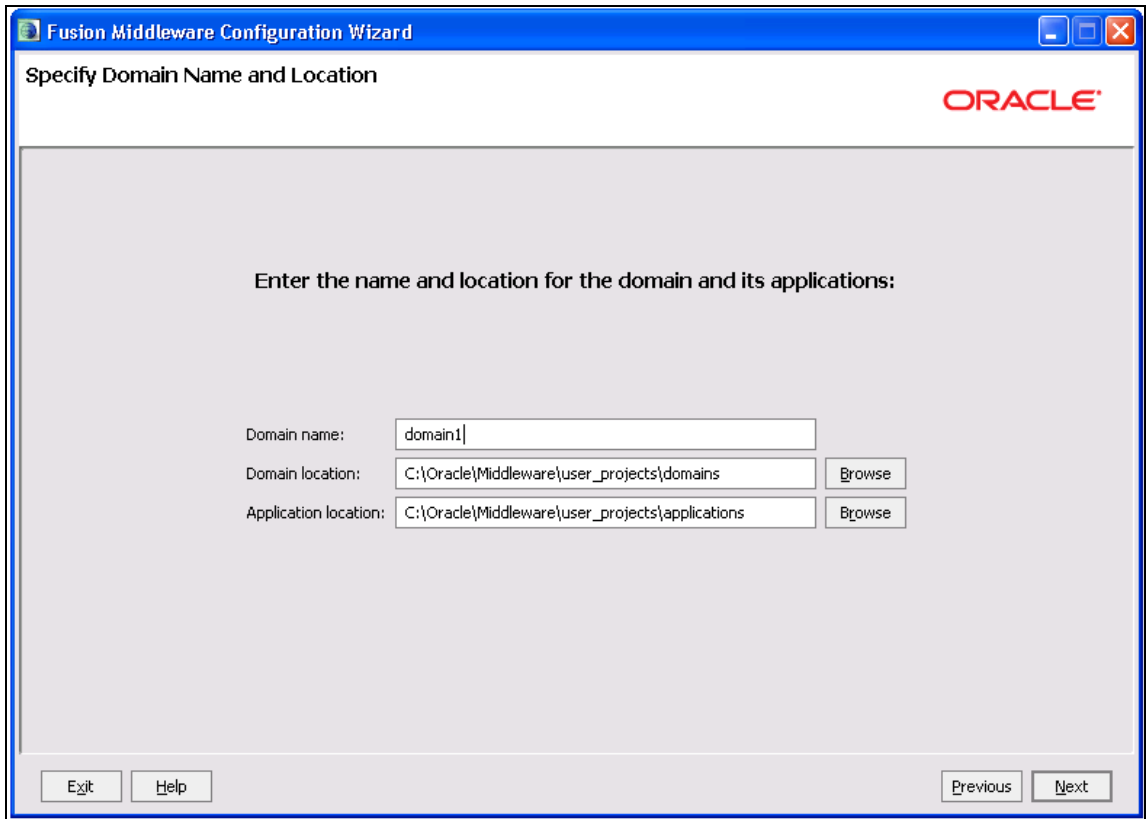


2. Create a new domain / extend an existing domain to include ECM suite components.





3. On selecting Oracle IPM and UCM (Content Server) it automatically selects Oracle Enterprise Manager and Oracle JRF.



The screenshot shows the 'Specify Domain Name and Location' window of the Fusion Middleware Configuration Wizard. The window has a blue title bar with the text 'Fusion Middleware Configuration Wizard' and standard Windows window controls. The main content area is light gray and contains the text 'Enter the name and location for the domain and its applications:'. Below this text are three input fields: 'Domain name:' with the value 'domain1', 'Domain location:' with the value 'C:\Oracle\Middleware\user\_projects\domains', and 'Application location:' with the value 'C:\Oracle\Middleware\user\_projects\applications'. Each input field has a 'Browse' button to its right. At the bottom of the window are four buttons: 'Exit', 'Help', 'Previous', and 'Next'. The Oracle logo is in the top right corner.

**Fusion Middleware Configuration Wizard**

Specify Domain Name and Location

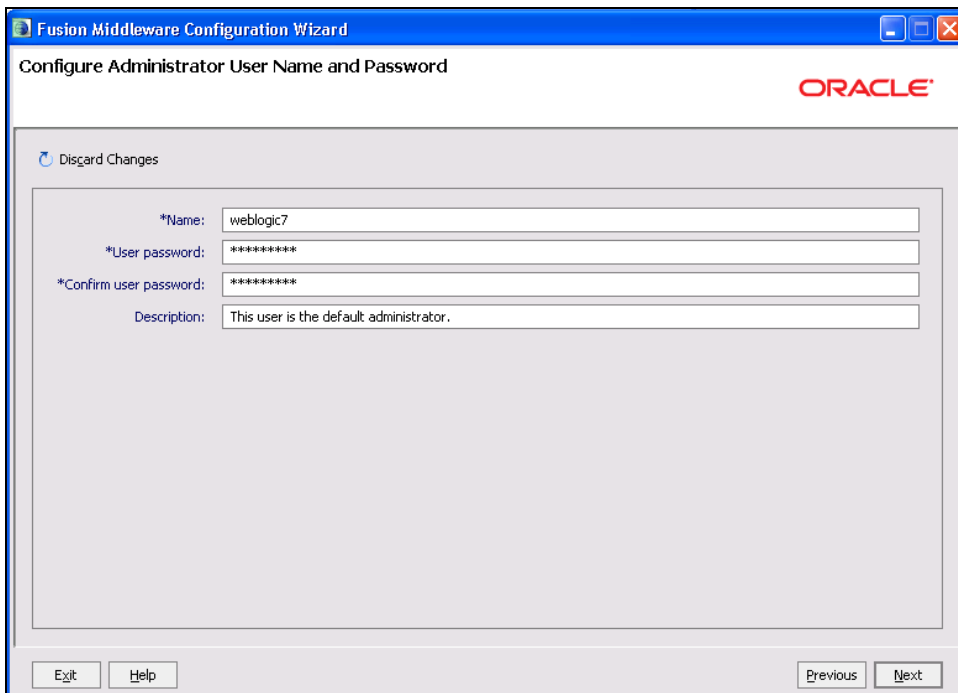
ORACLE

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

Domain name:

Domain location:

Application location:



The screenshot shows the 'Configure Administrator User Name and Password' window of the Fusion Middleware Configuration Wizard. The window has a blue title bar with the text 'Fusion Middleware Configuration Wizard' and standard Windows window controls. The main content area is light gray and contains a 'Disgard Changes' link at the top left. Below this are four input fields: '\*Name:' with the value 'weblogic7', '\*User password:' with the value '\*\*\*\*\*', '\*Confirm user password:' with the value '\*\*\*\*\*', and 'Description:' with the value 'This user is the default administrator.'. At the bottom of the window are four buttons: 'Exit', 'Help', 'Previous', and 'Next'. The Oracle logo is in the top right corner.

**Fusion Middleware Configuration Wizard**

Configure Administrator User Name and Password

ORACLE

[Disgard Changes](#)

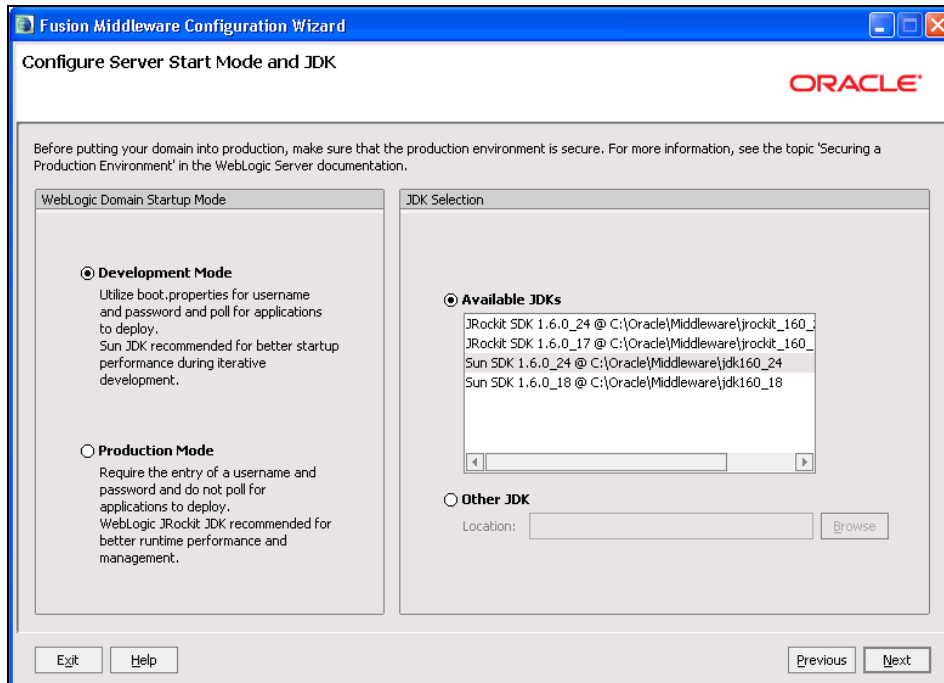
\*Name:

\*User password:

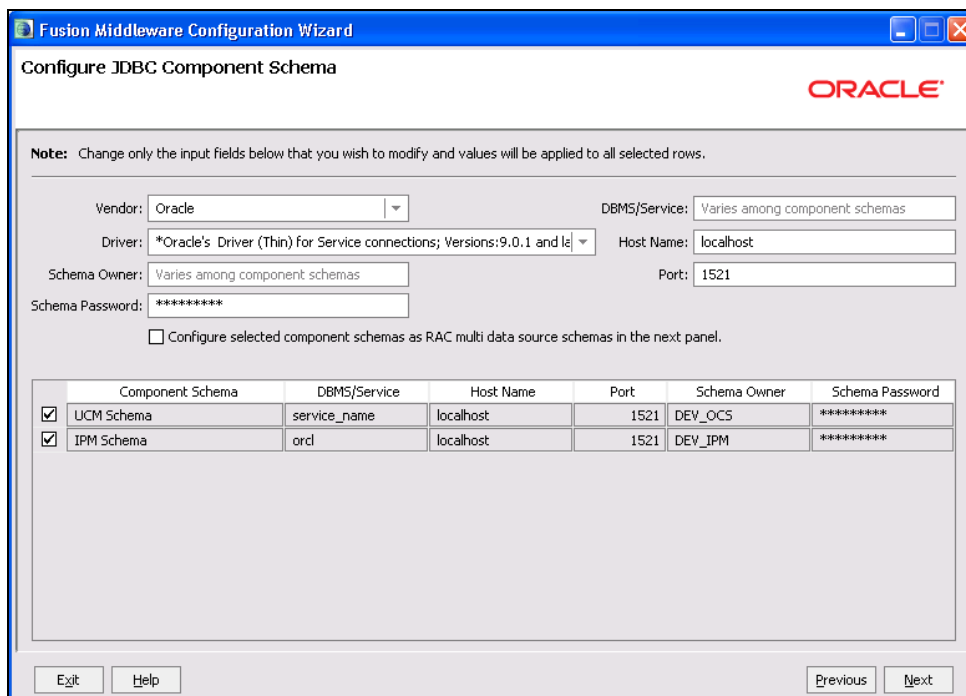
\*Confirm user password:

Description:

#### 4. Configure Administrator user / password.

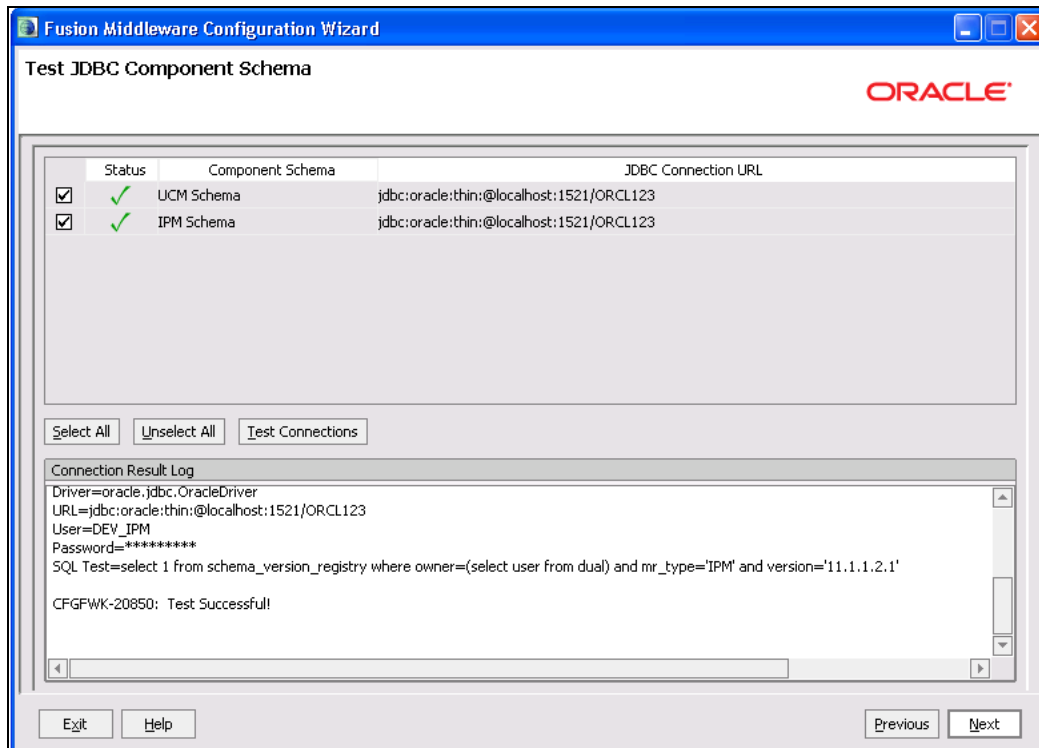


#### 5. Select jdk depending on the Startup mode.

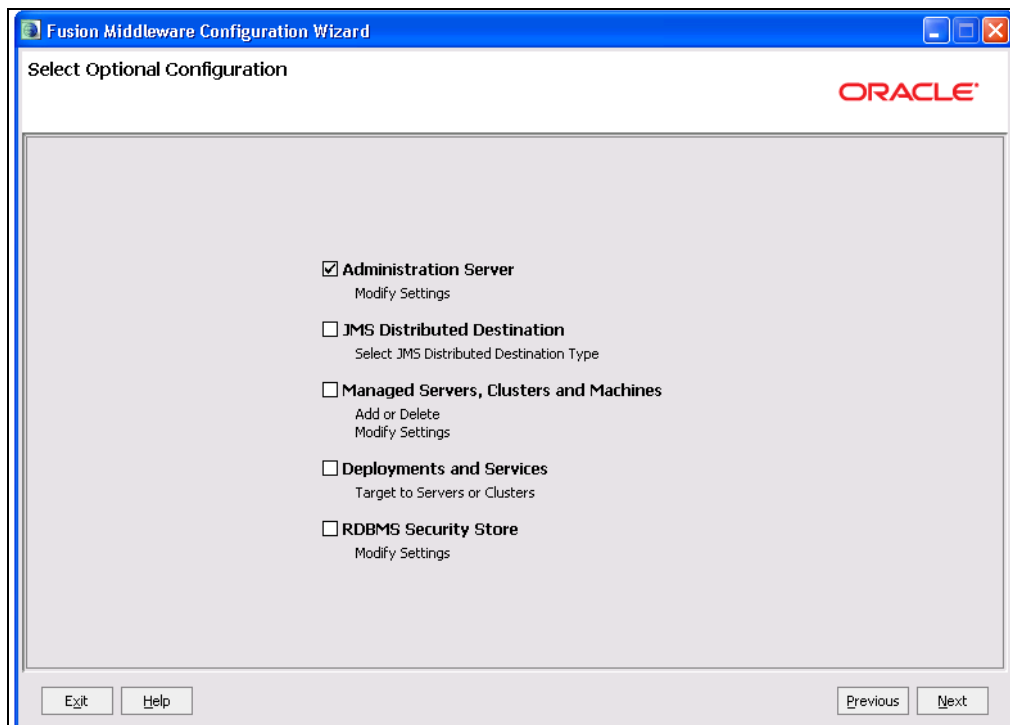


#### 6. Provide the db parameters used during schema creation(RCU Utility)

- Specify your hostname and schema password of both UCM and IPM schema. Also specify the correct DBMS/Service name.



- Test the database connectivity



The screenshot shows the 'Configure the Administration Server' window in the Fusion Middleware Configuration Wizard. The window has a blue title bar with the text 'Fusion Middleware Configuration Wizard'. The main title is 'Configure the Administration Server'. The Oracle logo is in the top right corner. Below the title bar, there is a 'Discard Changes' button. The configuration fields are as follows:

Field	Value
*Name:	AdminServer
*Listen address:	All Local Addresses
Listen port:	7001
SSL listen port:	N/A
SSL enabled:	<input type="checkbox"/>

At the bottom of the window, there are four buttons: 'Exit', 'Help', 'Previous', and 'Next'.

The screenshot shows the Fusion Middleware Configuration Wizard. The title bar reads "Fusion Middleware Configuration Wizard". The main window is titled "Configuration Summary". In the top right corner, the Oracle logo is displayed. The left pane, titled "Domain Summary", has a "Summary View:" dropdown set to "Deployment". Below it is a tree view showing the domain structure: domain1 (C:\Oracle\Middleware\user\_projects\domain1) contains a Server folder, which includes AdminServer and Service. The Service folder contains Shutdown Class and Startup Class. Shutdown Class includes JOC-Shutdown and DMSShutdown. Startup Class includes JRF Startup Class, JPS Startup Class, ODL-Startup, Audit Loader Startup Class, AWT Application Context Startup, JMX Framework Startup Class, JOC-Startup, and DMS-Startup. The JDBC folder contains JDBC Data Source. The right pane, titled "Details", shows the attributes of the selected item. It contains a table with two columns: Attribute and Value. The table lists several items, including Basic WebLogic Server Domain, Oracle SOA Suite, Oracle Enterprise Manager, and emasTemplate. Below the table, there are "Exit" and "Help" buttons on the left, and "Previous" and "Create" buttons on the right.

Configuration Summary

Summary View: Deployment

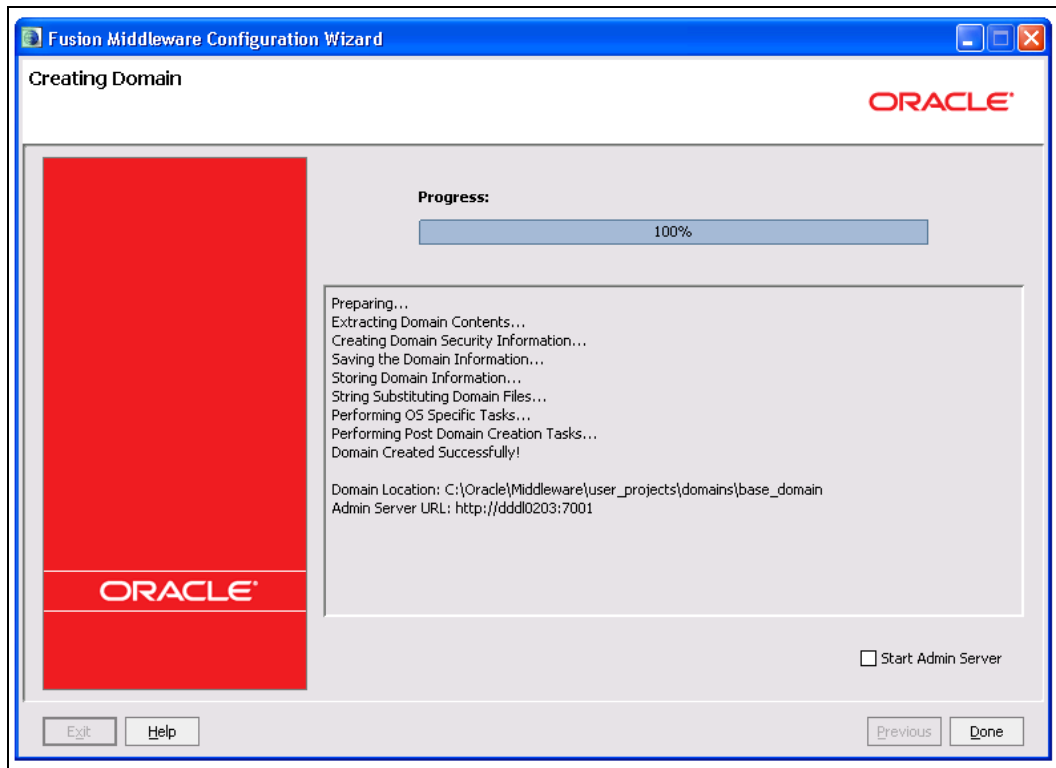
domain1 (C:\Oracle\Middleware\user\_projects\domain1)

- Server
  - AdminServer
  - Service
    - Shutdown Class
      - JOC-Shutdown
      - DMSShutdown
    - Startup Class
      - JRF Startup Class
      - JPS Startup Class
      - ODL-Startup
      - Audit Loader Startup Class
      - AWT Application Context Startup
      - JMX Framework Startup Class
      - JOC-Startup
      - DMS-Startup
    - JDBC
      - JDBC Data Source

Details

Attribute	Value
Name	Basic WebLogic Server Domain
Description	Create a basic WebLogic Server domain without installing sample applications
Author	Oracle Corporation
Location	C:\Oracle\Middleware\wlserver_10.3\common\templates\domains\wls.j2ee
Name	Oracle SOA Suite
Description	Oracle SOA Suite Extension Template
Author	Oracle Corporation
Location	C:\Oracle\Middleware\Oracle_SOA1\common\templates\applications\ora
Name	Oracle Enterprise Manager
Description	Enterprise Manager
Author	Oracle Corporation
Location	C:\Oracle\Middleware\oracle_common\common\templates\applications\o
Name	emasTemplate
Description	emas plugin Template
Author	Oracle Corporation

Exit Help Previous Create



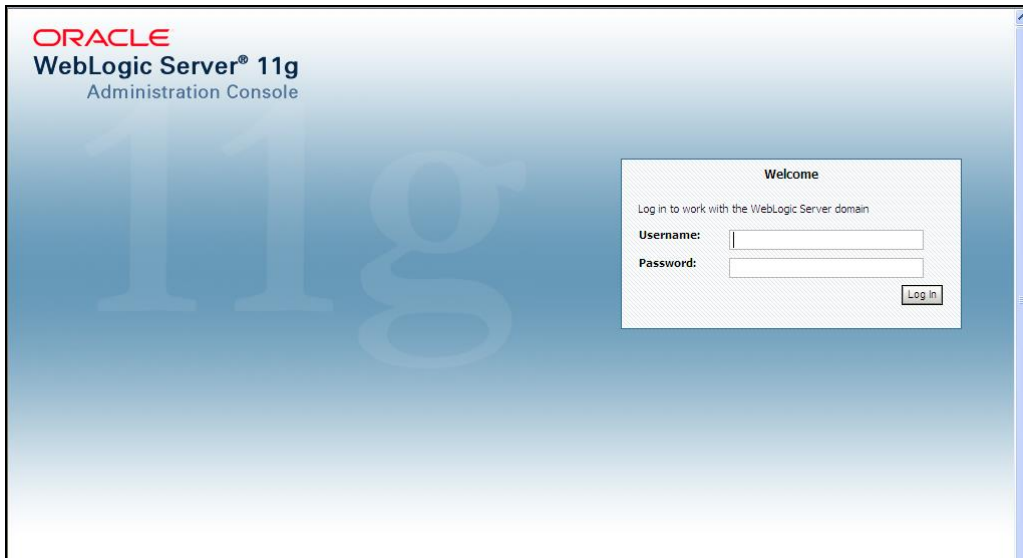
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## 5. Checking the Deployment Summary

1. Open the Administrative Console of WEBLOGIC SERVER:
2. Open an internet browser and type the WEBLOGIC Admin Console URL Address of the server.

e.g.: <http://localhost:7001/console>.

3. The following screen is displayed:



4. Login to Administrative Console.
5. Enter WEBLOGIC administrator username/password and click Login.



6. Click on deployments

7. Also Start managed servers UCM\_server1 and then IPM\_server1 through command prompt.

For ex: C:\Oracle\Middleware\user\_projects\domains\domain2\bin\startManagedWebLogic.cmd  
<UCM server name>

C:\Oracle\Middleware\user\_projects\domains\domain2\bin\startManagedWebLogic.cmd <IPM  
server name>

The screenshot shows the Oracle WebLogic Administration Console interface. The left sidebar contains navigation links for Change Center, Domain Structure, and System Status. The main content area is titled 'Summary of Deployments' and includes a 'Control' tab. Below the tab, there is a table of deployments. The table has columns for Name, State, Health, Type, and Deployment Order. The 'imaging' application is listed with a state of 'Active' and a health of 'OK'.

Name	State	Health	Type	Deployment Order
adf.oracle.businesseditor(1.0,11.1.1.2.0)	Active		Library	100
adf.oracle.domain(1.0,11.1.1.2.0)	Active		Library	100
adf.oracle.domain.webapp(1.0,11.1.1.2.0)	Active		Library	100
DMS Application (11.1.1.1.0)	Active	OK	Web Application	5
em	Active	OK	Enterprise Application	400
emai	Active		Library	100
emas	Active		Library	100
emcore	Active		Library	100
IPMW Welcome Page Application (11.1.0.0.0)	Active	OK	Enterprise Application	5
imaging	Active	OK	Enterprise Application	400
jsf(1.2,1.2.9.0)	Active		Library	100
jsf(1.2,1.2.0.1)	Active		Library	100
ohw-rd(5,5.0)	Active		Library	100
ohw-ux(5,5.0)	Active		Library	100
Oracle UCM Help	Active	OK	Web Application	225

8. Imaging application should be up and running.

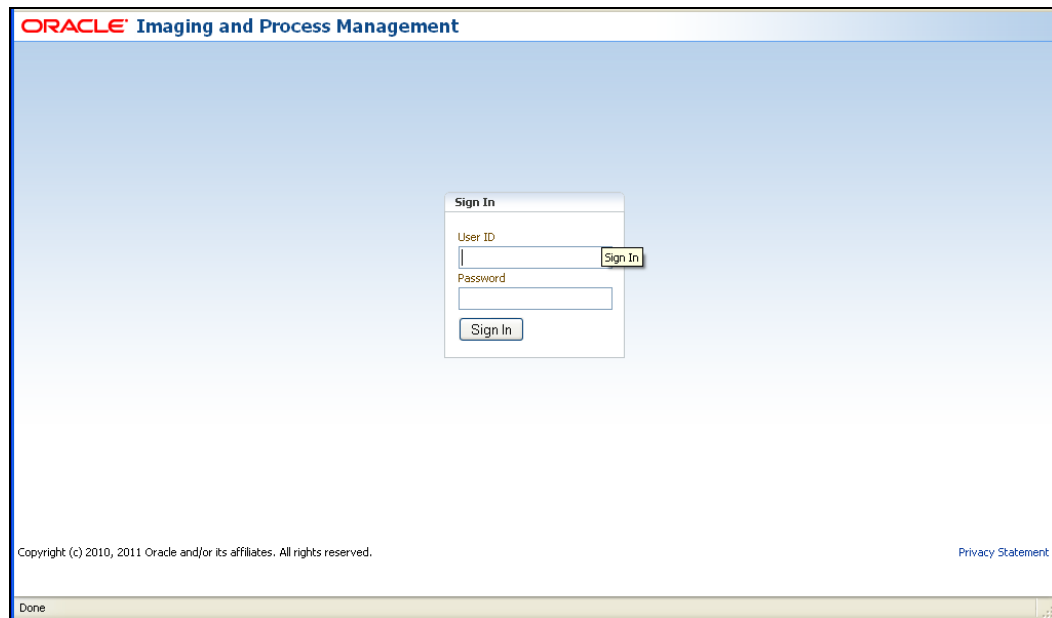
---

## 6. Creating Oracle FLEXCUBE Application

1. Open the Imaging application:

<http://<ip address>:16000/imaging>.

2. The following screen is displayed:



The screenshot shows the Oracle Imaging and Process Management login interface. At the top, the title bar reads "ORACLE Imaging and Process Management". The main area is a light blue gradient. In the center, there is a "Sign In" dialog box. This dialog box contains a "User ID" label with a text input field, a "Password" label with a text input field, and a "Sign In" button. To the right of the "User ID" input field, there is a small "Sign In" button. At the bottom of the dialog box, there is another "Sign In" button. Below the main area, there is a footer with the text "Copyright (c) 2010, 2011 Oracle and/or its affiliates. All rights reserved." on the left and a "Privacy Statement" link on the right. At the very bottom, there is a status bar with the word "Done" on the left and a small icon on the right.

3. Login to imaging application.
4. Enter username/password and press Login.
5. Click on Manage Connections
6. Click on Create Content Server Connection



**ORACLE® Imaging and Process Management**

Logged in as webloot1 | Help | Refresh | Preferences | Logout | About

Basic Information | Content Server Settings | Security | Review Settings

### Create Connection: Basic Information

Provide the basic information about the Connection.

\* Name:

Description:

Connection Type: Content Server Repository

Cancel Back Next Submit

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**ORACLE® Imaging and Process Management**

Logged in as webloot1 | Help | Refresh | Preferences | Logout | About

Basic Information | Content Server Settings | Security | Review Settings

### Create Connection: Connection Settings

Configure the Content Server repository specific settings.

SSL: ☐

Use Local Content Server: ☒

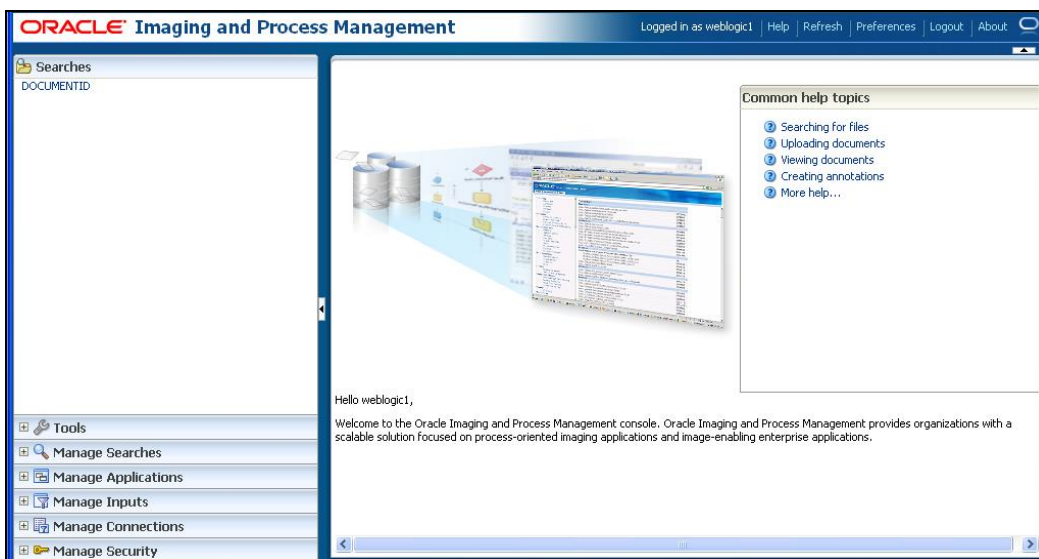
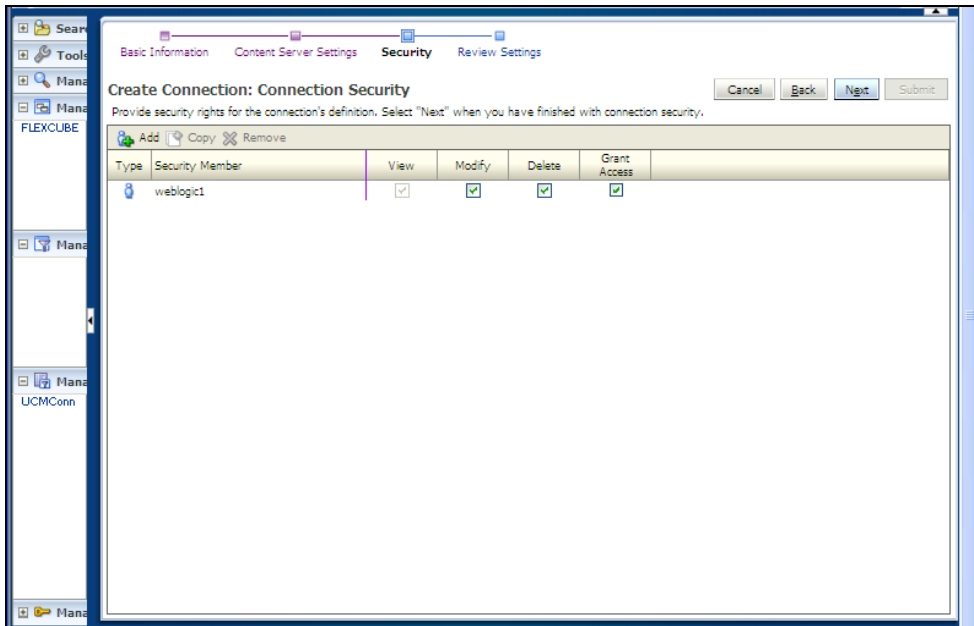
Server Port:

Content Server Pool

Machine	Server Port
No Machines Defined	

Cancel Back Next Submit

Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved. Delivery System



7. Click on Manage Applications
8. Click Add Application

The screenshot shows the 'Create Application: General Properties' form in the Oracle Imaging and Process Management application. The form is titled 'Create Application: General Properties' and includes a sub-header 'Provide general properties for the application. Select "Next" when you have finished with general properties.' The form contains the following fields and controls:

- Application Name:** A text input field containing 'FLEXCUBE'.
- Description:** A large text area for providing a description.
- Repository:** A dropdown menu set to 'UCMConn'.
- Information:** A blue information icon followed by the text: 'You will not be able to change the repository once you have created the application.'
- Full-Text Search:** A checkbox that is currently unchecked.

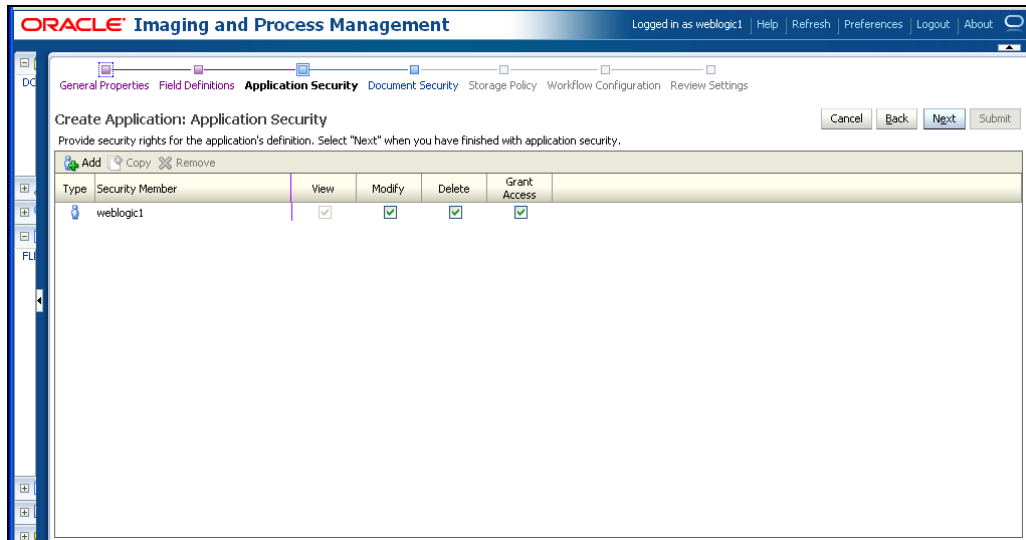
Navigation buttons at the top right include 'Cancel', 'Back', 'Next', and 'Submit'. The top of the window shows the Oracle logo and the title 'Oracle Imaging and Process Management', along with a user status bar indicating 'Logged in as weblogic1' and links for 'Help', 'Refresh', 'Preferences', 'Logout', and 'About'.

9. Click Next and add a Field Name as Name

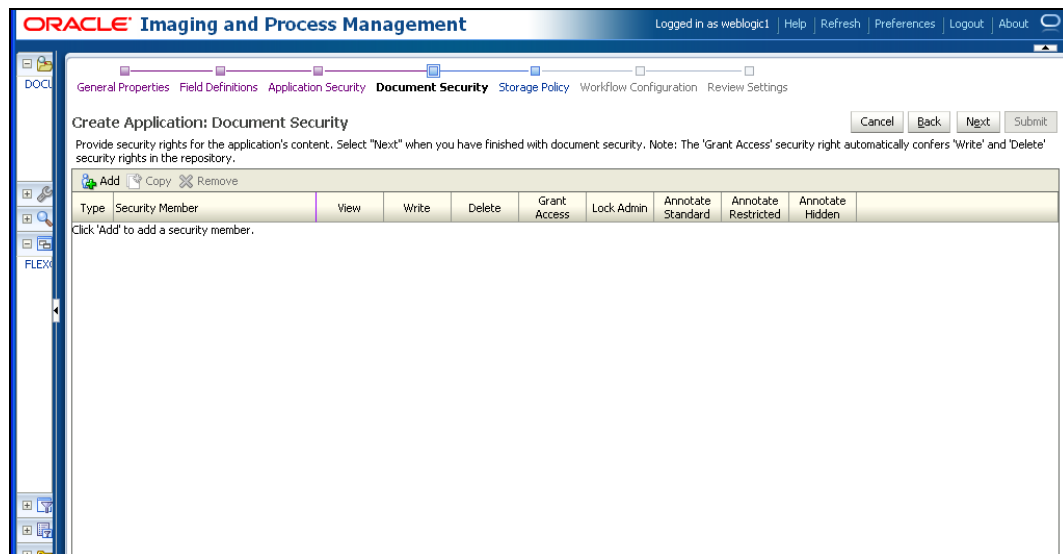
The screenshot shows the 'Create Application: Field Definitions' form in the Oracle Imaging and Process Management application. The form is titled 'Create Application: Field Definitions' and includes a sub-header 'Provide field definitions for the application's content. Select "Next" when you have finished with field definitions.' The form contains the following elements:

- Buttons:** '+ Add', '- Remove', and a 'Picklist' button.
- Table:** A table with columns: Type, Name, Length, Scale, Required, Indexed, Default Value, and Picklist. The first row contains the following data: Type: 'Abc', Name: 'Name', Length: '80', Scale: (empty), Required: (unchecked), Indexed: (checked), Default Value: (empty), and Picklist: (empty).

Navigation buttons at the top right include 'Cancel', 'Back', 'Next', and 'Submit'. The top of the window shows the Oracle logo and the title 'Oracle Imaging and Process Management', along with a user status bar indicating 'Logged in as weblogic1' and links for 'Help', 'Refresh', 'Preferences', 'Logout', and 'About'.



10. Click Next



11. Add security member giving all rights

12. Click Next .

13. Application Summary appears as:

The screenshot shows the 'FLEXCUBE: Application Summary' page in the Oracle Imaging and Process Management application. The left sidebar contains a tree view with 'Searches' (DOCUMENTID), 'Tools', 'Manage Searches', 'Manage Applications' (FLEXCUBE), 'Manage Inputs', 'Manage Connections', and 'Manage Security'. The main content area displays the following sections:

- General Properties:**
  - Application Id: 2
  - Application Name: FLEXCUBE
  - Description: FLEXCUBE
  - Repository: UCMConn
  - Full-Text Search: ☐
- Field Definitions:**

Type	Name	Length	Scale	Required	Indexed	Default Value	Picklist
Abc	Name	80			✓		
- Application Security:**

Type	Security Member	View	Modify	Delete	Grant Access
	weblogic1	✓	✓	✓	✓
- Document Security:**

Type	Security Member	View	Write	Delete	Grant Access	Lock Admin	Annotate Standard	Annot Restrict
	AdminChannelUsers	✓	✓	✓	✓	✓	✓	✓
	Administrators	✓	✓	✓	✓	✓	✓	✓
	AppTesters	✓	✓	✓	✓	✓	✓	✓
	CrossDomainConnectors	✓	✓	✓	✓	✓	✓	✓

14. Click Manage search and add a search for documentID as :

The screenshot shows the 'Create Search: Properties' dialog in the Oracle Imaging and Process Management application. The left sidebar is the same as in the previous screenshot. The main content area displays the 'Properties' tab with the following fields:

- Search Name:** DOCUMENTID
- Description:** Document Id based Search
- Instructions:** (Empty text area)
- Maximum Search Results:** 0

At the top of the dialog, there are tabs for 'Properties', 'Results Formatting', 'Conditions', 'Parameters', 'Security', 'Preview and Test', and 'Review Settings'. At the bottom right, there are buttons for 'Cancel', 'Back', 'Next', and 'Submit'.

15. Click Next and add all the details as shown

**ORACLE Imaging and Process Management** Logged in as weblogic1 | Help | Refresh | Preferences | Logout | About

Properties Results Formatting Conditions Parameters Security Preview and Test Review Settings

Create Search: Results Formatting

Select a source application or applications that you wish to return images from. Then select the fields in this application you wish to display to the user when their results are returned.

Source Application	Name	Document Id	Document Creation Date	Document Created By	Document Batch Id
FLEXCUBE	Name	Document Id	Document Cre	Document Cre	Document Bat

The following screen appears after creation:

**ORACLE Imaging and Process Management** Logged in as weblogic1 | Help | Refresh | Preferences | Logout | About

DOCUMENTID: Search Summary Modify Delete Close

Properties

Search Name: DOCUMENTID  
Description: Document Id based Search  
Instructions:  
Maximum Search Results: 0

Results Formatting

Source Application	Name	Document Id	Document Creation Date	Document Created By	Document Batch Id
FLEXCUBE	Name	Document Id	Document Creation D	Document Created By	Document Batch Id

Conditions

Application: FLEXCUBE

(	Field	Operator	Value	)	Conjunction
	Document Created By	Begins With	Parameter - Document Created By		

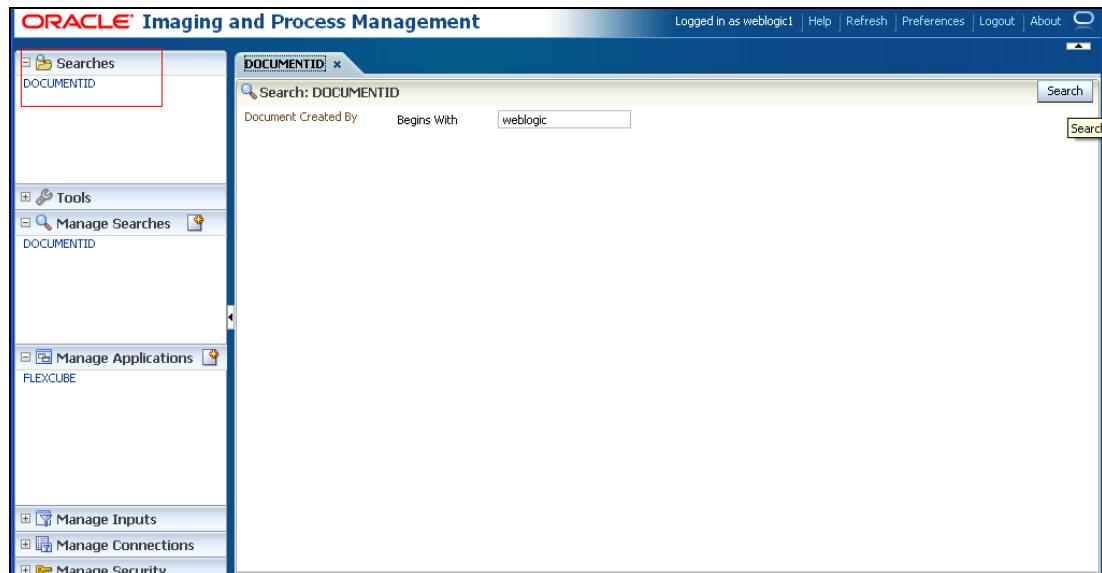
Parameters

Parameter Name	Prompt Text	Operator Text	Default Value	Picklist	Required	Read Only
Document Created By	Document Created By	Begins With				

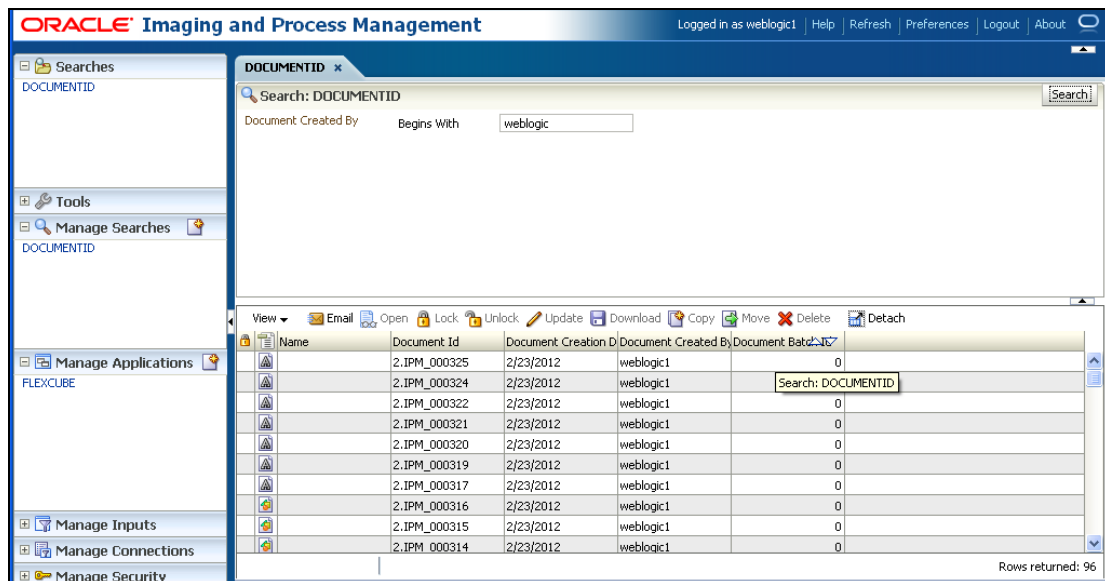
Security

Type	Security Member	View	Modify	Delete	Grant

16. Click Searches tab as shown and you will get the following screen .Type weblogic and click “Search “ button



The following screen appears which contains all the documents that are uploaded.





UCM Server Setup  
[May] [2019]  
Version 14.1.0.0.0

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