Oracle® Banking Enterprise Originations

UK Localization Installation Guide - Silent Installation

Release 2.10.0.0.0

F29510-01

April 2020

ORACLE®

Oracle Banking Enterprise Originations UK Localization Installation Guide - Silent Installation, Release 2.10.0.0.0

F29510-01

Copyright © 2017, 2020, Oracle and/or its affiliates.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface **19**
Audience 19
Documentation Accessibility 19
Organization of the Guide 19
Related Documents 20
Conventions 21
1 Getting Started **24**
1.1 About Oracle Banking Enterprise Originations 24
1.2 About This Document 24
1.3 Assumptions 24
1.4 Limitations 25
1.5 Exclusions 25
2 Pre-Installation Configuration **26**
2.1 Setup Prerequisites 26
2.1.1 Hardware Environment 26
2.1.2 Software Environment 27
2.1.2.1 Certification Details 27
2.1.2.2 Optional 30
2.1.2.3 Patching 30
2.2 Configure Variables 31
2.3 Installation Process Overview 32
2.4 Installation Checklist 32
2.4.1 XD Components 33
2.4.2 Updating installobp***.properties 33

2.4.3 Database and WebLogic Domain Configuration 68
2.5 OID Schema Setup – Custom OBEO Schema 70
2.5.1 Prerequisite – OID setup 70
2.5.2 Verify the OID installation 70
2.5.2.1 Start and Verify the OID processes 70
2.5.2.2 OPSS/OID Performance Tuning 70
2.5.2.3 Import OBEO Specific LDIF files 77
2.5.2.4 Verify the import using ODSM or JXplorer 79
3 OBEO UK Localization SOA Media Pack Installation 80
3.1 Installation and Configuration Procedure 80
3.1.1 Preparatory Steps 80
3.1.2 Pre-Installation Steps 80
3.1.3 Installation Steps 81
3.2 Post Installation Configuration 86
4 OBEO UK Localization Host Media Pack Installation 92
4.1 Installation and Configuration Procedure 92
4.1.1 Preparatory Steps 92
4.1.2 Pre-Installation Steps 92
4.1.3 Installation Steps 95
4.1.4 Front End Processing Interface (FEPI) Installation Steps 108
4.2 Post Installation Configuration 110
4.3 REST (SWAGGER) Deployment Check 117
5 OBEO UK Localization Presentation Media Pack Installation 120
5.1 Installation and Configuration Procedure 120
5.1.1 Preparatory Steps 120
5.1.2 Pre-Installation Steps 120

5.1.3 Installation Steps 121
5.2 Post Installation Configuration 128
6 BAM Installation using OBEO UK Localization SOA Media Pack 136
6.1 Installation and Configuration Procedure 136
6.1.1 Preparatory Steps 136
6.1.2 BAM Domain Creation Steps 136
6.2 Post Installation Configuration 162
7 Standalone Database Setup 166
7.1 Pre-Installation Steps 166
7.2 OBEO Database Setup – RCU Installation 166
7.3 OBEO Database Installation 167
7.3.1 Host DB Schema Creation and Verification 167
7.3.2 HOST DB schema ddl execution 167
7.3.3 HOST DB Schema Seeding 168
7.3.4 System Configuration DB Update Script Execution 168
7.3.5 Removing Preference Refresh Level 169
7.3.6 Database Table Partitioning 169
8 OBEO and IPM Integration 170
8.1 IPM Application Setup for OBEO Content Management 170
8.1.1 UCM Connection 170
8.1.2 Main Application Configuration 177
8.1.2.1 Manage Application Configuration 177
8.1.2.2 Manage Searches 183
8.1.3 Temp Application Configuration 190
8.1.3.1 Manage Application Configuration 190
8.1.3.2 Manage Searches 196

8.2 IPM Configuration for Bulk Upload Process Setup 204
8.2.1 Prerequisites 204
8.2.2 Setting up the Connection Name 204
8.2.3 Setting up Input Agent Path 210
8.2.4 Create SOA Connection 212
8.2.5 Manage Workflow Configuration 217
8.2.6 Manage Inputs for Input Agents 224
8.2.7 Additional Steps 229
8.2.8 SSL Handshake Resolution 230
8.3 IPM Report Upload Setup 231
8.3.1 Prerequisites 231
8.3.2 Setting up the Connection Name 232
8.3.3 Setting up Input Agent Path 237
8.3.4 Create SOA Connection 239
8.3.5 Manage Application Configuration 244
8.3.6 Manage Inputs for Input Agents 253
8.3.7 Manage Searches 258
8.3.8 Additional Steps 265
9 BIP Datasource Creation 268
9.1 BIP Datasource Creation 268
10 ODI Configuration 272
10.1 Configuration Procedure 272
11 Monitoring Servers Using Oracle Enterprise Manager 274
12 Analytics Configuration 276
12.1 Create Schema Objects 276
12.2 ODI Import Master Repository 276

12.2.1 Create Schema of ODI Master Repository 276
12.2.2 Create New ODI Repository Login 276
12.2.3 Import Master Repository 277
12.3 ODI Import Work Repository 279
12.3.1 Create New ODI Work Repository 279
12.3.2 Import ODI Work Repository 281
12.4 ODI Level Configuration 283
12.4.1 Setting Target Data Server in ODI Topology 283
12.4.2 Setting Source Data Server in ODI Topology 284
12.5 ODI Agent Deployment Configuration 285
12.5.1 Update the Connection Details of Master Repository and Work Repository 285
12.6 OBI Configuration 286
12.6.1 Update the Analytics DB Details in the Repository 286
12.6.2 Add the Analytics DB TNS Entry 287
12.6.3 Upload the Repository to the OBI Server 287
12.6.4 Upload the Catalogs to the OBI Server 288
12.7 Global Configuration 288
12.8 Batch Configuration for Analytics 289
12.9 OBIEE Monitoring Hierarchy Setup 289
12.9.1 Setup Process 291
13 Post Installation Verification 298
13.1 UI Domain Verification 298
13.2 Host Domain Verification 300
13.3 SOA Domain Verification 308
13.4 BAM Installation Verification 309
13.5 BPM Worklist Window Setting 311

14 Errors and Remedies 312
14.1 OBEO Domain Installation 312
14.2 OBEO Security Policy Seeding 312
14.3 OBEO Domain Post Installation 312
14.4 Error on First Log in 313
14.5 Log in Issues 314
14.6 SOA Setup in Cluster 314
14.6.1 "COMPONENTTYPE": invalid identifier error 314
14.7 BIP Report Data Model Linkage Problem after Host Post Installation Step 315
14.8 Oracle BAM Command Utility Issue 316
14.9 BPM Worklist Task Issue 316
14.10 Artifacts Issue for SM500 page 317
14.11 ra/FCRJConnectorSOA connector issue 318
14.12 Humantask Startup Issue 318
14.13 Collection Mocking 319
14.14 DDA, Party and LOAN Mocking for OBEO installer 319
15 Uninstalling the Application 322
15.1 Manual Uninstall 322

List of Figures

Figure 2–1 Installation Overview 32

Figure 2–2 JXplorer 79

Figure 3–1 Steps in installobpsoa.sh script 82

Figure 3–2 Verification of Properties 83

Figure 3–3 Verification of Properties 83

Figure 3–4 Confirmation to Proceed Domain Installation (cont.) 84

Figure 3–5 Copying and Extraction of obpinstall-ui-soa.zip 84

Figure 3–6 Copying and Extraction of obpinstall-ui-soa.zip 85

Figure 3–7 Copying and Extraction of obpinstall-ui-soa.zip 85

Figure 3–8 Domain Creation Confirmation 86

Figure 3–9 Starting Post Installation 87

Figure 3–10 Starting Post Installation (contd) 88

Figure 3–11 Starting Post Installation (contd) 88

Figure 3–12 Starting Post Installation (contd) 89

Figure 3–13 SOA Post Installation Completion 89

Figure 3–14 Go to Web Services Configuration 90

Figure 3–15 Attach Policy 90

Figure 4–1 Steps in installobphost.sh script 96

Figure 4–2 Verification of Properties 97

Figure 4–3 Verification of Properties (contd) 97

Figure 4–4 Verification of Properties (contd) 98

Figure 4–5 Verification of Properties (contd) 98

Figure 4–6 Confirmation and Copying of Installables to Target Machine 99

Figure 4–7 Confirmation and Copying of Installables to Target Machine (contd) 100

Figure 4–8 Confirmation and Copying of Installables to Target Machine (contd) 100
Figure 4–9 Domain Installation Confirmation 101
Figure 4–10 Untar the policyStoreSetup and Copy on destination location 101
Figure 4–11 Untar the policyStoreSetup and Copy on destination location (contd) 102
Figure 4–12 Untar the policyStoreSetup and Copy on destination location (contd) 103
Figure 4–13 Policy Seeding 104
Figure 4–14 Policy Seeding (contd) 105
Figure 4–15 BIP Reports Upload 106
Figure 4–16 BIP Reports Upload (contd) 107
Figure 4–17 BIP Reports Upload (contd) 108
Figure 4–18 Host Domain Admin Server Credentials 110
Figure 4–19 Host Domain Post Installation Script Execution 112
Figure 4–20 Host Domain Post Installation Script Execution (contd) 113
Figure 4–21 Host Domain Post Installation Script Execution (contd) 114
Figure 4–22 Host Domain Post Installation Script Execution (contd) 115
Figure 4–23 Host Domain Post Installation Script Execution Summary 116
Figure 4–24 Navigate to Keystore 117
Figure 4–25 Create Keystore 118
Figure 4–26 Generate Keypair 118
Figure 4–27 OBPAPI deploy on obphost_cluster1 119
Figure 4–28 REST API 119
Figure 5–1 Steps in installobpui.sh script 122
Figure 5–2 Confirmation to Proceed Domain Installation 123
Figure 5–3 Confirmation to Proceed Domain Installation (contd) 124
Figure 5–4 Confirmation to Proceed Domain Installation (contd) 125
Figure 5–5 Copying and Extraction of obpinstall-ui-soa.zip 126

Figure 5–6 Copying and Extraction of obpinstall-ui-soa.zip (contd) 127
Figure 5–7 Domain Creation Confirmation 128
Figure 5–8 UI Admin Server Credentials 129
Figure 5–9 UI Admin Server Running 129
Figure 5–10 UI Admin Server Running (contd) 130
Figure 5–11 Starting Post Installation 131
Figure 5–12 Starting Post Installation (contd) 132
Figure 5–13 Continuation of Post-Installation 133
Figure 5–14 Continuation of Post-Installation (contd) 134
Figure 6–1 Configuration Type page 137
Figure 6–2 Templates page 138
Figure 6–3 High Availability Options page 139
Figure 6–4 Application Location page 140
Figure 6–5 Administrator Account page 141
Figure 6–6 Domain Mode and JDK page 142
Figure 6–7 Database Configuration Type page 143
Figure 6–8 Component Datasources page 144
Figure 6–9 JDBC Test page 145
Figure 6–10 Keystore page 146
Figure 6–11 Advanced Configuration page 147
Figure 6–12 Administration Server page 148
Figure 6–13 Node Manager page 149
Figure 6–14 Managed Servers page 150
Figure 6–15 Clusters page 151
Figure 6–16 Server Templates page 152
Figure 6–17 Dynamic Servers page 153

Figure 6–18 Assign Servers to Clusters page 154
Figure 6–19 Coherence Clusters page 155
Figure 6–20 Machines page 156
Figure 6–21 Assign Servers to Machines page 157
Figure 6–22 Virtual Targets page 158
Figure 6–23 Partitions page 159
Figure 6–24 Configuration Summary page 160
Figure 6–25 Configuration Progress page 161
Figure 6–26 End of Configuration page 162
Figure 6–27 BAM Composer page 164
Figure 6–28 BAM Composer page (contd) 164
Figure 6–29 BAM Composer page 165
Figure 8–1 IPM Imaging Console - Login page 171
Figure 8–2 IPM - Welcome page 172
Figure 8–3 Create Content Server Connection 173
Figure 8–4 UCM: Basic information 174
Figure 8–5 UCM: Connection Settings 175
Figure 8–6 UCM: Connection Security 176
Figure 8–7 UCM: Review Settings 177
Figure 8–8 Main: General Properties 178
Figure 8–9 Main: Field Definitions 179
Figure 8–10 Field Definitions (cont.) 179
Figure 8–11 Main: Application Security 180
Figure 8–12 Main: Document Security 181
Figure 8–13 Main: Storage Policy 182
Figure 8–14 Main: Review Settings 183

Figure 8–15 Main: Properties 184
Figure 8–16 Main: Results Formatting 185
Figure 8–17 Main: Conditions 186
Figure 8–18 Main: Parameters 187
Figure 8–19 Main: Search Security 188
Figure 8–20 Main: Preview and Test 189
Figure 8–21 Main: Review Settings 190
Figure 8–22 Temporary: General Properties 191
Figure 8–23 Temporary: Field Definitions 192
Figure 8–24 Temporary: Application Security 193
Figure 8–25 Temporary: Document Security 194
Figure 8–26 Temporary: Storage Policy 195
Figure 8–27 Temporary: Review Settings 196
Figure 8–28 Temporary: Properties 197
Figure 8–29 Temporary: Results Formatting 198
Figure 8–30 Temporary: Conditions 199
Figure 8–31 Temporary: Parameters 200
Figure 8–32 Temporary: Search Security 201
Figure 8–33 Temporary: Preview and Test 202
Figure 8–34 Temporary: Review Settings 203
Figure 8–35 EM Console Login 205
Figure 8–36 Click Weblogic Domain: ipm domain 206
Figure 8–37 Navigate to Weblogic Domain --> Security --> Credentials 207
Figure 8–38 Create Map oracle.wsm.security 208
Figure 8–39 Create Key basic.credentials 209
Figure 8–40 ipm_domain: Credentials Created 210

Figure 8–41 Navigate to Weblogic Domain --> System MBean Browser 211
Figure 8–42 InputDirectories: Enter Input Agent Path 212
Figure 8–43 Manage Connections: Create Workflow Connection 213
Figure 8–44 IUTSOA: Basic Information 214
Figure 8–45 IUTSOA: Workflow Settings 215
Figure 8–46 IUTSOA: Connection Security 216
Figure 8–47 IUTSOA: Review Settings 217
Figure 8–48 Main: Application Summary 218
Figure 8–49 Manage Applications - Server Properties 219
Figure 8–50 Manage Applications - Component Properties 220
Figure 8–51 Manage Applications - Payload Properties 221
Figure 8–52 Manage Applications - Workflow Configuration 222
Figure 8–53 Field Definitions 223
Figure 8–54 Main: Application Summary 224
Figure 8–55 Input Agent: Basic Information 225
Figure 8–56 Input Agent: Input Mask 226
Figure 8–57 Input Agent: File Parameters 227
Figure 8–58 Input Agent: Fields Mapping 228
Figure 8–59 Input Agent: Summary 229
Figure 8–60 flx_fw_config_all_b table 230
Figure 8–61 SSL Handshake Resolution 231
Figure 8–62 Log in to Enterprise Manager (EM) console 232
Figure 8–63 Click Weblogic Domain: ipm domain 233
Figure 8–64 Navigate to Weblogic Domain --> Security --> Credentials 234
Figure 8–65 Create Map oracle.wsm.security 235
Figure 8–66 Create Key: basic.credentials 236

Figure 8–67 ipm_domain: Credentials Created 237
Figure 8–68 Navigate to Weblogic Domain --> System MBean Browser 238
Figure 8–69 InputDirectories: Enter Input Agent Path 239
Figure 8–70 Manage Connections: Create Workflow Connection 240
Figure 8–71 IUTSOA: Basic Information 241
Figure 8–72 IUTSOA: Workflow Settings 242
Figure 8–73 IUTSOA: Connection Security 243
Figure 8–74 IUTSOA: Review Settings 244
Figure 8–75 Create Application: General Properties 245
Figure 8–76 Report: Field Definitions 246
Figure 8–77 Create Application: Applications Security 247
Figure 8–78 Create Application: Document Security 248
Figure 8–79 Create Application: Storage Policy 249
Figure 8–80 Report: Workflow Configuration - Server Properties 250
Figure 8–81 Report: Workflow Configuration - Component Properties 251
Figure 8–82 Report: Application Summary 252
Figure 8–83 Create Application: Review Settings 253
Figure 8–84 Manage Inputs 254
Figure 8–85 Input Agent Details: Input Mask 255
Figure 8–86 Input Agent Details: Field Mapping 256
Figure 8–87 Input Agent Details: Security 257
Figure 8–88 Input Agent Details: Review Settings 258
Figure 8–89 Create Search: Properties 259
Figure 8–90 Create Search: Results Formatting 260
Figure 8–91 Create Search: Conditions 261
Figure 8–92 Create Search: Parameters 262

Figure 8–93 Create Search: Security 263
Figure 8–94 Create Search: Preview and Test 264
Figure 8–95 Create Search: Review Settings 265
Figure 8–96 Component Properties 267
Figure 9–1 BIP Server Console Login 268
Figure 9–2 BIP Administration 269
Figure 9–3 BIP JDBC Connection 269
Figure 9–4 BIP - Add Data Source 270
Figure 9–5 BIP Data Source Created 271
Figure 12–1 Create new repository 277
Figure 12–2 Enter repository details 277
Figure 12–3 Import master repository 278
Figure 12–4 Select master repository zip file 278
Figure 12–5 Set password 279
Figure 12–6 Log in to master repository 280
Figure 12–7 Select new work repository 280
Figure 12–8 Check repository details 281
Figure 12–9 Specify repository name 281
Figure 12–10 Log in to repository 282
Figure 12–11 Import work repository 282
Figure 12–12 Select work repository zip 283
Figure 12–13 Set target data server 284
Figure 12–14 Set source data server 285
Figure 12–15 Select odiMasterRepository 286
Figure 12–16 Update connection details 286
Figure 12–17 Update Analytics DB details 287

Figure 12–18 Upload repository 288
Figure 12–19 Upload catalogs 288
Figure 12–20 Create User Groups 291
Figure 12–21 Create Application Roles 292
Figure 12–22 Add User Groups to Application Role 293
Figure 12–23 Access Dashboard from Catalog 294
Figure 12–24 Add Application Roles to Dashboards 295
Figure 12–25 Provide Permissions 296
Figure 13–1 UI EM Console Status Check 299
Figure 13–2 UI Admin wsm-pm Validator 300
Figure 13–3 UI managed wsm-pm validator 300
Figure 13–4 HOST admin wsm-pm validator 307
Figure 13–5 HOST managed wsm-pm validator 307
Figure 13–6 BAM Composer 310
Figure 13–7 BAM Composer 310
Figure 13–8 BAM Composer 311
Figure 13–9 BPM Worklist Window Settings 311
Figure 14–1 SOA Domain Error 312
Figure 14–2 Error on First Log In 314
Figure 14–3 Selecting the Data model 315
Figure 14–4 BPM Worklist Task issue 317
Figure 14–5 Artifacts Issue for SM500 page 317
Figure 14–6 Settings for javax.resource.cci.ConnectionFactory page 318

List of Tables

Table 2–1 Hardware and OS 26
Table 2–2 List of Software 27
Table 2–3 Notes 28
Table 2–4 XD Components 33
Table 2–5 Values for updating installobp***.properties 33
Table 2–6 DB and WebLogic Domain Configuration 68
Table 2–7 Parameter Values to be Changed 70
Table 2–8 Suggested values for Tuning and Alter Command 72
Table 2–9 Properties 75
Table 2–10 Order of Execution 77
Table 4–1 XD Components 93
Table 4–2 Examples of FMW Dir Name, Domain Name, Server Name and Memory Parameters 93
Table 4–3 Properties 109
Table 4–4 Examples of files 110
Table 8–1 PROP ID Values 230
Table 8–2 PROP ID Values 265
Table 9–1 Data Source Details 270
Table 12–1 Example: Monitoring Hierarchy 290
Table 12–2 Monitoring Hierarchy Example 293

Preface

The Oracle Banking Enterprise Originations UK Localization Installation Guide - Silent Installation contains information on silent installation and configuration of Oracle Banking Enterprise Originations software and its associated products.

This preface contains the following topics:

- Audience
- Documentation Accessibility
- Organization of the Guide
- Related Documents
- Conventions

Audience

This guide is primarily meant as a step-by-step installation manual for IT deployment teams and onshore implementations at client locations to install a complete Oracle Banking Enterprise Originations UK localization system in a UNIX based environment.

The reader is expected to have an acquaintance with UNIX platform, Oracle WebLogic server and Oracle Fusion platform firmware such as Oracle JDeveloper, Oracle OID and Oracle SOA Suite.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/us/corporate/accessibility/index.html.

Access to Oracle Support:

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/us/corporate/accessibility/support/index.html#info or visit http://www.oracle.com/us/corporate/accessibility/support/index.html#trs if you are hearing impaired.

Organization of the Guide

This document contains:

Chapter 1 Getting Started

This chapter presents an overview of Oracle Banking Enterprise Originations and the installation guide. It also mentions the assumptions, limitations and exclusions that this document has been based upon.

Chapter 2 Pre-Installation Configuration

This chapter describes the pre-configuration activities that are to be completed successfully for proper installation and functioning of Oracle Banking Enterprise Originations.

Chapter 3 OBEO UK Localization SOA Media Pack Installation

This chapter explains the steps involved in the installation, and post installation and configuration of Oracle Banking Enterprise Originations SOA (Integration Server) Media pack.

Chapter 4 OBEO UK Localization Host Media Pack Installation

This chapter explains the steps involved in the installation, and post installation and configuration of Oracle Banking Enterprise Originations Host Media Pack.

Chapter 5 OBEO UK Localization Presentation Media Pack Installation

This chapter explains the steps involved in the installation, and post installation and configuration of Oracle Banking Enterprise Originations Presentation (UI) Media Pack.

Chapter 6 BAM Installation using OBEO UK Localization SOA Media Pack

This chapter explains the steps involved in the installation of Oracle Business Activity Monitoring (BAM) using OBEO SOA (Integration Server) Media Pack.

Chapter 7 Standalone Database Setup

This chapter explains the steps involved in Oracle Banking Enterprise Originations database.

Chapter 8 OBEO and IPM Integration

This chapter explains the steps involved in the integration of Oracle Banking Enterprise Originations and Oracle Imaging and Process Management (IPM).

Chapter 9 BIP Datasource Creation

This chapter explains the steps required for Business Intelligence Publisher (BIP) datasource creation.

Chapter 10 ODI Configuration

This chapter explains the steps involved in the configuration of ODI using OBEO HOST Media Pack.

Chapter 11 Monitoring Servers Using Oracle Enterprise Manager

This chapter explains the steps required to monitor servers using Oracle Enterprise Manager (OEM).

Chapter 12 Analytics Configuration

This chapter explains the configuration required to set up analytics

Chapter 13 Post Installation Verification

This chapter explains the steps required to verify the installation of Oracle Banking Enterprise Originations.

Chapter 14 Errors and Remedies

This chapter provides information on troubleshooting to help diagnose and remedy some of the problems encountered during installation of the Oracle Banking Enterprise Originations.

Chapter 15 Uninstalling the Application

This chapter explains the process of uninstalling the Oracle Banking Enterprise Originations.

Related Documents

For more information, see the following documentation:

- For information necessary for the installation and configuration of integration components to create a complete solution using Oracle Banking Enterprise Originations and Oracle Documaker, see the installation and configuration guides at http://docs.oracle.com/cd/E22582_01/e22582_01_index.html.
- Information on Oracle Fusion Middleware Install-Config Checklist is available at http://aseng-wiki.us.oracle.com/asengwiki/display/ASMWArchPM/FMW+Install-Config+Checklist+Page.

- For a comprehensive overview of security, see the Oracle Banking Enterprise Originations Security Guide.
- For the complete list of licensed products and the third-party licenses included with the license, see the Oracle Banking Enterprise Originations Licensing Guide.
- For information related to setting up a bank or a branch, and other operational and administrative functions, see the Oracle Banking Enterprise Originations Administrator Guide.
- For information related to customization and extension, see the Oracle Banking Enterprise Originations Extensibility Guides for SOA, HOST, and UI.
- For information on the functionality and features, see the respective Oracle Banking Enterprise Originations Functional Overview document.
- For recommendations of secure usage of extensible components, see the Oracle Banking Enterprise Originations Secure Development Guide.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

The following acronyms are used in this document:

Acronym	Meaning
ADF	Application Development Framework
ATM	Automated Teller Machine
BAM	Business Activity Monitoring
BIP	Business Intelligence Publisher
BPEL	Business Process Execution Language
DB or db	Oracle Database
FEPI	Front End Processing Interface
HOST	Middleware Host Tier
IAM	Identity and Access Management
IPM	Imaging and Process Management

Acronym	Meaning
LDAP	Lightweight Directory Access Protocol
OAAM	Oracle Adaptive Access Manager
OBEO	Oracle Banking Enterprise Originations
ODI	Oracle Data Integrator
OEL	Oracle Enterprise Linux
OEM	Oracle Enterprise Manager
OID	Oracle Internet Directory
OIM	Oracle Identity Manager
OLTP	Online Transaction Processing
OPSS	Oracle Platform Security Services
OS	Operating System
POS	Point Of Sale
RCU	Repository Creation Utility
sh	Unix Shell file
SOA	Service Oriented Architecture Tier
SVN	Source Code Version Repository
UI	User Interface, that is Presentation Tier
VM	Virtual Machine
WLS	WebLogic Server

1 Getting Started

This chapter presents an overview of Oracle Banking Enterprise Originations and the installation guide. It also mentions the assumptions, limitations and exclusions that this document has been based upon.

1.1 About Oracle Banking Enterprise Originations

Oracle Banking Enterprise Originations (OBEO) enables banks to move from product-centric to customer-centric services, simplifying complex origination processes and delivering frictionless customer experiences across the originations lifecycle. Banks can consider deploying Oracle Banking Enterprise Originations, both as an independent standalone project or as a starting point for a broader progressive modernization program. The solution is built using standard enterprise components, provides efficient process automation, and is available on premise, on the cloud, or through a hybrid model. Oracle Banking Enterprise Originations enables banks to deliver cross-channel consistent origination experience wherein the customers can use any channel they prefer. The solution operates across channels, providing a common origination process for both assisted- and self-service customers. The process also allows customers to utilize different access points, so they may begin the process in one channel, yet use alternative channels to complete the process.

1.2 About This Document

This document guides you through the installation of the core banking application Oracle Banking Enterprise Originations along with localization. This document guides in deploying the following parts of the application:

- Presentation Server (ADF Presentation UI deployment on WebLogic)
- Application Server (Banking Services hosted on WebLogic)
- Integration Server (Oracle Banking Enterprise Originations Integration and Approval Processes hosted on Oracle SOA)
- Security Configuration (Seeding security to OID)
- Seed Data Configuration (Seeding data to Core banking OLTP Database Server)

There are multiple prerequisites that need to be done before the start of the installation. The prerequisites section lists down the requirements. This document does not attempt to guide you through the prerequisites installation. The readers are expected to see the appropriate platform documentation to install the prerequisites.

This document prescribes bare minimum hardware requirements to have a functional application configuration. The sizing for a production environment is not prescribed here.

Due care has been taken to make this document as complete as possible. In case of any anomalies please mail to obp-deployment-support@oracle.com.

There are certain steps in the installation that *may* not be optimal yet. Further releases will optimize the deployment further.

1.3 Assumptions

It is assumed that the reader is aware of the technologies involved and is capable of installing the prerequisite software products mentioned in Section 2.1.2 Software Environment.

The following are the assumptions regarding the environment and setup with regard to carrying out this installation:

- The Oracle Banking Enterprise Originations UK localization installables are downloaded and copied onto a Linux machine or Linux VM.
- The reader has taken a remote connection to the Linux machine via Windows box.
- The reader is able to take an 'ssh' connection to the servers on which various OBEO components have to be installed from the Linux machine.
- The user is aware of the process of creating required db schema using RCU prior to initiation of OBEO UK localization installation.

1.4 Limitations

Whenever the installation gets aborted or is served a timeout for various reasons, rerun the installation from the beginning with domain cleanup.

1.5 Exclusions

Though some of the software and products listed in prerequisites section may work on Windows, such qualification has not been carried out and shall not be the focus of this guide. It is advisable to use the mentioned Operating System (OS) for the best experience.

2 Pre-Installation Configuration

This chapter describes the pre-configuration activities that are to be completed successfully for proper installation and functioning of Oracle Banking Enterprise Originations.

2.1 Setup Prerequisites

This section lists down the requirements from an environment perspective including minimum hardware requirements with Operating System (OS) and the middleware software products, which the Oracle Banking Enterprise Originations solution depends and runs on (for example, Database or WebLogic) or interfaces with (for example, OID or IPM).

2.1.1 Hardware Environment

The minimum hardware requirements for Oracle Banking Enterprise Originations solution to install and function decently are listed below:

Table 2–1 Hardware and OS

Sr. No.	CPU (2+GHz)	RAM (GB)	Disk (GB)	OS Version	Purpose
1	4	16	200	OEL 7.5 64 bit	Oracle Banking Enterprise Originations Oracle Database
2	4	32	200	OEL 7.5 64 bit	Oracle Banking Enterprise Originations ADF UI Presentation Server
3	4	32	200	OEL 7.5 64 bit	Oracle Banking Enterprise Originations Services Middleware Host Server
4	2	16	200	As per OID certification matrix.	Oracle OID Server
5	2	16	200	As per IPM certification matrix.	Oracle IPM Server
6	2	16	200	As per BIP certification matrix.	Oracle BIP Server
7	4	32	200	As per SOA certification matrix.	Oracle SOA Server
8	4	16	200	As per BAM certification matrix.	Oracle BAM Server

2.1.2 Software Environment

It is assumed that the following products are installed and are available on the server on which the Oracle Banking Enterprise Originations installation will be performed.

2.1.2.1 Certification Details

The following software are mandatory:

Table 2–2 List of Software

Sr. No.	Components	Zone	Software
1	OBEO UI Presentation	Banking App	Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 7.5 64-bit
2	SOA	Banking App	Oracle SOA Suite 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 7.5 64-bit
3	OBEO HOST	Banking App	Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 7.5 64-bit
4	OID	Security	Oracle Internet Directory 12.2.1.3.0 Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 7.5 64-bit
5	Oracle Business Intelligence EE and Oracle Analytics Publisher	Document	Oracle Business Intelligence 12c (12.2.1.4.0) Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 7.5 64-bit
6	IPM	Document	Oracle WebCenter - Content 12.2.1.3.0 Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 7.5 64-bit
7	OSB	Integration	Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Oracle Service Bus 12c (12.2.1.3.0). Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 7.5 64-bit
8	ODI	Integration	Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Oracle Data Integrator 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 7.5 64-bit
9	OIM	Security	Oracle Identity Manager 12.2.1.3.0

Sr. No.	Components	Zone	Software
			Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux7.5 64-bit
10	OAM	Security	Oracle Access Manager 12.2.1.3.0 Oracle Fusion Middleware Infrastructure 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172) Oracle Linux 7.5 64-bit
11	OEM	Management	Oracle Enterprise Manager 13.2.0.0.0 As per certification matrix of Oracle Enterprise Manager 13.2.0.0.0
12	EM Agent Installation	Management	Push from OEM Console
13	OBEO Database	Database	Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 Oracle Linux 7.5 64-bit
14	HTTP Server	Web Server	Oracle HTTP Server 12.2.1.3.0.
15	BAM	Banking App	Oracle SOA Suite and Business Process Management 12c (12.2.1.3.0) Java Version jdk1.8.0_xx (jdk1.8.0_172)

The following are some notes related to the software.

Table 2–3 Notes

Serial Number	Description
1	OBEO release has been certified with OEL version 7.5 during the release cycle. It is strongly recommended to use the versions on which the release is certified.
2	Oracle Business Intelligence Publisher is required at the time of OBEO installation. It is required to use the actual BIP property values during the installation. This is required as the installer uploads the OBEO reports as onto the BIP server as part of the middleware host installation process.
3	ODI_OUTBOUND_USERNAME and ODI_OUTBOUND_PASSWORD The OBEO installer will not abort the installation if this component is not present. It can be installed later. However, it is strongly recommended to use the actual property values instead of default property values during the installation. Else, the actual values for ODI_OUTBOUND_USERNAME and ODI_OUTBOUND_PASSWORD once available have to be manually updated in the 'ra/FCRJConnectorODI' jndi property of com.ofss.fc.app.connector.ear application inside middleware host server after the entire installation completes.
4	The OBEO installer will not abort the installation if this component is not present. It can be installed later.

Serial Number	Description
	It is strongly recommended to use the actual property values instead of default property values during the installation. Else, these properties have to be manually updated in Host Database after the entire installation completes.
5	OIM_OUTBOUND_USERNAME and OIM_OUTBOUND_PASSWORD The OBEO installer will not abort the installation if this component is not present. It can be installed later. It is recommended to use the actual property values instead of default property values during the installation. Else, these properties have to be manually updated in Host Database. Also, actual values for OIM_OUTBOUND_USERNAME and OIM_OUTBOUND_PASSWORD once available have to be manually updated in the 'ra/FCRJConnectorOIM' jndi property of com.ofss.fc.app.connector.ear application inside middleware host server after the entire installation completes.
6	Oracle Access Manager can be installed later.
7	During installation, password of unix user will be asked multiple times for "scp" "ssh". There is a time limit for entering password. If not entered within specified limit, the installation is likely to exit. User should take care of this.
8	It is mandatory for machine nodes on which OBEO UI, Host, and SOA Media pack installation is planned, to install the Java Cryptography Extensions Unlimited Strength Jurisdiction Policy Files, to enable additional encryption strengths.
9	Download the jce_policy.zip from Oracle website for the current Java version being used. For jdk1.8.0_xx, download Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 8 jce_policy-8.zip from the following link: http://www.oracle.com/technetwork/java/javase/downloads/jce-all-download-5170447.html Copy "local_policy.jar" and "US_export_policy.jar" from this zip file in the path mentioned below: JAVA_HOME/jre/lib/security/
10	It is mandatory that the team installing OBEO reads and understands the system requirements and specifications for the fusion middleware specified in the following link: https://docs.oracle.com/html/E82037_01/toc.htm The url details the system and platform-specific information for Oracle Fusion Middleware 12c Release 1 (12.2.1.3.0) products. Changes necessary at a system level for the fusion middleware should be made prior to executing OBEO media packs. For example, the number of open files should be increased from the default value as specified in the following link: https://docs.oracle.com/html/E82037_01/toc.htm#GUID-95BCDEF2-F2FC-4E30-A8EF-B966F817B1D4
11	SOA managed servers may need the default value raised at operating system level to run, as it needs to load a large number of OBEO application binaries.
12	It is mandatory for SOA Suite to be installed in machine nodes on which OBEO BAM Installation is planned.
13	The value of property SOA_SERVER_NAME in installer properties should not be changed. The default value of soa_server1, that is shipped along with media pack, should be retained AS IS. Managed servers, that are required inside the cluster as per the naming onsite conventions, should be added after the media pack installation is complete.

Serial Number	Description
14	Oracle SOA Suite 12.2.1.3.0 patch - p27651368_122130_Generic.zip has to be applied on SOA machine only. This can be downloaded from the following link: http://aru.us.oracle.com:8080/ARU/ViewPatchRequest/process_form?aru=22513715

2.1.2.2 Optional

The following software is optional:

- Oracle VM server release 2.2.0

2.1.2.3 Patching

OPatch is a patching utility in OBEO Installer. The following is required to run OPatch.

The Python packages need to be installed in the same order as mentioned below. They have to be installed as root user in UI, Host, and SOA Machines.

- Suds-0.4 (to create webservice client)
- docutils-0.12 (prerequisite for SOAPpy)
- wstools-0.4.3 (prerequisite for SOAPpy)
- SOAPpy0.12.5 (to make SOAP webservice call)
- PyYAML-3.11 (to read yaml file)
- Jypye1-0.5.7 (to call java code from Python)

The above mentioned packages are available in the form of .tar.gz files in the media pack.

The installation steps are as follows:

1. Extract each file so that the above Python packages get installed in the same order.
2. Run setup.py file inside extracted folder. (command:python install).

   tar -xvzf suds-0.4.tar.gz

   tar -xvzf docutils-0.12.tar.gz

   tar -xvzf wstools-0.4.3.tar.gz

   tar -xvzf SOAPpy-0.12.5.tar.gz

   tar -xvzf PyYAML-3.11.tar.gz

   tar -xvzf JPype1-0.5.7.tar.gz

   chmod -R 777 *

   cd suds-0.4

   python setup.py install

   cd ../docutils-0.12

   python setup.py install

   cd ../wstools-0.4.3

python setup.py install

cd ../SOAPpy-0.12.5

python setup.py install

cd ../PyYAML-3.11

python setup.py install

cd ../JPype1-0.5.7

python setup.py install

Please note that the above step is only required to run OPatch (a patching utility available with OBP Installer).

2.2 Configure Variables

Perform the following steps to configure the variables:

1. Modify the TargetDefinition.yaml located at the location <installDir>/patching/config.
2. The IP and port of the target should be of Admin Server and the destination location is the path where the zip will be extracted which is the patch Stage Path.
3. Modify the PatchConfig.yaml located at the location <installDir>/patching/config.
4. The Session context details such as Bank Code, Channel, TargetUnit, Transaction Branch, UserId has to be entered.

   The wsdl details will be as follows:

   ${Protocol}://${hostadmin_ip}:${hostadmin_port}/${path_to_ TransactionBlackoutApplicationServiceSpi}?wsdl

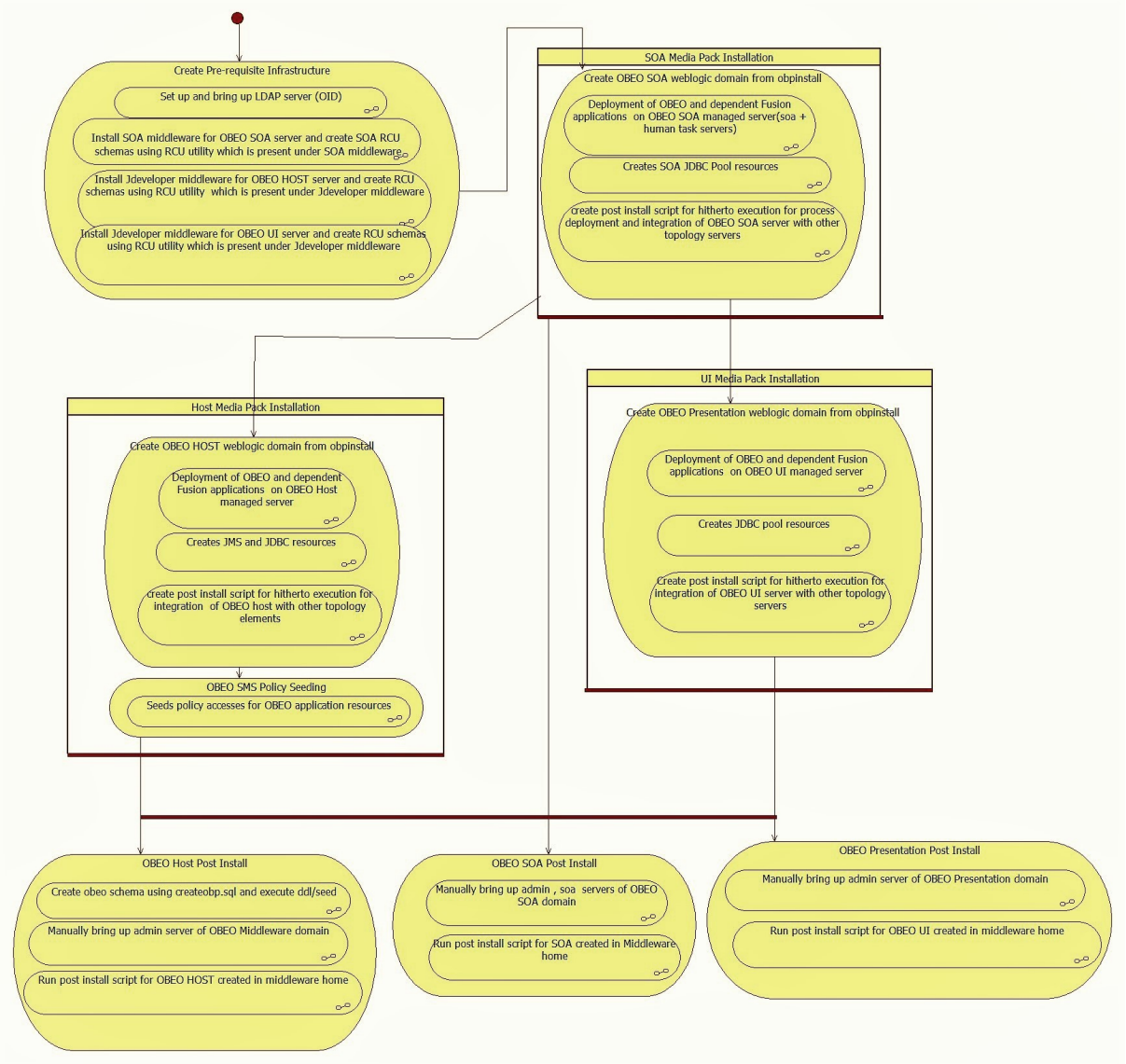
   For example, url: http://<Ip>:<Port>/com.ofss.fc.webservice/services/sms/TransactionBlackoutApplicationServiceSpi ?wsdl

5. Modify the PatchConstants.py located at the location <installDir>patching/constants.
   a. The PATCH_HOME should point to the Patching Utility.
   b. The Deployables Path should point to obp.
   c. The FMW_HOME should point to the path till fmw.
   d. The WLST_SCRIPT_LOCATION should point to the wlst.sh (weblogic scripting tool).
   e. The JVM_PATH should point to the libjvm.so.
   f. The PATCH_TEMP_LOCATION should be the path where the zips are to be stored.
   g. The FCServerWithPort is '${protocol}://${hostmanagedserver_ip}:${hostManagedServer_port}'.
   h. The SOAServerWithPort is '${protocol}://${uimanagedserver _ip}:${ uiManagedServer _port}'.
   i. The CENTRAL_PATCH_STAGE_PATH should point to the central patch Staging path.
6. Create folder patchStage and centralPatchStage in location <installDir>/.

2.3 Installation Process Overview

The following diagram provides an overview of the steps that need to be followed to install and configure Oracle Banking Enterprise Originations:

Figure 2–1 Installation Overview



2.4 Installation Checklist

It is mandatory that the team installing OBEO UK Localization reads and understands the system requirements and specifications for the fusion middleware specified in the following link:

https://docs.oracle.com/html/E82037_01/toc.htm

The link details the system and platform-specific information for Oracle Fusion Middleware 12c Release 1 (12.2.1.3.0) products.

Changes necessary at a system level for the fusion middleware should be made prior to executing OBEO UK Localization media packs.

For example, the number of open files should be increased from the default value as specified in the following link:

https://docs.oracle.com/html/E82037_01/toc.htm#GUID-95BCDEF2-F2FC-4E30-A8EF-B966F817B1D4

To make the installation experience quick and easy, a checklist of information is provided, which should be filled and kept handy. The checklist has been made more intuitive and relevant by ensuring that the Key for properties defined in the installation property file is same as the Name column in the first table of the checklist.

2.4.1 XD Components

The following table provides a list of XD components.

Table 2–4 XD Components

Sr. No.	Name	Value	Description
1	XD_COMPONENT_NAME	batchhost	Value for batch host sever, Policy seeding and BIP reports upload will be done with this batch host server installation
2	XD_COMPONENT_NAME	obepmhost	Value for obepm server (Product Manufacturing)
3	XD_COMPONENT_NAME	obeohost	Value for obeo server (Origination)
4	XD_COMPONENT_NAME	obpmhost	Value for obpm server (Party)
5	XD_COMPONENT_NAME	obeprhost	Value for obpr server (Pricing)
6	XD_COMPONENT_NAME	obccmhost	Value for obccm server (LCM)
7	XD_COMPONENT_NAME	obpui	Value for obeo UI server
8	XD_COMPONENT_NAME	obpsoa	Value for obeo SOA

2.4.2 Updating installobp***.properties

The following checklist provides values for updating installobp***.properties.

Table 2–5 Values for updating installobp.properties***

Sr. No	Name	Description	Example Value	Value
1	SILENT_INSTALL	Flag for	y	

Sr. No	Name	Description	Example Value	Value
		installing silent or interactive mode		
2	IPM_INSTALLED	Flag to make sure IPM is installed	y	
3	BIP_INSTALLED	Flag to make sure BIP is installed	y	
4	OID_FARM_AND_POLICY_SEEDING_FLAG	Flag for policy seeding	Y	This value must be 'Y' for batch host installation and for other XD host installation value must be 'N'
5	BIP_REPORTS_UPLOADING_FLAG	Flag for BIP reports uploading	Y	This value must be 'Y' for batch host installation and for other XD host installation value must be 'N'
6	REMOTE_EXECUTION	Flag for executing installer remotely	Y	
7	SECURITY_ENABLED	Flag for security enable	Y	
8	XD_COMPONENT_NAME	Flag for XD Component name	batchhost	Refer XD components table above

Sr. No	Name	Description	Example Value	Value
9	LOCAL_IP	I/P of the local machine which could be a windows machine on which software like XManager is installed for rendering UI of a utility executing on a remote Linux server.	10.180.84.110	
10	LOCAL_ DISPLAY_VALUE	Value of DISPLAY variable to be exported to generate installation wizard in local machine	0.0	
11	DOMAIN_NAME	Weblogic Domain name	host_domain or ui_domain or base_domain	
12	DOMAIN_ DIRECTORY_ LOCATION	Location where DOMAIN_ NAME folder will be created	/scratch/app/product/fmw/user_ projects/domains	
13	WEBLOGIC_ USERNAME	Username for weblogic domain	weblogic	
14	WEBLOGIC_ PASSWORD	Password for weblogic domain	weblogic1	
15	ADMIN_ SERVER_ LISTEN_ ADDRESS	Admin server listen address	10.180.84.110 (Always use ip , do not use localhost)	
16	ADMIN_ SERVER_ LISTEN_PORT	Admin server listen port	7001	
17	ADMIN_ SERVER_SSL_ LISTEN_PORT	Admin server SSL listen port	7002	
18	MANAGED_ SERVER_ LISTEN_ ADDRESS	Managed server listen address	10.180.84.110	
19	MANAGED_ SERVER_ LISTEN_PORT	Managed server listen port	8001	

Sr. No	Name	Description	Example Value	Value
20	MANAGED_ SERVER_SSL_ LISTEN_PORT	SSL listen port for managed server	8002	
21	LDAP_PROVIDER	Refers to LDAP Provider .Value will be OID or OVD.	OID	
22	OID_IP	I/P address of the OID server.	10.180.84.113	
23	OID_PORT	Port of the OID process instance.	389	
24	OID_ADMIN_ USER	Admin user id which can be used to login of the OID as administrator.	cn= orcladmin	
25	OID_ADMIN_ PWD	Refers to the password of admin user of the OID	welcome1	
26	OID_GROUP_ DSN	The DSN used for object class Groups in the OID ldap.	cn=Groups,dc=in,dc=oracle,dc=com	
27	OID_USER_DSN	The DSN used for object class Users in the OID ldap.	ou=obp,cn=Users,dc=in,dc=oracle,dc=com	
28	NODE_MGR_ PORT	Refers to the port number to be used for the weblogic node manager. This port should either be free on the UI Presentation server or an existing weblogic node manager should be installed to listen on this port when the same is started.	5556	
29	HOST_ CLUSTER_NAME	Refers to HOST cluster name	obphost_cluster1	

Sr. No	Name	Description	Example Value	Value
30	HOST_SERVER_ NAME	Refers to HOST server name	obphost_server1	
31	HOST_JAVA_ HOME	Refers to the home directory of java installation of the host machine. The version of java installed should be 1.8.0 or above. This is used to execute the OBEO security policy seeding utility at the end of the installation.	/scratch/app/product/jdk1.8.0_101	
32	OUI_JAVA_HOME	Refers to the home directory of java installation.	/scratch/app/product/jdk1.8.0_101	
33	CENTRAL_ INVENTORY_LOC	Refers to the path of central inventory. This path is used for oui patching.	/scratch/app/oraInventory	
34	HOST_IP	I/P address of the server on which the OBEO host or middleware layer should be installed.	10.180.84.110 (Always use ip , do not use localhost)	
35	HOST_TARGET	Refers to a location on the Host server where the installable can be transferred. The user id used for installation of OBEO should have read, write and execute privileges on this directory.	/scratch/install/target	
36	HOST_MW_ HOME	Refers to the middleware home of the	/scratch/app/product/fmw	

Sr. No	Name	Description	Example Value	Value
		weblogic installation on the Host server.		
37	UI_ADMIN_ SERVER_ LISTEN_ ADDRESS	Listen address of UI Admin server	10.180.84.111	
38	UI_ADMIN_ SERVER_ LISTEN_PORT	Listen port of UI Admin server	7001	
39	UI_MANAGED_ SERVER_ LISTEN_ ADDRESS	Listen address of UI managed server	10.180.84.111	
40	UI_MANAGED_ SERVER_ LISTEN_PORT	Listen port of UI managed server	8001	
41	UI_MANAGED_ SERVER_SSL_ LISTEN_PORT	Listen ssl port of UI managed server	8002	
42	SOA_ORACLE_ HOME	Name of Oracle SOA which is present in fusion middleware.	soa	
43	SOA_IP	i/p address of SOA machine	10.180.84.112	
44	SOA_UNIX_USER	Unix username of SOA machine	ofssobp	
45	SOA_MW_HOME	Refers to the middleware home of the weblogic installation on the SOA server.	/scratch/app/product/fmw	
46	SOA_DOMAIN_ NAME	Refers to the middleware home of the weblogic installation on the SOA server.	base_domain	
47	SOA_MANAGED_ SERVER_ LISTEN_ ADDRESS	Listen address of SOA server	10.180.84.112	
48	SOA_ADMIN_ SERVER_	Listen port of SOA Admin	7001	

Sr. No	Name	Description	Example Value	Value
	LISTEN_PORT	server		
49	SOA_MANAGED_SERVER_LISTEN_PORT	Listen port of SOA server	8001	
50	SOA_WEBLOGIC_USERNAME	Username of the server of SOA domain	weblogic	
51	SOA_WEBLOGIC_PASSWORD	Password of the server of SOA domain	weblogic1	
52	UI_IP	I/P address of the server on which the OBEO presentation or UI layer should be installed.	10.180.84.111	
53	UI_UNIX_USER	Linux login user id used to install the OBEO UI solution.	ofssobp	
54	UI_DOMAIN_HOME	Refers to the domain name to be used for the weblogic domain of the OBEO Presentation server	/scratch/app/ product /fmw/user_projects /domains /ui_domain	
55	INSTALL_AS	Linux login user id used to install the OBEO solution.	ofssobp	
56	BIP_SERVER_IP	I/P of the BIP server to host OBEO reports	10.180.84.115	
57	BIP_SERVER_PORT	Port of the BIP server that hosts OBEO reports	9502	
58	BIP_UNIX_USER	Linux login user id for BIP server	ofssobp	
59	BIP_MW_HOME	Oracle BIP Middleware directory on BIP server	/scratch/app/product/fmw	
60	BIP_HOME	Oracle BIP Home directory on BIP server	/scratch/app/product/fmw/bi	

Sr. No	Name	Description	Example Value	Value
61	BIP_INSTANCE_PATH	Oracle BIP Instance directory on BIP server	/scratch/app/product/fmw/user_projects/domains/bi_domain/bidata/service_instances/ssi/metadata/content/catalog/root/users/weblogic	
62	BIP_SERVER_USER	Oracle BIP server user id	weblogic	
63	BIP_SERVER_PSWD	Oracle BIP server user password	weblogic1	
64	BIP_REPORT_BASE_PATH	Logical Base Path on Oracle BIP server under which OBEO reports would be hosted	OBEO27/R27INSTALLER	
65	BIP_DATASOURCE_NAME	OBEO Host database user used by OBEO report to fetch data for reports	OBEO27	
66	IPM_UNIX_USER	Linux login user id for IPM server	ofssobp	
67	IPM_SERVER_IP	IP of Oracle Image and Processing Server for OBEO Content Management	10.180.84.114	
68	IPM_SERVER_PORT	Port of Oracle Image and Processing Server for OBEO Content Management	16000	
69	IPM_MW_HOME	Oracle Middleware Home directory on IPM server	/scratch/app/product/fmw	
70	IPM_HOME	Oracle IPM Home directory on IPM server	/scratch/app/product/fmw/wccontent	
71	OBP_HOST_DB_USER	OBEO Host database user	OBEO27	
72	OBP_HOST_DB_PASSWORD	OBEO Host database	welcome1	

Sr. No	Name	Description	Example Value	Value
		password		
73	OBP_HOST_DB_IP	OBEO Host database i/p address	10.180.84.113	
74	OBP_HOST_DB_PORT	OBEO Host database port	1521	
75	OBP_HOST_DB_SERVICE_NAME	OBEO Host database service name	P84113A	
76	ONS_NODE	i/p address of ONS service	10.180.84.113	
77	ONS_PORT	Listen port of ONS service	6250	
78	OPSS_HOST_SCHEMA_USER	OPSS Host schema user	PRDHOST_OPSS	
79	OPSS_HOST_SCHEMA_PASSWORD	OPSS Host schema password	welcome1	
80	OPSS_HOST_DB_IP	OPSS Host DB IP	10.180.84.113	
81	OPSS_HOST_DB_PORT	OPSS Host DB Port	1521	
82	OPSS_HOST_DB_SERVICE_NAME	OPSS Host database service name	P84113A	
83	LOCAL_DATASOURCE	STB datasource schema name	PRDHOST_STB	
84	WLS_RUNTIME_SCHEMA_USER	WLS RNTIME datasource schema name	PRDHOST_WLS_RUNTIME	
85	MDS_HOST_DB_USER	MDS data source schema user name	PRDHOST _MDS	
86	MDS_HOST_DB_PASSWORD	MDS schema Password	welcome1	
87	MDS_HOST_DB_IP	MDS DB IP	10.180.84.113	
88	MDS_HOST_DB_PORT	MDS db port	1521	
89	MDS_HOST_DB_SERVICE_NAME	MDS db service name	P84113A	

Sr. No	Name	Description	Example Value	Value
90	OPSS_SOA_ SCHEMA_USER	SOA OPSS schema name	SOA27_OPSS	
91	OPSS_SOA_ AUDIT_DBDS	SOA OPSS Audit schema name	SOA27_IAU_APPEND	
92	OPSS_SOA_ AUDIT_VIEWDS	SOA OPSS Audit View schema name	SOA27_IAU_VIEWER	
93	OPSS_SOA_ SCHEMA_ PASSWORD	Password of SOA OPSS schema name	welcome1	
94	OPSS_SOA_DB_ IP	IP address of SOA OPSS DB machine	10.180.84.113	
95	OPSS_SOA_DB_ PORT	Port of SOA OPSS DB	1521	
96	OPSS_SOA_DB_ SERVICE_NAME	Service name of SOA OPSS DB	P84113A	
97	HOST_ADMIN_ JVM_PARAMS	Host domain admin JVM startup parameters	-Xms1024m -Xmx4096m	
98	HOST_ MANAGED_JVM_ PARAMS	Host domain managed JVM startup parameters	-Xms8g -Xmx8g -XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX: +CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75	
99	KEYSTORE_ PASSWORD	Password for generating certificate	welcome1	
100	IPM_ OUTBOUND_ USERNAME	IPM Username created in connector	weblogic	
101	IPM_ OUTBOUND_ PASSWORD	Password for the IPM user in connector	weblogic1	
102	BIP_OUTBOUND_ USERNAME	BIP Username created in connector	weblogic	
103	BIP_OUTBOUND_ PASSWORD	Password for the BIP user in connector	weblogic1	

Sr. No	Name	Description	Example Value	Value
104	ODI_ OUTBOUND_ USERNAME	ODI Username created in connector	weblogic	
105	ODI_ OUTBOUND_ PASSWORD	Password for the ODI user in connector	weblogic1	
106	OIM_ OUTBOUND_ USERNAME	OIM Username created in connector	weblogic	
107	OIM_ OUTBOUND_ PASSWORD	Password for the OIM user in connector	weblogic1	
108	WCM_ OUTBOUND_ USERNAME	WCM Username created in connector	weblogic	
109	WCM_ OUTBOUND_ PASSWORD	Password for the WCM user in connector	weblogic1	
110	OFFLINE_ CHANNEL_ OUTBOUND_ USERNAME	Offline Username created in connector	offlineuser	
111	OFFLINE_ CHANNEL_ OUTBOUND_ PASSWORD	Password for the Offline user in connector	welcome1	
112	SAML_ISSUER_ OUTBOUND_ USERNAME	SAML ISSUER Username created in connector	weblogic	
113	SAML_ISSUER_ OUTBOUND_ PASSWORD	Password for the SAML ISSUER user in connector	weblogic1	
114	BPEL_ ENCRYPTION_ OUTBOUND_ USERNAME	BPEL_ ENCRYPTION Username created in connector	weblogic	
115	BPEL_ ENCRYPTION_ OUTBOUND_ PASSWORD	Password for the BPEL_ ENCRYPTION user in connector	weblogic1	
116	FTP_IPM_	FTP IPM	weblogic	

Sr. No	Name	Description	Example Value	Value
	OUTBOUND_ USERNAME	Username created in connector		
117	FTP_IPM_ OUTBOUND_ PASSWORD	Password for the FTP IPM user in connector	weblogic1	
118	FTP_BIP_ OUTBOUND_ USERNAME	FTP BIP Username created in connector	weblogic	
119	FTP_BIP_ OUTBOUND_ PASSWORD	Password for the FTP BIP user in connector	weblogic1	
120	BIP_USR_ OUTBOUND_ USERNAME	BIP Username created in connector	weblogic	
121	BIP_USR_ OUTBOUND_ PASSWORD	Password for the BIP user in connector	weblogic1	
122	SOA_PURGING_ OUTBOUND_ USERNAME	SOA Username created in connector	weblogic	
123	SOA_PURGING_ OUTBOUND_ PASSWORD	Password for the SOA user in connector	weblogic1	
124	SOA_ OUTBOUND_ USERNAME	SOA Username created in connector	weblogic	
125	SOA_ OUTBOUND_ PASSWORD	Password for the SOA user in connector	weblogic1	
126	ATMUSER_ OUTBOUND_ USERNAME	ATM Username created in connector	ATMUser	
127	ATMUSER_ OUTBOUND_ PASSWORD	Password for the ATM user in connector	welcome1	
128	POSUSER_ OUTBOUND_ USERNAME	POS Username created in connector	POSUser	
129	POSUSER_ OUTBOUND_ PASSWORD	Password for the POS user in connector	welcome1	

Sr. No	Name	Description	Example Value	Value
130	DMSHOST_ OUTBOUND_ USERNAME	DMS HOST Username created in connector	weblogic	
131	DMSHOST_ OUTBOUND_ PASSWORD	Password for the DMS HOST user in connector	weblogic1	
132	DMSUI_ OUTBOUND_ USERNAME	DMS UI Username created in connector	weblogic	
133	DMSUI_ OUTBOUND_ PASSWORD	Password for the DMS UI user in connector	weblogic1	
134	OCH_ OUTBOUND_ USERNAME	OCH Username created in connector	weblogic	
135	OCH_ OUTBOUND_ PASSWORD	Password for the OCH user in connector	weblogic1	
136	WS_MFT_ OUTBOUND_ USERNAME	WS_MFT Username created in connector	weblogic	
137	WS_MFT_ OUTBOUND_ PASSWORD	Password for the WS_MFT user in connector	weblogic1	
138	OP_OUTBOUND_ USERNAME	OP Username created in connector	weblogic	
139	OP_OUTBOUND_ PASSWORD	Password for the OP user in connector	weblogic1	
140	ICS_ OUTBOUND_ USERNAME	Username for ICS connector	weblogic	
141	ICS_ OUTBOUND_ PASSWORD	Password for ICS connector	Weblogic1	
142	OBDX_ OUTBOUND_ USERNAME	Username for OBDX connector	1518675030085dean.white@test.com	
143	OBDX_	Password for	Welcome@1	

Sr. No	Name	Description	Example Value	Value
	OUTBOUND_ PASSWORD	OBDX connector		
144	EDN_ OUTBOUND_ USERNAME	Username for EDN connector	weblogic	
145	EDN_ OUTBOUND_ PASSWORD	Password for EDN Connector	weblogic1	
146	COMMON_ OUTBOUND_ USERNAME	Username for COMMON connector	weblogic	
147	COMMON_ OUTBOUND_ PASSWORD	Password for COMMON Connector	weblogic1	
148	PM_OUTBOUND_ USERNAME	Username for PM connector	weblogic	
149	PM_OUTBOUND_ PASSWORD	Password for PM Connector	weblogic1	
150	LENDING_ OUTBOUND_ USERNAME	Username for LENDING connector	weblogic	
151	LENDING_ OUTBOUND_ PASSWORD	Password for LENDING Connector	weblogic1	
152	DEPOSITS_ OUTBOUND_ USERNAME	Username for DEPOSITS connector	weblogic	
153	DEPOSITS_ OUTBOUND_ PASSWORD	Password for DEPOSITS Connector	weblogic1	
154	FW_OUTBOUND_ USERNAME	Username for FW connector	weblogic	
155	FW_OUTBOUND_ PASSWORD	Password for FW Connector	weblogic1	
156	COLLECTION_ OUTBOUND_ USERNAME	Username for COLLECTION connector	weblogic	
157	COLLECTION_ OUTBOUND_ PASSWORD	Password for COLLECTION Connector	weblogic1	
158	OR_OUTBOUND_ USERNAME	Username for OR connector	weblogic	
159	OR_OUTBOUND_	Password for	weblogic1	

Sr. No	Name	Description	Example Value	Value
	PASSWORD	OR Connector		
160	PARTY_ OUTBOUND_ USERNAME	Username for PARTY connector	weblogic	
161	PARTY_ OUTBOUND_ PASSWORD	Password for PARTY Connector	weblogic1	
162	PRODPROC_ OUTBOUND_ USERNAME	Username for PRODPROC connector	weblogic	
163	PRODPROC_ OUTBOUND_ PASSWORD	Password for PRODPROC Connector	weblogic1	
164	RECOVERY_ OUTBOUND_ USERNAME	Username for RECOVERY connector	weblogic	
165	RECOVERY_ OUTBOUND_ PASSWORD	Password for RECOVERY Connector	weblogic1	
166	PRICING_ OUTBOUND_ USERNAME	Username for PRICING connector	weblogic	
167	PRICING_ OUTBOUND_ PASSWORD	Password for PRICING Connector	weblogic1	
168	LCM_ OUTBOUND_ USERNAME	Username for LCM connector	weblogic	
169	LCM_ OUTBOUND_ PASSWORD	Password for LCM Connector	weblogic1	
170	MDM_ OUTBOUND_ USERNAME	Username for MDM connector	weblogic	
171	MDM_ OUTBOUND_ PASSWORD	Password for MDM Connector	weblogic1	
172	COMMUNICATIO NS_OUTBOUND_ USERNAME	Username for COMMUNICAT IONS connector	weblogic	
173	COMMUNICATIO NS_OUTBOUND_ PASSWORD	Password for COMMUNICAT IONS Connector	weblogic1	

Sr. No	Name	Description	Example Value	Value
174	APPCAPTURE_ OUTBOUND_ USERNAME	Username for APPCAPTURE connector	weblogic l	
175	APPCAPTURE_ OUTBOUND_ PASSWORD	Password for APPCAPTURE Connector	weblogic1	
176	CARD_ USERNAME	Username of Card connector	weblogic1	
177	CARD_ PASSWORD	Password of Card connector	welcome1	
178	RULE_ USERNAME	Username of Rule connector	orakey	
179	RULE_ PASSWORD	Password of Rule connector	welcome1	
180	BAM_USERNAME	Username of BAM connector	weblogic	
181	BAM_ PASSWORD	Password of BAM connector	weblogic1	
182	USER_ TIMEZONE	Time zone entry	+5:30	
183	HOST_SSL_ PASSWORD	Password for configuring SSL in HOST domain	welcome1	
184	SILENT_INSTALL	Flag for executing installer remotely	y	
185	SECURITY_ ENABLED	Flag for security enable	Y	
186	IPM_INSTALLED	Flag for if IPM is installed	Y	
187	BIP_INSTALLED	Flag for if BIP is installed	Y	
188	LOCAL_IP	I/P address of the local machine which could be a windows machine on which software like XManager is installed for rendering UI of a	10.180.84.111	

Sr. No	Name	Description	Example Value	Value
		utility executing on a remote Linux server.		
189	LOCAL_ DISPLAY_VALUE	Value of DISPLAY variable to be exported to generate installation wizard in local machine	0.0	
190	DOMAIN_NAME	Weblogic Domain name	Host_domain or ui_domain or base_domain	
191	XD_ COMPONENT_ NAME	XD Component value	obpui	
192	DOMAIN_ DIRECTORY_ LOCATION	Location where DOMAIN_ NAME folder will be created	/scratch/app/product/fmw/user_ projects/domains	
193	WEBLOGIC_ USERNAME	Username for weblogic domain	weblogic	
194	WEBLOGIC_ PASSWORD	Password for weblogic domain	weblogic1	
195	LOCAL_ DATASOURCE	Username of LOCAL_ DATASOURCE	PRDUI_STB	
196	WLS_RUNTIME_ SCHEMA_USER	WLS RUNTIME Data source	PRDUI_WLS_RUNTIME	
197	OPSS_UI_ SCHEMA_USER	OPSS UI schema name	PRDUI_OPSS	
198	OPSS_UI_ SCHEMA_ PASSWORD	OPSS UI schema password	Welcome1	
199	OPSS_UI_DB_IP	OPSS UI DB IP	10.180.84.113	
200	OPSS_UI_DB_ PORT	OPSS UI DB PORT	1521	
201	OPSS_UI_DB_ SERVICE_NAME	OPSS UI DB SERIVICE NAME	P84113A	
202	MDS_SCHEMA_ USER	MDS schema name	PRDUI _MDS	
203	MDS_SCHEMA_ PASSWORD	Password of MDS schema	welcome1	

Sr. No	Name	Description	Example Value	Value
204	MDS_DB_IP	MDS DB IP	10.180.84.113	
205	MDS_DB_PORT	MDS DB PORT	1521	
206	MDS_DB_ SERVICE_NAME	MDS DB SERVIVE NAME	P84113A	
207	OPSS_SOA_ SCHEMA_USER	SOA OPSS Schema name	PRDSOA _OPSS	
208	OPSS_SOA_ AUDIT_DBDS	SOA OPSS AUDIT schema name	PRDSOA_IAU_APPEND	
209	OPSS_SOA_ AUDIT_VIEWDS	SOA OPSS AUDIT VIEWDB Schema name	PRDSOA_IAU_VIEWER	
210	OPSS_SOA_ SCHEMA_ PASSWORD	SOA OPSS password for above three OPSS schema	welcome1	
211	OPSS_SOA_DB_ IP	Service name of UI OPSS DB	10.180.84.113	
212	OPSS_SOA_DB_ PORT	SOA OPSS DB PORT	1521	
213	OPSS_SOA_DB_ SERVICE_NAME	SOA OPSS DB SERVICE NAME	P84113A	
214	HOST_SCHEMA_ USER	OBEO Host Database username	OBEO27	
215	HOST_SCHEMA_ PASSWORD	OBEO Host Database password	welcome1	
216	HOST_DB_IP	OBEO Host Database i/p address	10.180.84.113	
217	HOST_DB_PORT	OBEO Host Database listen port	1521	
218	HOST_DB_ SERVICE_NAME	OBEO Host Database service name	P84113A	
219	ONS_NODE	i/p address of ONS service	10.180.84.113	
220	ONS_PORT	Listen port of	6250	

Sr. No	Name	Description	Example Value	Value
		ONS service		
221	ADMIN_ SERVER_ LISTEN_ ADDRESS	Admin server listen address	10.180.84.111	
222	ADMIN_ SERVER_ LISTEN_PORT	Admin server listen port	7001	
223	ADMIN_ SERVER_SSL_ LISTEN_PORT	Admin server SSL listen port	7002	
224	MANAGED_ SERVER_ LISTEN_ ADDRESS	Managed server listen address	10.180.84.111	
225	MANAGED_ SERVER_ LISTEN_PORT	Managed server listen port	8001	
226	MANAGED_ SERVER_SSL_ LISTEN_PORT	Managed server SSL listen port	8002	
227	LDAP_PROVIDER	Refers to LDAP Provider .Value will be OID or OVD.	OID	
228	OID_IP	I/P address of the OID server	10.180.84.113	
229	OID_PORT	Port of the OID process instance.	3060	
230	OID_ADMIN_ USER	Admin user id which can be used to login of the OID as administrator.	cn=orcladmin	
231	OID_ADMIN_ PWD	Refers to the password of admin user of the OID	welcome1	
232	OID_GROUP_ DSN	The DSN used for object class Groups in the OID ldap.	cn=Groups,dc=in,dc=oracle,dc=com	
233	OID_USER_DSN	The DSN used for object class	ou=obp,cn=Users,dc=in,dc=oracle,dc=com	

Sr. No	Name	Description	Example Value	Value
		Users in the OID ldap.		
234	NODE_MGR_ PORT	Refers to the port number to be used for the weblogic node manager. This port should either be free on the UI Presentation server or an existing weblogic node manager should be installed to listen on this port when the same is started	5556	
235	UI_IP	I/P address of the server on which the OBEO presentation or UI layer should be installed.	10.180.84.111	
236	UI_CLUSTER_ NAME	Name of UI Managed Cluster	obpui_cluster1	
237	UI_SERVER_ NAME	Name of UI Managed Server	obpui_server1	
238	UI_TARGET	Refers to a location on the UI server where the installables can be transferred. The user id of the use used for installation of OBEO should have read, write and execute privileges on this directory.	/scratch/install/target	
239	UI_MW_HOME	Refers to the middleware home of the weblogic installation on the UI server.	/scratch/app/product/fmw	

Sr. No	Name	Description	Example Value	Value
240	UI_JAVA_HOME	Refers to the home directory of java installation. The version of java installed should be 1.8.0 or above. This is used to execute the OBEO security policies policy seeding utility at the end of the installation.	/scratch/app/product/jdk1.8.0_101	
241	OUI_JAVA_HOME	Refers to the home directory of java installation.	/scratch/app/product/jdk1.8.0_101	
242	CENTRAL_ INVENTORY_LOC	Refers to the path of central inventory. This path is used for oui patching.	/scratch/app/oraInventory	
243	INSTALL_AS	Linux login user id used to install the OBEO solution.	ofssobp	
244	IPM_UNIX_USER	Linux login user id of IPM server	ofssobp	
245	IPM_SERVER_IP	i/p address of IPM server	10.180.84.114	
246	IPM_SERVER_ PORT	Listen port of IPM server	16000	
247	IPM_MW_HOME	Oracle IPM Middleware Home directory on IPM server	/scratch/app/product/fmw	
248	IPM_HOME	Oracle IPM Home directory on IPM server	/scratch/app/product/fmw/wccontent	
249	BIP_SERVER_IP	i/p address of BIP server	10.180.84.115	
250	BIP_SERVER_ PORT	Listen port of BIP server	9502	
251	BIP_UNIX_USER	Linux login user id of BIP server	ofssobp	

Sr. No	Name	Description	Example Value	Value
252	BIP_HOME	Oracle BIP Home directory on BIP server	/scratch/app/product/fmw/bi	
253	OAAM_SERVER_IP	OAAM server IP for 2FA. OAAM_SERVER_IP refers to the ip address of OAAM Server (i.e. the IP of default server name as oaam_server_server1)	oaam-ofss.com	
254	OAAM_SERVER_PORT	OAAM server Port for 2FA. OAAM_SERVER_PORT refers to the port of OAAM Server (default server name as oaam_server_server1)	14000	
255	OIM_SERVER_IP	Oracle Identity Manager i/p address	oim-ofss.com	
256	OIM_SERVER_PORT	Oracle Identity Manager Listen Port	16000	
257	OFSAA_SERVER_IP	OFSAA Server i/p address	ofsaa-ofss.com	
258	OFSAA_SERVER_PORT	OFSAA Server listen port	17000	
259	UI_ADMIN_JVM_PARAMS	UI domain admin JVM startup parameters	-Xms2048m -Xmx4096m	
260	HOST_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of HOST admin server	10.180.84.110	
261	HOST_ADMIN_SERVER_LISTEN_PORT	Listen port of HOST admin server	7001	

Sr. No	Name	Description	Example Value	Value
262	HOST_ MANAGED_ SERVER_ LISTEN_ ADDRESS	Listen address of host managed server	10.180.84.110	
263	HOST_ MANAGED_ SERVER_ LISTEN_PORT	Listen port of host managed server	8001	
264	SOA_MANAGED_ SERVER_ LISTEN_ ADDRESS	Listen address of SOA server	10.180.84.112	
265	SOA_MANAGED_ SERVER_ LISTEN_PORT	Listen port of SOA server	8001	
266	SOA_ADMIN_ SERVER_ LISTEN_ ADDRESS	Listen address of Admin SOA server	10.180.84.112	
267	SOA_ADMIN_ SERVER_ LISTEN_PORT	Listen port of Admin SOA server	7001	
268	KEYSTORE_ PASSWORD	Password for generating certificate	welcome1	
269	UI_SSL_ PASSWORD	Password for configuring SSL in UI domain	welcome1	
270	UCM_READ_ FROM_URL	Flag for getting UCM URL from properties file. These values are used by the Webcenter Portal application for internet banking. Hence values for UCM_ READ_FROM_ URL and UCM_ IP, UCM_PORT below can be left as is for installations, which do not use	true/false	

Sr. No	Name	Description	Example Value	Value
		the Webcenter portal for hosting their internet banking application. However, as a best practice, it is recommended that we configure values for UCP_IP and UCM_PORT correctly from day 1		
271	UCM_IP	UCM_IP the IP address of the UCM WebLogic managed server.	ofss.ucm.com	
272	UCM_PORT	Port of UCM.	4444	
273	OFFLINE_ CHANNEL_ OUTBOUND_ USERNAME	Offline username created in connector	offlineuser	
274	OFFLINE_ CHANNEL_ OUTBOUND_ PASSWORD	Password for the Offlineuser user in connector	welcome1	
275	CARD_ USERNAME	Username of Card connector.	orakey	
276	CARD_ PASSWORD	Password of Card connector.	welcome1	
277	RULE_ USERNAME	Username of Rule connector	orakey	
278	RULE_ PASSWORD	Password of Rule connector	welcome1	
279	USER_ TIMEZONE	Time zone entry	+5:30	
280	REMOTE_ EXECUTION	Flag for executing installer remotely	Y	
281	IPM_USERNAME	Username of IPM connector	weblogic	
282	IPM_PASSWORD	Password of	weblogic1	

Sr. No	Name	Description	Example Value	Value
		IPM connector		
283	FTP_IPM_ USERNAME	Username of FTP_IPM connector	ofssobp	
284	FTP_IPM_ PASSWORD	Password of FTP_IPM connector	ofssobp123	
285	FTP_IPM_ BATCH_ USERNAME	Username of FTP_IPM_ BATCH	ofssobp	
286	FTP_IPM_ BATCH_ PASSWORD	Password of FTP_IPM_ BATCH	ofssobp123	
287	HOST_UNIX_ USER	Linux login user id for HOST server	ofssobp	
288	HOST_MW_ HOME	Refers to the middleware home of the weblogic installation on the Host server.	/scratch/app/product/fmw	
289	SOA_MW_HOME	Refers to the middleware home of the weblogic installation on the SOA server.	/scratch/app/product/fmw	
290	SOA_DOMAIN_ NAME	SOA Domain Name	base_domain	
291	SILENT_INSTALL	Flag for installing silent or interactive mode	y	
292	SECURITY_ ENABLED	Flag for security enable	Y	
293	IPM_INSTALLED	Flag for if IPM is installed	Y	
294	BIP_INSTALLED	Flag for if BIP is installed	Y	
295	LOCAL_IP	I/P of the local machine which could be a windows machine on	10.180.84.112	

Sr. No	Name	Description	Example Value	Value
		which software like XManager is installed for rendering UI of a utility executing on a remote Linux server.		
296	LOCAL_ DISPLAY_VALUE	Value of DISPLAY variable to be exported to generate installation wizard in local machine	0.0	
297	DOMAIN_NAME	Name of the weblogic domain to be created	Host_domain or ui_domain or base_domain	
298	XD_ COMPONENT_ NAME	XD Component name	obpsoa	
299	DOMAIN_ DIRECTORY_ LOCATION	Location where DOMAIN_ NAME folder will be created	/scratch/app/product/fmw/user_ projects/domains	
300	WEBLOGIC_ USERNAME	Username for weblogic domain	weblogic	
301	WEBLOGIC_ PASSWORD	Password for weblogic domain	weblogic1	
302	MDS_SCHEMA_ USER	MDS schema user for SOA domain	SOA27_MDS	
303	SOA_ INFRASTRUCTU RE_SCHEMA_ USER	SOA infrastructure schema user for SOA domain	SOA27_SOAINFRA	
304	LOCAL_ DATASOURCE	Local schema user for SOA domain	SOA27_STB	
305	UMS_ DATASOURCE	UMS schema user for SOA domain	SOA27_UMS	
306	WLS_RUNTIME_ SCHEMA_USER	WLS_ RUNTIME schema user for SOA domain	SOA27_WLS_RUNTIME	

Sr. No	Name	Description	Example Value	Value
307	DB_SCHEMA_PASSWORD	Password for MDS schema user	welcome1	
308	DB_IP	i/p address of MDS db machine	10.180.84.113	
309	DB_PORT	Port of MDS db port	1521	
310	DB_SERVICE_NAME	Service Name of MDS user	P84113A	
311	HOST_SCHEMA_USER	OBEO Host Database username	OBEO27	
312	HOST_SCHEMA_PASSWORD	OBEO Host Database password	welcome1	
313	HOST_DB_IP	OBEO Host Database i/p address	10.180.84.113	
314	HOST_DB_PORT	OBEO Host Database port	1521	
315	HOST_DB_SERVICE_NAME	OBEO Host Database service name	P84113A	
316	ONS_NODE	i/p address of ONS service	10.180.84.113	
317	ONS_PORT	Port of ONS service	6250	
318	OPSS_SOA_SCHEMA_USER	SOA OPSS Schema Name	SOA27_OPSS	
319	OPSS_SOA_AUDIT_DBDS	SOA OPSS AUDIT Schema name	SOA27_IAU_APPEND	
320	OPSS_SOA_AUDIT_VIEWDS	SOA OPSS AUDIT VIEWDS Schema name	SOA27_IAU_VIEWER	
321	OPSS_SOA_SCHEMA_PASSWORD	Password of OPSS_SOA_SCHEMA_USER	welcome1	
322	OPSS_SOA_DB_IP	i/p address of SOA OPSS DB.	10.180.84.113	

Sr. No	Name	Description	Example Value	Value
323	OPSS_SOA_DB_PORT	Port of SOA OPSS DB.	1521	
324	OPSS_SOA_DB_SERVICE_NAME	Service name of SOA OPSS DB.	P84113A	
325	ADMIN_SERVER_LISTEN_ADDRESS	Admin server listen address	10.180.84.112	
326	ADMIN_SERVER_LISTEN_PORT	Admin server listen port	7001	
327	ADMIN_SERVER_SSL_LISTEN_PORT	Admin server SSL listen address	7002	
328	SOA_SERVER_LISTEN_ADDRESS	Listen address of SOA server	10.180.84.112	
329	SOA_SERVER_LISTEN_PORT	Listen port of SOA server	8001	
330	SOA_SERVER_SSL_LISTEN_PORT	SSL Listen port of SOA server	8002	
331	HUMANTASK_SERVER_LISTEN_ADDRESS	Listen address of humantask server	10.180.84.112	
332	HUMANTASK_SERVER_LISTEN_PORT	Listen port of humantask server	9001	
333	HUMANTASK_SERVER_SSL_LISTEN_PORT	SSL listen port of humantask server	9002	
334	BAM_SERVER_LISTEN_ADDRESS	Listen address of BAM server	10.180.84.112	
335	BAM_SERVER_LISTEN_PORT	Listen port of BAM server	9003	
336	BAM_SERVER_SSL_LISTEN_PORT	SSL Listen port of BAM server	9004	
337	HOST_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of HOST admin server	10.180.84.110	

Sr. No	Name	Description	Example Value	Value
338	HOST_ADMIN_ SERVER_ LISTEN_PORT	Listen port of HOST admin server	7001	
339	HOST_ MANAGED_ SERVER_ LISTEN_ ADDRESS	Listen address of host managed server	10.180.84.110	
340	HOST_ MANAGED_ SERVER_ LISTEN_PORT	Listen port of host managed server	8001	
341	OBEPM_HOST_ MANAGED_ SERVER_ LISTEN_ ADDRESS	Listen address of obepm managed server	10.180.4.113	
342	OBEPM_HOST_ MANAGED_ SERVER_ LISTEN_PORT	Listen port of obepm managed server	8003	
343	OBEO_HOST_ MANAGED_ SERVER_ LISTEN_ ADDRESS	Listen address of obeo managed server	10.180.4.98	
344	OBEO_HOST_ MANAGED_ SERVER_ LISTEN_	Listen port of obeo managed server	8001	
345	OBPM_HOST_ MANAGED_ SERVER_ LISTEN_ ADDRESS	Listen address of obpm managed server	10.180.4.98	
346	OBPM_HOST_ MANAGED_ SERVER_ LISTEN_PORT	Listen port of obpm managed server	8003	
347	OBCCM_HOST_ MANAGED_ SERVER_ LISTEN_ ADDRESS	Listen address of occm managed server	10.180.4.113	
348	OBCCM_HOST_ MANAGED_ SERVER_	Listen port of occm managed server	8005	

Sr. No	Name	Description	Example Value	Value
	LISTEN_PORT			
349	OBEPR_HOST_ MANAGED_ SERVER_ LISTEN_ ADDRESS	Listen address of obepr managed server	10.180.4.113	
350	OBEPR_HOST_ MANAGED_ SERVER_ LISTEN_PORT	Listen port of obepr managed server	8001	
351	LDAP_PROVIDER	Refers to LDAP Provider .Value will be OID or OVD.	OID	
352	OID_IP	I/P address of the OID server.	10.180.84.113	
353	OID_PORT	Port of the OID process instance.	3060	
354	OID_ADMIN_ USER	Admin user id which can be used to login of the OID as administrator.	cn	
355	OID_ADMIN_ PWD	Refers to the password of admin user of the OID	welcome1	
356	OID_GROUP_ DSN	The DSN used for object class Groups in the OID ldap.	cn=Groups,dc=in,dc=oracle,dc=com	
357	OID_USER_DSN	The DSN used for object class Users in the OID ldap.	ou=obp,cn=Users,dc=in,dc=oracle,dc=com	
358	NODE_MGR_ PORT	Refers to the port number to be used for the weblogic node manager. This port should either be free on the UI Presentation server or an existing	5556	

Sr. No	Name	Description	Example Value	Value
		weblogic node manager should be installed to listen on this port when the same is started		
359	SOA_IP	i/p address of SOA server	10.180.84.112	
360	SOA_CLUSTER_NAME	Cluster name of SOA server	obpsoa_cluster1	
361	SOA_SERVER_NAME	Server name of SOA server	soa_server1	
362	HUMAN_TASK_CLUSTER_NAME	Cluster name of Humantask server	obphumantask_cluster1	
363	HUMAN_TASK_SERVER_NAME	Server name of Humantask server	obphumantask_server1	
364	SOA_TARGET	Target folder of SOA machine where files will be copied temporarily during installation	/scratch/install/target	
365	SOA_JAVA_HOME	Refers to the home directory of java installation of the SOA machine. The version of java installed should be 1.8.0 or above. This is used to execute the OBEO security policies policy seeding utility at the end of the installation.	/scratch/app/product/jdk1.8.0_101	
366	OUI_JAVA_HOME	Refers to the home directory of java installation.	/scratch/app/product/jdk1.8.0_101	
367	CENTRAL_INVENTORY_LOC	Refers to the path of central	/scratch/app/oraInventory/	

Sr. No	Name	Description	Example Value	Value
		inventory. This path is used for oui patching.		
368	SOA_MW_HOME	Refers to the middleware home of the weblogic installation on the SOA server.	/scratch/app/product/fmw	
369	UI_IP	i/p address of UI server	10.180.84.111	
370	UI_UNIX_USER	Linux login user id for UI server	ofssobp	
371	UI_DOMAIN_ HOME	Full path of UI domain	/scratch/app/ product/fmw/ user_projects/ domains /ui_domain	
372	INSTALL_AS	Linux login user id used to install the OBEO solution.	ofssobp	
373	SOA_ADMIN_ JVM_PARAMS	SOA domain admin JVM startup parameters	-Xms1024m -Xmx2048m	
374	SOA_ HUMANTASKSE RVER_JVM_ PARAMS	SOA domain human task server's JVM startup parameters	-Djbo.ampool. doampooling=false –Xms12g -Xmx12g -XX:NewSize= 512m -XX:MaxNewSize =2048m -XX: +UseParNewGC -XX:+ CMSParallel RemarkEnabled -XX:+UseConcMark SweepGC -XX:CMSInitiating OccupancyFraction=75 -Dobp.http. maxRetryCount=1	

Sr. No	Name	Description	Example Value	Value
			-Dobp.http .socketBufferSize=81	
375	SOA_MANAGED_ JVM_PARAMS	SOA domain managed soa server's JVM startup parameters	-XX:NewSize =2048m -XX:MaxNewSize =4096m -XX:+UsePa rNewGC -XX: +CMSPar allelRemarkEnabled -XX:+UseCo ncMarkSweepGC -XX:CMSInit iatingOccupancy Fraction=75 -Xms11g -Xmx11g	
376	KEYSTORE_ PASSWORD	Password for generating certificate	welcome1	
377	UI_MANAGED_ SERVER_ LISTEN_ ADDRESS	i/p address of UI Managed server	10.180.84.111	
378	UI_MANAGED_ SERVER_ LISTEN_PORT	Listen port of UI Managed server	8001	
379	UI_MANAGED_ SERVER_SSL_ LISTEN_PORT	SSL Listen port of UI Managed server	8002	
380	UI_ADMIN_ SERVER_ LISTEN_ ADDRESS	i/p address of UI Admin server	10.180.84.111	
381	UI_ADMIN_ SERVER_ LISTEN_PORT	Listen port of UI Admin server	7001	
382	DEFAULT_BANK_ CODE	Default bank code will be set while configuring SOA domain	8	
383	DEFAULT_ TRANSACTION_ BRANCH_CODE	Default branch code will be set while configuring	89999	

Sr. No	Name	Description	Example Value	Value
		SOA domain		
384	DEFAULT_ TARGET_UNIT	Default target unit will be set while configuring SOA domain	OBP_BU	
385	CARD_ USERNAME	Username of Card connector.	orakey	
386	CARD_ PASSWORD	Password of Card connector	welcome1	
387	RULE_ USERNAME	Username of Rule connector	orakey	
388	RULE_ PASSWORD	Password of Rule connector	welcome1	
389	USER_ TIMEZONE	Time zone entry	+5:30	
390	SOA_SSL_ PASSWORD	Password for configuring SSL in SOA domain	welcome1	
391	REMOTE_ EXECUTION	Flag for executing installer remotely	Y	
392	BAM_ INSTALLATION	During SOA installation value Must be 'N' During BAM installation value Must be Y.	N	
393	IPM_USERNAME	Username of IPM connector	ofssobp	
394	IPM_PASSWORD	Password of IPM connector	welcome1	
395	OFFLINE_ CHANNEL_ OUTBOUND_ USERNAME	Username of offline connector	offlineuser	
396	OFFLINE_ CHANNEL_ OUTBOUND_ PASSWORD	Password of offline connector	welcome1	
397	FTP_IPM_ USERNAME	Username of FTP_IPM connector	ofssobp	

Sr. No	Name	Description	Example Value	Value
398	FTP_IPM_ PASSWORD	Password of FTP_IPM connector	ofssobp123	
399	FTP_IPM_ BATCH_ USERNAME	Username of FTP_IPM_ BATCH connector	ofssobp	
400	FTP_IPM_ BATCH_ PASSWORD	Password of FTP_IPM_ BATCH connector	ofssobp123	
401	SOA_ OUTBOUND_ USERNAME	Username of SOA connector	weblogic	
402	SOA_ OUTBOUND_ PASSWORD	Password of SOA connector	weblogic1	
403	IPM_SERVER_IP	i/p address of IPM server	10.180.84.114	
404	IPM_UNIX_USER	Linux login user id for IPM server	ofssobp	
405	IPM_MW_HOME	Oracle IPM middleware Home directory on IPM server	/scratch/app/product/fmw	
406	IPM_HOME	Oracle IPM Home directory on IPM server	/scratch/app/product/fmw/wccontent	
407	BIP_SERVER_IP	I/P of the BIP server to host OBEO reports	10.180.84.115	
408	BIP_SERVER_ PORT	Port of the BIP server that hosts OBEO reports	9502	
409	BIP_UNIX_USER	Linux login user id for BIP server	ofssobp	
410	BIP_HOME	Oracle BIP Home directory on BIP server	/scratch/app/product/fmw/bi	
411	OAAM_SERVER_ IP	oaam sever ip address	oaam-ofss.com	
412	OAAM_SERVER_ PORT	oaam server port	14000	

Sr. No	Name	Description	Example Value	Value
413	OIM_SERVER_IP	oim server ip	oim-ofss.com	
414	OIM_SERVER_ PORT	oim server port	16000	
415	OFSAA_ SERVER_IP	ofss server ip	ofsaa-ofss.com	
416	OFSAA_ SERVER_	ofss server port	17000	
417	DOCUMAKER_ SERVER_IP	documaker server ip	documaker-ofss.com	
418	DOCUMAKER_ SERVER_PORT	documaker server port	15000	
419	BAM_SERVER_ NAME	Bam server name	bam-ofss.com	
420	BAM_SERVER_ PORT	Bam server port	9003	
421	ODI_SERVER_ NAME	Odi server name	odi-ofss.com	
422	LOCALIZATION_ TYPE	Type of localization	uk	

2.4.3 Database and WebLogic Domain Configuration

The following table lists the other information which should be kept handy to make this installation easy.

Table 2–6 DB and WebLogic Domain Configuration

Sr. No.	Name	Description and Example	Value
UI and Host Linux user login details			
1	UI / Presentation Linux server user id	This is same as INSTALL_AS captured in the checklist above.	
2	UI / Presentation Linux server user password	Password for the user specified against INSTALL_AS.	
3	Host Linux server user id	This is same as INSTALL_AS captured in the checklist above.	
4	Host Linux server user password	Password for the user specified against INSTALL_AS.	
Database Details			
5	IP address of the OBEO Oracle DB server	10.180.90.30	

Sr. No.	Name	Description and Example	Value
6	Port of the OBEO Oracle DB instance	1521	
7	OBEO DB Service Name	OBPDB	
8	OBEO DB sys password	**********	
9	ONS NODE	10.180.90.30, Make sure ons service is started on DB.	
10	ONS Port	6250	
Additional UI Install Checklist			
11	Admin user id and password for the OBEO UI domain.	The default admin user id is WebLogic. Decide on the password to be used and note it.	
12	List of port numbers for the OBEO UI domain for: Admin server HTTP port for managed server HTTPS port for managed server	Default Values Admin Server Port: 7001 Managed Server http port: 15308 Managed Server https port: 15309	
13	Password for the key generated to establish trust between the OBEO UI and Host.	Decide on the password to be used and note it. This is required for the post installation tasks of UI domain.	
14	Password for keystore generated to establish trust.	Decide on the password to be used and note it. This is required for the post installation tasks UI domain.	
Additional Host Install Checklist			
15	Admin user id and password for the OBEO Host domain.	The default admin user id is WebLogic. Decide on the password to be used and note it.	
16	List of port numbers for the OBEO Host domain for: Admin server HTTP port for managed server HTTPS port for managed server	Default Values Admin Server Port: 7001 Managed Server http port: 15308 Managed Server https port: 15309	
17	Password for the key generated to establish trust between the OBEO UI and Host.	This is same as password in row 11. This is required for the post installation tasks of host domain.	

Sr. No.	Name	Description and Example	Value
18	Password for keystore generated to establish trust.	This is same as password in row 12. This is required for the post installation tasks of host domain.	

2.5 OID Schema Setup – Custom OBEO Schema

This section describes the OID Schema setup which is a pre-installation configuration required for Oracle Banking Enterprise Originations setup.

2.5.1 Prerequisite – OID setup

I4.1. It is assumed that OID 12.2.1.3.0 is installed with ODSM and configured.

2.5.2 Verify the OID installation

This section describes the procedure to verify the OID installation.

2.5.2.1 Start and Verify the OID processes

Log in to the Linux console with user id `oracle`, navigate to the 'bin' directory of the OID instance and start the OID processes using the commands as follows:

For example, if the OID installation is in "/scratch/app/product/fmw/user_projects/domains/oid_domain/bin"

cd /scratch/app/product/fmw/user_projects/domains/oid_domain/bin

./startComponent.sh oid1

2.5.2.2 OPSS/OID Performance Tuning

The following changes are required in OID before initiating OBEO installation:

Parameters

Change the parameter values as provided below.

Table 2–7 Parameter Values to be Changed

Parameter Name	Value
orclmaxcc (Number of DB Connections per Server Process)	10
orclserverprocs (Number of OID LDAP Server Processes)	4
orclgeneratechangelog (Change log Generation)	0
orclldapconntimeout (LDAP Connection Timeout)	60
orclmatchdenabled (Enable MatchDN Processing)	0

Advanced OID tuning

The steps to perform advanced OID tuning are as follows:

1. Create a .ldif file with any name. For example, tune.ldif.
2. Enter the following information in that file and save it:

   dn: cn=dsaconfig,cn=configsets,cn=oracle internet directory
   changetype: modify
   replace: orclecachemaxsize
   orclecachemaxsize: 3g
   -
   replace: orclecachemaxentries
   orclecachemaxentries: 500000

   Sample tune.ldif file
   dn: cn=oid1,cn=osdldapd,cn=subconfigsubentry
   changetype: modify
   replace: orclserverprocs
   orclserverprocs: 4

   dn: cn=oid1,cn=osdldapd,cn=subconfigsubentry
   changetype: modify
   replace: orclmaxcc
   orclmaxcc: 10

   dn: cn=oid1,cn=osdldapd,cn=subconfigsubentry
   changetype: modify
   replace: orclgeneratechangelog
   orclgeneratechangelog: 0

   dn: cn=oid1,cn=osdldapd,cn=subconfigsubentry
   changetype: modify
   replace: orclldapconntimeout
   orclldapconntimeout: 60

   dn: cn=oid1,cn=osdldapd,cn=subconfigsubentry
   changetype: modify
   replace: orclmatchdenabled

orclmatchdenabled: 0

3. See the OID Tuning Guide available at: https://docs.oracle.com/en/middleware/lifecycle/12.2.1.3/asper/oracle-internet-directory-performance-tuning.html#GUID-254611A2-0B71-4FBE-90D1-4D13A41B5F47

OPSS Tuning

The steps to perform advanced OPSS tuning are as follows:

1. **IDM Database recommendations**

   a. The following table presents the suggested values of parameters and alter scripts executed in system for which the user needs to change the parameters.

Table 2–8 Suggested values for Tuning and Alter Command

Sr. No.	DB Property Name	Suggested Value for Tuning	Alter Command
1	Process	1500	ALTER SYSTEM SET processes = 1500 SCOPE = spfile;
2	SGA Target	3G	ALTER SYSTEM SET sga_target = 3221225472 SCOPE = spfile;
3	Audit Trail	None	ALTER SYSTEM SET audit_sys_ operations=FALSE SCOPE =SPFILE; ALTER SYSTEM SET audit_trail = NONE SCOPE = spfile;
4	Open Cursor	500	ALTER SYSTEM SET open_cursors = 500 SCOPE = spfile;
5	PGA_Aggregate_Target	1.5GB	ALTER SYSTEM SET pga_aggregate_ target = 1610612736 SCOPE = spfile;
6	NLS Sort	Binary	ALTER SYSTEM SET nls_sort = BINARY SCOPE = spfile;
7	Filesystemio_Options	SETALL	ALTER SYSTEM SET filesystemio_ options = SETALL SCOPE = spfile;
8	Fast_start_mttr_target	3600	ALTER SYSTEM SET fast_start_mttr_ target = 3600 SCOPE = spfile;
9	db_securefile	ALWAYS	ALTER SYSTEM SET db_securefile = ALWAYS SCOPE = spfile;
10	Session_cached_ cursors	500	ALTER SYSTEM SET session_ cached_cursors = 500 SCOPE = spfile;
11	plsql_code_type	NATIVE	ALTER SYSTEM SET plsql_code_ type = NATIVE SCOPE = spfile;
12	_b_tree_bitmap_plans	false	ALTER SYSTEM SET "_b_tree_ bitmap_plans" = FALSE scope=spfile;

Sr. No.	DB Property Name	Suggested Value for Tuning	Alter Command
13	Memory_target	0	ALTER SYSTEM SET memory_ target=0 SCOPE = SPFILE;

b. Redo log file.

Allocated Disk Space for Redo Log Files

```
ALTER DATABASE ADD logfile ('<oradata
directory>/ORA4212/redo01.log') SIZE 4G REUSE;

ALTER DATABASE ADD logfile ('<oradata
directory>/ORA4212/redo02.log') SIZE 4G REUSE;

ALTER DATABASE ADD logfile ('<oradata
directory>/ORA4212/redo03.log') SIZE 4G REUSE;
```

c. Undo tablespace.

Increase Disk Space Allocated for UNDO Tablespace

```
ALTER DATABASE DATAFILE '<oradata directory>/ORA4212/undotbs01.dbf'
RESIZE 20G NEXT 1G;
```

2. jps-config.xml (All servers of UI, Host, SOA domains)

a. Remove the following properties from <serviceInstance name="pdp.service" provider="pdp.service.provider"> in jps_config.xml.

```
<property
name="oracle.security.jps.runtime.pd.client.policyDistri
butionMode" value="mixed"/>
<property
name="oracle.security.jps.runtime.instance.name"
value="OracleIDM"/>
<property name="oracle.security.jps.runtime.pd.client.sm_
name" value="OracleIDM"/>
<property
name="oracle.security.jps.policystore.refresh.enable"
value="true"/>
```

b. Add following properties:

<DOMAIN-HOME>/config/fmwconfig/jps-config.xml

```
<propertySet name="props.db.1">
<property name="authorization_cache_enabled"
value="true"/>
<property name="connection.pool.min.size" value="20"/>
<property name="connection.pool.max.size" value="40"/>
```

```
<property name="connection.pool.provider.type"
value="IDM"/>
<property name="connection.pool.timeout" value="300000"/>
<property name="connection.pool.provider.type"
value="5"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.t
ype" value="STATIC"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.s
trategy" value="NONE"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.s
ize" value="100"/>
<property
name="oracle.security.jps.policystore.policy.lazy.load.e
nable" value="true"/>
<property
name="oracle.security.jps.policystore.policy.cache.strat
egy" value="NONE"/>
<property
name="oracle.security.jps.policystore.policy.cache.size"
value="1000000"/>
<property
name="oracle.security.jps.policystore.refresh.enable"
value="true"/>
<property
name="oracle.security.jps.policystore.refresh.purge.time
out" value="43200000"/>
<property
name="oracle.security.jps.ldap.policystore.refresh.inter
val" value="6000000"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.w
armup.enable" value="true"/>
</propertySet>
```

c. All the above properties should also be added in the <pdp.service> service-instance.

```
<serviceInstance name="pdp.service"
provider="pdp.service.provider">
<description>Runtime PDP service instance</description>
<property name="authorization_cache_enabled"
value="true"/>
<property name="connection.pool.min.size" value="20"/>
<property name="connection.pool.max.size" value="40"/>
<property name="connection.pool.provider.type"
value="IDM"/>
```

```
<property name="connection.pool.timeout" value="300000"/>
<property name="connection.pool.provider.type"
value="5"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.t
ype" value="STATIC"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.s
trategy" value="NONE"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.s
ize" value="100"/>
<property
name="oracle.security.jps.policystore.policy.lazy.load.e
nable" value="true"/>
<property
name="oracle.security.jps.policystore.policy.cache.strat
egy" value="NONE"/>
<property
name="oracle.security.jps.policystore.policy.cache.size"
value="1000000"/>
<property
name="oracle.security.jps.policystore.refresh.enable"
value="true"/>
<property
name="oracle.security.jps.policystore.refresh.purge.time
out" value="43200000"/>
<property
name="oracle.security.jps.ldap.policystore.refresh.inter
val" value="6000000"/>
<property
name="oracle.security.jps.policystore.rolemember.cache.w
armup.enable" value="true"/>
</serviceInstance>
```

3. adf-config.xml (optional)

   In adf-config.xml, maintain **authorizationEnforce="true"**

4. setDomainEnv.sh

   In setDomainEnv.sh file, include the following java properties. These are absolutely necessary, if authorizationEnforce = true (previous point).

   Table 2–9 Properties

Property	Description
-Djps.combiner.optimize=true	This system property is used to cache the protection domains for a given subject. Setting –

Property	Description
	`Djps.combiner.optimize=true` can improve Java authorization performance.
-Djps.combiner.optimize.lazyeval=true	This system property is used to evaluate a subject's protection domain when a checkPermission occurs. Setting – `Djps.combiner.optimize.lazyeval=true` can improve Java authorization performance.
-Djps.policystore.hybrid.mode=false	This 'hybrid mode' property is used to facilitate transition from SUN java.security.Policy to OPSS Java Policy Provider.
-Djps.authz=ACC	Delegates the call to JDK API AccessController.checkPermission which can reduce the performance impact at run time or while debugging.
DUSE_JAAS=false	
Djps.auth=ACC	Delegates the call to JDK API AccessController.checkPermission which can reduce the performance impact at run time or while debugging
Djps.auth.debug=false	Turn off debugging. This is turned on to debug access denied errors.
Djps.subject.cache.key=5	JPS uses a Subject Resolver to convert a platform subject to JpsSubject which contains user/enterprise-role information, as well as ApplicationRole information. This information is represented as principals in the subject. Value = 5: Instead of using the whole subject as the key, this settings uses a subset of the principal set inside the subject as the key (actually use principals of WLSUSerImpl type). This setting will accelerate the cache retrieval operation if the subject has a large principal set.
Djps.subject.cache.ttl=600000	Cache's Time To Live (TTL) for case '5' (above). This system property controls how long the cache is valid. When the time expired, the cached value is dumped. The setting can be controlled by the flag of -Djps.subject.cache.ttl=xxxx, where 'xxx' is the duration in milliseconds. Consider setting the duration of this TTL setting to the same value as the value used for the group and user cache TTL in WLS LDAP authenticator.

Example:

```
JAVA_PROPERTIES="-Djps.combiner.optimize=true -
Djps.combiner.optimize.lazyeval=true -Djps.policystore.hybrid.mode=false
-Djps.authz=ACC ${JAVA_PROPERTIES} ${WLP_JAVA_PROPERTIES}"

export JAVA_PROPERTIES
```

2.5.2.3 Import OBEO Specific LDIF files

If Oracle Identity Manager (OIM) is installed as the user provisioning product, use the ldif files from the location <HOST_TARGET>. These ldif files do not contain any predefined users and roles other than some crucial system users that are needed during startup. The privileges of these users are contained. OIM is used for creation of first user in OBEO.

If OIM is not part of the ecosystem and an initial sanity test of the OBEO installation is needed, the sample ldif files present at the location<HOST_TARGET> can be used for creation of Users and Groups. These sample files can be used directly or can be modified as per requirements. In production after initial verification these users have to be removed.

Note

Ensure that 'ldapadd' and 'ldapmodify' are available on the machine.

1. Extract the 'obpuk-host.zip' to obtain 'obpinstall-host.zip'. It contains ldif.zip and sampleLdif.zip.
2. Extract ldif.zip. It will create a folder named ldif with ldif files or extract sampleLdif.zip, which will create a folder named ldif, with ldif files as follows:
   - fcPerson.ldif
   - obp_ou.ldif
   - jpsroot.ldif
   - Users.ldif
   - Groups.ldif
   - Weblogic.ldif
   - Administrators.ldif
3. These are to be used and updated in the OID if necessary. The execution commands for uploading these LDIF files are given below. The execution order must be maintained as described.

   Table 2–10 Order of Execution

Sr. No.	LDIF File Name	Description
1	fcPerson	Creates fcPerson object class
2	obp_ou	Creates obp user Users
3	Jpsroot	Creates jpsroot and jpscontext
4	Users	Creates OFSSUser
5	Groups	Creates OFSS_Role and offlinerole
6	Weblogic	Creates weblogic user
7	Administrators	Creates Administrators Group

4. DNS should be changed as per the requirement of the bank in the LDIF files for:

- Users
- Groups
- WebLogic
- Administrators

> **Note**
>
> While executing fcPerson.ldif, “value already exist” problem may appear in console.
>
> For this problem, the objectClasses value is required to be changed.
>
> It can be found, at the end of the file as:
>
> “add:objectClasses
>
> objectClasses:(2.5.6.47”
>
> To resolve this problem, change the value (default, it is 2.5.6.47) of object classes, then run it again.

5. Before executing the following commands, navigate to the location where the LDIF files reside (that is, inside LDIF folder) in Host machine, where OpenLDAP has been installed as mentioned in prerequisite section.

ldapadd fcPerson.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
fcPerson.ldif
```

ldapadd obp_ou.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
obp_ou.ldif
```

ldapadd jpsroot.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
jpsroot.ldif
```

ldapadd Users.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
Users.ldif
```

ldapadd Groups.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
Groups.ldif
```

ldapadd WebLogic.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
Weblogic.ldif
```

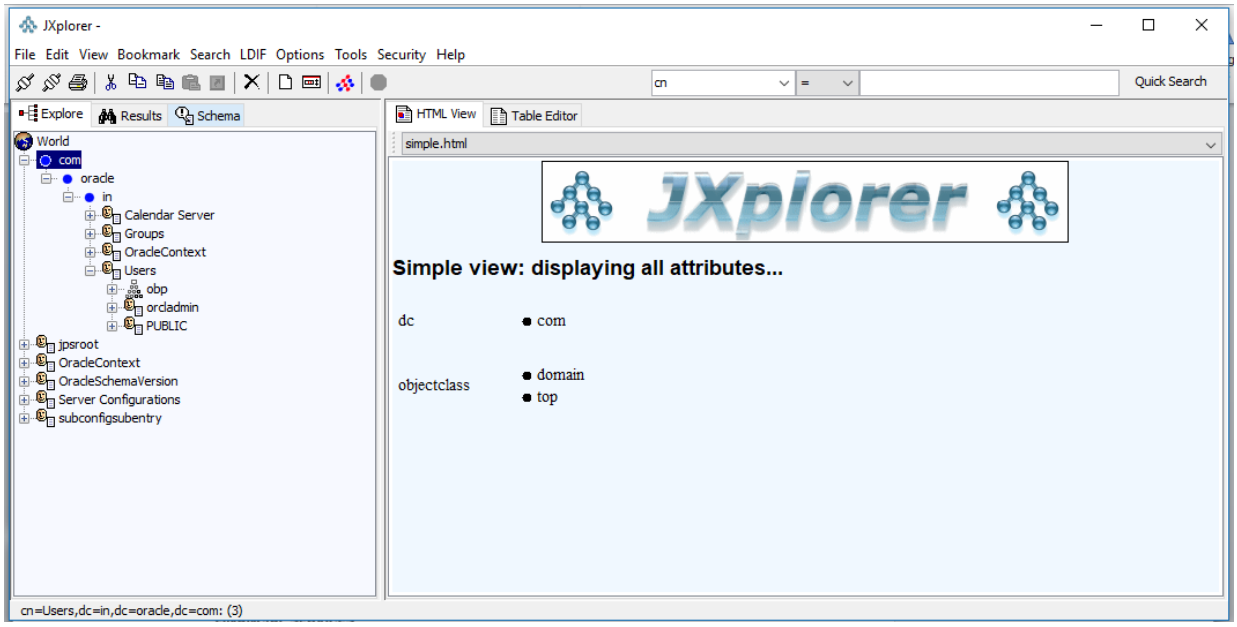
ldapadd Administrators.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
Administrators.ldif
```

2.5.2.4 Verify the import using ODSM or JXplorer

The import of Oracle Banking Enterprise Originations specific LDIF files can be verified using JXplorer.

Figure 2–2 JXplorer



3 OBEO UK Localization SOA Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Enterprise Originations UK Localization SOA Media Pack. The subsequent section refers to the variable names specified in Section 2.4 Installation Checklist.

3.1 Installation and Configuration Procedure

This section details the installation procedure for the OBEO UK Localization SOA Media Pack.

3.1.1 Preparatory Steps

This section lists the preparatory steps required for the OBEO UK Localization SOA Media Pack installation.

Step 1 Procuring Installables

Download the appropriate SOA media pack from the following location:

http://edelivery.oracle.com/

Step 2 Extracting the Installables

Copy the 'obpuk-ui-soa.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the zip file. Three files will be extracted:

- A zip file 'obpinstall-ui-soa.zip'
- The installation script 'installobpsoa.sh'
- The install configuration property file 'installobpsoa.properties'

Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in Section 2.4 Installation Checklist of this guide and note the values applicable for each point in the last column for 'Value' so that the same is handy during the actual installation.

3.1.2 Pre-Installation Steps

This section lists the pre-installation steps required for the OBEO UK Localization SOA Media Pack installation.

Step 1 Updating installobpsoa.properties

Navigate to the directory where the files obpinstall-ui-soa.zip, installobpsoa.sh and installobpsoa.properties are placed and update installobpsoa.properties with relevant values from the checklist.

Step 2 Checklist for a new setup

Before initiating installation, check the following:

- Make sure required RCU schemas have been created. For more information, see Section 7.1 Pre-Installation Steps and Section 7.2 OBEO Database Setup – RCU Installation.
- Increase the size of tablespace (at least 6GB and the auto extend mode must be on) for MDS, SOAINFRA and OPSS schema used for SOA domain.
- Node manager must not be running on the target machine.
- Create a dummy folder named target and mention its path against SOA_TARGET property.
- Values given in installobpui.properties must be correct. At run time, no option is given to change the values.
- No processes should be running on the ports given in installobpsoa.properties.
- In case of a re-installation ensure that the directory paths against SOA_TARGET and SOA_MW_HOME specified in installobpsoa.properties are cleaned up for traces of any previous installations, as the remote shell copy may not be overwriting in case of any residual file left by the previous run.
- Before initiating the installation, ensure that all the values given in installobpsoa.properties are correct. At the time of installation, the values will only be displayed once for verification, and it will not be possible to change the values once the installation begins.

Step 3 OS Level Tuning

OBEO libraries are usually copied on an NFS mount. During startup a lot of time is spent fetching these libraries for classloading and resource loading. The last access time on the files gets imprinted on the file metadata, which actually incurs a WRITE. Since, this is over NFS, this has a performance impact.

The mount points should be mounted using the "noatime" flag to disable updating the access time. This is a recommended parameter as per FMW MAA shared storage WP.

For more information, see the following document:

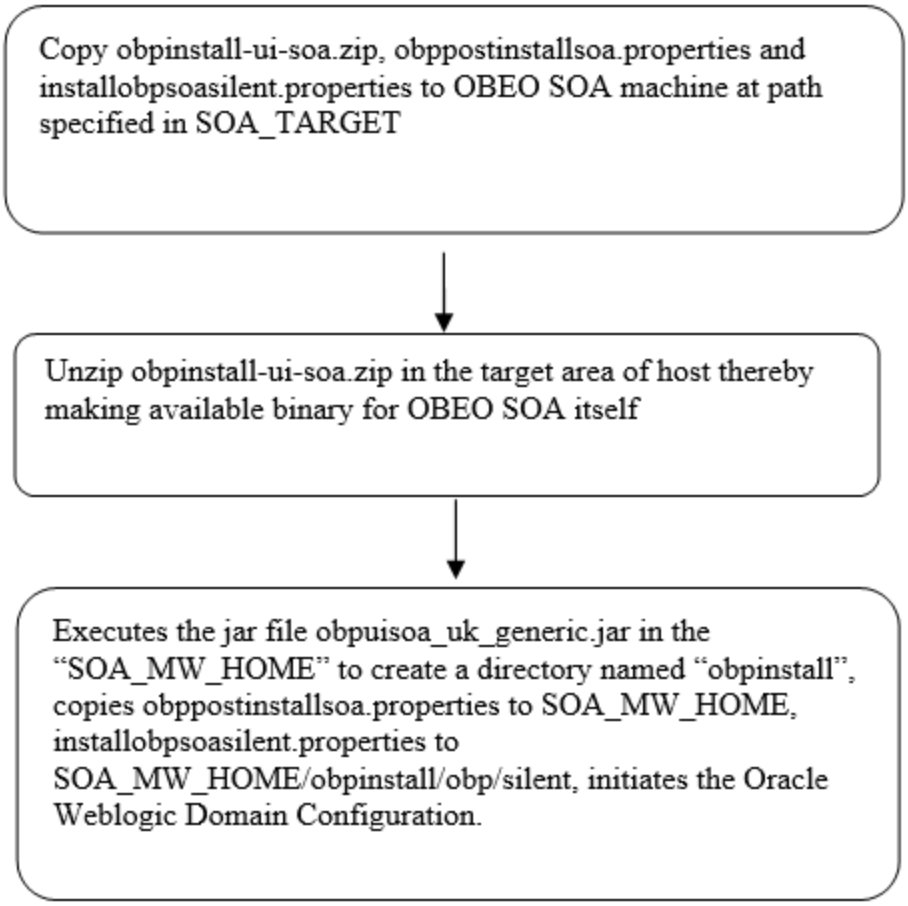
http://www.oracle.com/technetwork/database/availability/maa-fmwsharedstoragebestpractices-402094.pdf

3.1.3 Installation Steps

This section lists the installation steps required for the OBEO UK Localization SOA Media Pack installation.

1. Navigate to the directory where the media pack files are placed and execute installobpsoa.sh. The installation script shall echo the values entered in the installobpsoa.properties file and ask for a confirmation to go ahead with the installation.
2. The installation script automatically triggers the following significant steps using secure remote copy 'scp' command and remote shell commands execution using the 'ssh' command.

Figure 3–1 Steps in installobpsoa.sh script



A sample output is given here.

./installobpsoa.sh

Figure 3–2 Verification of Properties

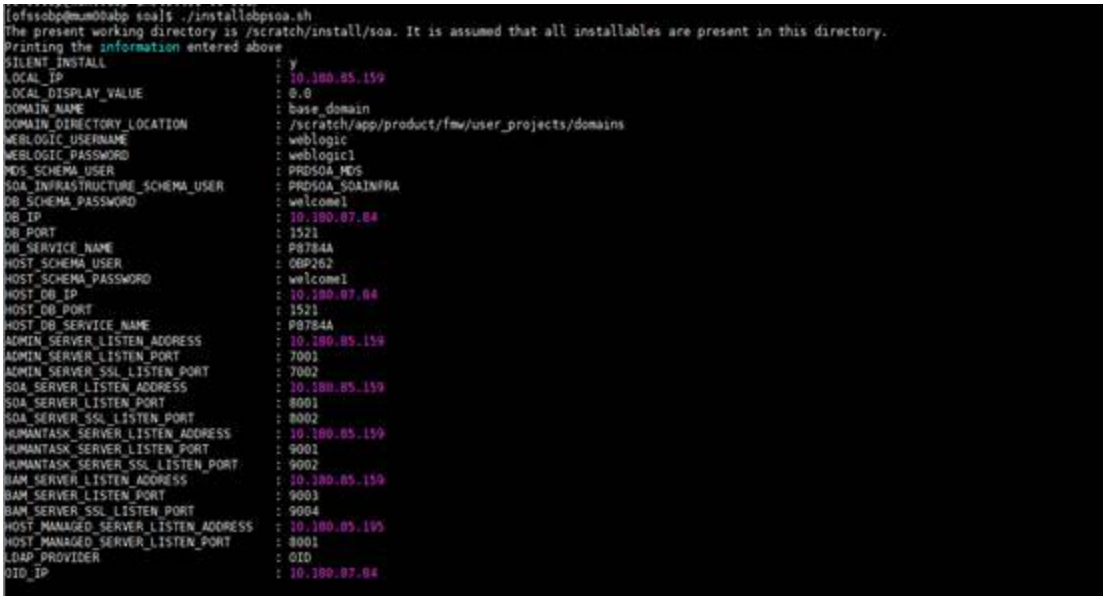


Figure 3–3 Verification of Properties

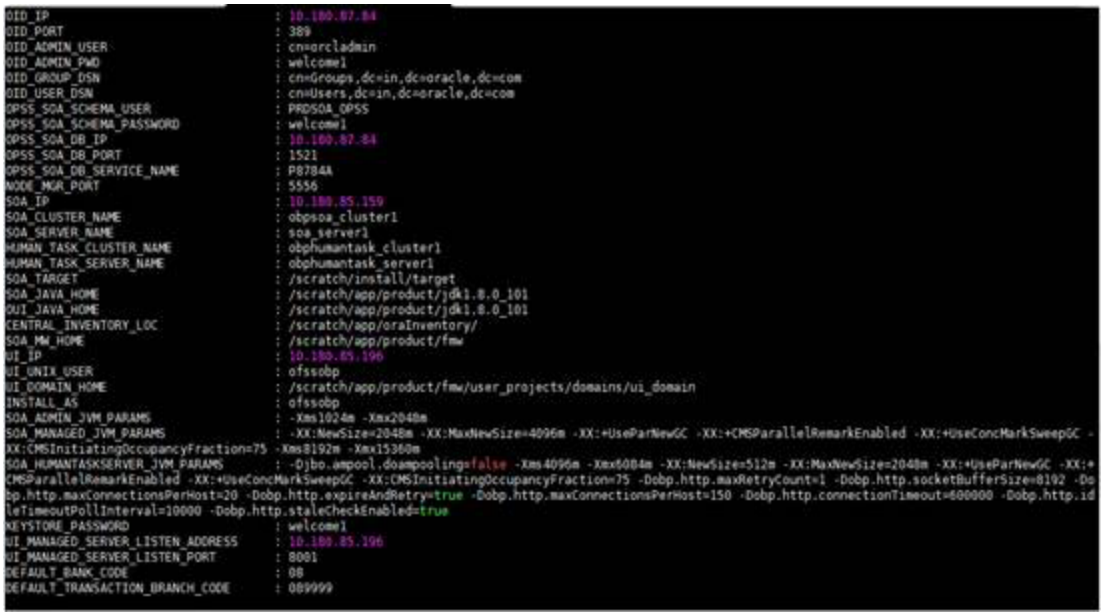
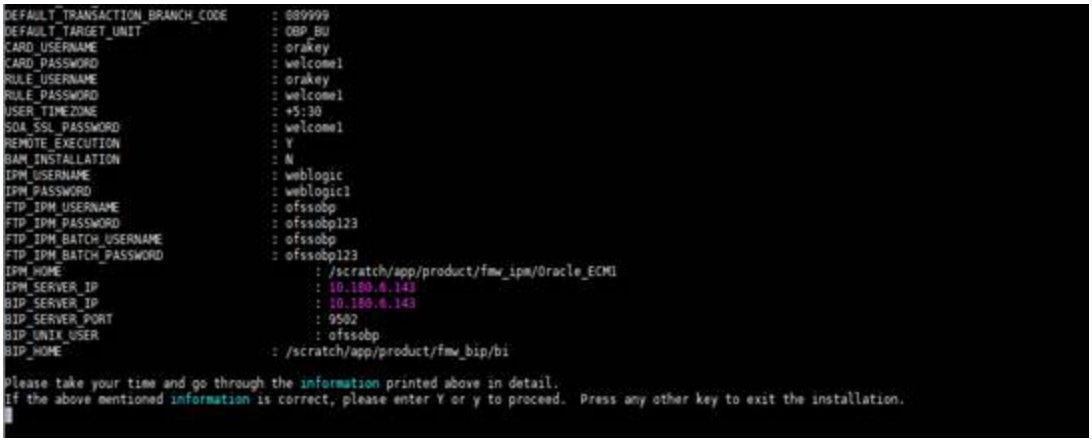


Figure 3–4 Confirmation to Proceed Domain Installation (cont.)



3. Verify the value of each property carefully before proceeding.
4. If all values are correct, then enter 'Y' or 'y' and press Enter to initiate the installation. The installation utility performs the installation and domain is created silently.

Figure 3–5 Copying and Extraction of obpinstall-ui-soa.zip

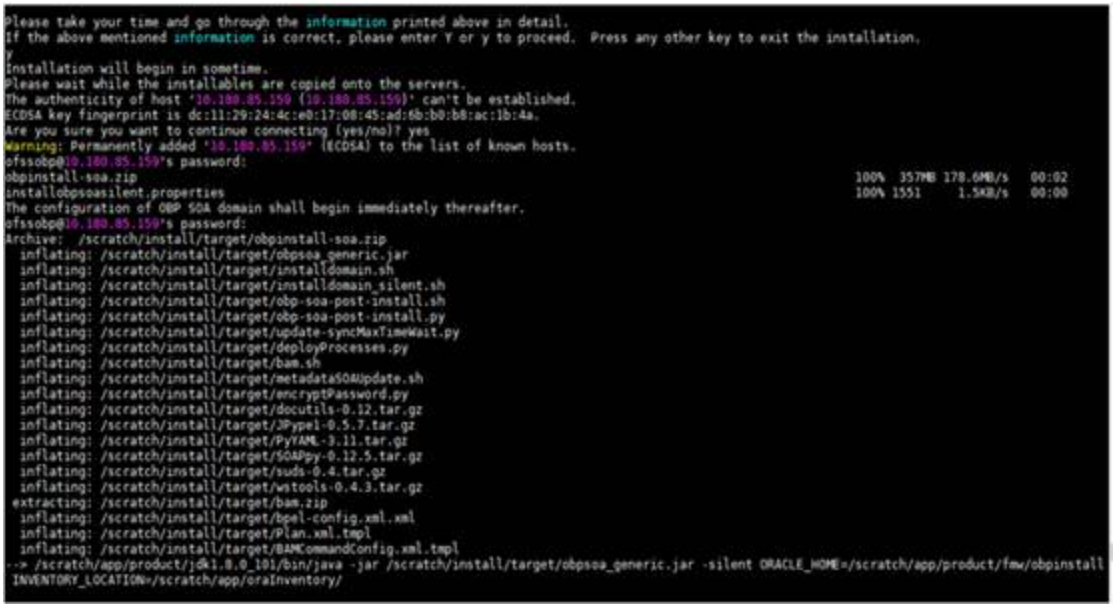


Figure 3–6 Copying and Extraction of obpinstall-ui-soa.zip

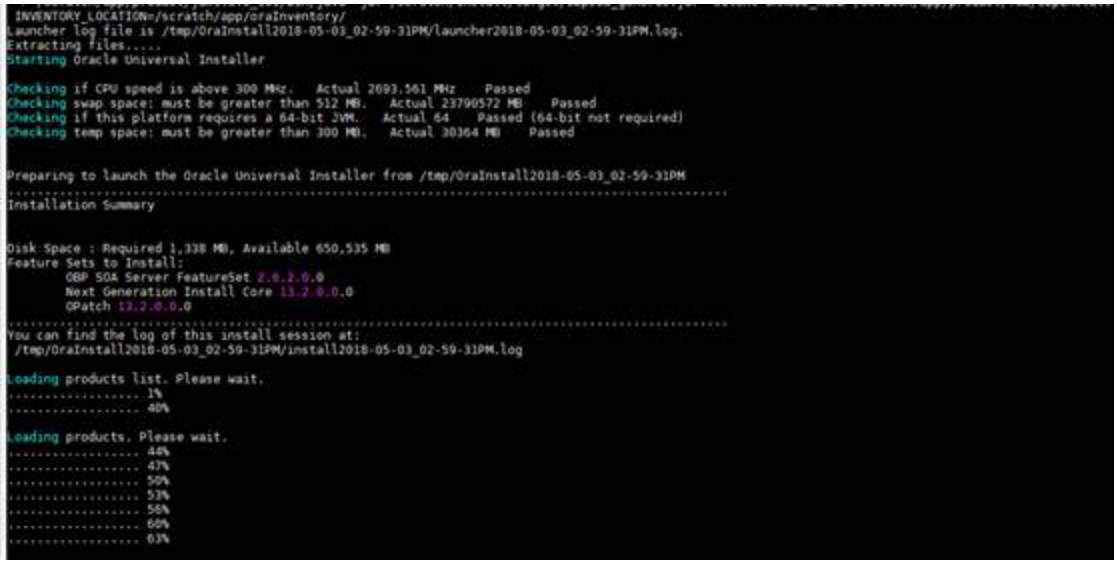


Figure 3–7 Copying and Extraction of obpinstall-ui-soa.zip

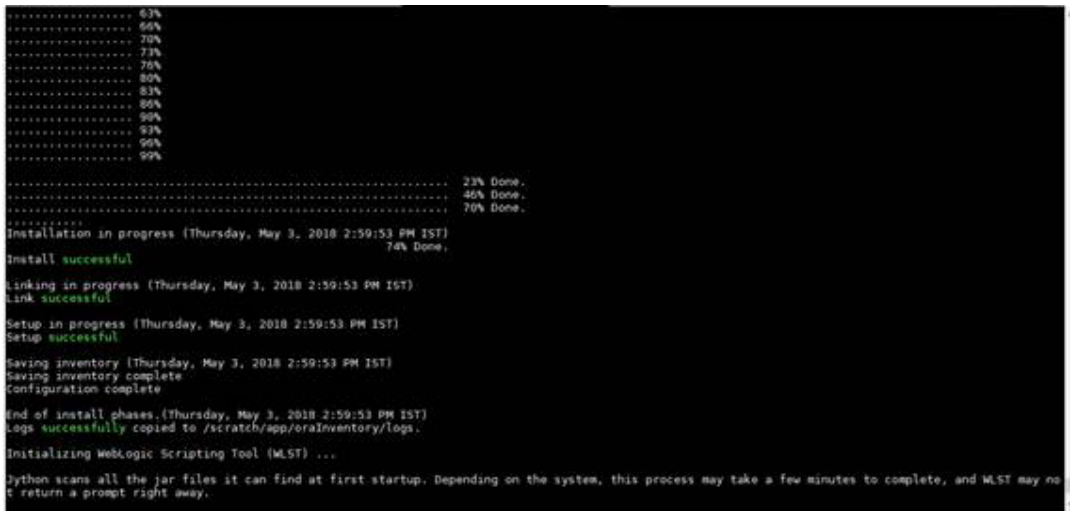


Figure 3–8 Domain Creation Confirmation

3.2 Post Installation Configuration

This section describes the post installation configuration procedure for OBEO UK Localization SOA Media Pack.

Checklist for Post Installation Procedure

Before proceeding with the post installation procedure for SOA, ensure the following:

- Replace /scratch/app/product/fmw path with your middleware home path in setDomainEnv.sh and setDomainEnvSOA if not replaced.
- Node manager is not running on the SOA machine.
- All values in obppostinstallsoa.properties are correct
- OID_DOMAIN_NAME given in obppostinstallsoa.properties must not exist.
- Node manager port should be free. You can verify using the following command, where 5556 is the Node Manager Port.

```
$netstat -na | grep 5556
```

Post Installation Configuration

1. Start the OBEO SOA domain admin WebLogic server by executing the startWebLogic.sh script in the domain directory.

```
cd <middleware home>
cd user_projects/domains/obpsoadomain/bin
./startWebLogic.sh
```

2. Enter the username and password when prompted.
3. Start the managed server – soa_server1.

```
cd <middleware home>
cd user_projects/domains/obpsoadomain/bin
./startManagedWebLogic.sh soa_server1 t3://localhost:<admin_
server_port>
```

Note

Do not run the post-install as soon as SOA server comes up.

Wait until it loads all the processes and displays the message *SOA platform is running and accepting requests.*

Initiate post-install after getting this message in the console.

4. Once the SOA admin and managed servers are running, execute the post install script 'obp-soa-post-install.sh' created under middleware directory just like other domains.
5. Navigate to the middleware location and give executable permission to the post install script:

```
$cd <soa middleware home>
```

Then execute following script:

```
$./obp-soa-post-install.sh
```

A sample output is given here:

Figure 3–9 Starting Post Installation

```
[ofssobp@mum00abp fmw]$ ./obp-soa-post-install.sh
DOMAIN_NAME                         : base_domain
DOMAIN_DIRECTORY_LOCATION           : /scratch/app/product/fmw/user_projects/domains
WEBLOGIC_USERNAME                   : weblogic
WEBLOGIC_PASSWORD                   : weblogic1
ADMIN_SERVER_LISTEN_ADDRESS         : 10.180.85.159
ADMIN_SERVER_LISTEN_PORT            : 7001
SOA_SERVER_LISTEN_ADDRESS           : 10.180.85.159
SOA_SERVER_LISTEN_PORT              : 8001
BAM_SERVER_LISTEN_ADDRESS           : 10.180.85.159
BAM_SERVER_LISTEN_PORT              : 9003
HOST_MANAGED_SERVER_LISTEN_ADDRESS  : 10.180.85.195
HOST_MANAGED_SERVER_LISTEN_PORT     : 8001
LDAP_PROVIDER                       : OID
OID_IP                              : 10.180.87.84
OID_PORT                            : 389
OID_ADMIN_USER                      : cn=orcladmin
OID_ADMIN_PWD                       : welcome1
OID_GROUP_DSN                       : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN                        : cn=Users,dc=in,dc=oracle,dc=com
NODE_MGR_PORT                       : 5556
SOA_IP                              : 10.180.85.159
SOA_CLUSTER_NAME                    : obpsoa_cluster1
SOA_SERVER_NAME                     : soa_server1
HUMAN_TASK_CLUSTER_NAME             : obphumantask_cluster1
HUMAN_TASK_SERVER_NAME              : obphumantask_server1
SOA_TARGET                          : /scratch/install/target
SOA_JAVA_HOME                       : /scratch/app/product/jdk1.8.0_101
SOA_MW_HOME                         : /scratch/app/product/fmw
UI_IP                               : 10.180.85.196
UI_UNIX_USER                        : ofssobp
UI_DOMAIN_HOME                      : /scratch/app/product/fmw/user_projects/domains/ui_domain
INSTALL_AS                          : ofssobp
SOA_ADMIN_JVM_PARAMS                : -Xms1024m -Xmx2048m
SOA_MANAGED_JVM_PARAMS              : -XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -
XX:CMSInitiatingOccupancyFraction=75 -Xms8192m -Xmx15360m
SOA_HUMANTASKSERVER_JVM_PARAMS      : -Djbo.ampool.doampooling=false -Xms4096m -Xmx6084m -XX:NewSize=512m -XX:MaxNewSize=2048m -XX:+UseParNewGC -XX:+
CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Dobp.http.maxRetryCount=1 -Dobp.http.socketBufferSize=8192 -Do
```

Figure 3–10 Starting Post Installation (contd)

```
SOA_HUMANTASKSERVER_JVM_PARAMS       : -Djbo.ampool.doampooling=false -Xms4096m -Xmx6084m -XX:NewSize=512m -XX:MaxNewSize=2048m -XX:+UseParNewGC -XX:+
CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Dobp.http.maxRetryCount=1 -Dobp.http.socketBufferSize=8192 -Do
bp.http.maxConnectionsPerHost=20 -Dobp.http.expireAndRetry=true -Dobp.http.maxConnectionsPerHost=150 -Dobp.http.connectionTimeout=600000 -Dobp.http.id
leTimeoutPollInterval=10000 -Dobp.http.staleCheckEnabled=true
KEYSTORE_PASSWORD                    : welcome1
UI_MANAGED_SERVER_LISTEN_ADDRESS     : 10.180.85.196
UI_MANAGED_SERVER_LISTEN_PORT        : 8001
DEFAULT_BANK_CODE                    : 08
DEFAULT_TRANSACTION_BRANCH_CODE      : 089999
DEFAULT_TARGET_UNIT                  : OBP_BU
CARD_USERNAME                        : orakey
CARD_PASSWORD                        : welcome1
RULE_USERNAME                        : orakey
RULE_PASSWORD                        : welcome1
USER_TIMEZONE                        : +5:30
REMOTE_EXECUTION                     : Y
BAM_INSTALLATION                     : N
DB_SCHEMA_PASSWORD                   : welcome1
DB_IP                                : 10.180.87.84
DB_PORT                              : 1521
DB_SERVICE_NAME                      : P8784A
IPM_USERNAME                         : weblogic
IPM_PASSWORD                         : weblogic1
FTP_IPM_USERNAME                     : ofssobp
FTP_IPM_PASSWORD                     : ofssobp123
FTP_IPM_BATCH_USERNAME               : ofssobp
FTP_IPM_BATCH_PASSWORD               : ofssobp123
Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed.  Press any other key to exit the installation.
```

Figure 3–11 Starting Post Installation (contd)

```
Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed.  Press any other key to exit the installation.
y
Post-installation will begin in sometime...
The authenticity of host '10.180.6.143 (10.180.6.143)' can't be established.
RSA key fingerprint is 36:d8:2d:c8:3f:d1:c3:4e:cd:38:f7:19:48:be:33:8c.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.180.6.143' (RSA) to the list of known hosts.
ofssobp@10.180.6.143's password:
i18nAPI_v3.jar                                                                                100%  904KB 904.4KB/s   00:00
i18nAPI_v3.jar copied from BIP machine
ofssobp@10.180.6.143's password:
xdocore.jar                                                                                   100% 9060KB   8.9MB/s   00:00
xdocore.jar copied from BIP machine
ofssobp@10.180.6.143's password:
versioninfo.jar                                                                               100% 6204KB   6.1MB/s   00:00
versioninfo.jar copied from BIP machine
ofssobp@10.180.6.143's password:
imaging-client.jar                                                                            100%  863KB 863.3KB/s   00:00
imaging-client.jar copied from IPM machine
ofssobp@10.180.6.143's password:
oracle.ucm.ridc-11.1.1.jar                                                                    100%  619KB 618.9KB/s   00:00
oracle.ucm.ridc-11.1.1.jar copied from IPM machine
base_domain
*****************************************************
** Setting up SOA specific environment...
*****************************************************
EXTRA_JAVA_PROPERTIES= -da:org.apache.xmlbeans...
.
LD_LIBRARY_PATH=::/scratch/app/product/fmw/wlserver/server/native/linux/x86_64:/scratch/app/product/fmw/wlserver/server/native/linux/x86_64/oci920_8
.
.
*****************************************************
** End SOA specific environment setup
*****************************************************
Logging WLS stderr to /scratch/app/product/fmw/user_projects/domains/base_domain/servers/AdminServer/stderr.log
Verifying OBP_ORACLE_HOME /scratch/app/product/fmw/obpinstall/obp
Buildfile: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/replace.xml
```

Figure 3–12 Starting Post Installation (contd)

```
Buildfile: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/replace.xml

replace:
    [unzip] Expanding: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/Metadata_soa.zip into /scratch/app/product/fmw/obpinstall/obp/o
b.soa.process/metadata/metadata
    [unjar] Expanding: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/metadata/sharedResources.jar into /scratch/app/product/fmw/obpi
nstall/obp/ob.soa.process/metadata/metadata/sharedResources
   [delete] Deleting: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/metadata/sharedResources.jar
      [jar] Building jar: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/metadata/sharedResources.jar
      [zip] Building zip: /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/Metadata_updated.zip
   [delete] Deleting directory /scratch/app/product/fmw/obpinstall/obp/ob.soa.process/metadata/metadata

BUILD SUCCESSFUL
Total time: 10 seconds
Archive:  BPELRecoveryConfig.zip
  inflating: recoveryconfig.sh
  inflating: BPELRecoveryConfig.jar
50
Updating RecurringScheduleConfig.maxMessageRaiseSize from 50 to 0
Updating StartupScheduleConfig.maxMessageRaiseSize from 50 to 0
javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openmbean.CompositeType(name=RecurringScheduleConfig,items=((itemName=m
axMessageRaiseSize,itemType=javax.management.openmbean.SimpleType(name=java.lang.Integer)),(itemName=startWindowTime,itemType=javax.management.openmbe
an.SimpleType(name=java.lang.String)),(itemName=stopWindowTime,itemType=javax.management.openmbean.SimpleType(name=java.lang.String)),(itemName=subseq
uentTriggerDelay,itemType=javax.management.openmbean.SimpleType(name=java.lang.Long)),(itemName=threshHoldTimeInMinutes,itemType=javax.management.open
mbean.SimpleType(name=java.lang.Integer)))),contents={maxMessageRaiseSize=0, startWindowTime=00:00, stopWindowTime=23:59, subsequentTriggerDelay=300,
threshHoldTimeInMinutes=10})
null
null
javax.management.openmbean.CompositeDataSupport(compositeType=javax.management.openmbean.CompositeType(name=RecoveryConfig,items=((itemName=ClusterCon
fig,itemType=javax.management.openmbean.CompositeType(name=ClusterConfig,items=((itemName=clusterDbTimeRefresh,itemType=javax.management.openmbean.Sim
pleType(name=java.lang.Long)),(itemName=heartBeatInterval,itemType=javax.management.openmbean.SimpleType(name=java.lang.Long)),(itemName=masteAliveThr
eshold,itemType=javax.management.openmbean.SimpleType(name=java.lang.Long)),(itemName=nodeReapInterval,itemType=javax.management.openmbean.SimpleType(
name=java.lang.Long)),(itemName=nodeReapThreshold,itemType=javax.management.openmbean.SimpleType(name=java.lang.Long))))),(itemName=RecurringScheduleC
onfig,itemType=javax.management.openmbean.CompositeType(name=RecurringScheduleConfig,items=((itemName=maxMessageRaiseSize,itemType=javax.management.op
enmbean.SimpleType(name=java.lang.Integer)),(itemName=startWindowTime,itemType=javax.management.openmbean.SimpleType(name=java.lang.String)),(itemName
=stopWindowTime,itemType=javax.management.openmbean.SimpleType(name=java.lang.String)),(itemName=subsequentTriggerDelay,itemType=javax.management.open
mbean.SimpleType(name=java.lang.Long)),(itemName=threshHoldTimeInMinutes,itemType=javax.management.openmbean.SimpleType(name=java.lang.Integer))))),(i
temName=StartupScheduleConfig,itemType=javax.management.openmbean.CompositeType(name=StartupScheduleConfig,items=((itemName=maxMessageRaiseSize,itemTy
```

Figure 3–13 SOA Post Installation Completion

```
    [java]            </column>
    [java]            <operator>IN</operator>
    [java]            <valueList>
    [java]               <value>http://process.workflow.fc.ofss.com/PerformSettlement/PerformSettlementProcess</value>
    [java]                     <value>http://xmlns.oracle.com/process/com.ofss.fc.approval.SettlementInstructionSpi_ConfirmSkipSettleInstructions/
HT_SettlementInstructionSpi_ConfirmSkipSettleInstructions</value>
    [java]                     <value>http://xmlns.oracle.com/process/com.ofss.fc.approval.SettlementInstructionSpi_SubmitSettlementInstruction/HT
_SettlementInstructionSpi_SubmitSettlementInstruction</value>
    [java]                     <value>http://xmlns.oracle.com/process/com.ofss.fc.approval.SettlementPayoutSpi_DisburseFunds/HT_SettlementPayoutSp
i_DisburseFunds</value>
    [java]            </valueList>
    [java]         </clause>
    [java]      </predicate>
    [java]   </viewPredicate>
    [java]   <viewOrdering>
    [java]      <clause xmlns="http://xmlns.oracle.com/bpel/workflow/taskQuery">
    [java]         <column>createdDate</column>
    [java]         <sortOrder>ASCENDING</sortOrder>
    [java]         <nullFirst>false</nullFirst>
    [java]      </clause>
    [java]   </viewOrdering>
    [java]   <grantees>
    [java]      <grantee type="GROUP" grantType="SHARE_DEFINITION">
    [java]         <realm xmlns="http://xmlns.oracle.com/bpel/workflow/common">jazn.com</realm>
    [java]         <name xmlns="http://xmlns.oracle.com/bpel/workflow/common">Administrators</name>
    [java]      </grantee>
    [java]   </grantees>
    [java] </userViewDetail>
    [java]
    [java]
    [java]  [SUCCESS] :: createUserTaskView succeeded for viewName: Settled

BUILD SUCCESSFUL
Total time: 4 seconds
Certificate stored in file <mum00abp.in.oracle.com.cer>
Certificate was added to keystore
Certificate was added to keystore
[ofssobp@mum00abp fmw]$
```

6. For monitoring the script run, check the following log files created under the SOA domain directory:

   deploy-composite-SOA-WLST.log

   post-obp-SOA-WLST.log

   post-soa-GrantAndPolicySet-log.log

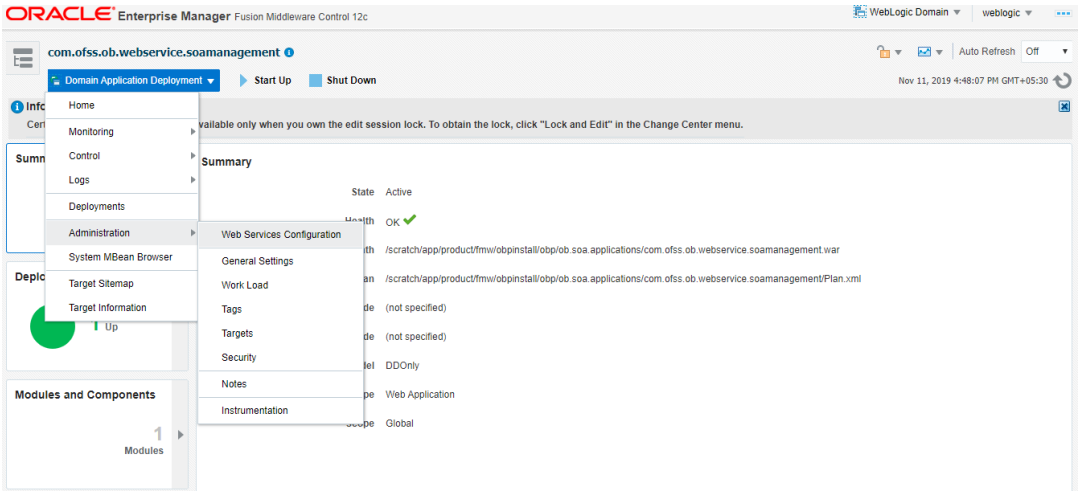
   post-soa-taskflow-grants.log

update-syncMaxTimeWait.log

obp-soa-install-log.txt

7. Restart SOA admin and SOA managed server and obphumantask server.
8. After completion of restart, attach the oracle/wss_saml_or_username_token_service_policy in com.ofss.ob.webservice.soamanagement.war. To attach the policy:
    a. Log in to SOA EM.
    b. Click Application Deployments > com.ofss.ob.webservice.soamanagement > Domain Application Deployment > Administration > Web Services Configuration.

Figure 3–14 Go to Web Services Configuration



    c. Click Resource Pattern and attach the policy oracle/wss_saml_or_username_token_service_policy for com.ofss.ob.webservice.soamanagement webservice.

Figure 3–15 Attach Policy

4 OBEO UK Localization Host Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Enterprise Originations UK Localization Host Media Pack. The subsequent section refers to the variable names specified in Section 2.4 Installation Checklist.

4.1 Installation and Configuration Procedure

This section details the installation procedure for the OBEO UK Localization Host Media Pack.

4.1.1 Preparatory Steps

This section lists the preparatory steps required for the OBEO UK Localization Host Media Pack installation.

Step 1 Procuring Installables

Download the appropriate host media pack from the following location:

http://edelivery.oracle.com/

Step 2 Extracting the Installables

Copy the 'obpuk-host.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the zip file. Below files will be extracted:

- The zip file:
  - 'obpinstall-host.zip'
  - 'Table_Partitioning.zip'
- The installation script:
  - 'installobphost.sh'
  - 'ossh.sh'
  - 'ossh.sh'
  - 'load-artifacts.sh'
- The install configuration property file 'installobphost.properties'
- dbScripts_uk.tar.gz

Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in Section 2.4 Installation Checklist of this guide and note the values applicable for each point in the last column for “Value” so that the same is handy during the actual installation.

4.1.2 Pre-Installation Steps

This section lists the pre-installation steps required for the OBEO UK Localization Host Media Pack installation. The procedure can be started after SOA pre-installation steps are executed.

Following are the domains for XD components of middleware. Domain for batchhost must be created first and then others (no sequence for others).

The following table lists the XD components.

Table 4–1 XD Components

Sr. No.	Name	Value	Description
1	XD_COMPONENT_NAME	batchhost	Value for batch host sever, Policy seeding and BIP reports upload will be done with this batch host server installation.
2	XD_COMPONENT_NAME	obepmhost	Value for OBEPM server (Product Manufacturing)
3	XD_COMPONENT_NAME	obeohost	Value for OBEO server (Origination)
4	XD_COMPONENT_NAME	obpmhost	Value for OBPM server (Party)
5	XD_COMPONENT_NAME	obeprhost	Value for OBPR server (Pricing)
6	XD_COMPONENT_NAME	obccmhost	Value for obccm server (LCM)

The following table shows examples of fmw dir name, domain name, server name, and memory parameters. Multiple domains can be created on a single VM according to memory parameters.

Table 4–2 Examples of FMW Dir Name, Domain Name, Server Name and Memory Parameters

XD Component Name	MW_HOME	Domain Name	Server Name or Cluster Name
batchhost	/scratch/app/product/fmw	host_ domain	obphost_ server1/obphost_ cluster1
obepmhost	/scratch/app/product/fmw_pm	obepm_ domain	obepm_ server1/obepm_ cluster1
obeohost	/scratch/app/product/fmw_or	obeo_ domain	obeo_server1/obeo_ cluster1
obpmhost	/scratch/app/product/fmw_party	obparty_ domain	obparty_ server1/obparty_ cluster1
obeprhost	/scratch/app/product/fmw_pr	obpr_ domain	obpr_server1/obpr_ cluster1
obccmhost	/scratch/app/product/fmw_occm	occm_ domain	occm_server1/occm_ cluster1

Memory Parameters

1. **Batchhost:**
    - Admin Server: USER_MEM_ARGS="-Xms2g -Xmx4g"

- Managed Server: USER_MEM_ARGS="-Xms8g -Xmx8g -XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75"

2. **Other XD HOST:**
   - Admin Server: USER_MEM_ARGS="-Xms512m -Xmx512m"
   - Managed Server: USER_MEM_ARGS="-Xms1g -Xmx3g -XX:+UseG1GC -XX:ParallelGCThreads=8 -XX:ConcGCThreads=2 -XX:+UseStringDeduplication"

Batchhost Installation Steps

Following are the pre-installation steps for batchhost XD component.

Step 1 Updating installobphost.properties

Navigate to the directory where the files obpinstall-host.zip, installobphost.sh and installobphost.properties are placed and update installobphost.properties with relevant values from the checklist.

Value for below properties should be 'Y' in installobphost.properties for batchhost installation. For other XD host, value should be 'N'.

- OID_FARM_AND_POLICY_SEEDING_FLAG
- BIP_REPORTS_UPLOADING_FLAG

Step 2 Checklist for a new setup

Before initiating installation on a completely new setup, check the following:

- Please make sure required RCU schemas have been created. For more information, see Section 7.1 Pre-Installation Steps and Section 7.2 OBEO Database Setup – RCU Installation.
- Node manager must not be running on the target machine.
- Create a dummy folder named as Target and mention its path against HOST_TARGET property.
- In case of re-installation ensure that the directory paths against DOMAIN_DIRECTORY_LOCATION, HOST_TARGET and HOST_MW_HOME specified in installobphost.properties are cleaned up for traces of any previous installations, as the remote shell copy may not be overwriting in case of any residual file left by the previous run.
- No processes should be running on the port in HOST machine given in installobphost.properties.
- Values in installobphost.properties must be correct. At run time no option is given to change them.
- No other schema should exist in db with the same prefix as HOST_DB_SCHEMA_PREFIX specified in installobphost.properties. OBP_HOST_DB_USER should be given on the basis of HOST_DB_SCHEMA_PREFIX.

  For example, if HOST_DB_SCHEMA_PREFIX is DEV, then OBP_HOST_DB_USER should be DEV_OBP.
- OID_DOMAIN_NAME in installobphost.properties should match with the OID_DOMAIN_NAME given in installobpui.properties. Any other domain with the same name must not exist in OID. The domain in OID will be created in host pre-install.
- OBP_HOST_DB_USER and BIP_DATASOURCE_NAME must be same in installobphost.properties.

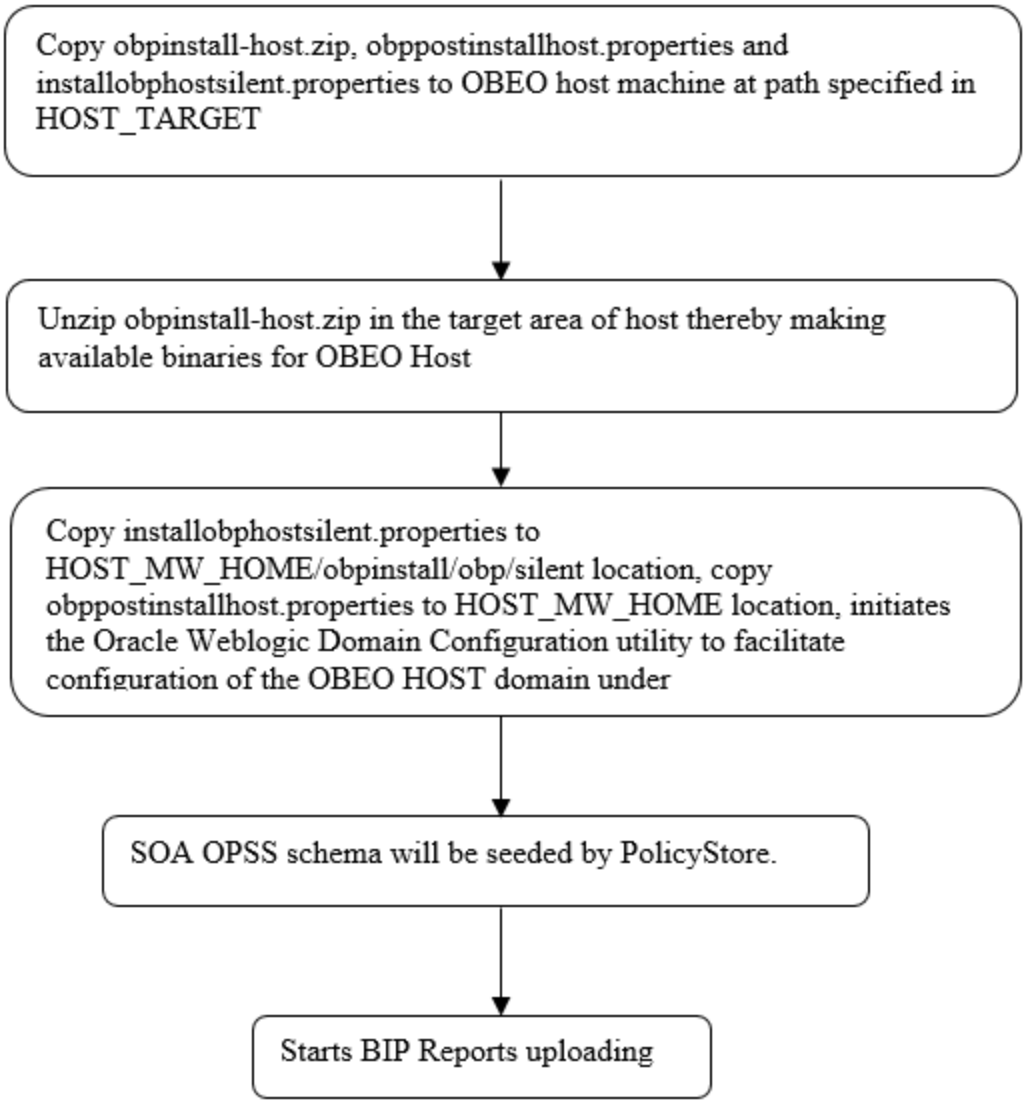
- The following schemas are manually created prior to installation and are available for updation in the checklist:
  - OBP_HOST_DB_USER (by RCU)
- MDS_HOST_DB_USER as updated in installobphost.properties and MDS_SCHEMA_USER as updated in installobpui.properties should point to the same MDS db schema.

4.1.3 Installation Steps

This section lists the installation steps required for the OBEO UK Localization Host Media Pack installation.

1. Navigate to the directory where the media pack files are placed and execute installobphost.sh. The installation script shall echo the values entered in the installobphost.properties file and ask for confirmation to go ahead with the installation.
2. The installation script automatically triggers the following significant steps using secure remote copy 'scp' command and remote shell commands execution using the 'ssh' command.

Figure 4–1 Steps in installobphost.sh script



A sample output is given here.

Figure 4–2 Verification of Properties

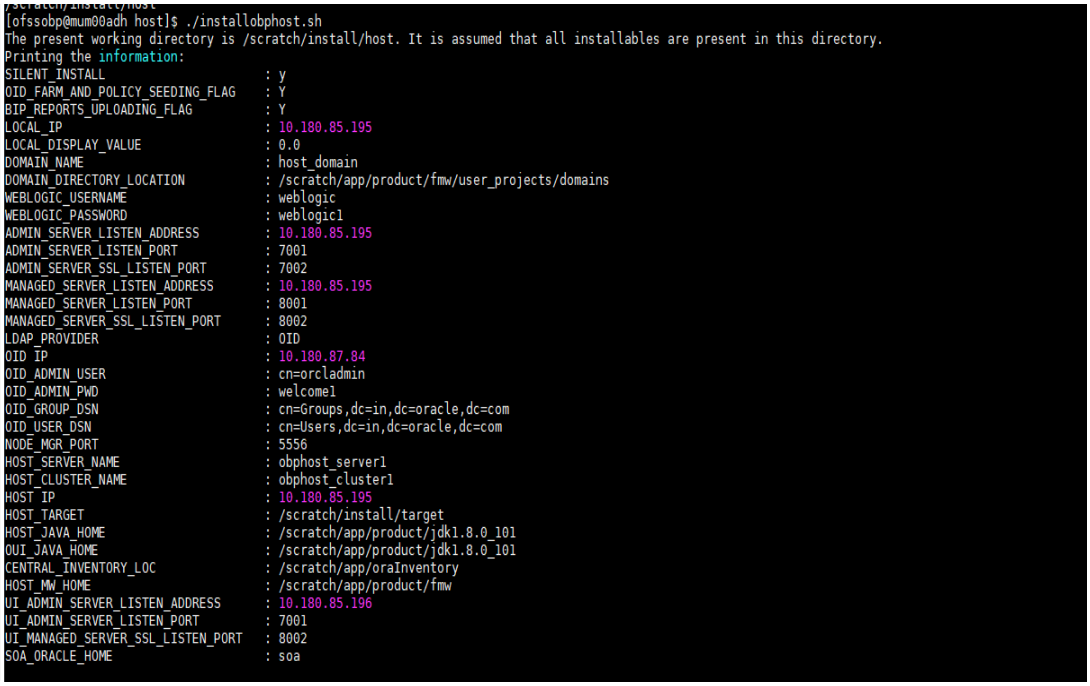


Figure 4–3 Verification of Properties (contd)

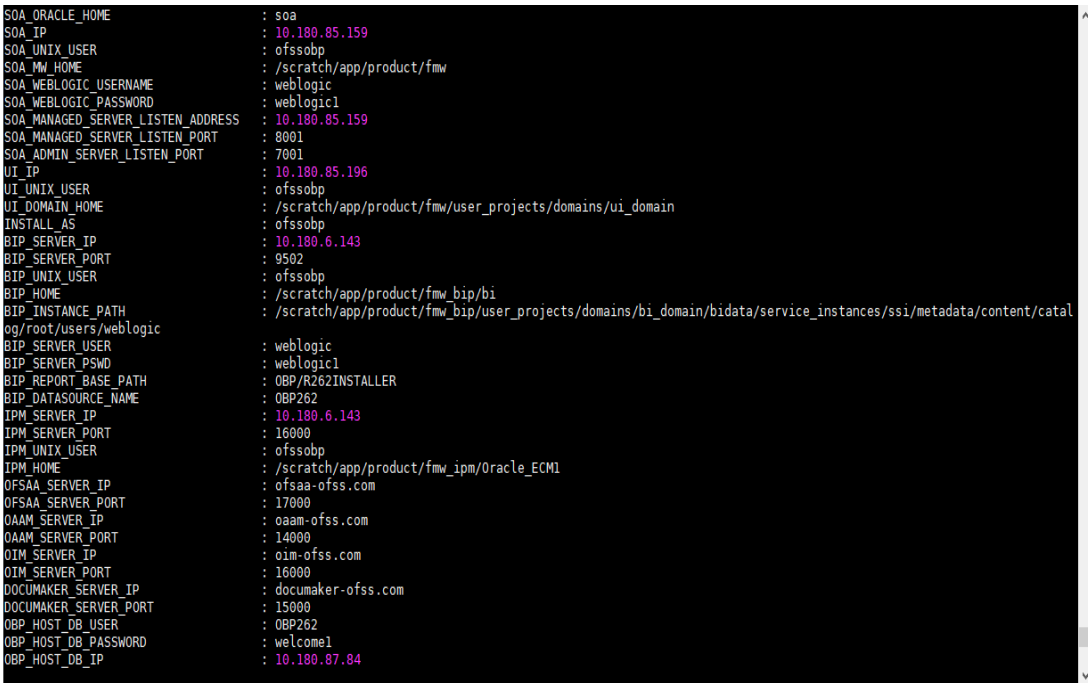


Figure 4–4 Verification of Properties (contd)

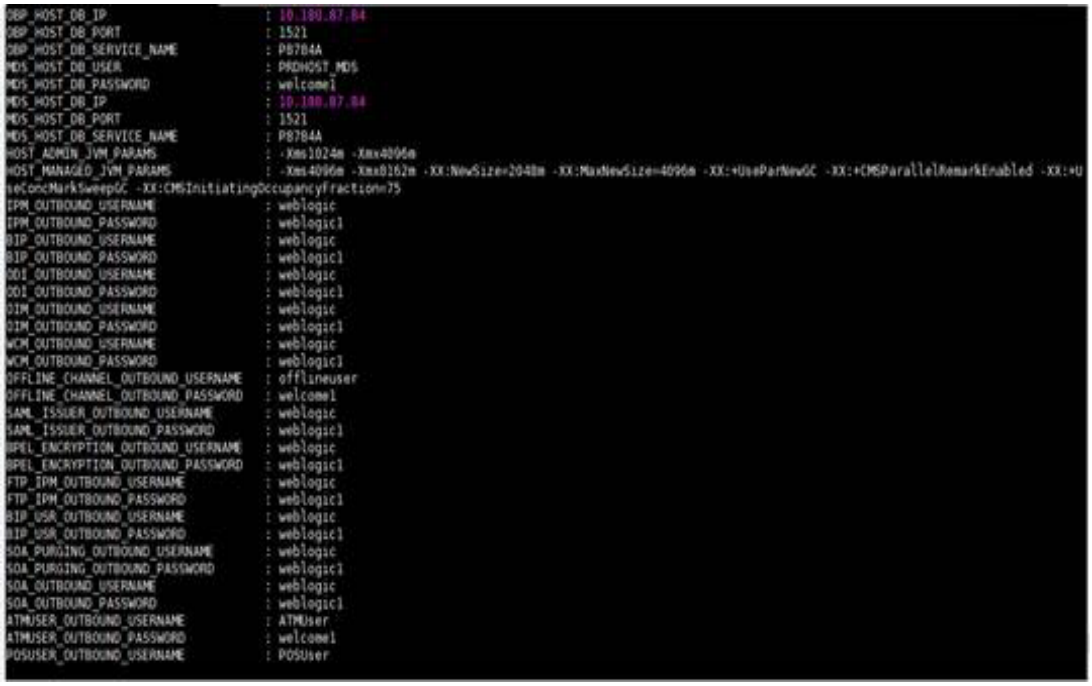
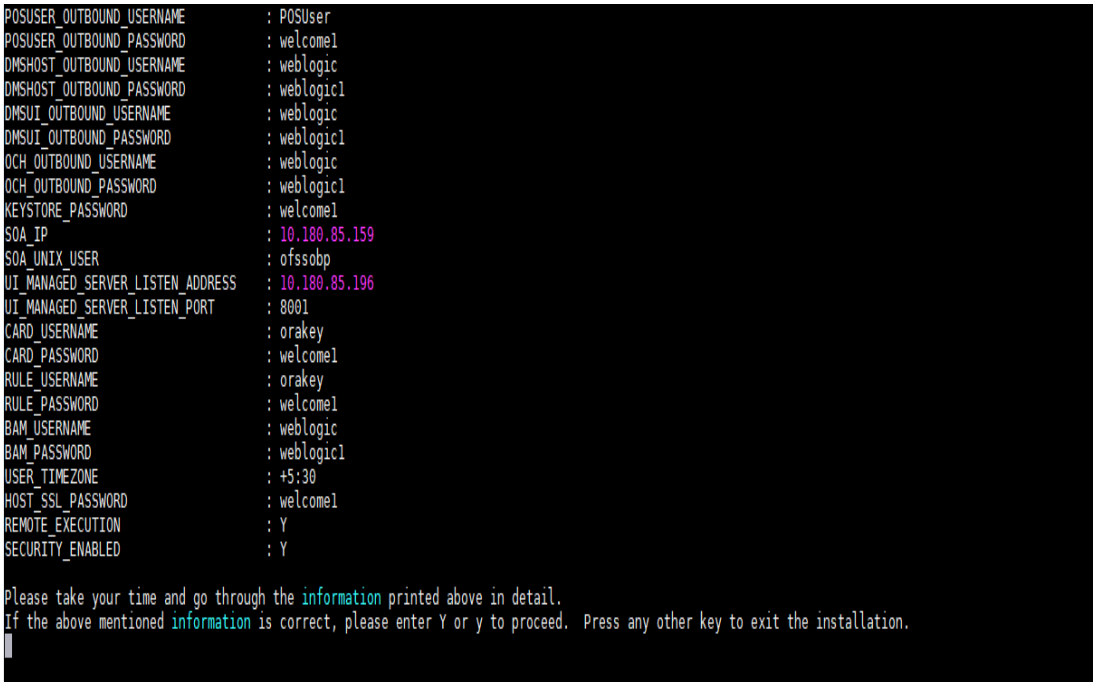


Figure 4–5 Verification of Properties (contd)



3. Verify the value of each property carefully before proceeding.
4. If all values are correct, then enter 'Y' or 'y' and press Enter to initiate the installation. The installation

utility performs the installation and domain is created silently.

Figure 4–6 Confirmation and Copying of Installables to Target Machine

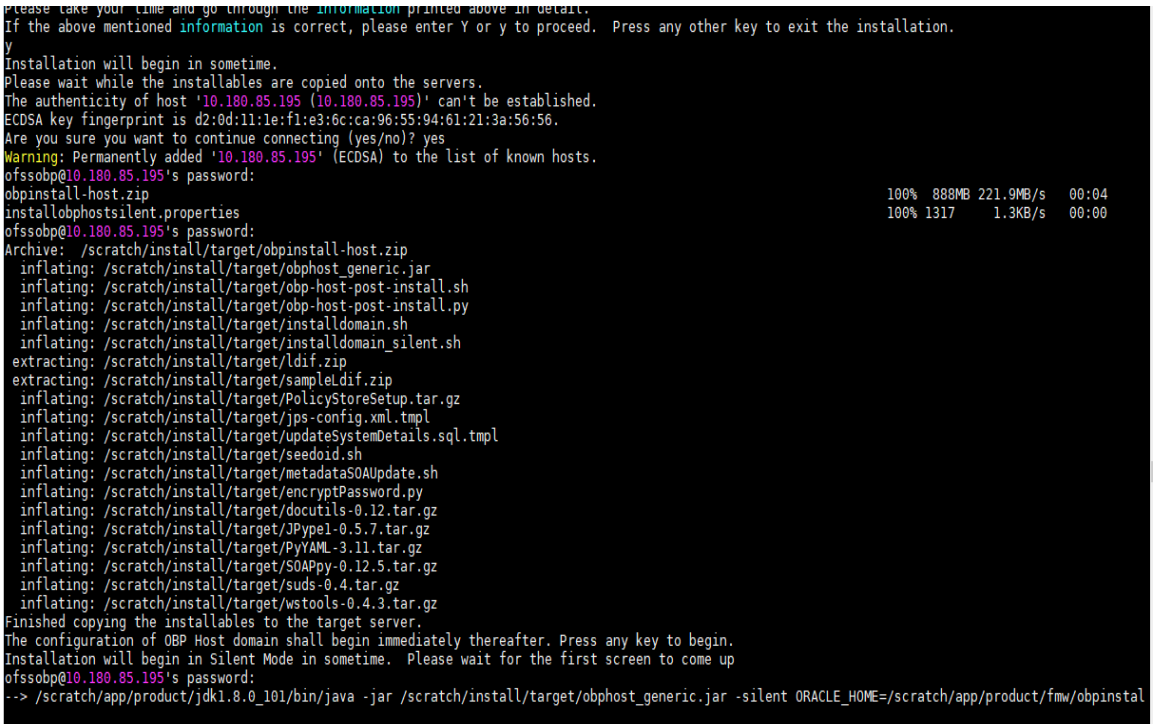


Figure 4–7 Confirmation and Copying of Installables to Target Machine (contd)

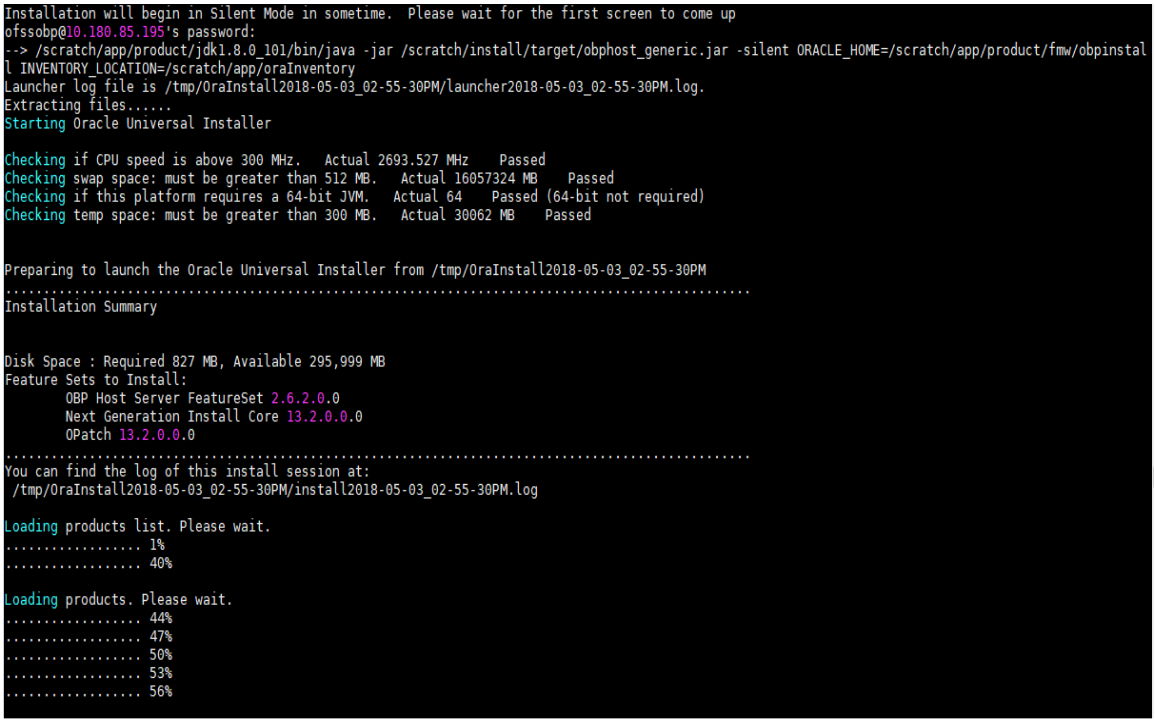
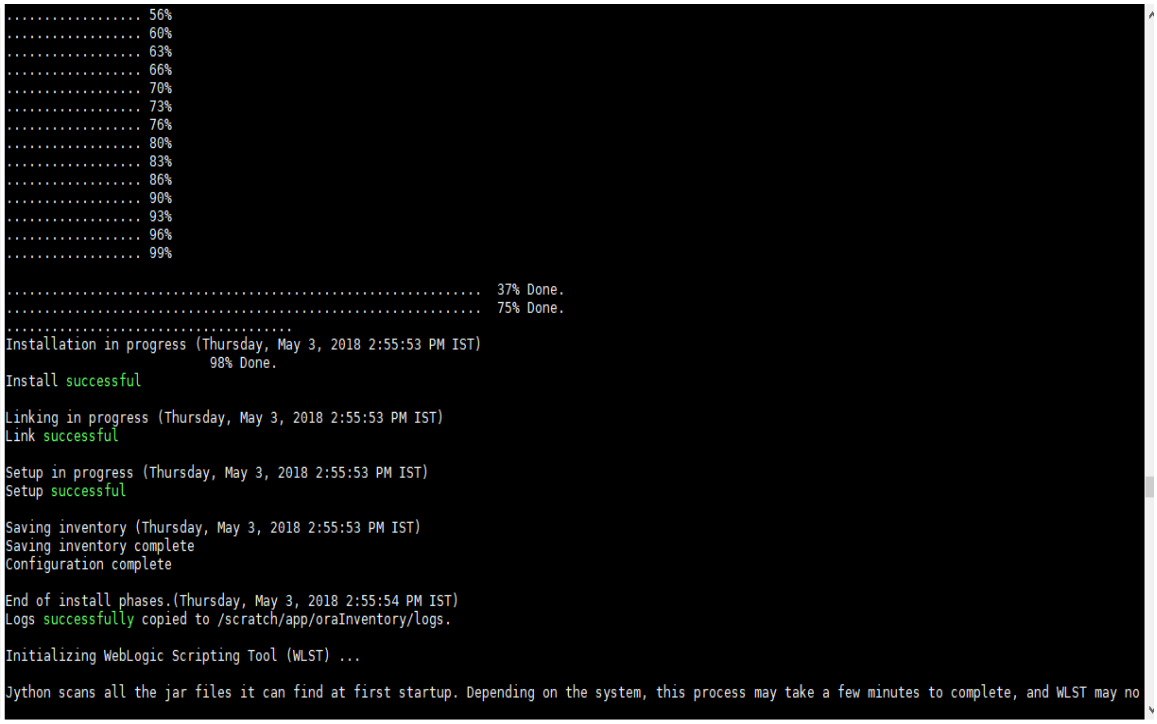
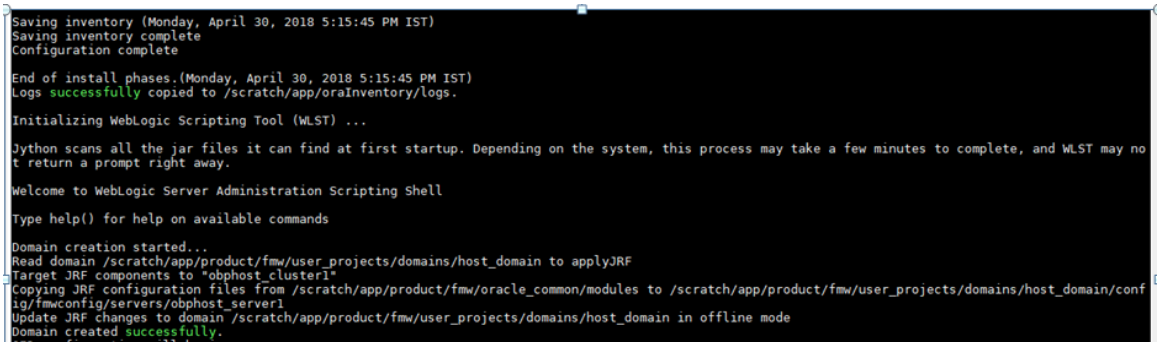


Figure 4–8 Confirmation and Copying of Installables to Target Machine (contd)



5. After copying, there is host DB schema creation and seeding. After extracting the installables, the domain gets installed and a confirmation message is shown.

Figure 4–9 Domain Installation Confirmation



6. After completion of domain installation, it will proceed to seeding.

Figure 4–10 Untar the policyStoreSetup and Copy on destination location

Figure 4–11 Untar the policyStoreSetup and Copy on destination location (contd)

```
adf-controller-security.jar                                   100% 2255     2.2KB/s   00:00
jps-ee.jar                                                    100%   79KB  78.5KB/s   00:00
ojdl.jar                                                      100%  332KB 332.4KB/s   00:00
org.openliberty.openaz.azapi_1.1.jar                          100%   52KB  52.2KB/s   00:00
identitystore.jar                                             100%  471KB 471.3KB/s   00:00
identitydirectory.jar                                         100%  270KB 270.0KB/s   00:00
javax.security.jacc.jar                                       100%   51KB  51.0KB/s   00:00
jps-audit.jar                                                 100%  892KB 891.6KB/s   00:00
adf-share-security.jar                                        100%   22KB  22.0KB/s   00:00
jps-sidm-api.jar                                              100% 4326     4.2KB/s   00:00
jps-common.jar                                                100% 1519KB   1.5MB/s   00:00
dms.jar                                                       100% 2253KB   2.2MB/s   00:00
jps-internal.jar                                              100% 6636KB   6.5MB/s   00:00
osdt_saml2.jar                                                100%  281KB 280.9KB/s   00:00
identityutils.jar                                             100%  211KB 210.8KB/s   00:00
javax.faces.jsf-api.jar                                       100%  355KB 355.3KB/s   00:00
eclipselink.jar                                               100% 8865KB   8.7MB/s   00:00
jps-az-common.jar                                             100%  407KB 407.0KB/s   00:00
fmw_audit.jar                                                 100% 1148     1.1KB/s   00:00
osdt_wss.jar                                                  100%  186KB 186.4KB/s   00:00
osdt_ws_sx.jar                                                100%  241KB 240.8KB/s   00:00
jps-az-management.jar                                         100%  314KB 314.4KB/s   00:00
oraclepki.jar                                                 100%  295KB 295.4KB/s   00:00
ojdbc6dms.jar                                                 100% 4325KB   4.2MB/s   00:00
UIComponentsDiagnosticHelper.sh                               100%  167     0.2KB/s   00:00
README_UPGRADE.txt                                            100% 5060     4.9KB/s   00:00
jps-config.xml(db)                                            100% 4324     4.2KB/s   00:00
jps-config.xml                                                100% 4331     4.2KB/s   00:00
refreshMatrixAuthPolicies.sh                                  100%   39     0.0KB/s   00:00
PolicyMigrator.sh                                             100%  170     0.2KB/s   00:00
Connection to 10.180.85.195 closed.
ofssobp@10.180.85.195's password:
ofssobp@10.180.85.195's password:
seedOIDDomain.sh                                              100% 1427     1.4KB/s   00:00
ofss-oid-silent-seedOIDDomain.py                              100% 5013     4.9KB/s   00:00
createDummyDomainAndStartSeedingOID.sh                        100%  828     0.8KB/s   00:00
oid-configure-silent.properties                               100%  352     0.3KB/s   00:00
ofss-oid-silent-createOIDDomain.py                            100% 2533     2.5KB/s   00:00
```

Figure 4–12 Untar the policyStoreSetup and Copy on destination location (contd)

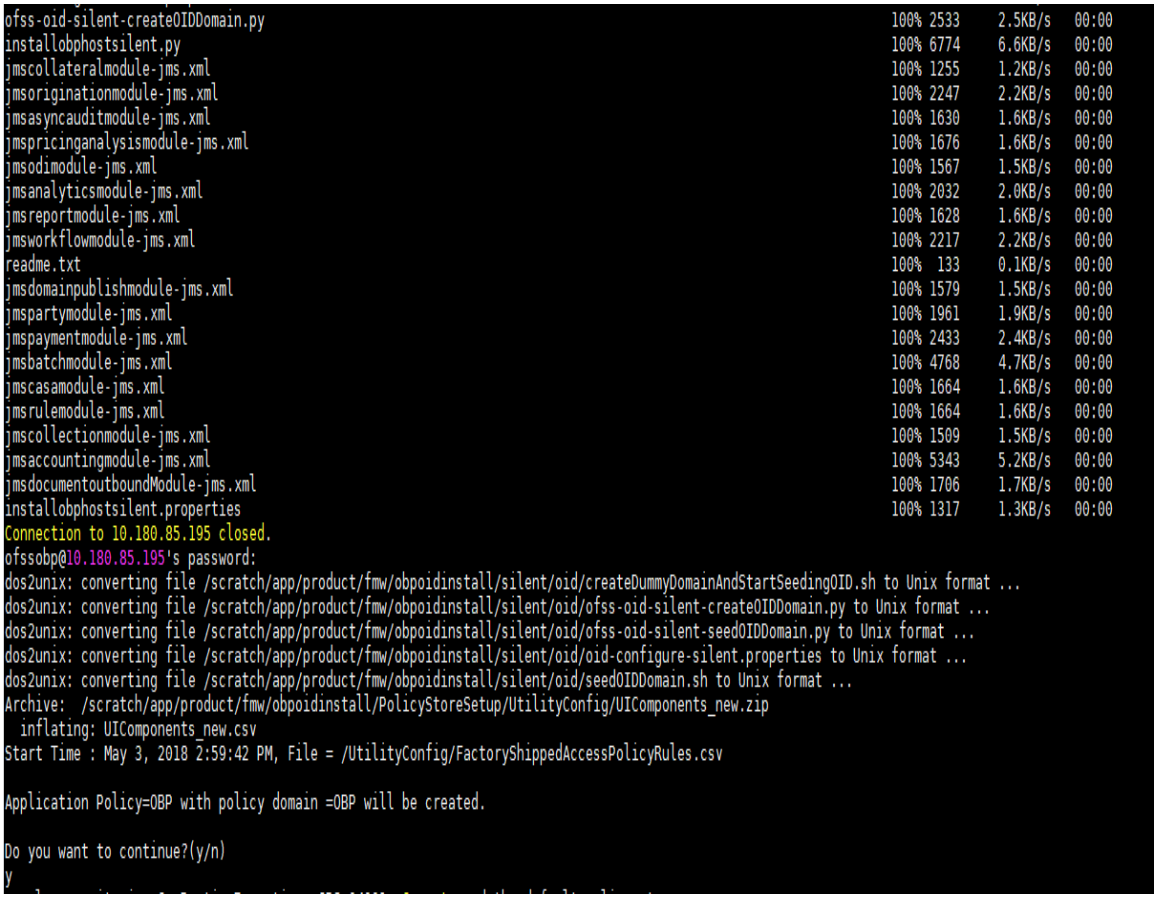


Figure 4–13 Policy Seeding

Figure 4–14 Policy Seeding (contd)

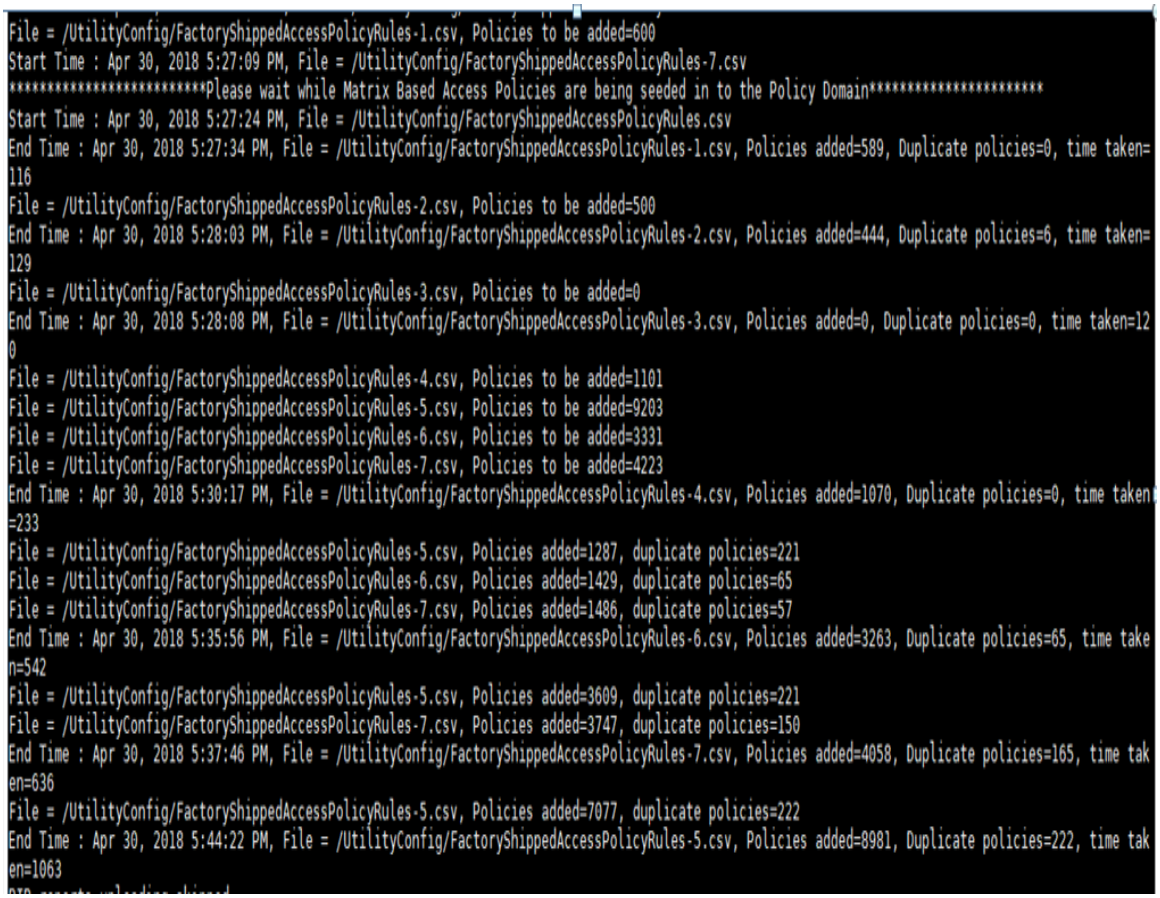


Figure 4–15 BIP Reports Upload

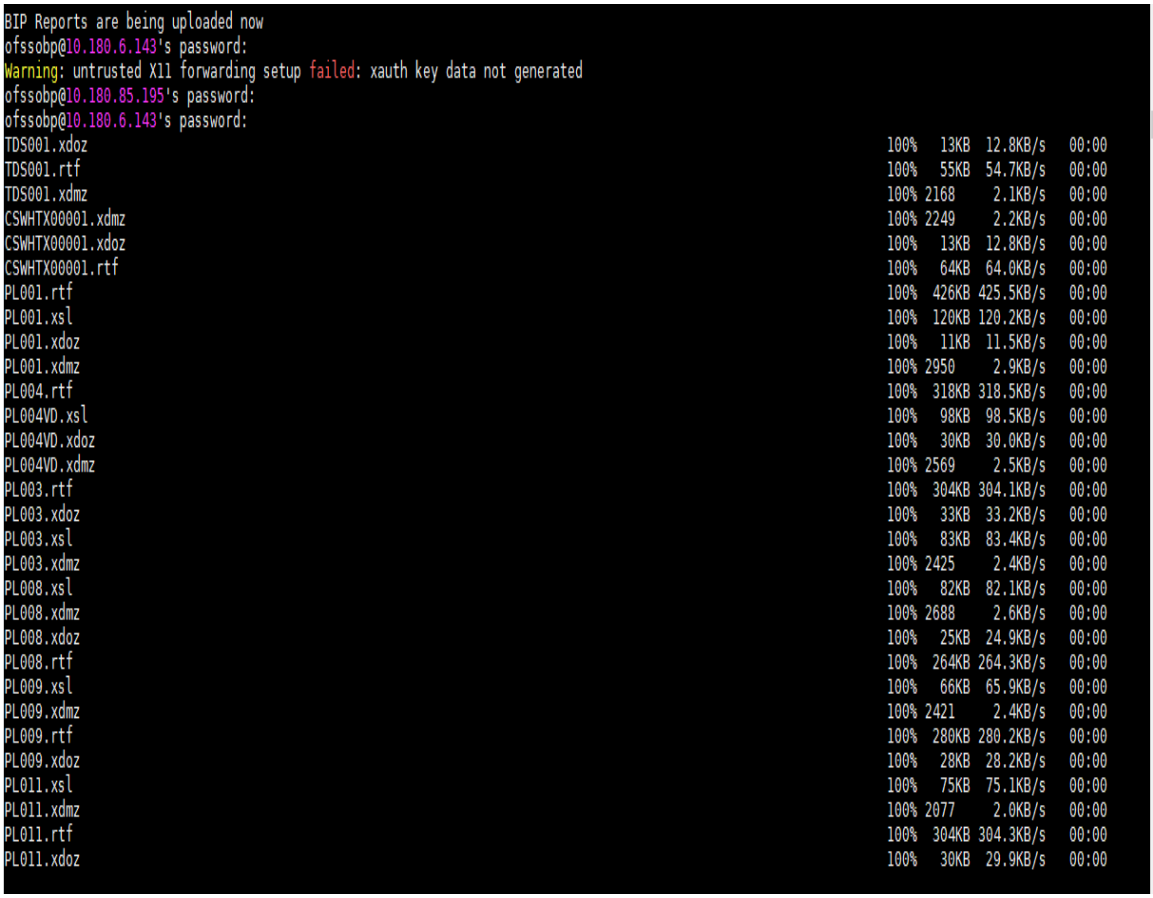


Figure 4–16 BIP Reports Upload (contd)

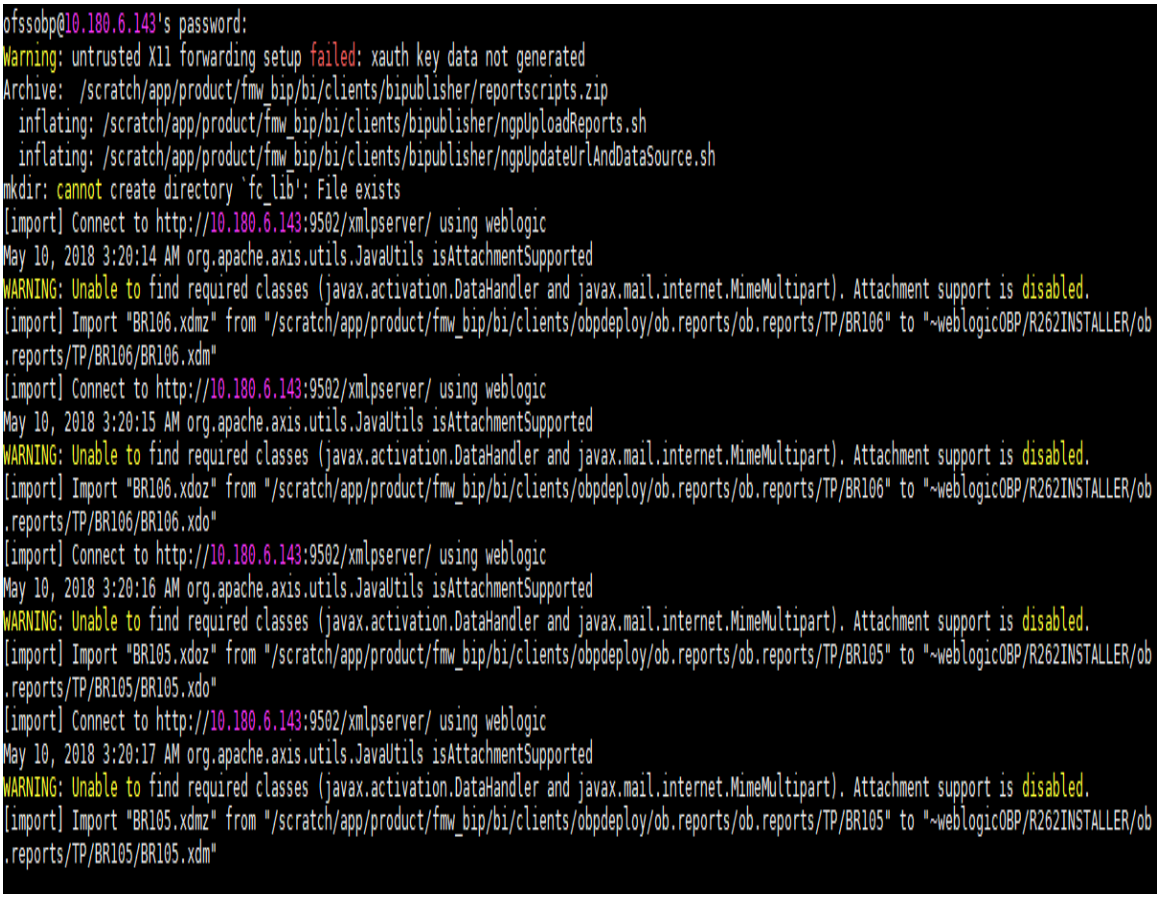
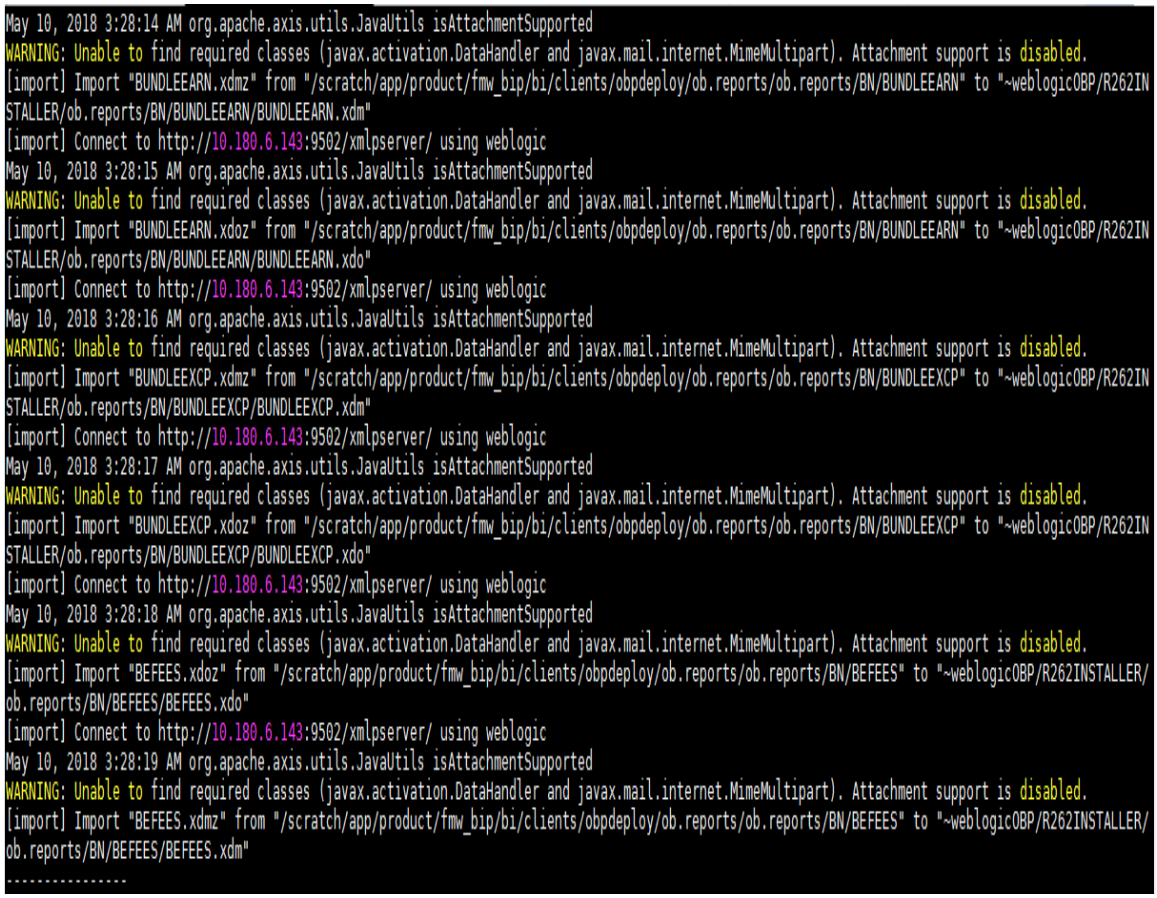


Figure 4–17 BIP Reports Upload (contd)



Similar to above, perform pre-installation for other XD components.

If you are creating multiple domains on same VM, then change fmw path, domain path, ports, node manager port and so on.

OID POLICY SEEDING and BIP Reports upload will be done only once during batchhost installation.

4.1.4 Front End Processing Interface (FEPI) Installation Steps

Following are the basic steps for FEPI installation procedure:

Step 1 Installation

The installer will create a directory structure for FEPI as /scratch/app/product/fmw/obpinstall/obp/fepi

1. Change the paths in FEPI start scripts based on the environment.
2. Modify Start_fepi_atm.sh and Start_fepi_pos.sh located at /scratch/app/product/fmw/obpinstall/obp/fepi/scripts.
3. Change the property values in channels_atm.properties and channels_pos.properties based on the environment as follows:

Table 4–3 Properties

Property	Description	Example
BANK_CODE	Indicates the bank code	BANK_CODE=335
LISTENER_PORT	The port number on which FEPI server accepts incoming ISO message requests	LISTENER_PORT=9999
COMMAND_PORT	The port number on which FEPI server accepts command message Note: Need to specify an available valid port number, so that FEPI starts; it is a feature of native code and currently no messages are sent.	COMMAND_PORT=9998
ISO_TRACE_FILE_AREA	The location for ATM Trace logs	ISO_TRACE_FILE_ AREA=/scratch/app/product/fmw/obpinstall /obp/fepi/logs/ATMTRACE
FNDI.FJ.java.naming.provider.url	The IP address and port number on which WebLogic accepts requests	FNDI.FJ.java.naming.provider.url =t3://10.180.9.108:7001

4. Start ATM and POS FEPI.
5. On prompt enter WebLogic login credentials. For example, $ sh start_fepi_atm.sh.

Step 2 ATM and POS Trace logs

The Trace logs are available in the logs folder. For example, the trace logs can be located at /oracle/deployables/iut2/fepi/logs.

Additionally, fepi-console and fepi-ofss logs are also stored at the above location for ATM and POS FEPI server.

Step 3 module.channel or cz.module.channel enabling of logs

This is not related to FEPI, and these logs (host logs) are controlled by logging.xml of the WebLogic server.

Step 4 Multiple Instances

Currently, there are two instances of FEPI which are ATM and POS. Each instance has the following set of individual files along with the common shared files. For example, for the ATM FEPI server, the files are as follows:

Table 4–4 Examples of files

File Name	Description
channels_atm.properties	Configuration file
fepi_atm.logging.xml	Logging configuration file
start_fepi_atm.sh	Start script
stop_fepi_atm.sh	Stop script

4.2 Post Installation Configuration

This section describes the post installation configuration procedure for OBEO UK Localization Host Media Pack. The procedure can be started after SOA pre-installation and standalone database setup steps are executed.

Checklist for Post Installation Procedure

Before proceeding with the post installation procedure for the host, ensure the following:

- Node manager is not running and no other process is running on NODE_MGR_PORT.
- Host db schema creating and seeding has been done.

  For more information , see Section 7.3.3 HOST DB Schema Seeding and Section 7.3.4 System Configuration DB Update Script Execution.
- The node manager port should be free. You can verify this using the following command, where 5556 is the Node Manager Port.

  ```
  $netstat -na | grep 5556
  ```

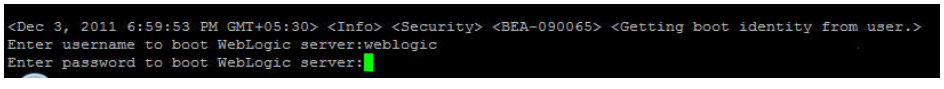
Post Installation Configuration

1. Start the domain admin WebLogic server by executing the startWebLogic.sh script in the host domain directory.

   ```
   cd <middleware home>
   cd user_projects/domains/obphostdomain/bin
   ./startWebLogic.sh
   ```

2. Enter the username and password to ensure that the WebLogic server starts.

   Figure 4–18 Host Domain Admin Server Credentials

3. Once the server status changes to RUNNING, proceed to execute the post installation script for Host

domain located under middleware. This script performs a multitude of configurations such as:

- Making changes in OBEO config properties to point to the appropriate integration server (Example: Setting the BIP server URL)
- Setting the security realm properties of WebLogic domain and reassociating the same to the OID
- Trust configuration setup using the trust keys copied from the SOA domain

> **Note**
>
> Ensure that Oracle IPM application is running as during post install of OBEO host. There is a call to the same for creating OBEO content applications.

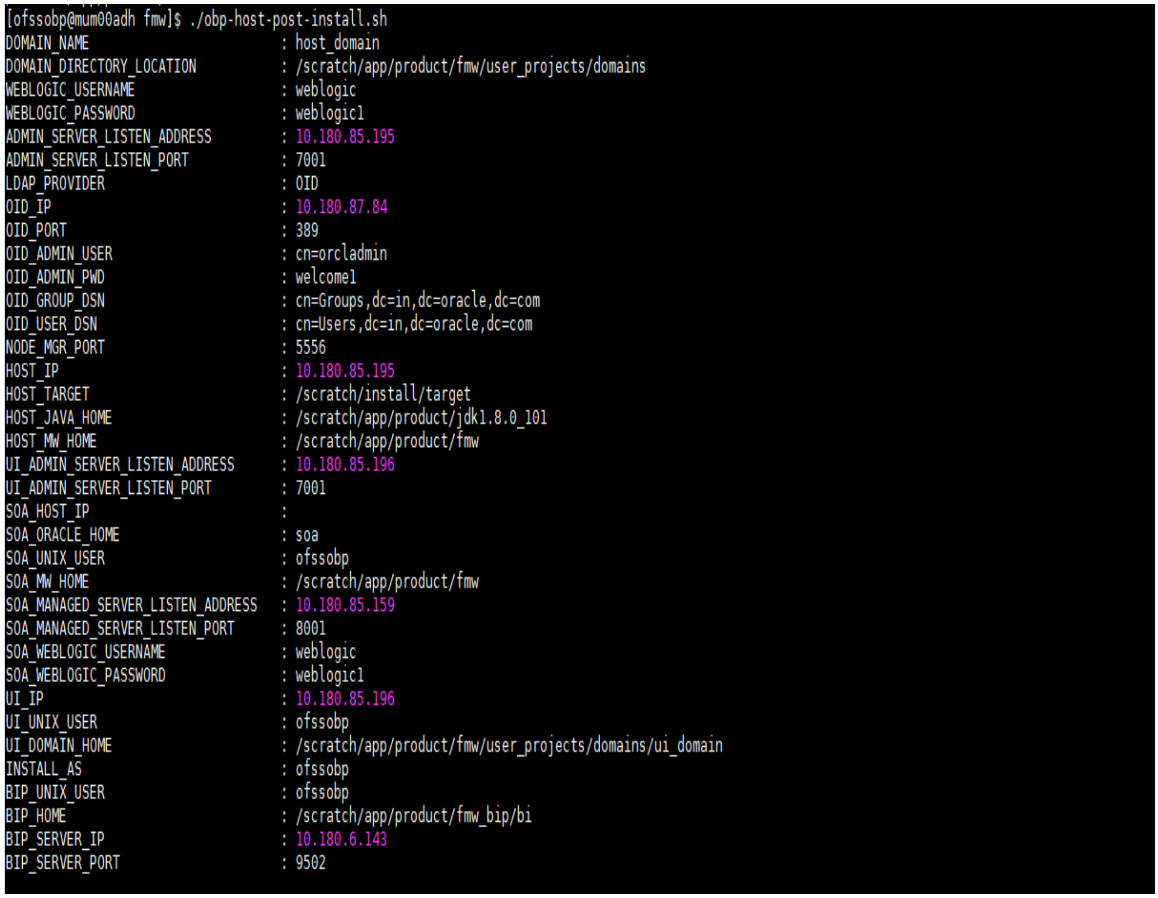
4. Navigate to the middleware home and list the files in the directory. A post installation and configuration script named obp-host-post-install.sh will be listed along with other files and directories.
5. Execute the script using the following command:

   ```
   ./obp-host-post-install.sh
   ```

6. For monitoring the script run, check the following log files created under the UI domain directory:
   - obp-host-install-log.txt
   - obp-host-install-log-py.txt

> **Note**
>
> The output shown here is a sample output and may vary slightly from the original output.

Figure 4–19 Host Domain Post Installation Script Execution



```
[ofssobp@mum00adh fmw]$ ./obp-host-post-install.sh
DOMAIN_NAME                     : host_domain
DOMAIN_DIRECTORY_LOCATION       : /scratch/app/product/fmw/user_projects/domains
WEBLOGIC_USERNAME               : weblogic
WEBLOGIC_PASSWORD               : weblogic1
ADMIN_SERVER_LISTEN_ADDRESS     : 10.180.85.195
ADMIN_SERVER_LISTEN_PORT        : 7001
LDAP_PROVIDER                   : OID
OID_IP                          : 10.180.87.84
OID_PORT                        : 389
OID_ADMIN_USER                  : cn=orcladmin
OID_ADMIN_PWD                   : welcome1
OID_GROUP_DSN                   : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN                    : cn=Users,dc=in,dc=oracle,dc=com
NODE_MGR_PORT                   : 5556
HOST_IP                         : 10.180.85.195
HOST_TARGET                     : /scratch/install/target
HOST_JAVA_HOME                  : /scratch/app/product/jdk1.8.0_101
HOST_MW_HOME                    : /scratch/app/product/fmw
UI_ADMIN_SERVER_LISTEN_ADDRESS  : 10.180.85.196
UI_ADMIN_SERVER_LISTEN_PORT     : 7001
SOA_HOST_IP                     :
SOA_ORACLE_HOME                 : soa
SOA_UNIX_USER                   : ofssobp
SOA_MW_HOME                     : /scratch/app/product/fmw
SOA_MANAGED_SERVER_LISTEN_ADDRESS  : 10.180.85.159
SOA_MANAGED_SERVER_LISTEN_PORT  : 8001
SOA_WEBLOGIC_USERNAME           : weblogic
SOA_WEBLOGIC_PASSWORD           : weblogic1
UI_IP                           : 10.180.85.196
UI_UNIX_USER                    : ofssobp
UI_DOMAIN_HOME                  : /scratch/app/product/fmw/user_projects/domains/ui_domain
INSTALL_AS                      : ofssobp
BIP_UNIX_USER                   : ofssobp
BIP_HOME                        : /scratch/app/product/fmw_bip/bi
BIP_SERVER_IP                   : 10.180.6.143
BIP_SERVER_PORT                 : 9502
```

Figure 4–20 Host Domain Post Installation Script Execution (contd)

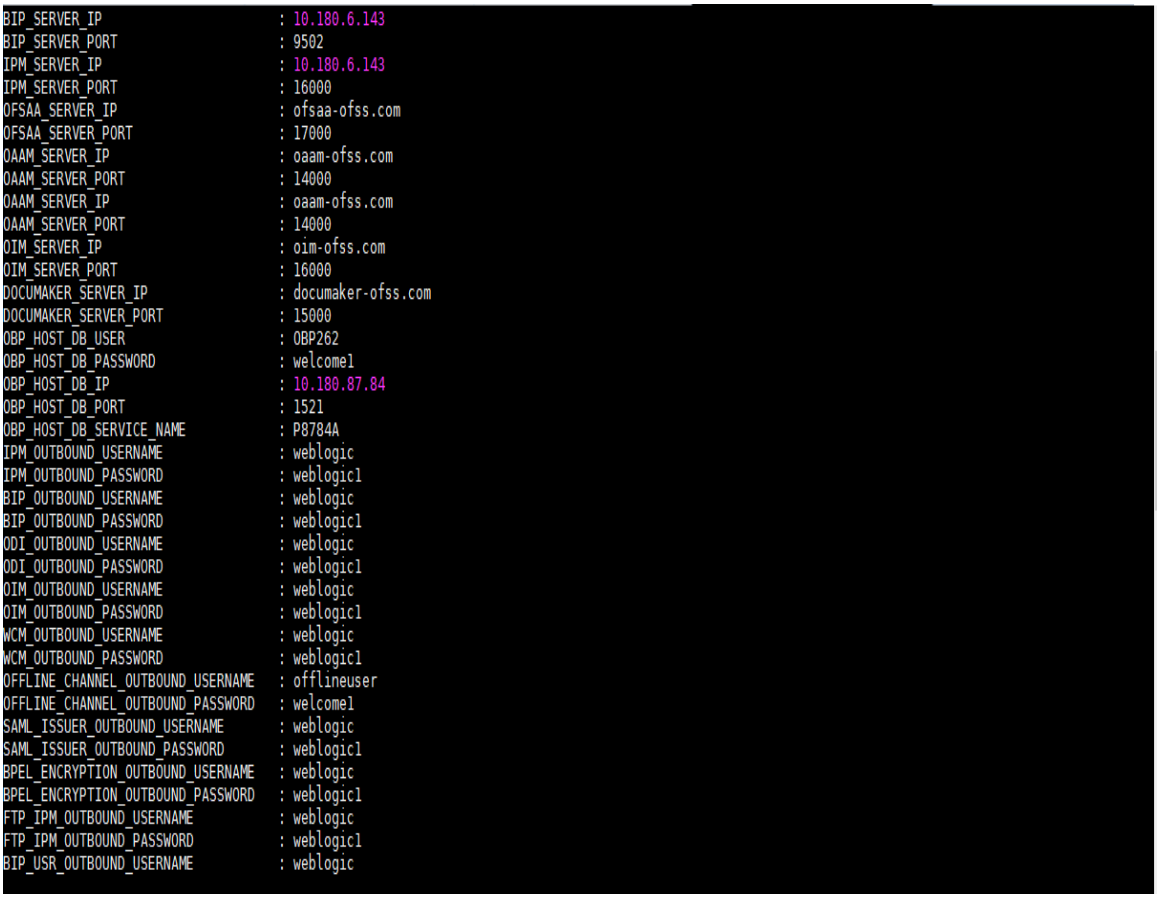


Figure 4–21 Host Domain Post Installation Script Execution (contd)

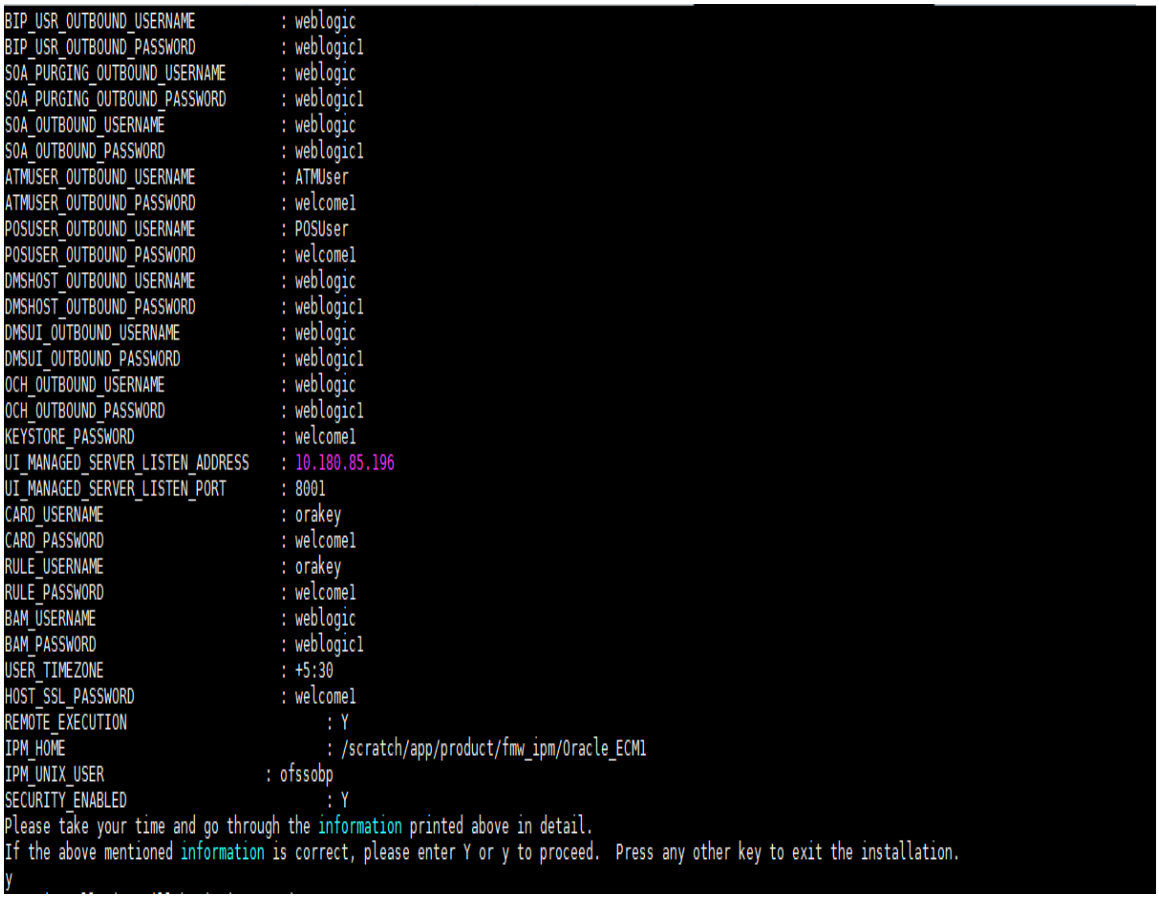


Figure 4–22 Host Domain Post Installation Script Execution (contd)

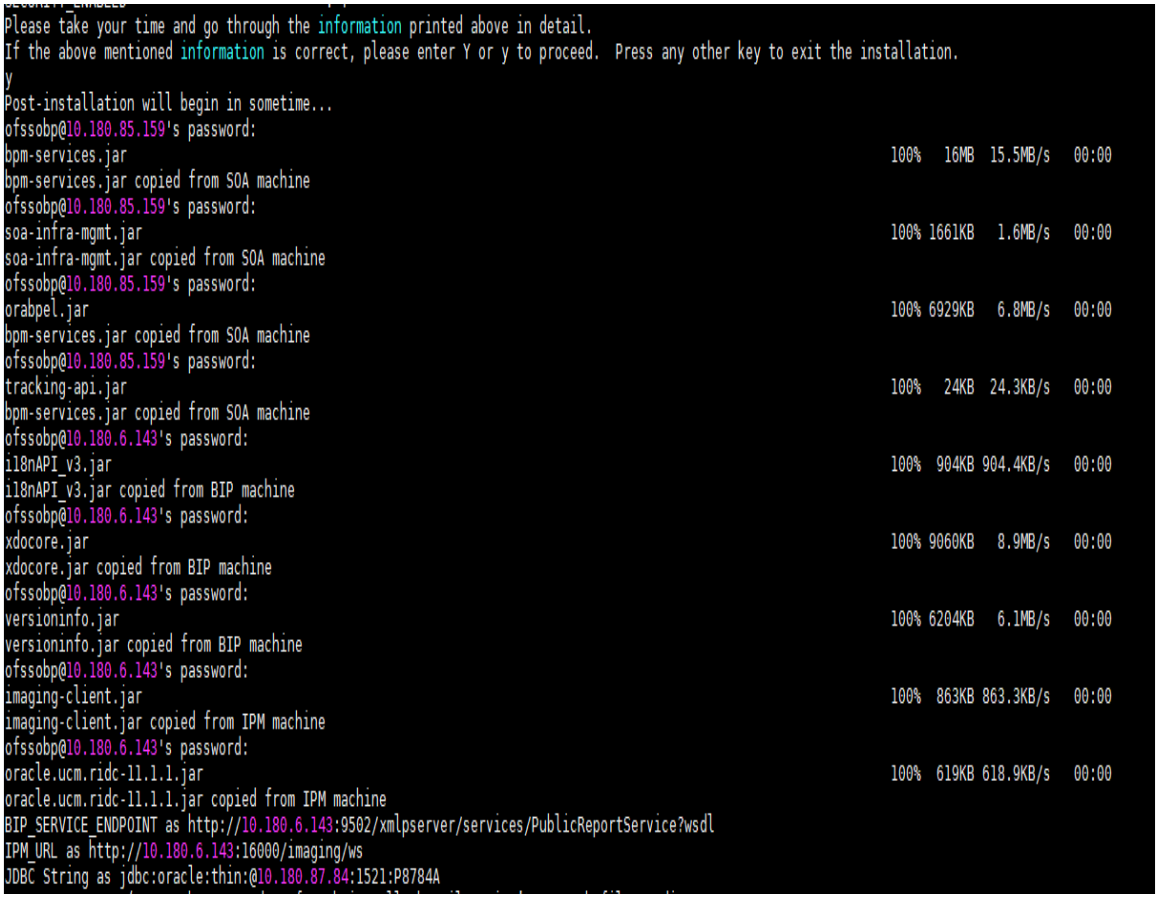
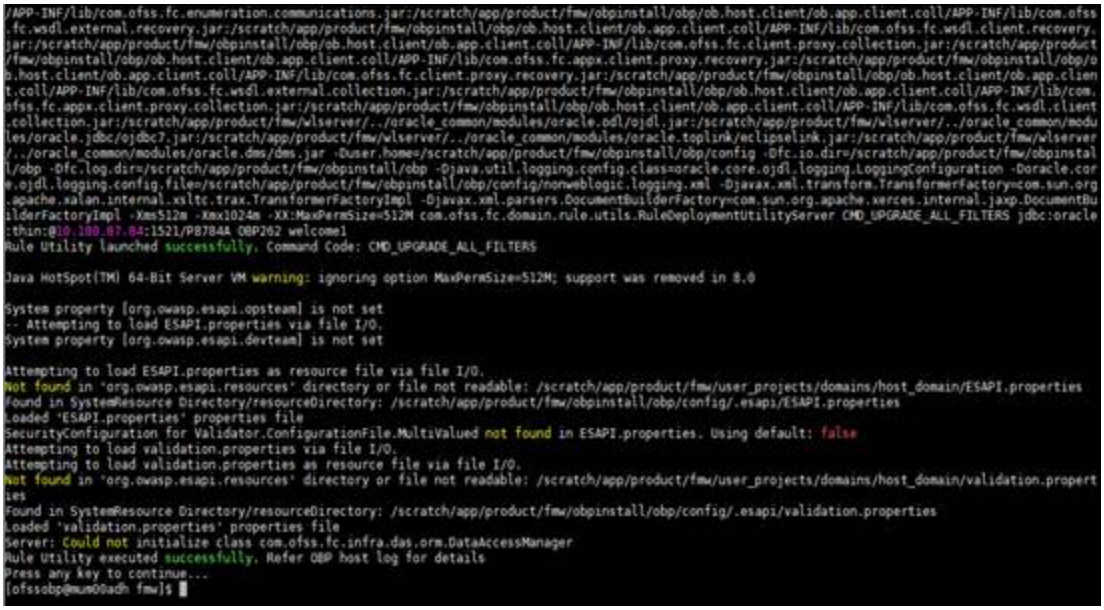


Figure 4–23 Host Domain Post Installation Script Execution Summary



7. After completion of the host post installation, it will return to the command prompt.
8. Finally inside logging.xml file for managed servers,

   for example: /scratch/app/product/fmw/user_projects/domains/host_ domain/config/fmwconfig/servers/obphost_server1/logging.xml

   within the following xml tag:

   <logging_configuration> <log_handlers> </log_handlers></logging_configuration>

   add:

   ```
   <log_handler name='el-handler' level='TRACE:32'
   class='oracle.core.ojdl.logging.ODLHandlerFactory'>
   <property name='path' value='${fc.log.dir}/logs/eclipselink.log' />
   <property name='maxFileSize' value='10485760' />
   <property name='maxLogSize' value='104857600' />
   <property name='encoding' value='UTF-8' />
   <property name='useThreadName' value='true' />
   <property name='supplementalAttributes'
   value='J2EE_APP.name,J2EE_MODULE.name,WEBSERVICE.name,WEBSERVICE_
   PORT.name,composite_instance_id,component_instance_id,composite_
   name,component_name' />
   </log_handler>
   ```

9. Within the following xml tag:

<logging_configuration><loggers></loggers></logging_configuration>

add:

```
<logger name='org.eclipse.persistence' level='TRACE:32'
useParentHandlers='false'>
<handler name='el-handler' />
</logger>
<logger name='javax.persistence' level='TRACE:32'
useParentHandlers='false'>
<handler name='el-handler' />
</logger>
```

10. Then start the admin and managed servers after verifying details as mentioned in Section 4.3 REST (SWAGGER) Deployment Check to check the domain configuration status as described in verification part in Section 13.2 Host Domain Verification.

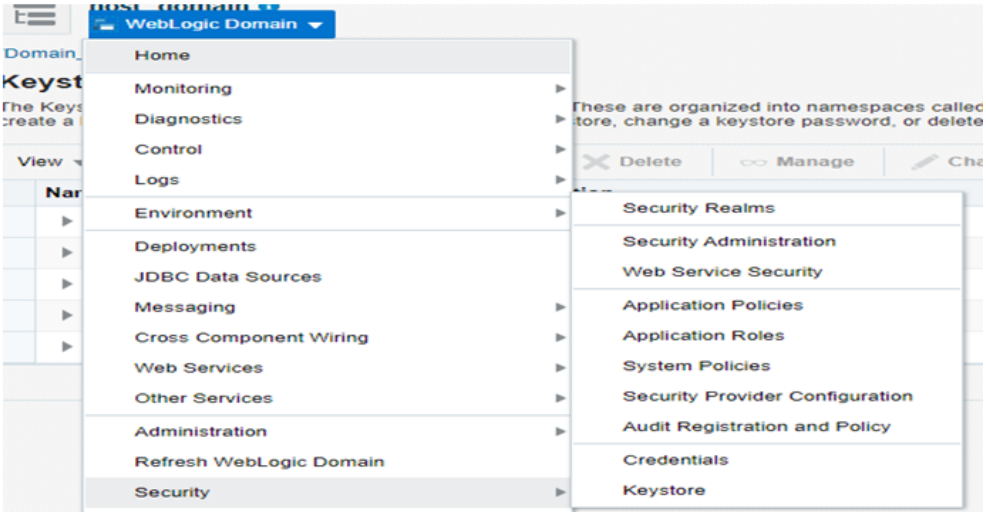
Similar to the above batchhost post installation, perform post installation for other XD components.

4.3 REST (SWAGGER) Deployment Check

This section lists the steps to check REST API deployment. REST API deployment has already been done in Section 4.2 Post Installation Configuration. Verify the following points that are part of batchhost installation:

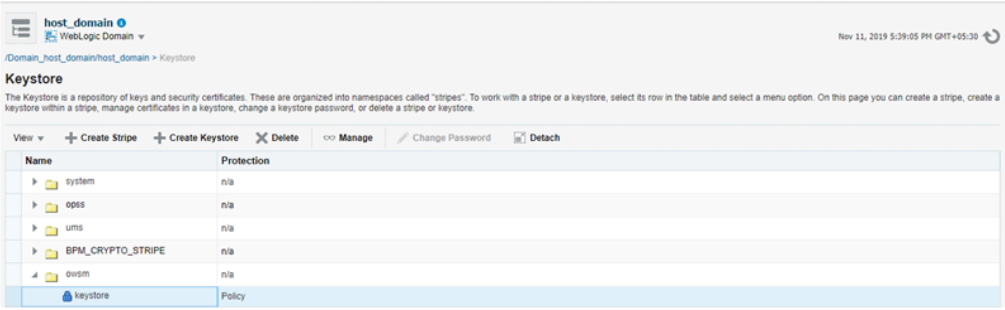
1. OWSM keystore creation on HOST EM: It is a part of host post installation. Verify if OWSM is present on HOST EM console. If not, then create it.
    a. Log in to HOST EM and click weblogin domain > security > keystore.

Figure 4–24 Navigate to Keystore



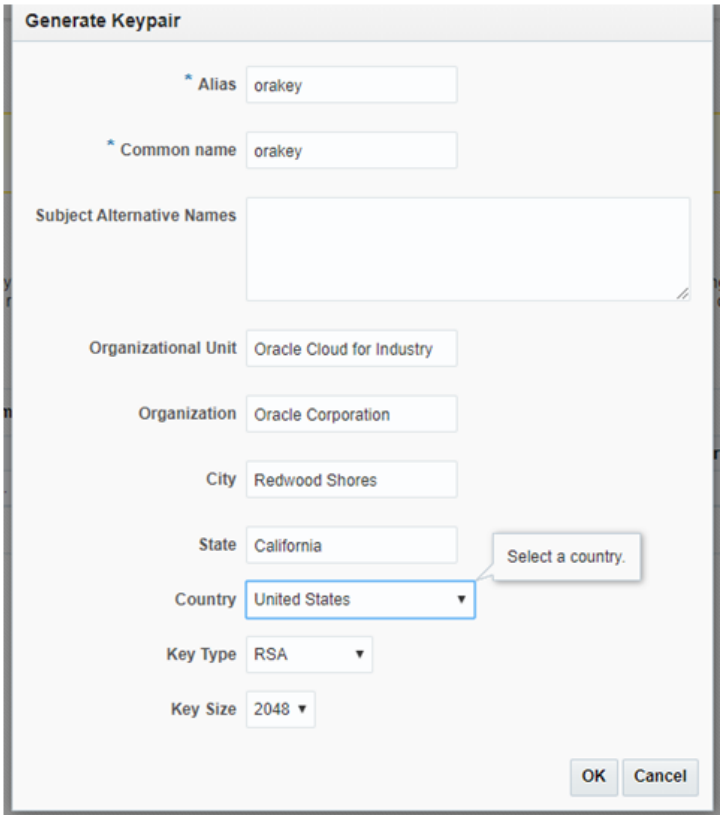
    b. Create Stripe 'OWSM'.
    c. Create KeyStore 'keystore' under OWSM.

Figure 4–25 Create Keystore



d. Click Manage and generate Keypair using the following values:
Alias: orakey
Common name: orakey
Organizational Unit: Oracle Cloud for Industry
Organization: Oracle Corporation
City: Redwood Shores
State: California
Country: United States

Figure 4–26 Generate Keypair



2. jax-rs library deployment on host console.

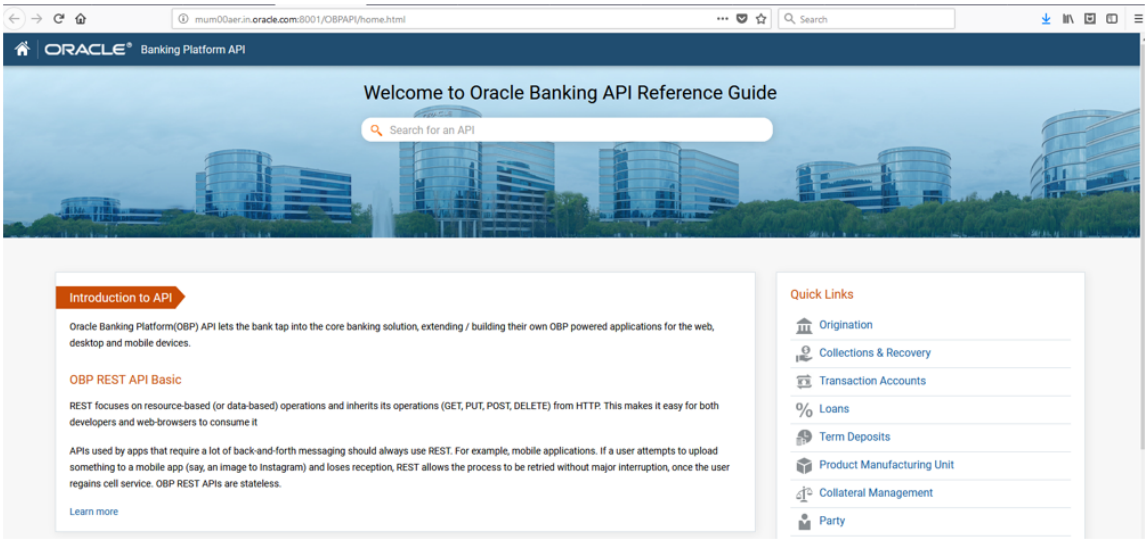
3. Host IP with port will be present in json/yaml files under $MW_HOME/obpinstall/obp/OBPAPI/yaml.
4. OBPAPI folder present under $MW_HOME/obpinstall/obp and it gets deployed as a war on host.

Figure 4–27 OBPAPI deploy on obphost_cluster1

5. After completion of the above steps, restart the HOST managed server to reflect the changes.

   http://$HOSTIP:$HOSTPORT/OBPAPI/home.html

Figure 4–28 REST API



Note:

- RestServices ear should be deployed on different weblogic domain for consumption by external clients.
- Current deployment will cater to OJET UI.

5 OBEO UK Localization Presentation Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Enterprise Originations UK Localization Presentation (UI) Media Pack. The subsequent section refers to the variable names specified in Section 2.4 Installation Checklist.

5.1 Installation and Configuration Procedure

This section details the installation procedure for the Oracle Banking Enterprise Originations UK Localization Presentation Media Pack.

5.1.1 Preparatory Steps

This section lists the preparatory steps required for the Oracle Banking Enterprise Originations UK Localization Presentation Media Pack installation.

Step 1 Procuring Installables

Download the appropriate presentation media pack from the following location:

http://edelivery.oracle.com/

Step 2 Extracting the Installables

Copy the 'obpuk-ui-soa.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the zip file. Three files will be extracted:

- A zip file 'obpinstall-ui-soa.zip'
- The installation script 'installobpui.sh'
- The install configuration property file 'installobpui.properties'

Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in Section 2.4 Installation Checklist of this guide and note the values applicable for each point in the last column for 'Value' so that the same is handy during the actual installation.

5.1.2 Pre-Installation Steps

This section lists the pre-installation steps required for the Oracle Banking Enterprise Originations UK Localization Presentation Media Pack installation. The procedure can be started after SOA pre-installation steps are executed.

Step 1 Updating installobpui.properties

Navigate to the directory where the files obpinstall-ui-soa.zip, installobpui.sh and installobpui.properties are placed and update installobpui.properties with relevant values from the checklist.

Step 2 Checklist for a new setup

Before initiating installation on a completely new setup, check the following:

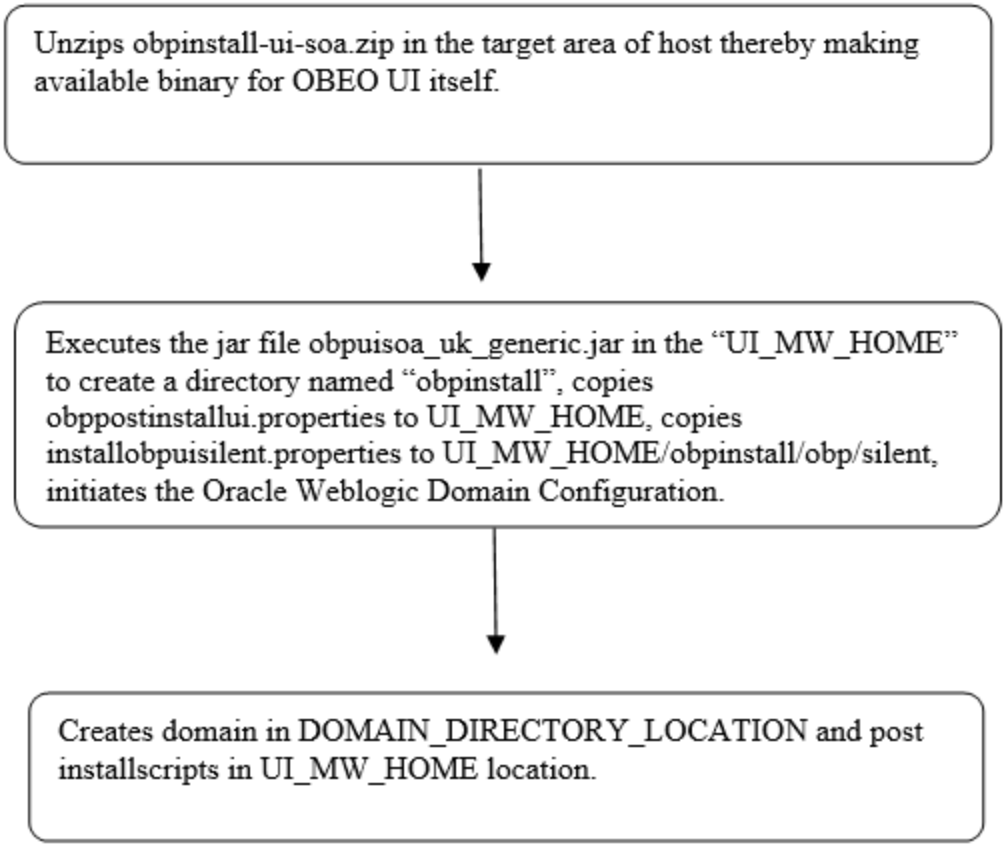
- Make sure required RCU schemas have been created. For more information, see Section 7.1 Pre-Installation Steps and Section 7.2 OBEO Database Setup – RCU Installation.
- Node manager must not be running on the target machine.
- Create a dummy folder named as Target and mention its path against UI_TARGET property.
- In case of a re-installation ensure that the directory paths against DOMAIN_DIRECTORY_ LOCATION, HOST_TARGET and HOST_MW_HOME specified in installobpui.properties are cleaned up for traces of any previous installations, as the remote shell copy may not be overwriting in case of any residual file left by the previous run.
- No processes should be running on the port in HOST machine given in installobpui.properties.
- MDS_SCHEMA_USER schema given in the installobpui.properties exists. This should point to the same schema as MDS_HOST_DB_USER of installobphost.properties.
- Values given in installobpui.properties must be correct. At run time, no option will be given to change the values.

5.1.3 Installation Steps

This section lists the installation steps required for the Oracle Banking Enterprise Originations UK Localization Presentation Media Pack installation.

1. Navigate to the directory where the media pack files are placed and execute installobpui.sh. The installation script shall echo the values entered in the installobpui.properties file and ask for a confirmation to go ahead with the installation.
2. The installation script automatically triggers the following significant steps using secure remote copy 'scp' command and remote shell commands execution using the 'ssh' command.

Figure 5–1 Steps in installobpui.sh script



A sample output is given here.

Figure 5–2 Confirmation to Proceed Domain Installation

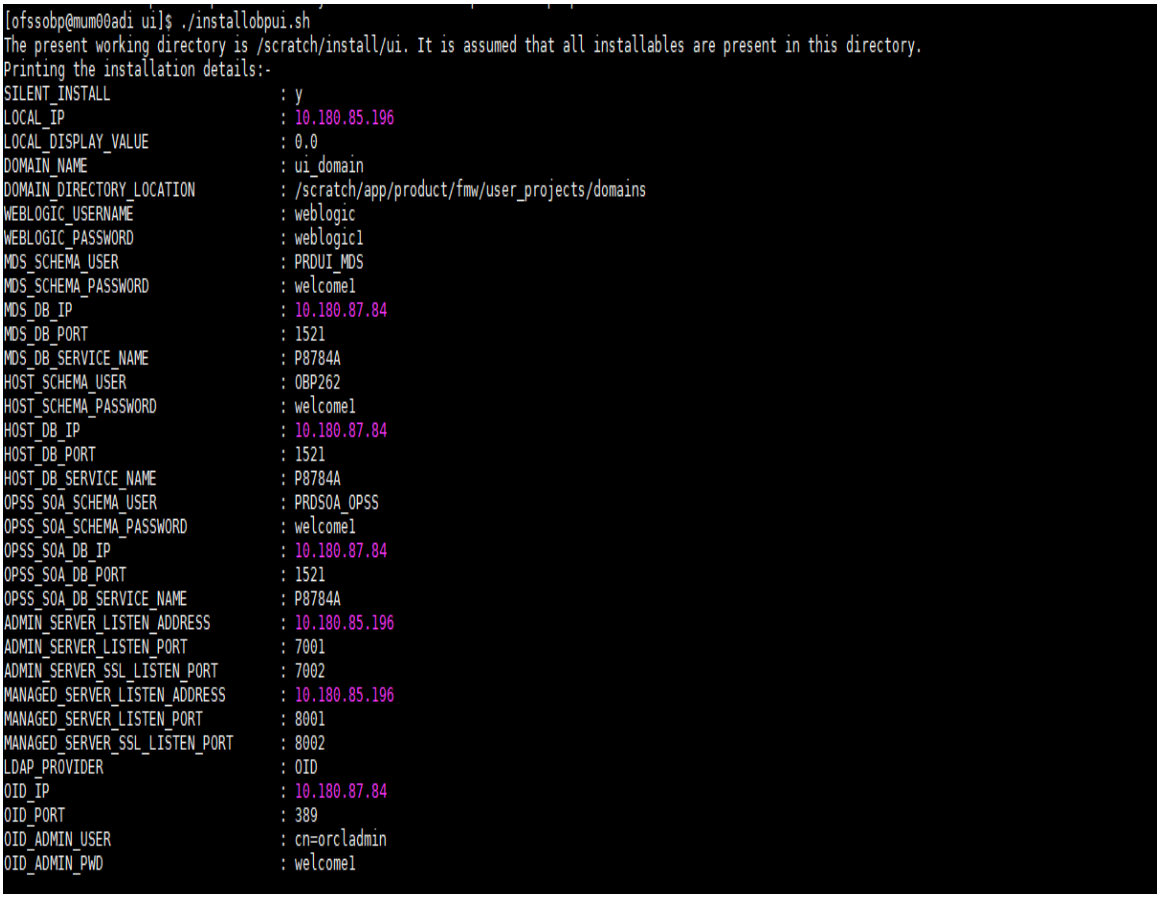


Figure 5–3 Confirmation to Proceed Domain Installation (contd)

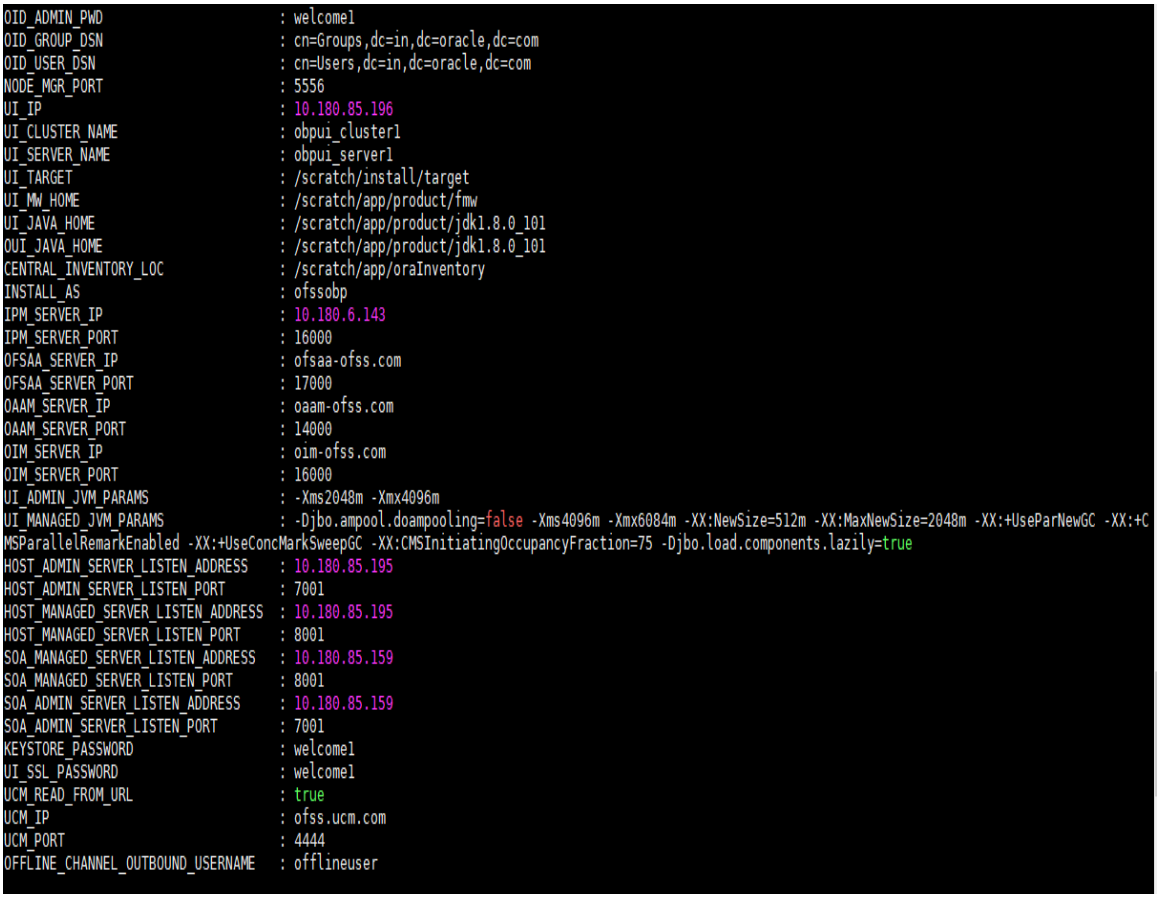


Figure 5–4 Confirmation to Proceed Domain Installation (contd)

3. Verify the value of each property carefully before proceeding.
4. If all values are correct, then enter 'Y' or 'y' and press Enter to initiate the installation. The installation utility performs the installation and domain is created silently.

Figure 5–5 Copying and Extraction of obpinstall-ui-soa.zip

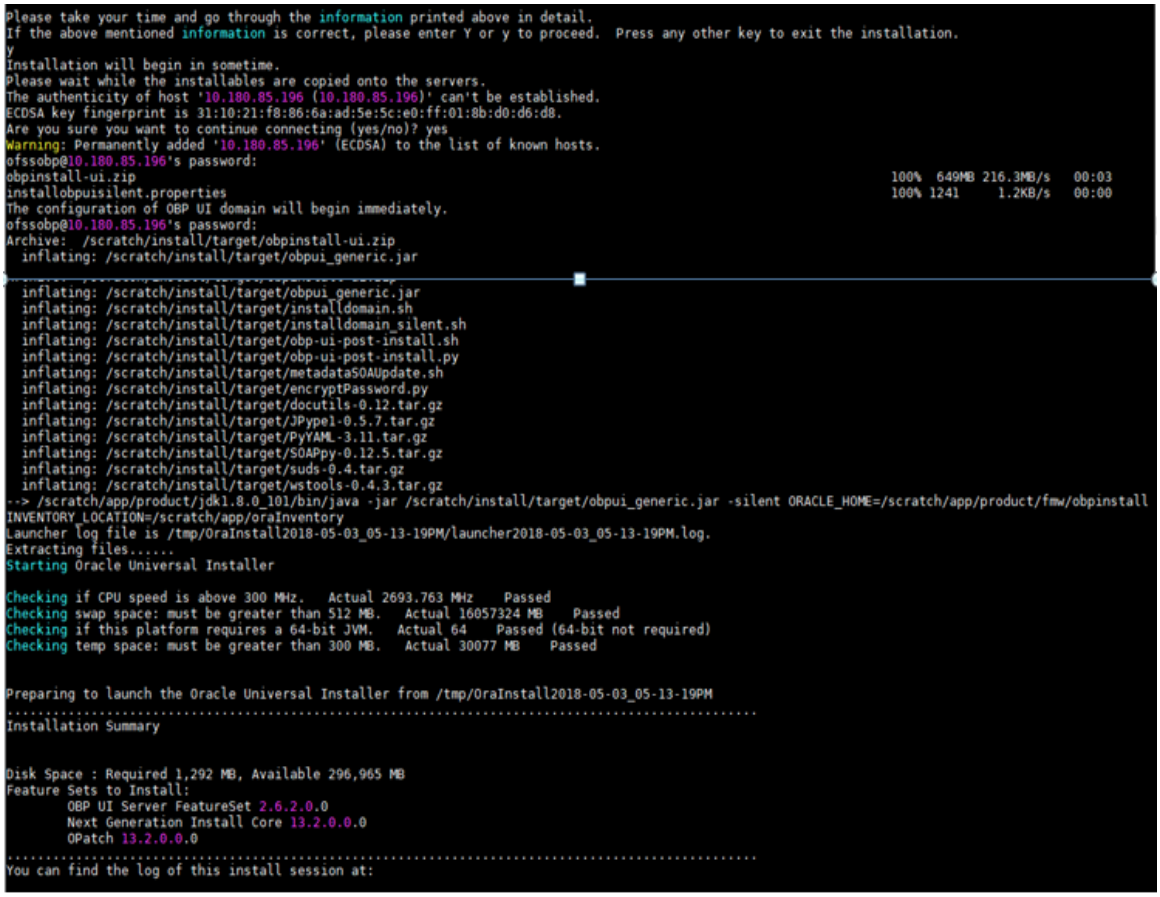


Figure 5–6 Copying and Extraction of obpinstall-ui-soa.zip (contd)

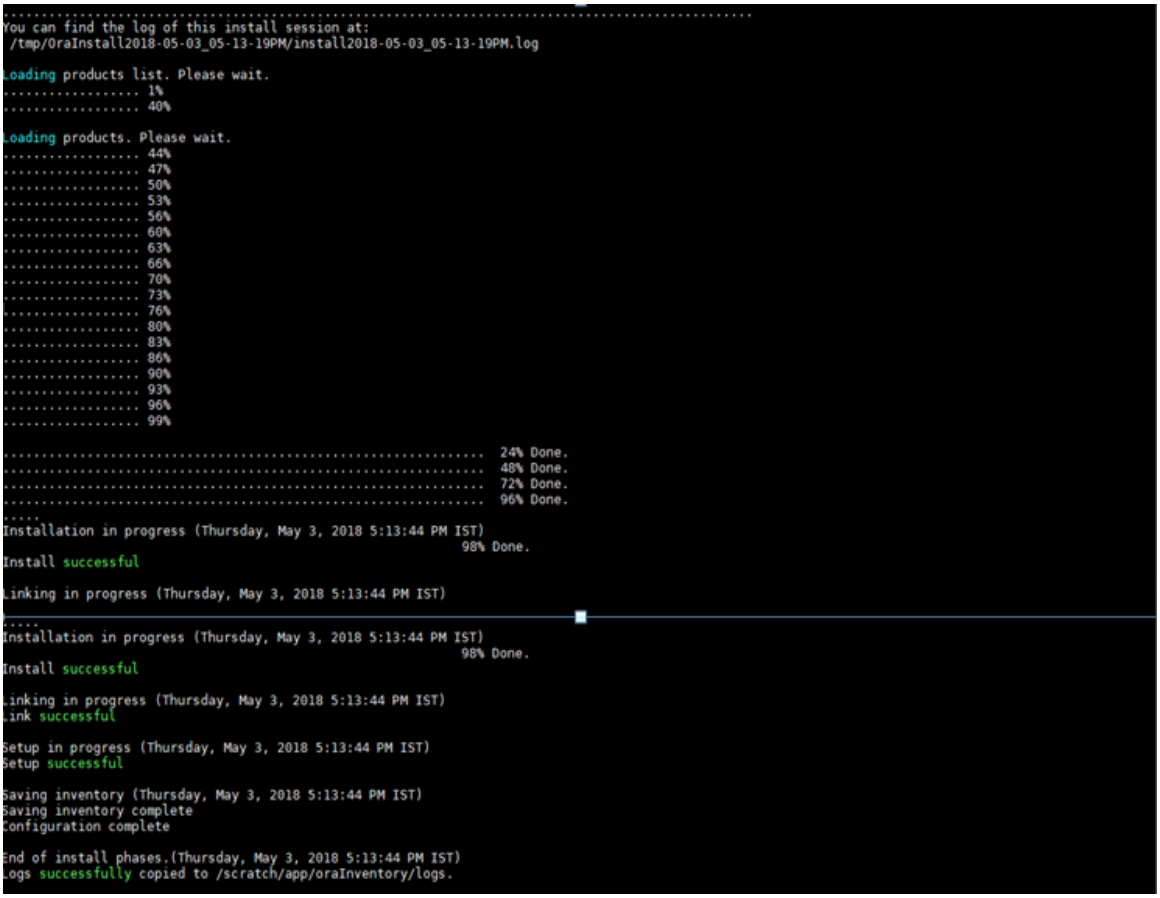
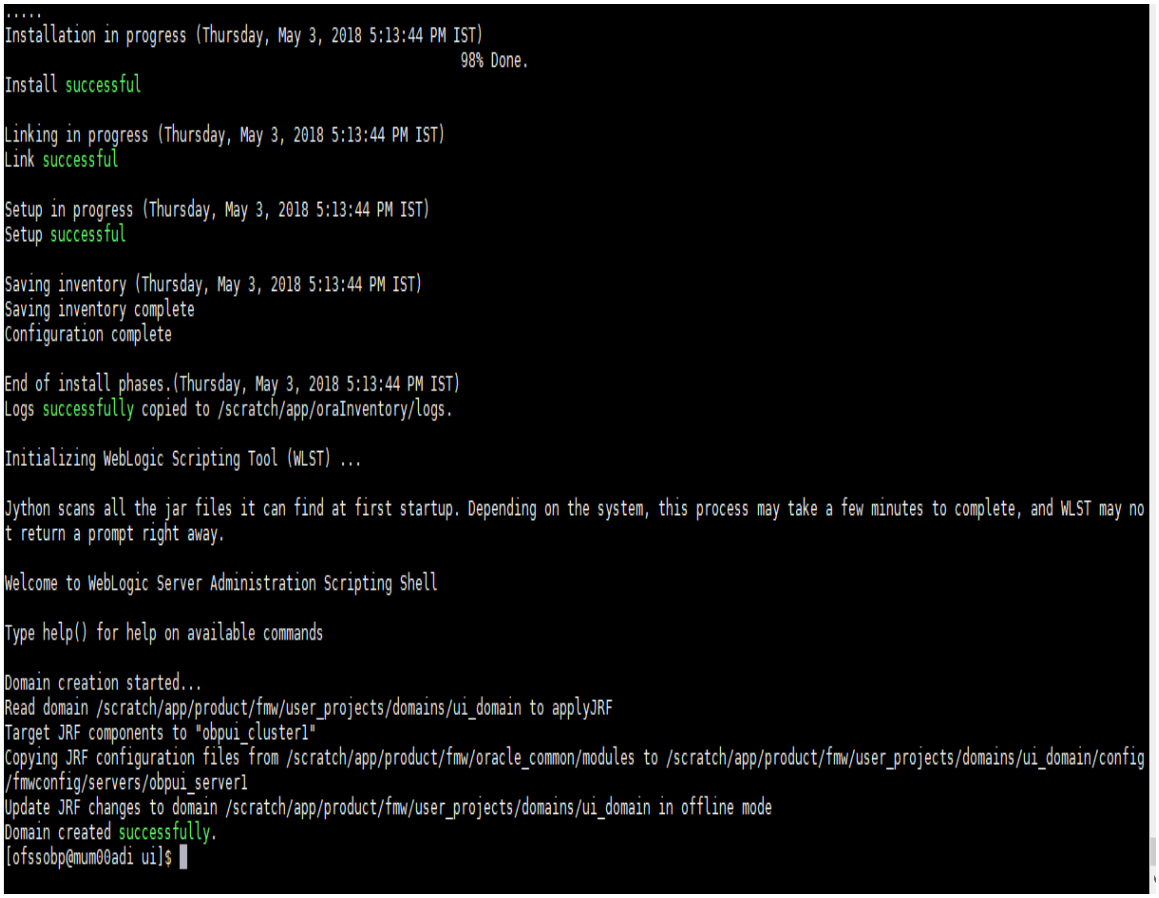


Figure 5–7 Domain Creation Confirmation



The above domain configuration process also creates files named obp-ui-post-install.sh and obp-ui-post-install.py in UI_MW_HOME location which are to be used to perform post installation configuration as elaborated in Section 5.2 Post Installation Configuration.

5.2 Post Installation Configuration

This section describes the post installation configuration procedure for Oracle Banking Enterprise Originations UK Localization Presentation Media Pack.

Checklist for Post Installation Procedure

Before proceeding with the post installation procedure for UI, ensure the following:

- Node manager is not running on the UI machine.
- OID domain given in obppostinstallui.properties must exist in OID. (The OID domain is created at the time of host pre-install).
- Node manager port should be free. You can verify this using the following command, where 5556 is the Node Manager Port.

```
$netstat -na | grep 5556
```

Post Installation Configuration

1. Start the domain admin WebLogic server by executing the startWebLogic.sh script in the domain directory.

```
cd <middleware home>
cd user_projects/domains/obpuidomain/bin
./startWebLogic.sh
```

2. Enter the username and the password to ensure that the WebLogic server starts up.

Figure 5–8 UI Admin Server Credentials

Figure 5–9 UI Admin Server Running

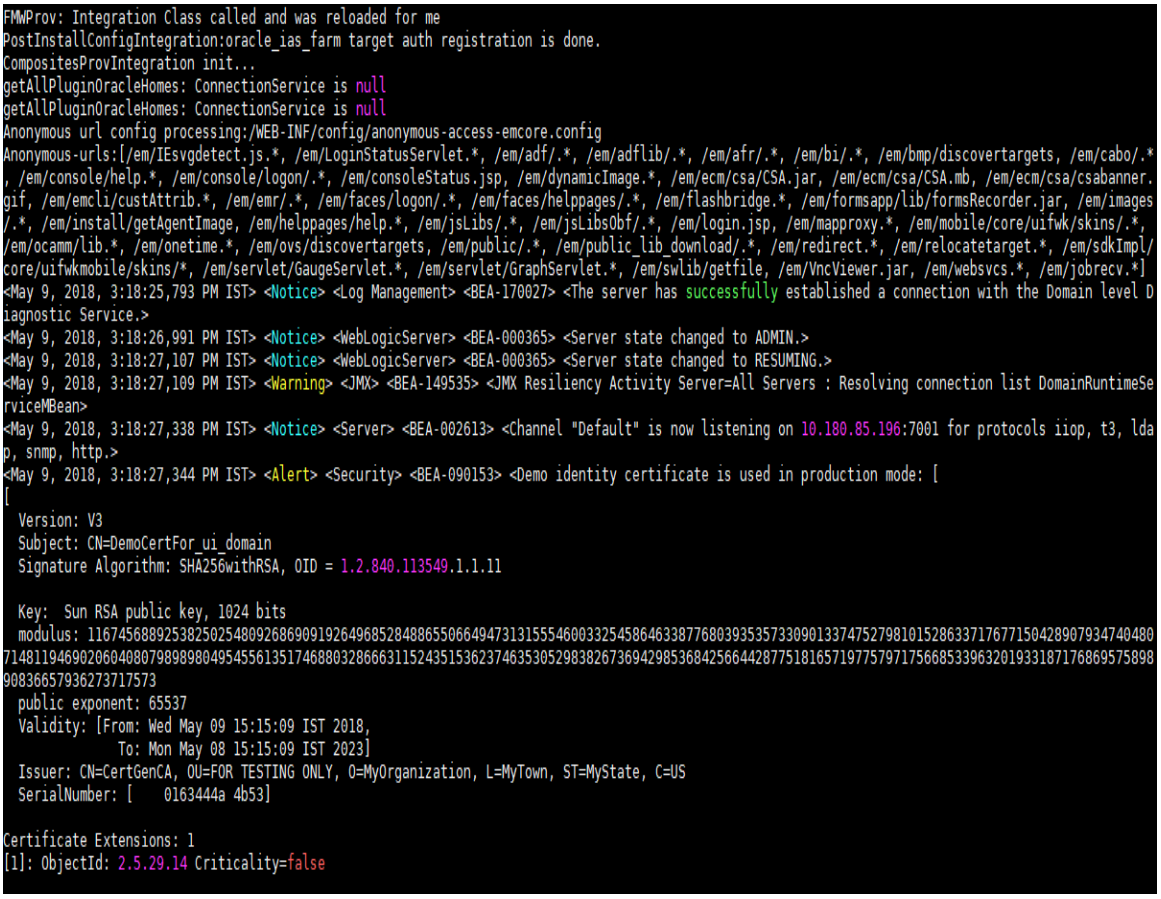


Figure 5–10 UI Admin Server Running (contd)

3. Once the server status changes to RUNNING proceed to execute the post installation script.
4. Navigate to the middleware home and list the files in the directory. A post installation and configuration script named obp-ui-post-install.sh will be listed along with other files and directories.
5. Navigate to the UI middleware location and give executable permission to the post install script:

```
$cd <ui middleware home>
```

6. Execute the script using the following commands:

```
$./obp-ui-post-install.sh
```

Figure 5–11 Starting Post Installation

```
[ofssobp@mum00adi fmw]$ ./obp-ui-post-install.sh
DOMAIN_NAME                         : ui_domain
DOMAIN_DIRECTORY_LOCATION           : /scratch/app/product/fmw/user_projects/domains
ADMIN_SERVER_LISTEN_ADDRESS         : 10.180.85.196
ADMIN_SERVER_LISTEN_PORT            : 7001
MANAGED_SERVER_LISTEN_ADDRESS       : 10.180.85.196
MANAGED_SERVER_SSL_LISTEN_PORT      : 8002
MANAGED_SERVER_LISTEN_PORT          : 8001
WEBLOGIC_USERNAME                   : weblogic
WEBLOGIC_PASSWORD                   : weblogic1
UI_IP                               : 10.180.85.196
UI_TARGET                           : /scratch/install/target
UI_MW_HOME                          : /scratch/app/product/fmw
KEYSTORE_PASSWORD                   : welcome1
UI_SSL_PASSWORD                     : welcome1
INSTALL_AS                          : ofssobp
HOST_ADMIN_SERVER_LISTEN_ADDRESS    : 10.180.85.195
HOST_ADMIN_SERVER_LISTEN_PORT       : 7001
HOST_MANAGED_SERVER_LISTEN_ADDRESS  : 10.180.85.195
HOST_MANAGED_SERVER_LISTEN_PORT     : 8001
SOA_MANAGED_SERVER_LISTEN_ADDRESS   : 10.180.85.159
SOA_MANAGED_SERVER_LISTEN_PORT      : 8001
LDAP_PROVIDER                       : OID
OID_IP                              : 10.180.87.84
OID_PORT                            : 389
OID_ADMIN_USER                      : cn=orcladmin
OID_ADMIN_PWD                       : welcome1
OID_GROUP_DSN                       : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN                        : cn=Users,dc=in,dc=oracle,dc=com
NODE_MGR_PORT                       : 5556
IPM_SERVER_IP                       : 10.180.6.143
IPM_SERVER_PORT                     : 16000
OFSAA_SERVER_IP                     : ofsaa-ofss.com
OFSAA_SERVER_PORT                   : 17000
OAAM_SERVER_IP                      : oaam-ofss.com
OAAM_SERVER_PORT                    : 14000
OIM_SERVER_IP                       : oim-ofss.com
OIM_SERVER_PORT                     : 16000
```

Figure 5–12 Starting Post Installation (contd)

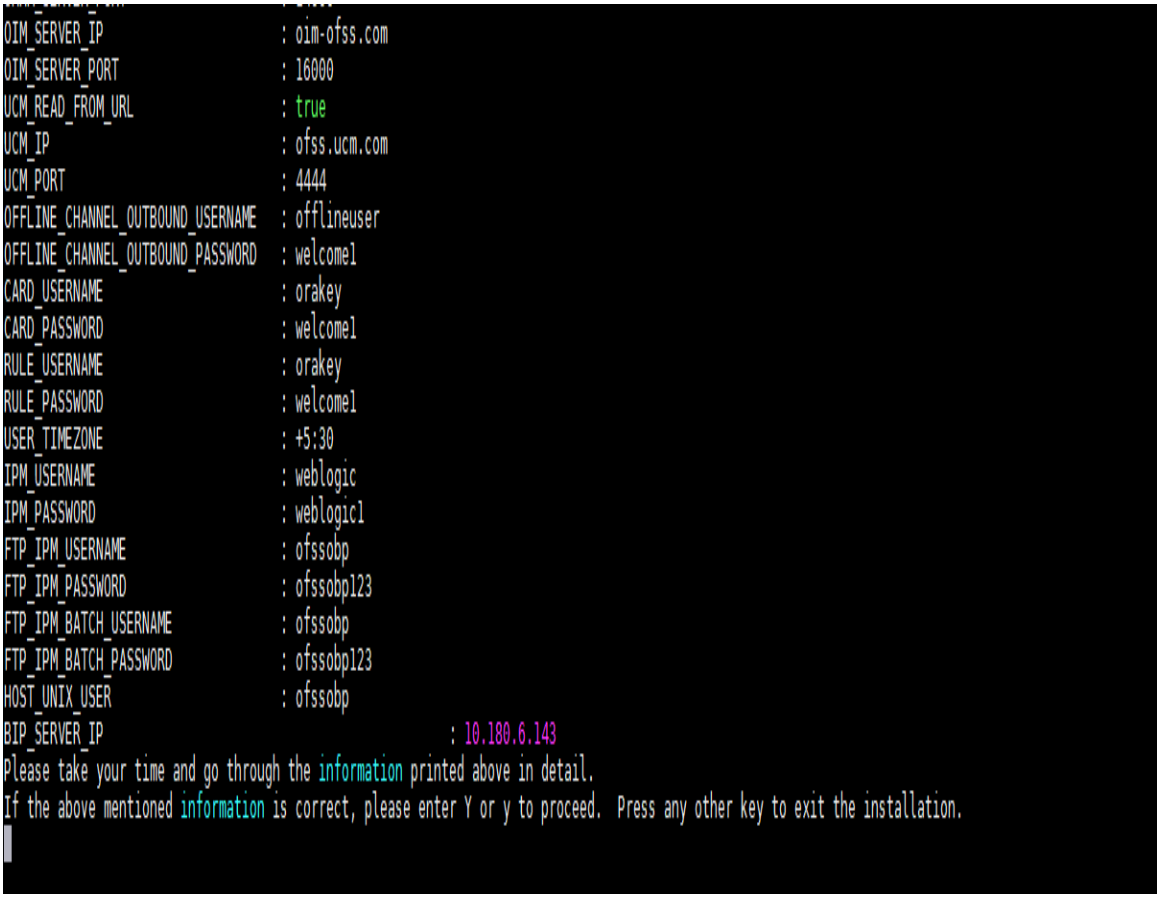


Figure 5–13 Continuation of Post-Installation

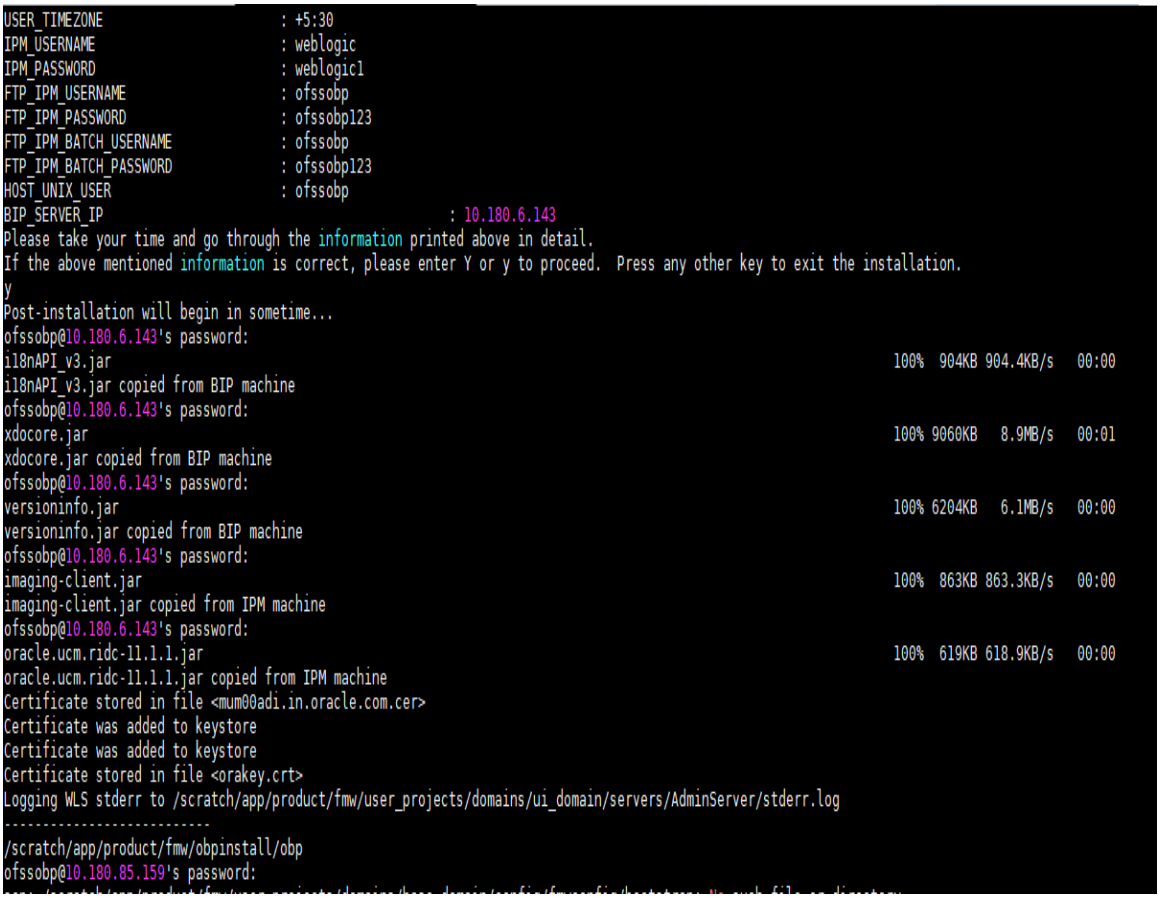
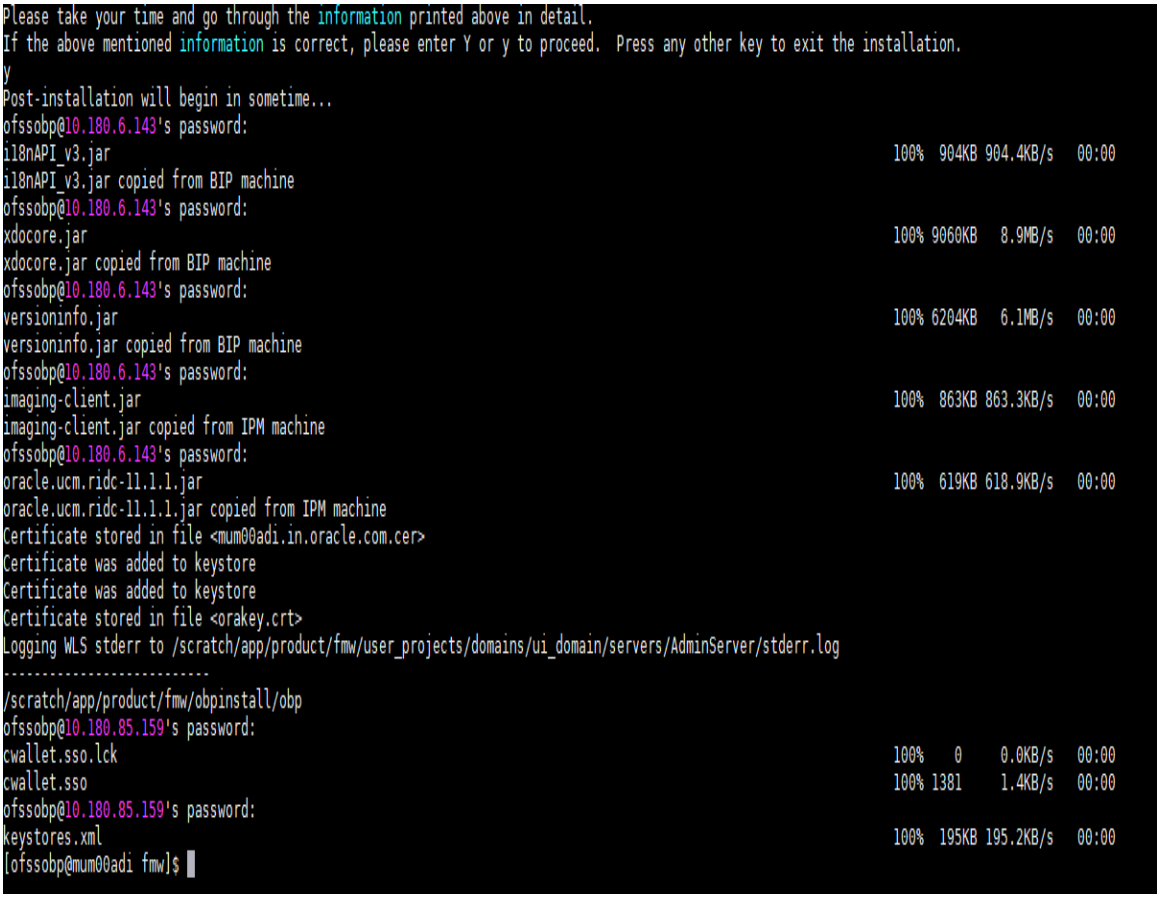


Figure 5–14 Continuation of Post-Installation (contd)



7. For monitoring the script run check the following log files created under the ui domain directory:
   - obp-ui-install-log.txt
   - obp-ui-install-log-py.txt
8. Restart UI admin and UI managed server.

6 BAM Installation using OBEO UK Localization SOA Media Pack

This chapter details every step involved in the installation of Oracle Business Activity Monitoring (BAM) using OBEO UK Localization SOA Media pack. The subsequent section refers to the variable names specified in Section 2.4 Installation Checklist.

It is mandatory not to carry out BAM installation in the same machine where SOA installation was done.

6.1 Installation and Configuration Procedure

This section details the installation procedure for BAM using OBEO UK Localization SOA Media Pack.

6.1.1 Preparatory Steps

This section lists the preparatory steps required for BAM using OBEO UK Localization SOA Media Pack.

Step 1 Procuring Installables

Download the appropriate SOA media pack from the following location:

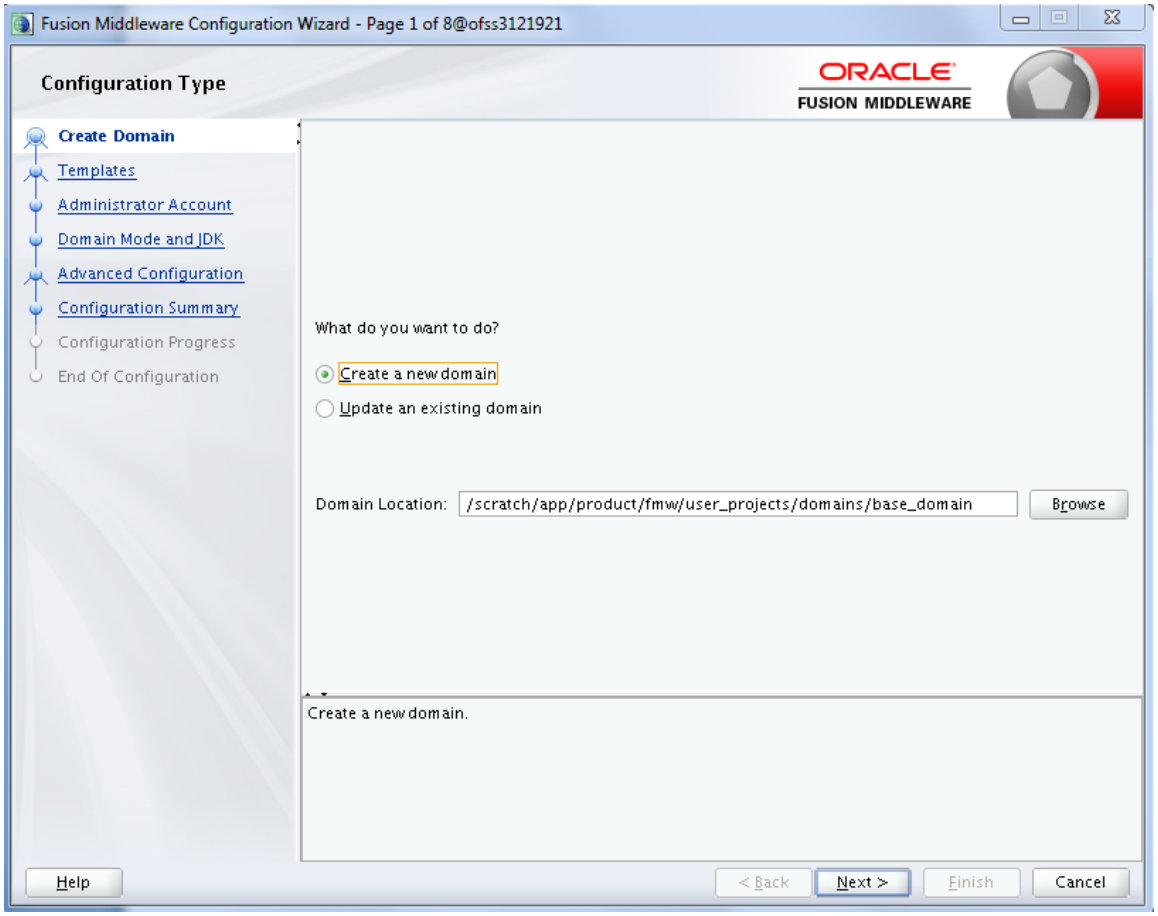
http://edelivery.oracle.com/

6.1.2 BAM Domain Creation Steps

This section lists the steps for creating BAM domain. Make sure BAM RCU schemas and SOA suite are installed before domain creation.

1. Go to <MIDDLEWARE_HOME>/oracle_common/common/bin directory.
2. Execute config.sh. A configuration wizard window appears.
3. In the **Configuration Type** page, select the **Create a new domain** option.

Figure 6–1 Configuration Type page



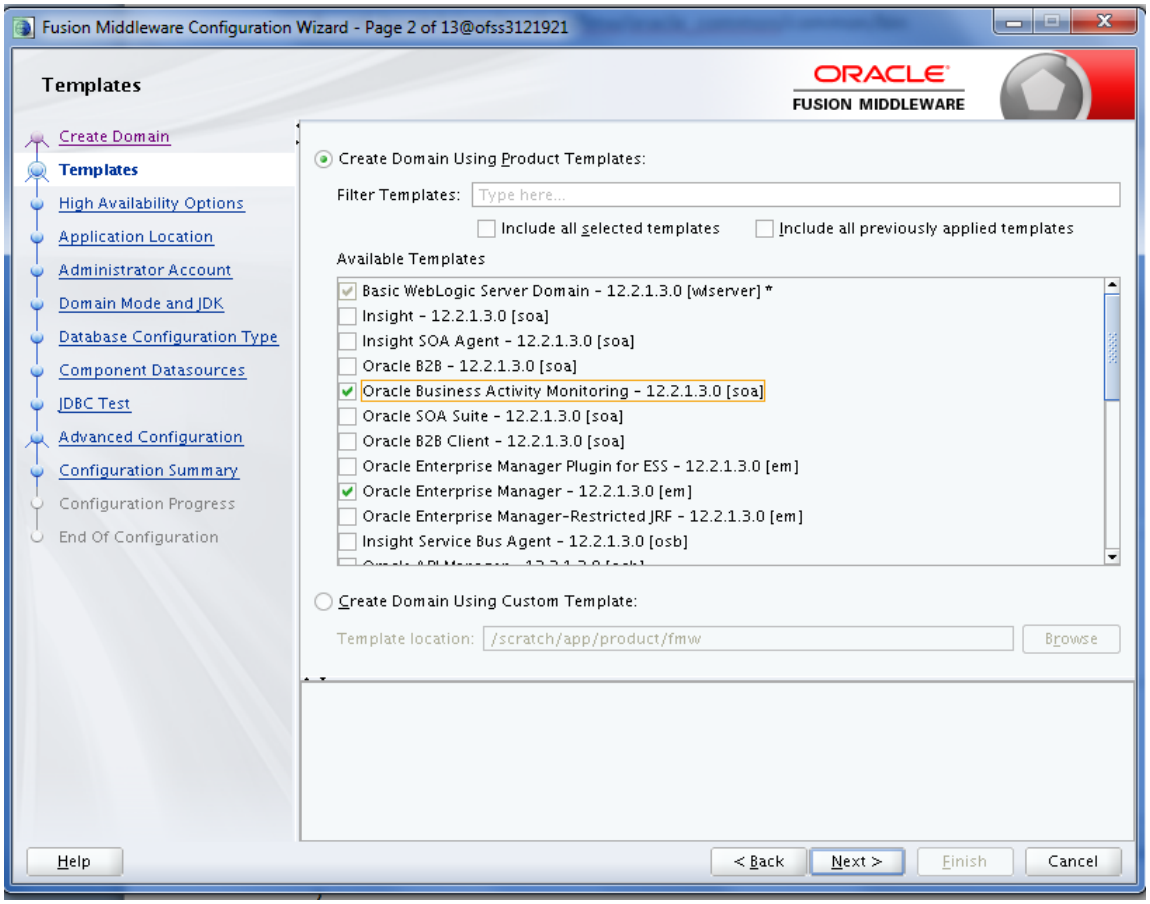
4. Provide the following domain path and click **Next.**

   cd /scratch/app/product/fmw/oracle_common/common/bin

   ./config.sh

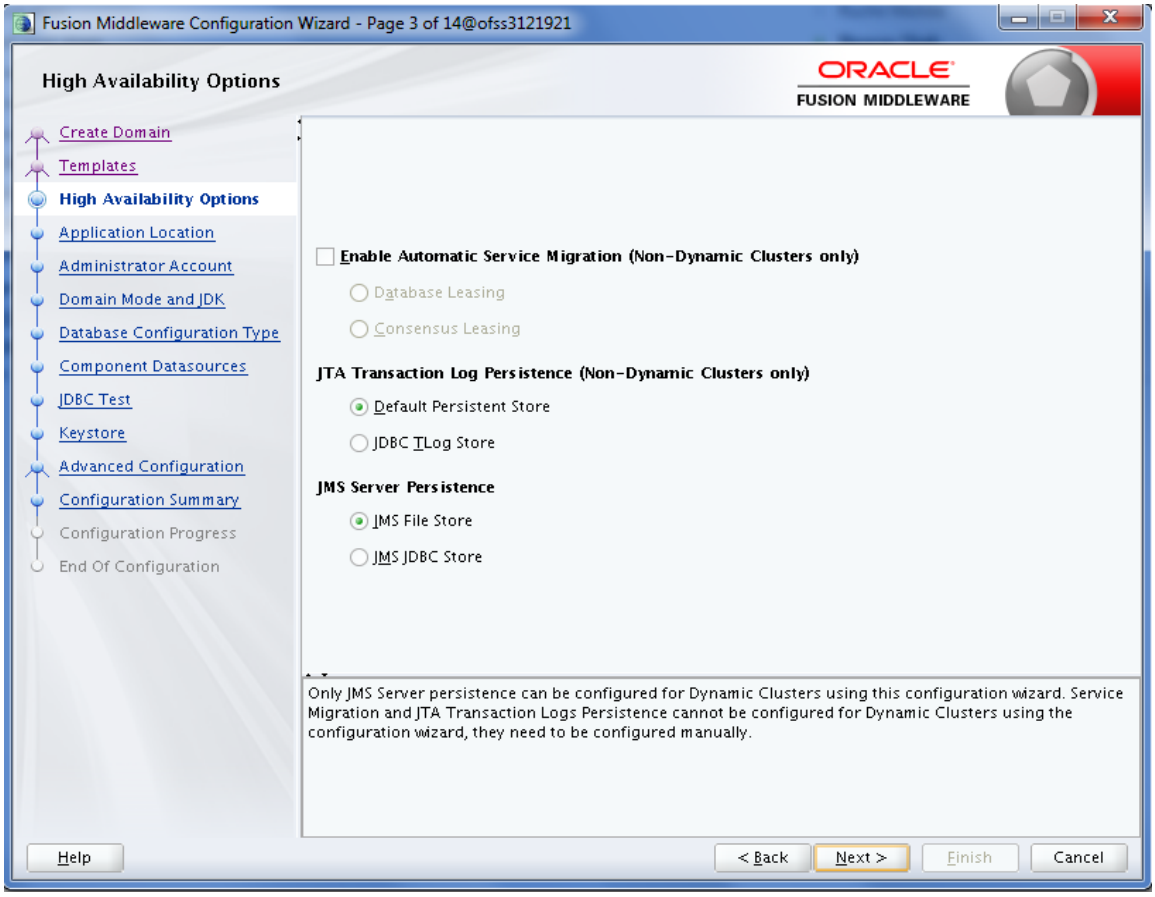
5. In the **Templates** page, select the **Oracle Business Activity Monitoring** check box, in the **Available Templates** section and click **Next**.

Figure 6–2 Templates page



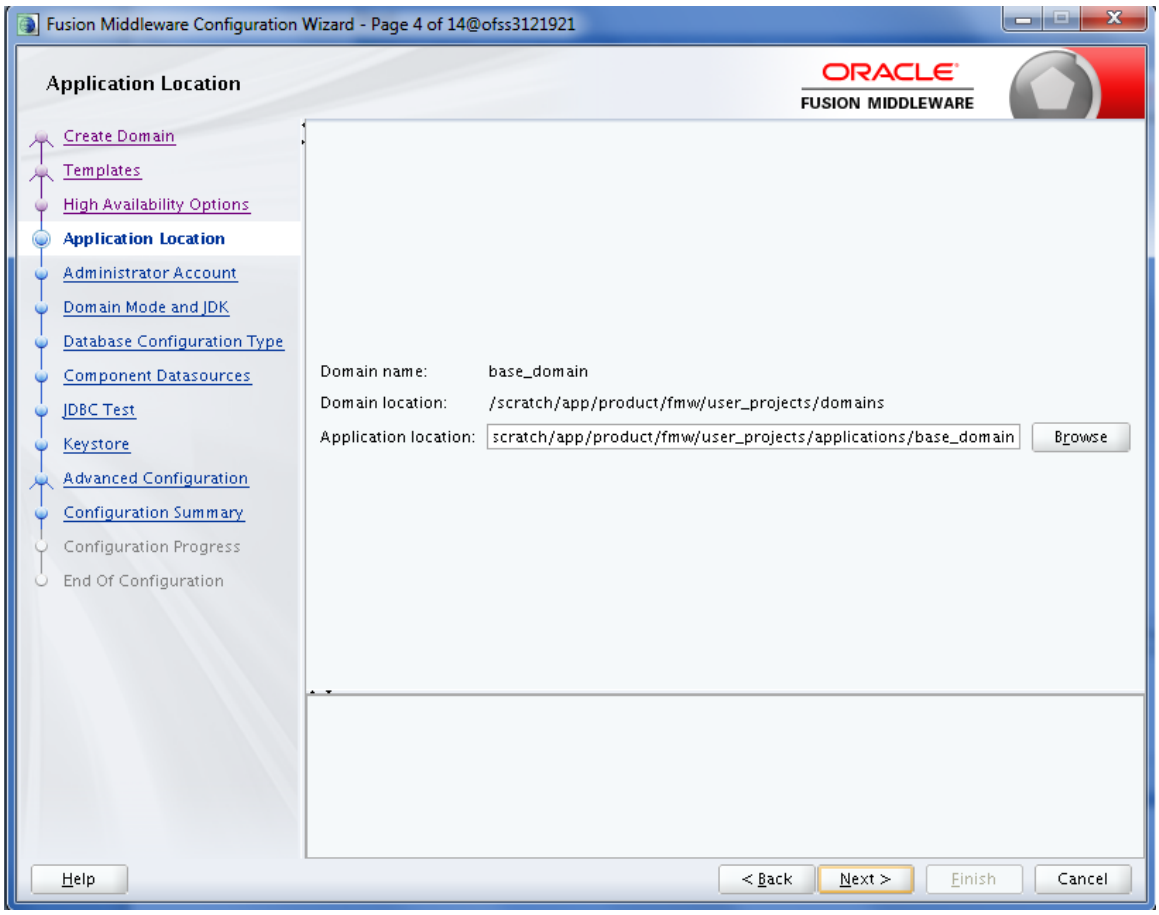
6. In the **High Availability Options** page, select the required options and then click **Next.**

Figure 6–3 High Availability Options page



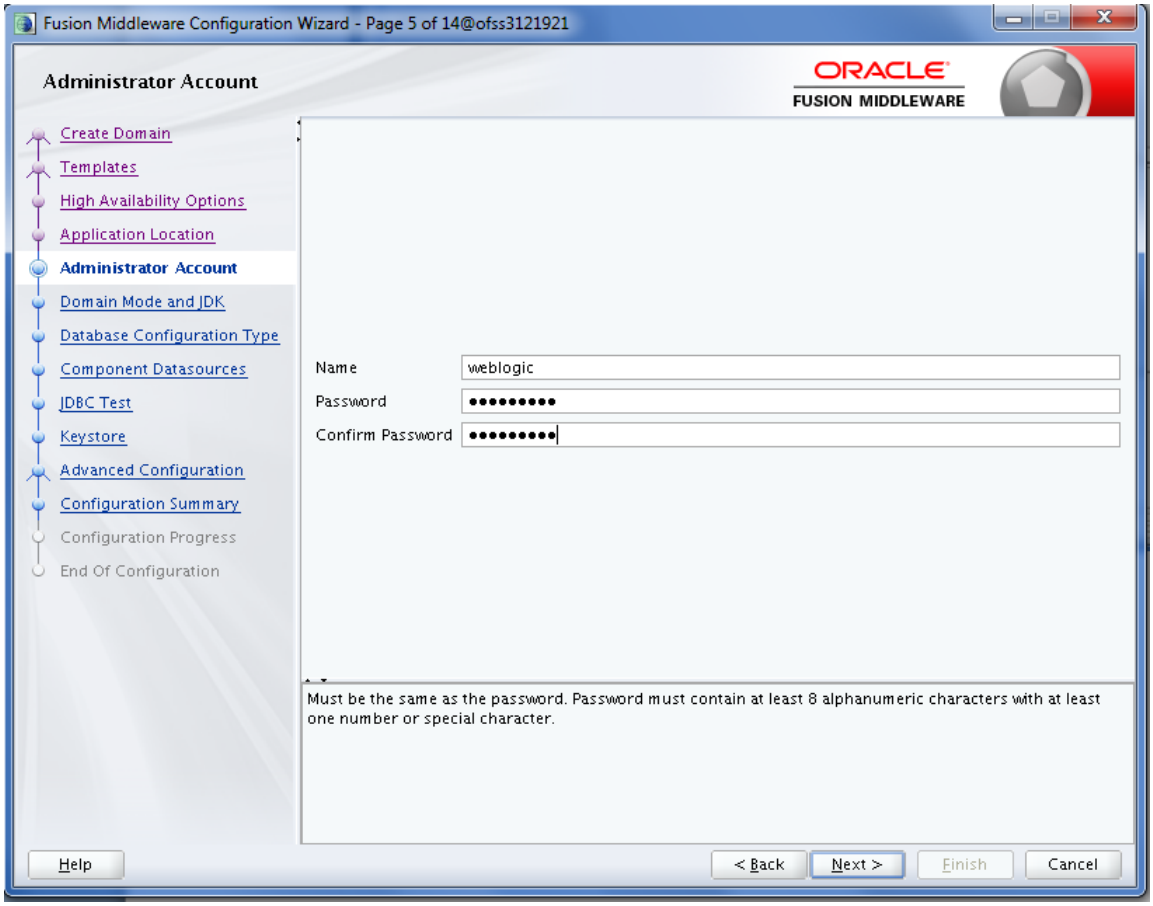
7. In the **Application Location** page, enter the location and then click **Next.**

Figure 6–4 Application Location page



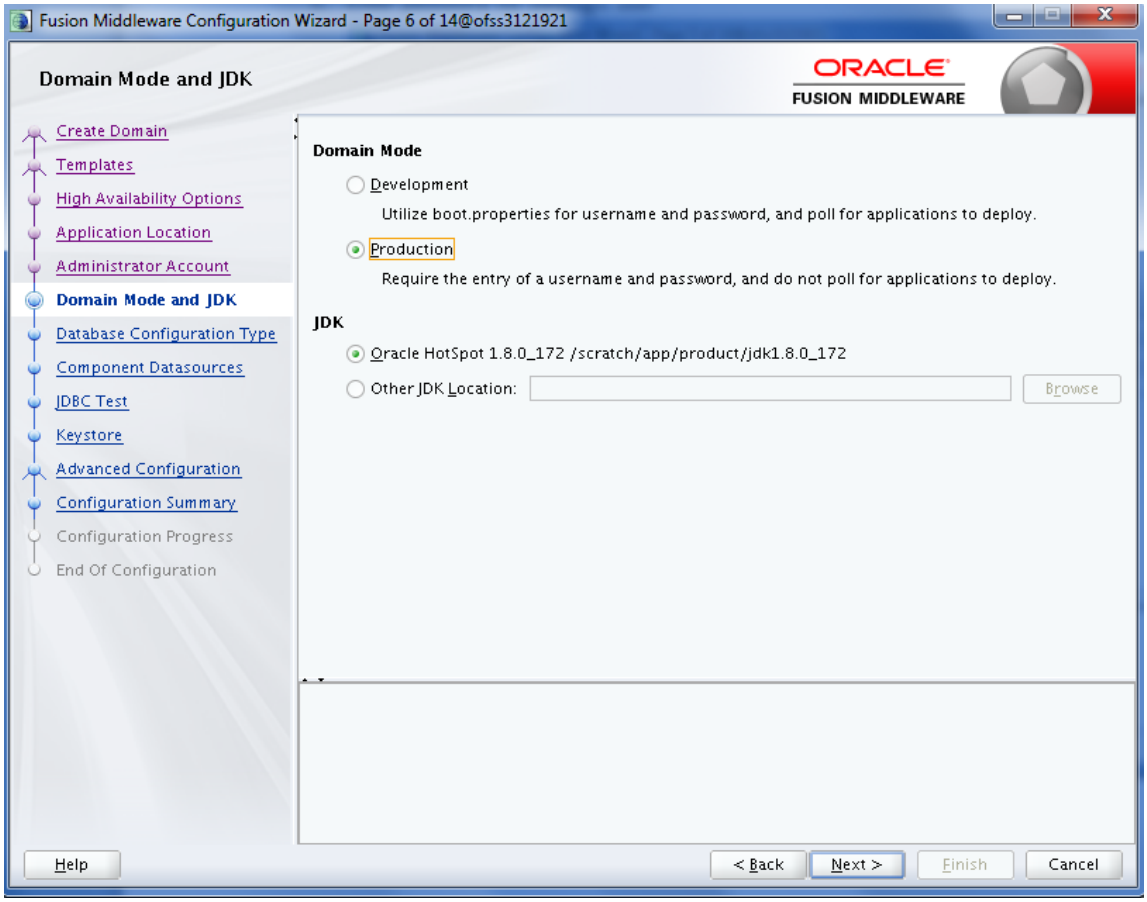
8. In the **Administrator Account** page, enter the password for the weblogic user and then click **Next**.

Figure 6–5 Administrator Account page



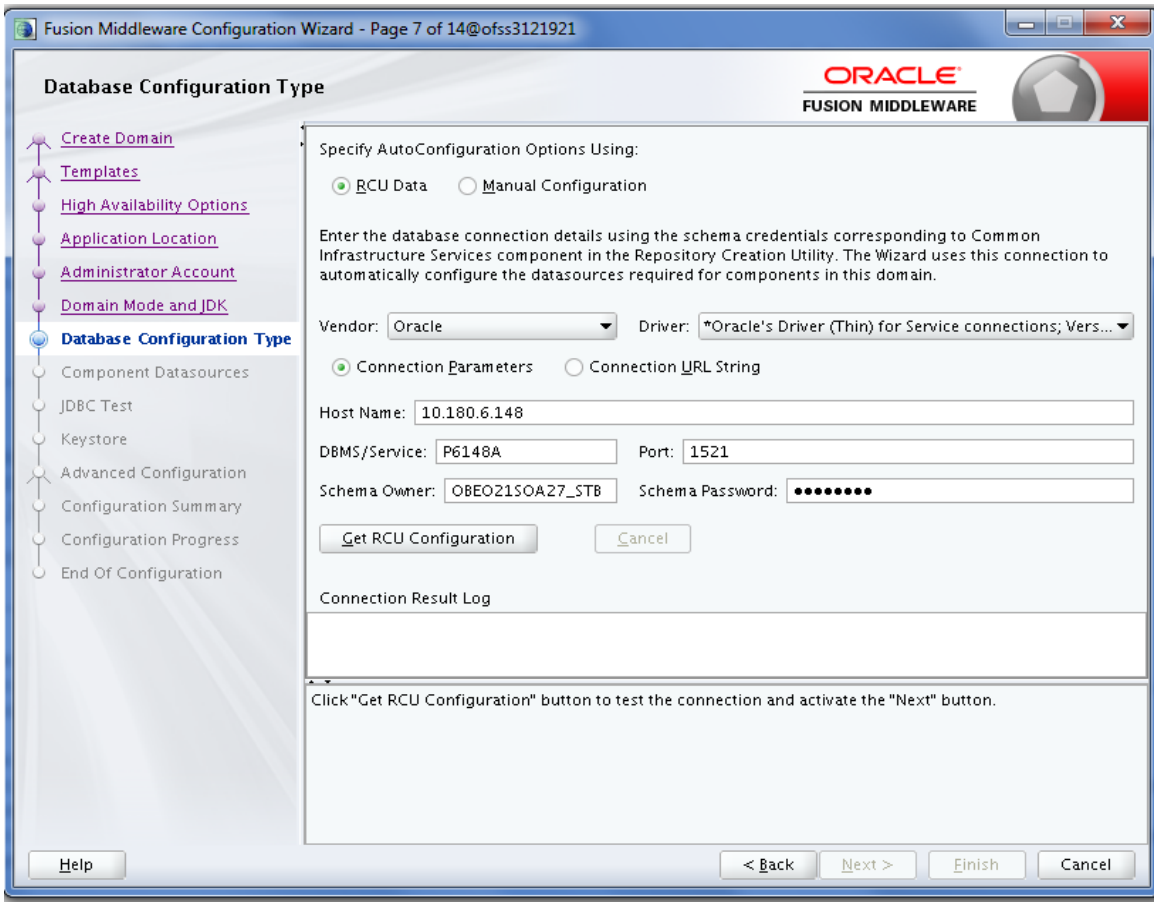
9. In the **Domain Mode and JDK** page, select the **Production** mode and then click **Next**.

Figure 6–6 Domain Mode and JDK page



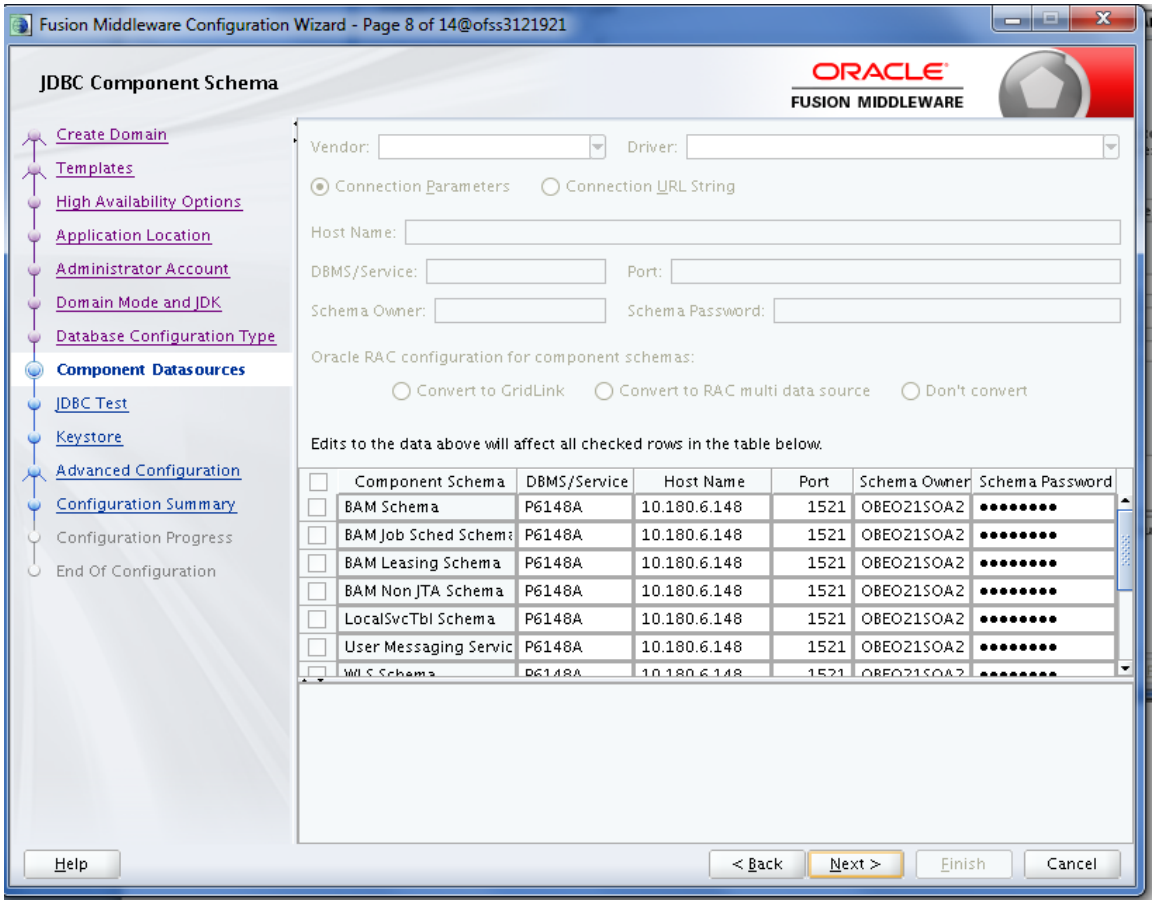
10. In the **Database Configuration Type** page, enter the RCU details and click **Next**.

Figure 6–7 Database Configuration Type page



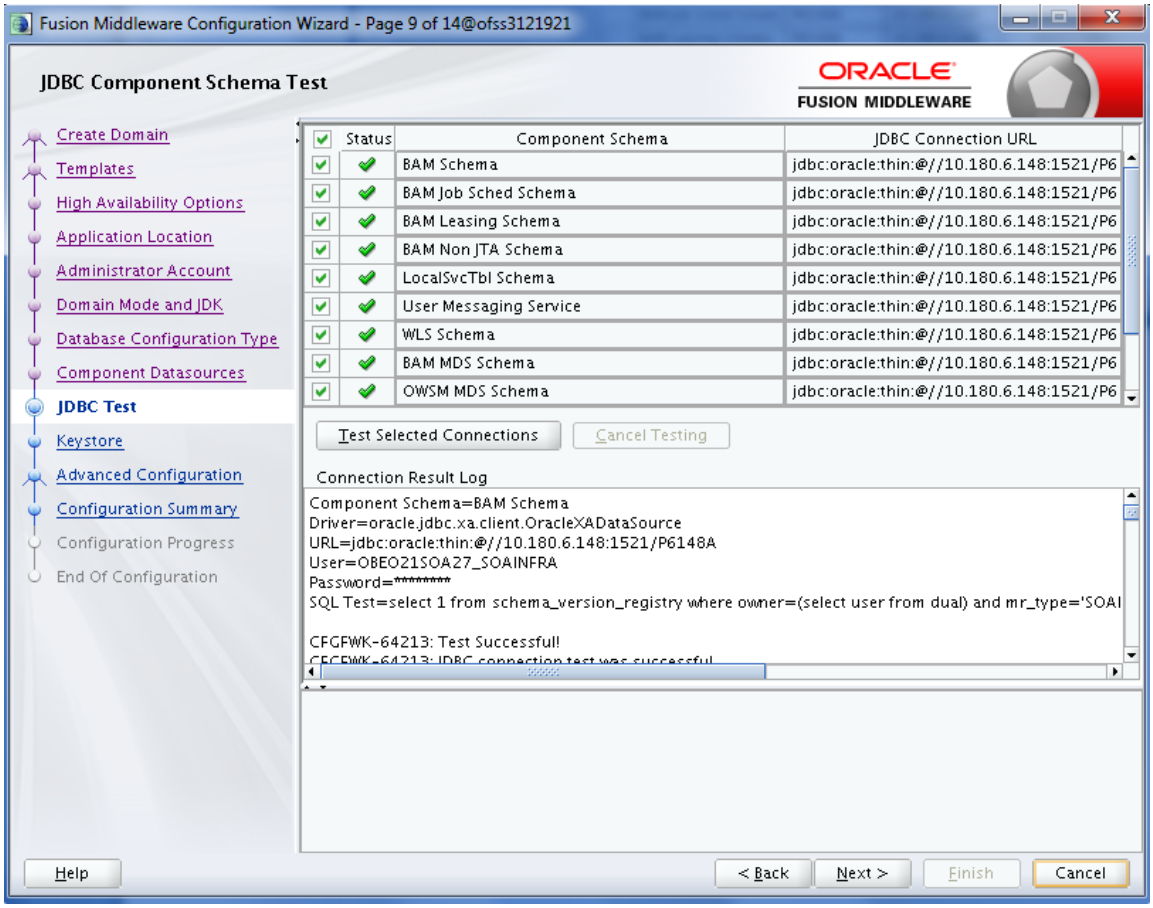
11. In the **Component Datasources** page, click **Next**.

Figure 6–8 Component Datasources page



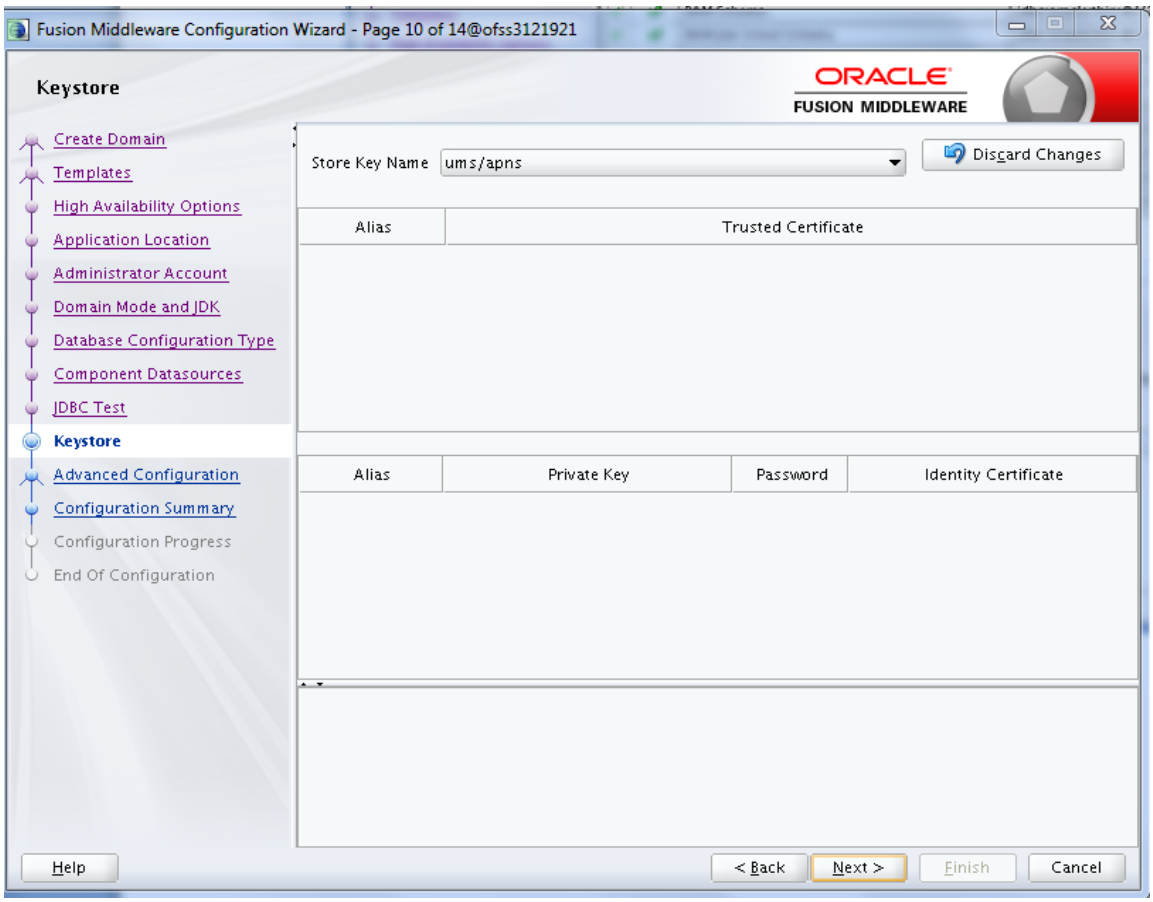
12. In the **JDBC Test** page, click **Test Selected Connections** and then click **Next**.

Figure 6–9 JDBC Test page



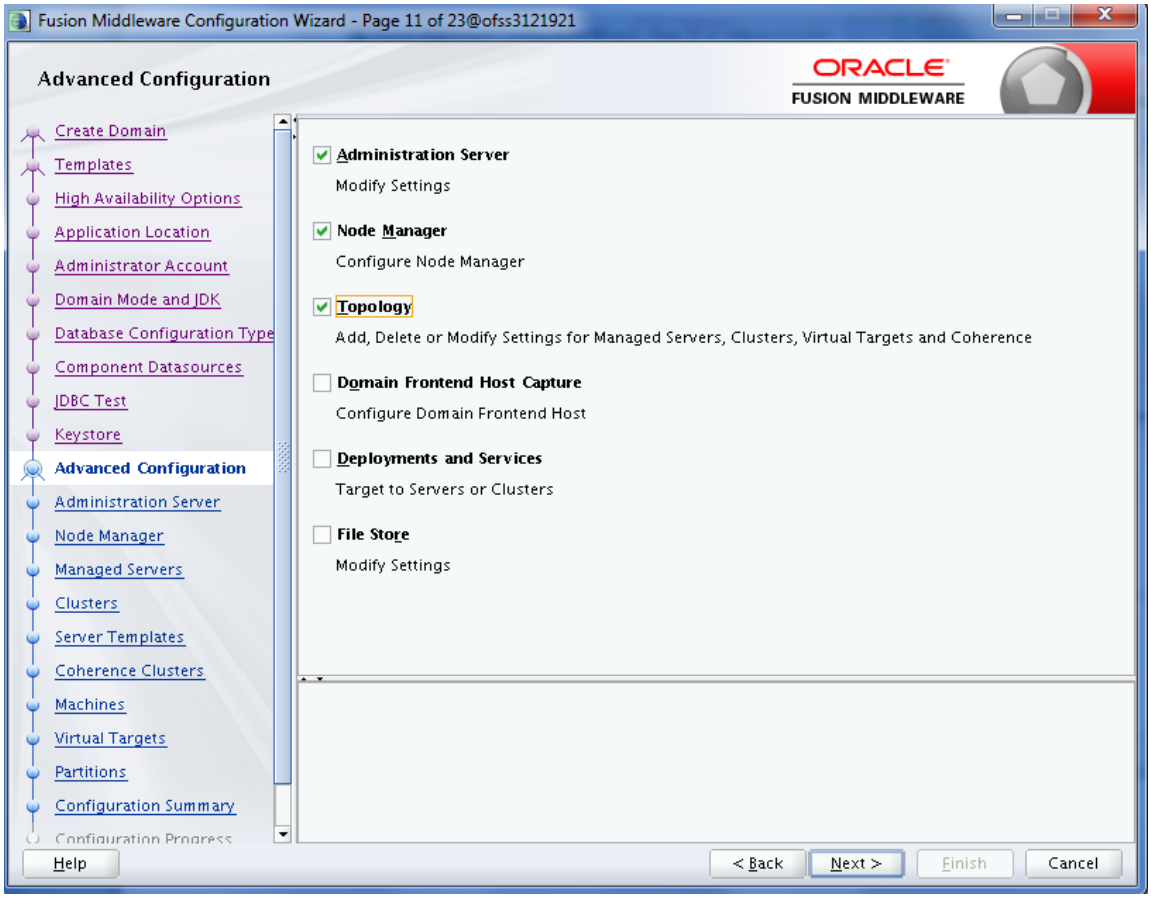
13. In the **Keystore** page, click **Next**.

Figure 6–10 Keystore page



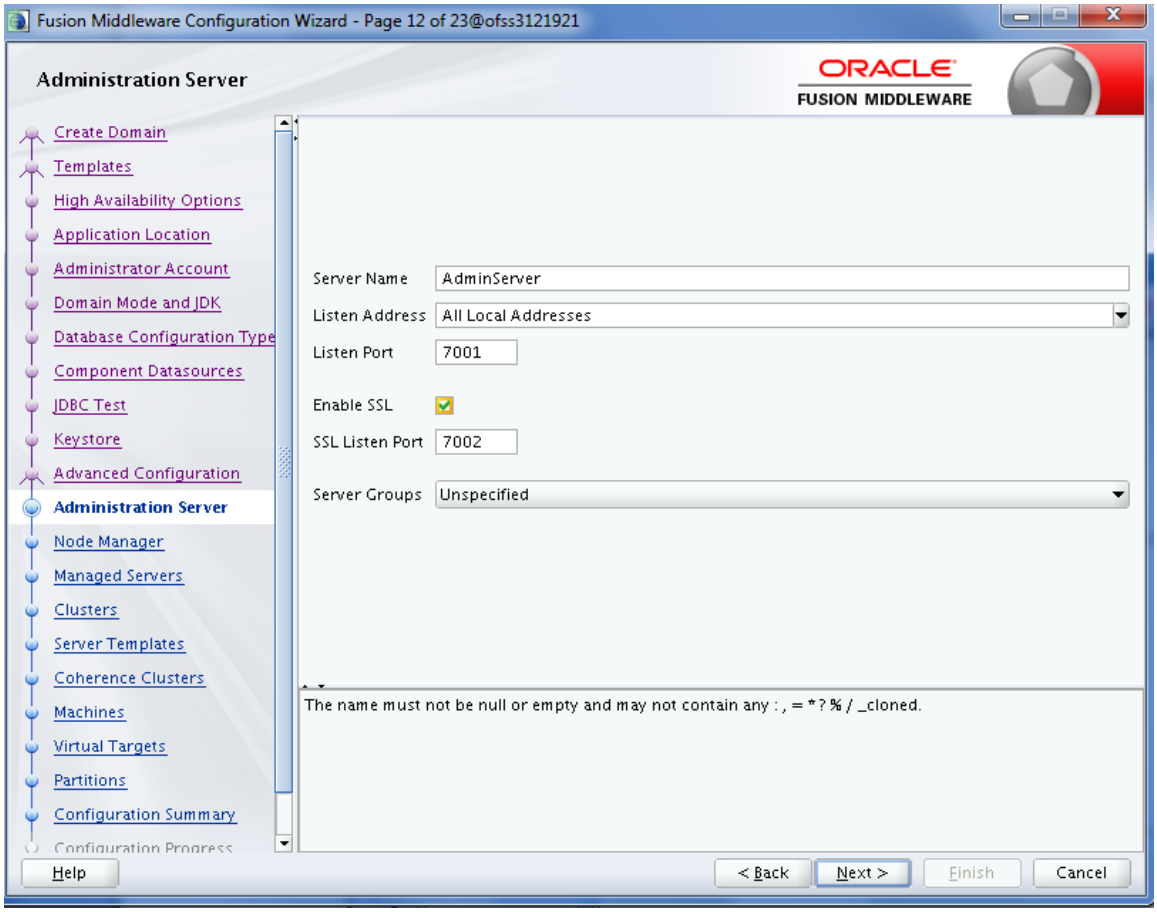
14. In the **Advanced Configuration** page, select the **Administration Server**, **Mode Manager** and **Topology** check boxes and then click **Next**.

Figure 6–11 Advanced Configuration page



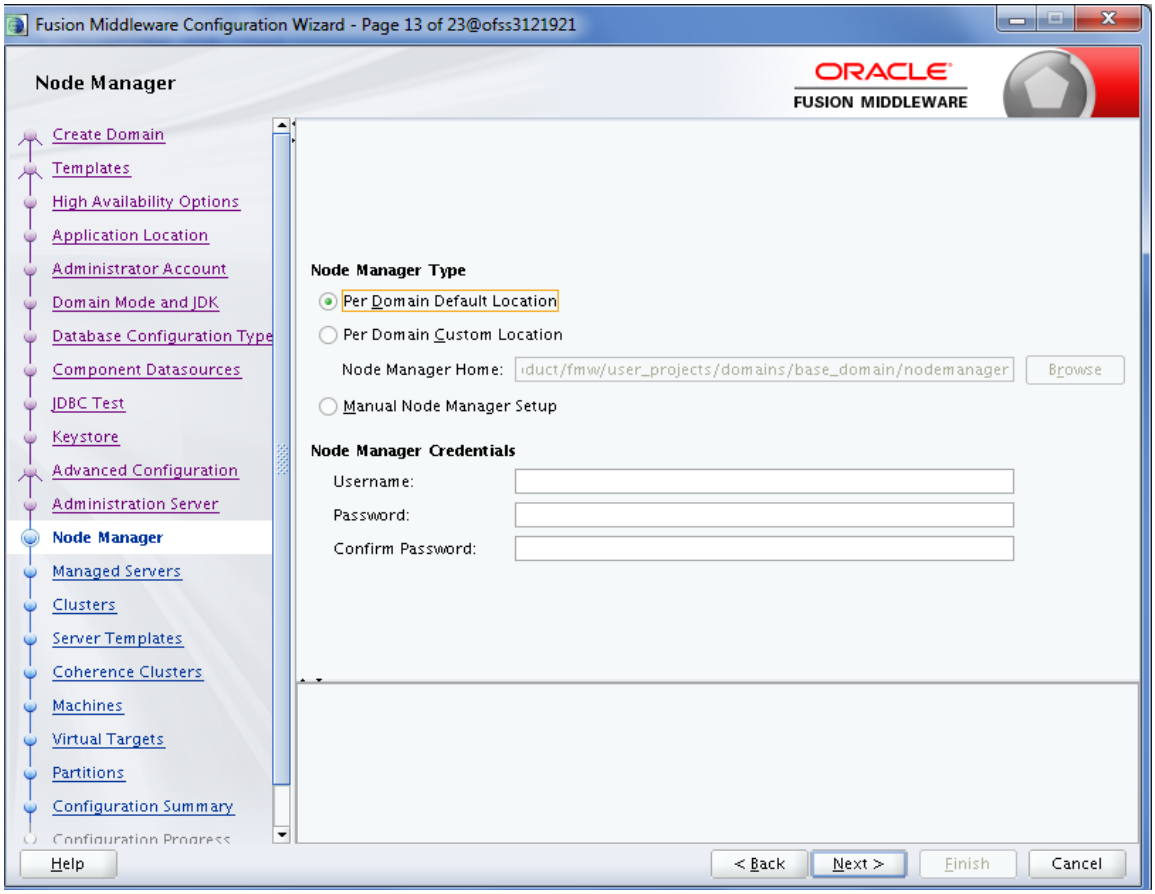
15. In the **Administration Server** page, select the listen address and select the **Enable SSL** check box. Click **Next.**

Figure 6–12 Administration Server page



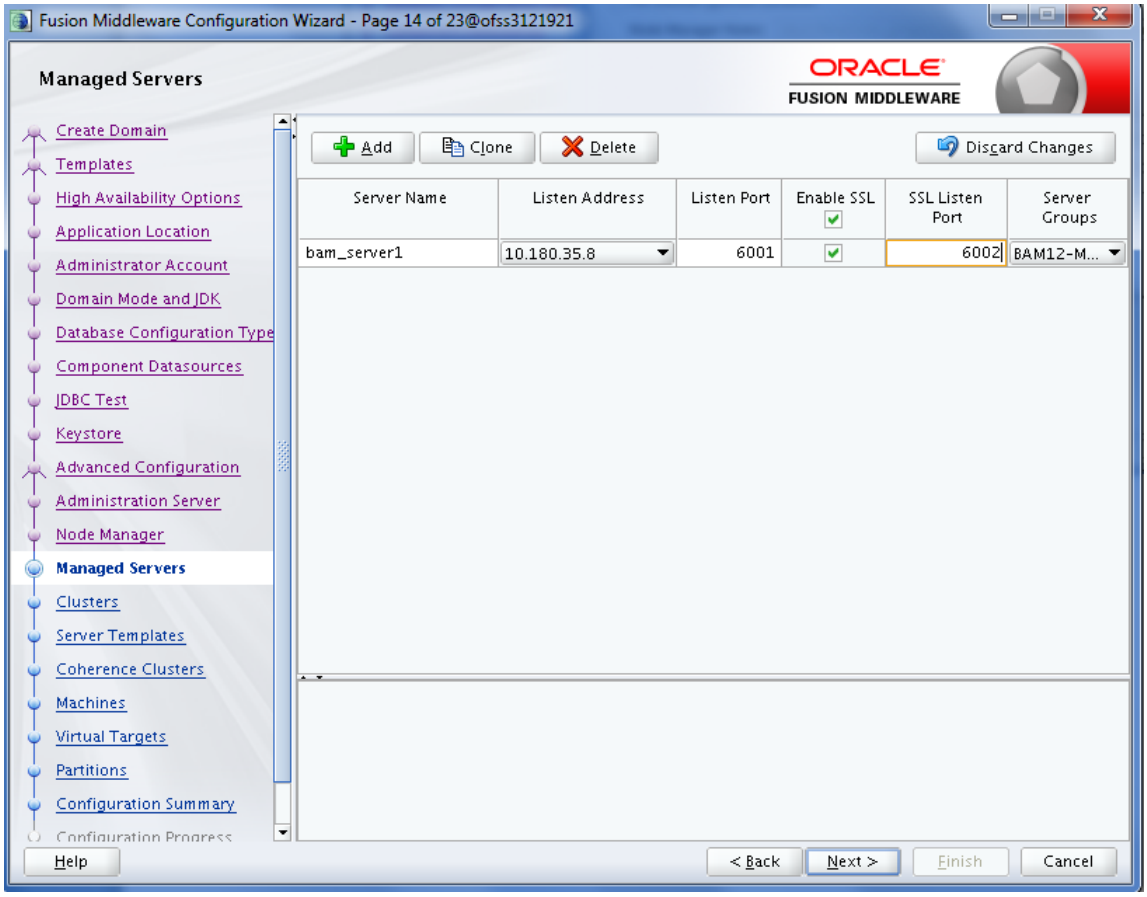
16. In the **Node Manager** page, provide user name and password for node manager, and then click **Next.**

Figure 6–13 Node Manager page



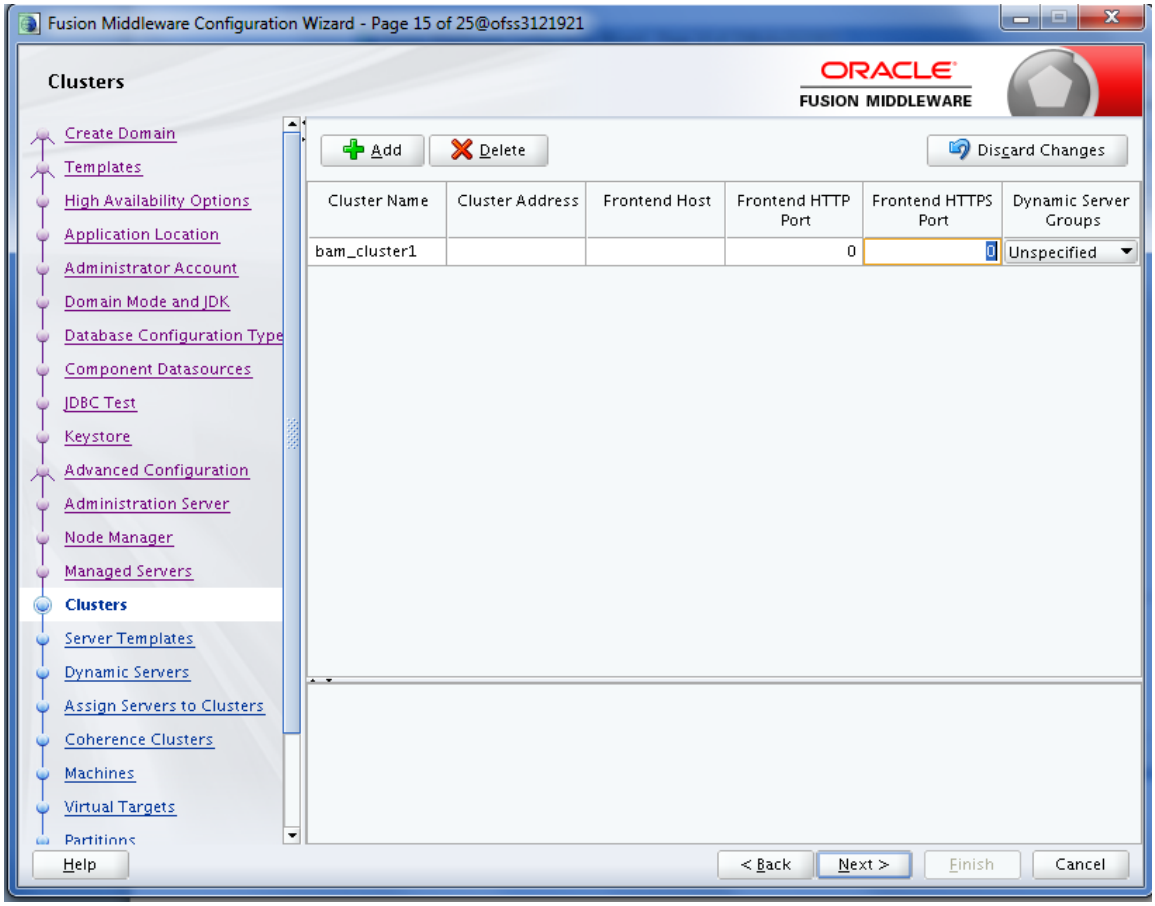
17. In the **Managed Servers** page, add BAM server (bam_server1).

Figure 6–14 Managed Servers page



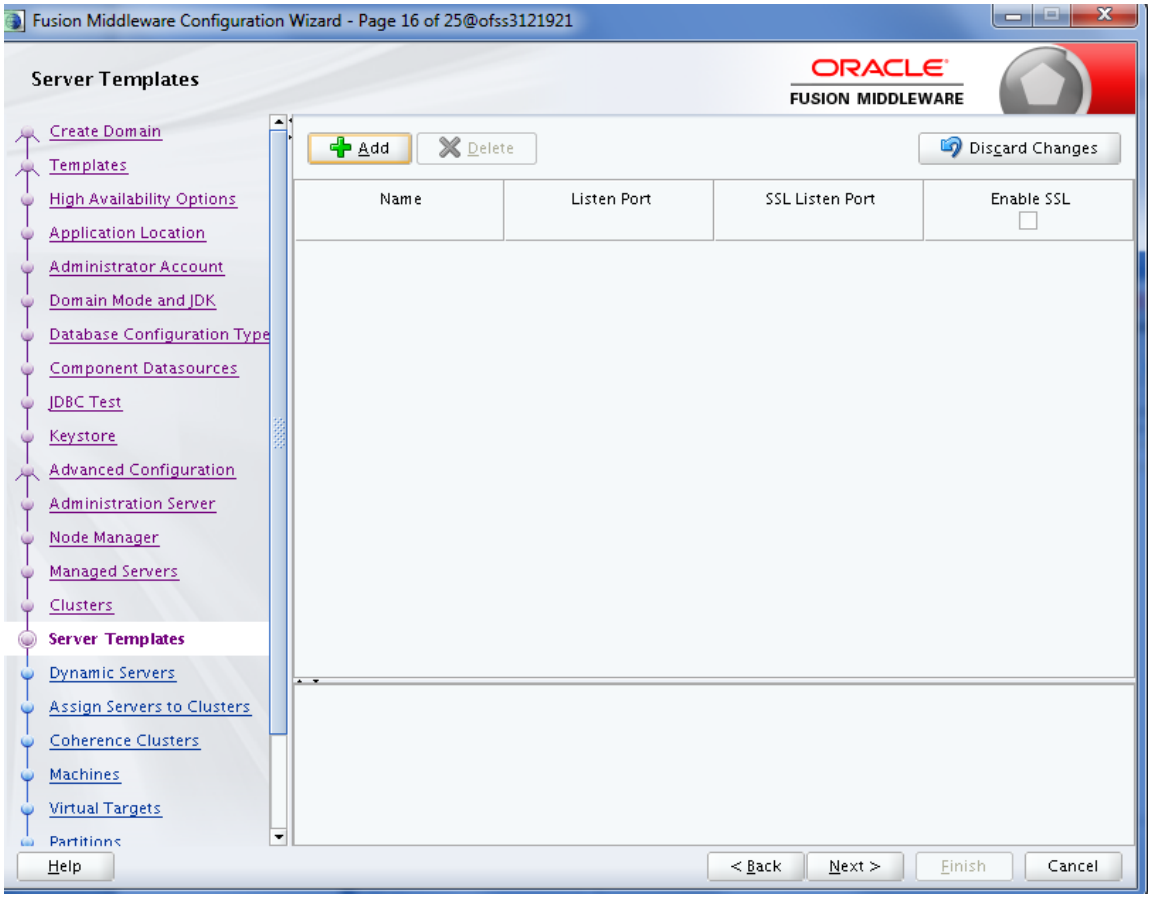
18. Click **Next.**
19. In the **Clusters** page, add BAM cluster and then click **Next.**

Figure 6–15 Clusters page



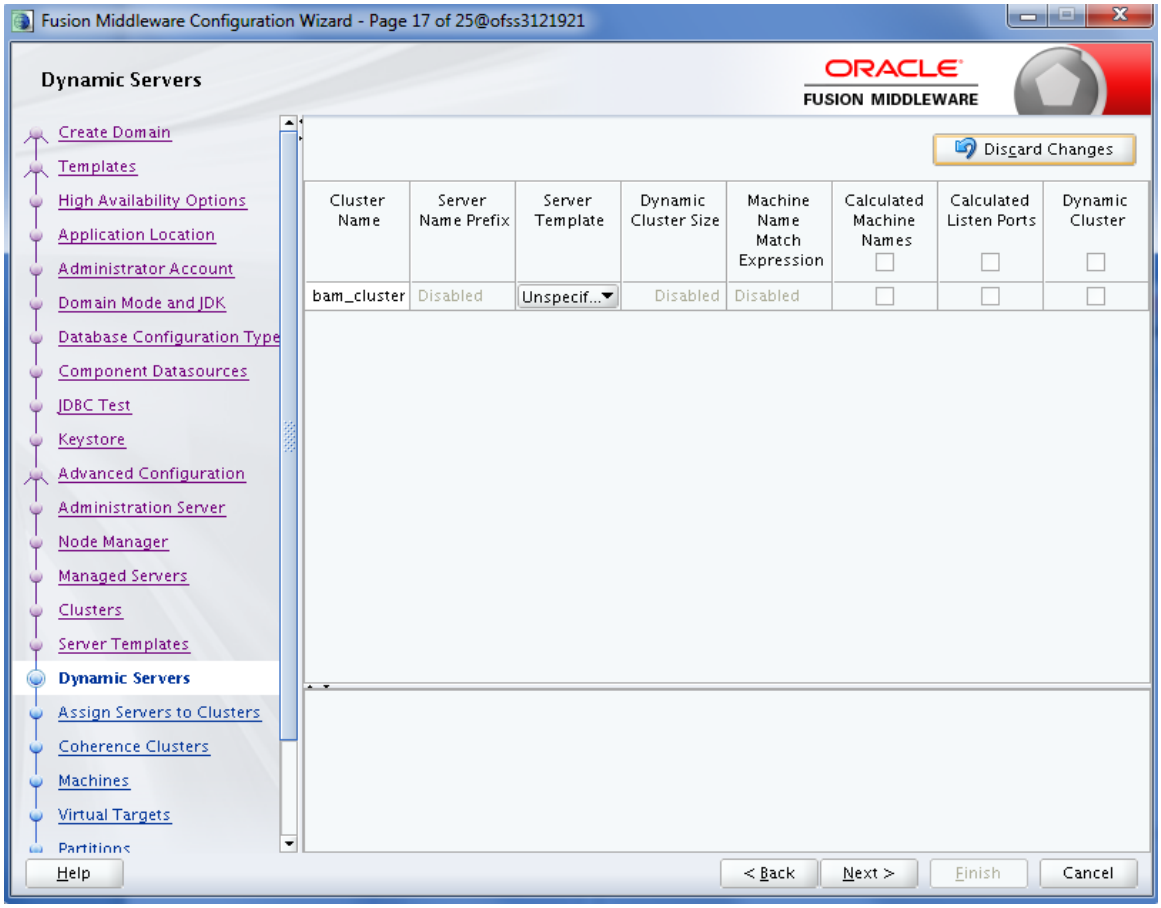
20. In the **Server Templates** page, click **Next**.

Figure 6–16 Server Templates page



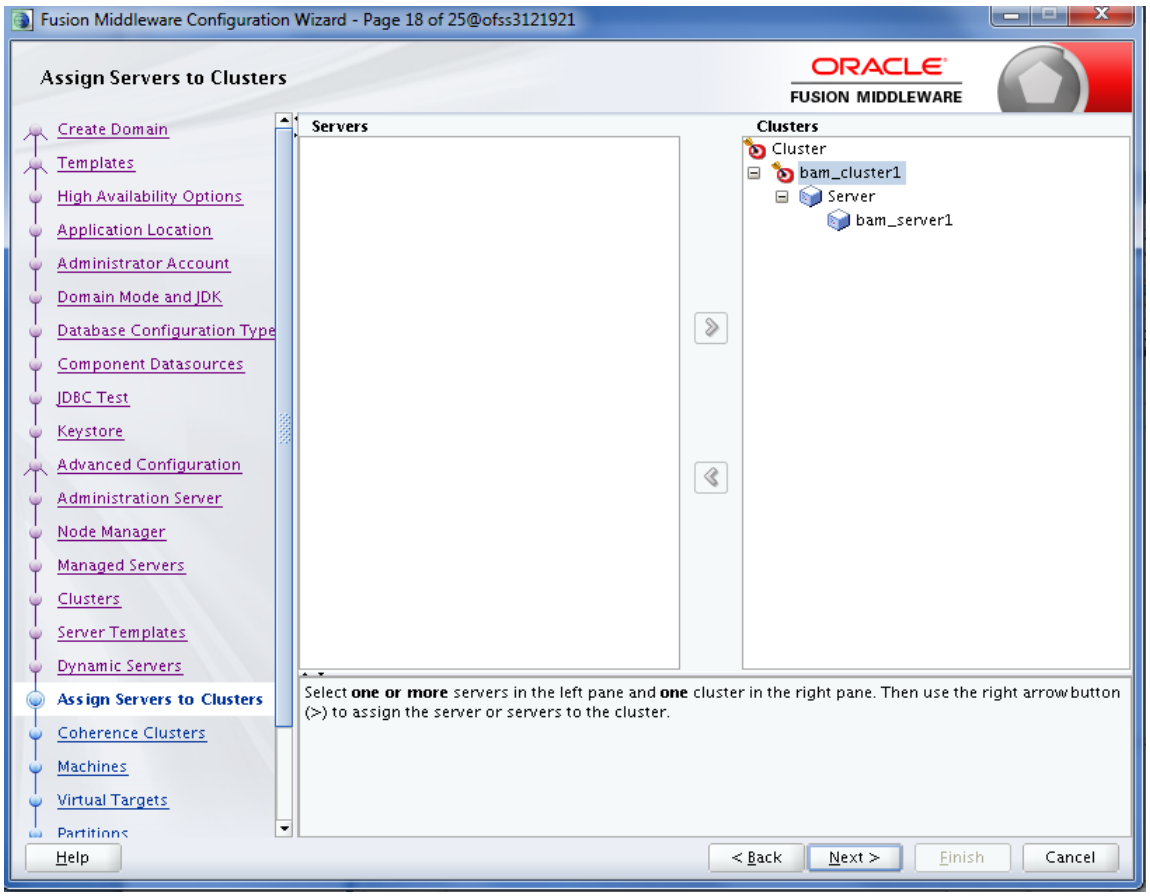
21. In the **Dynamic Servers** page, click **Next**.

Figure 6–17 Dynamic Servers page



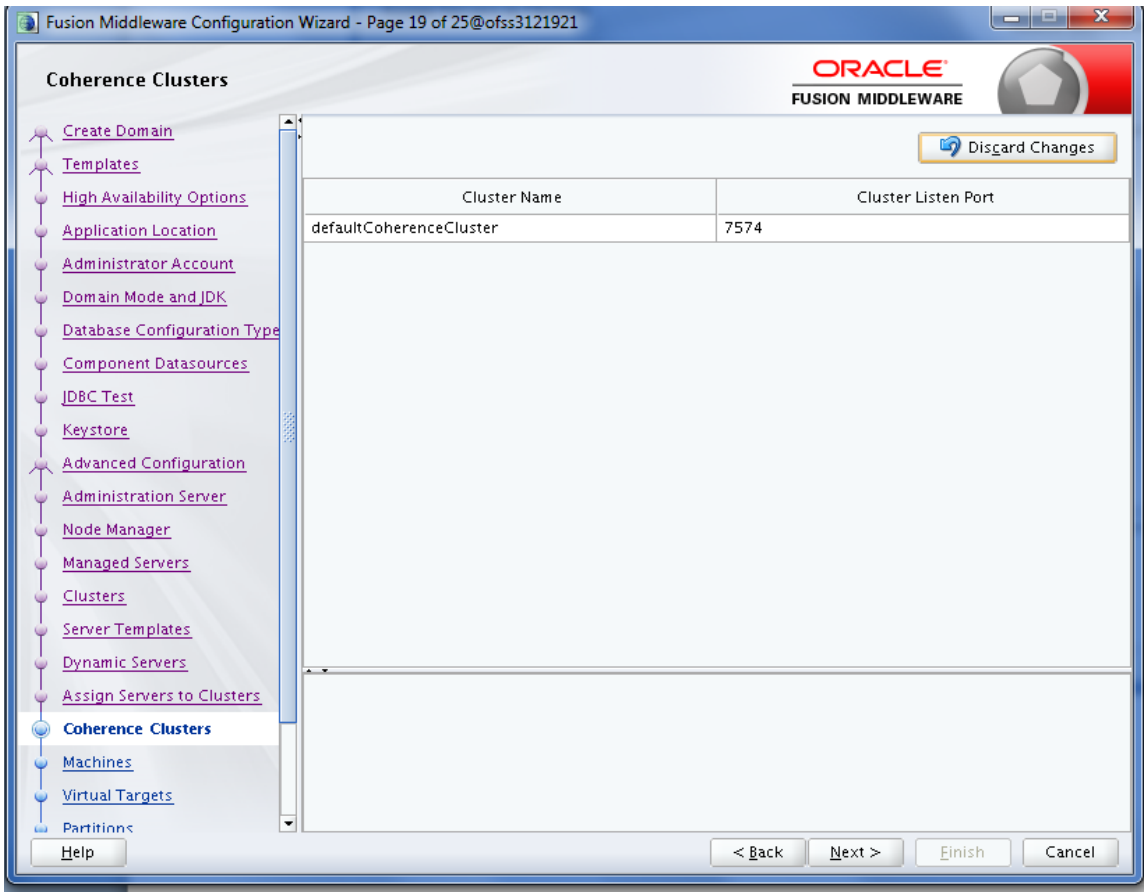
22. In the **Assign Servers to Clusters** page, add BAM server to BAM cluster and click **Next.**

Figure 6–18 Assign Servers to Clusters page



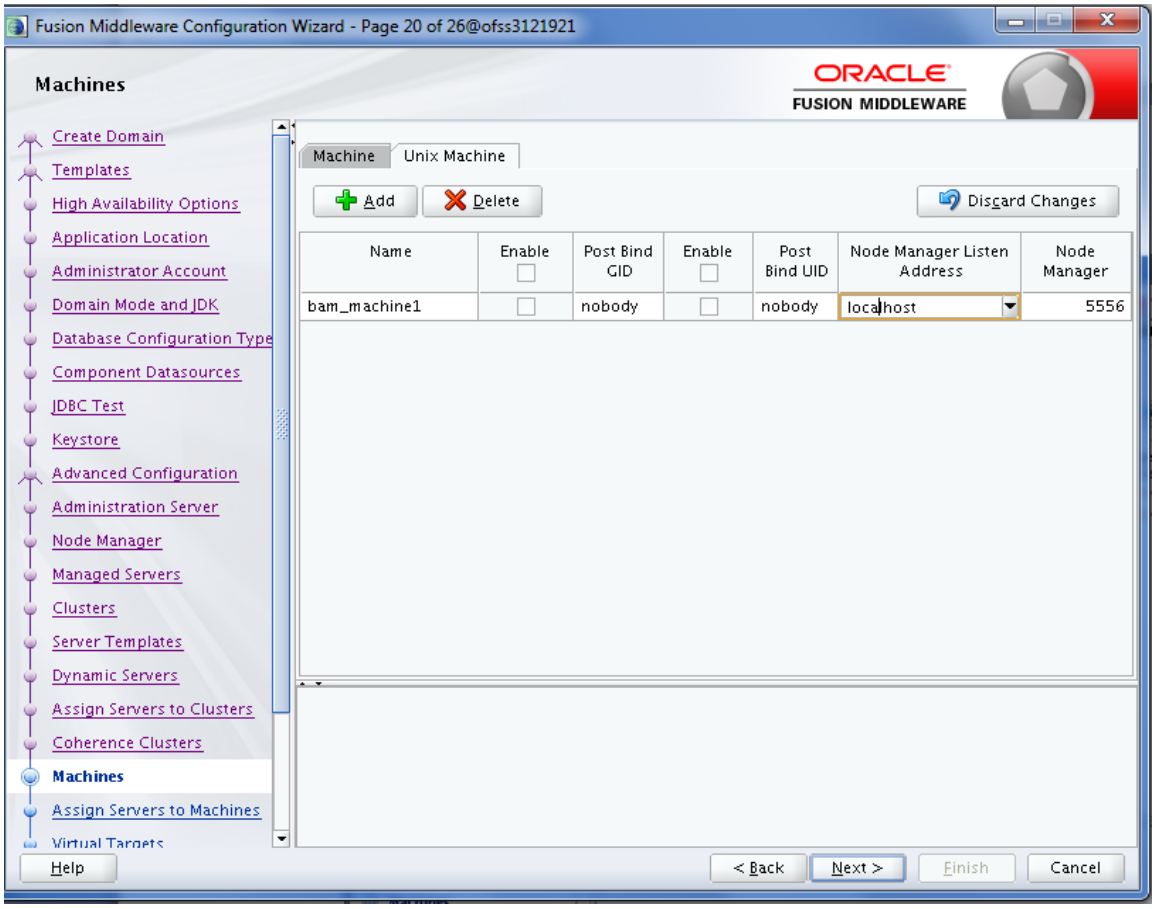
23. In the **Coherence Clusters** page, click **Next.**

Figure 6–19 Coherence Clusters page



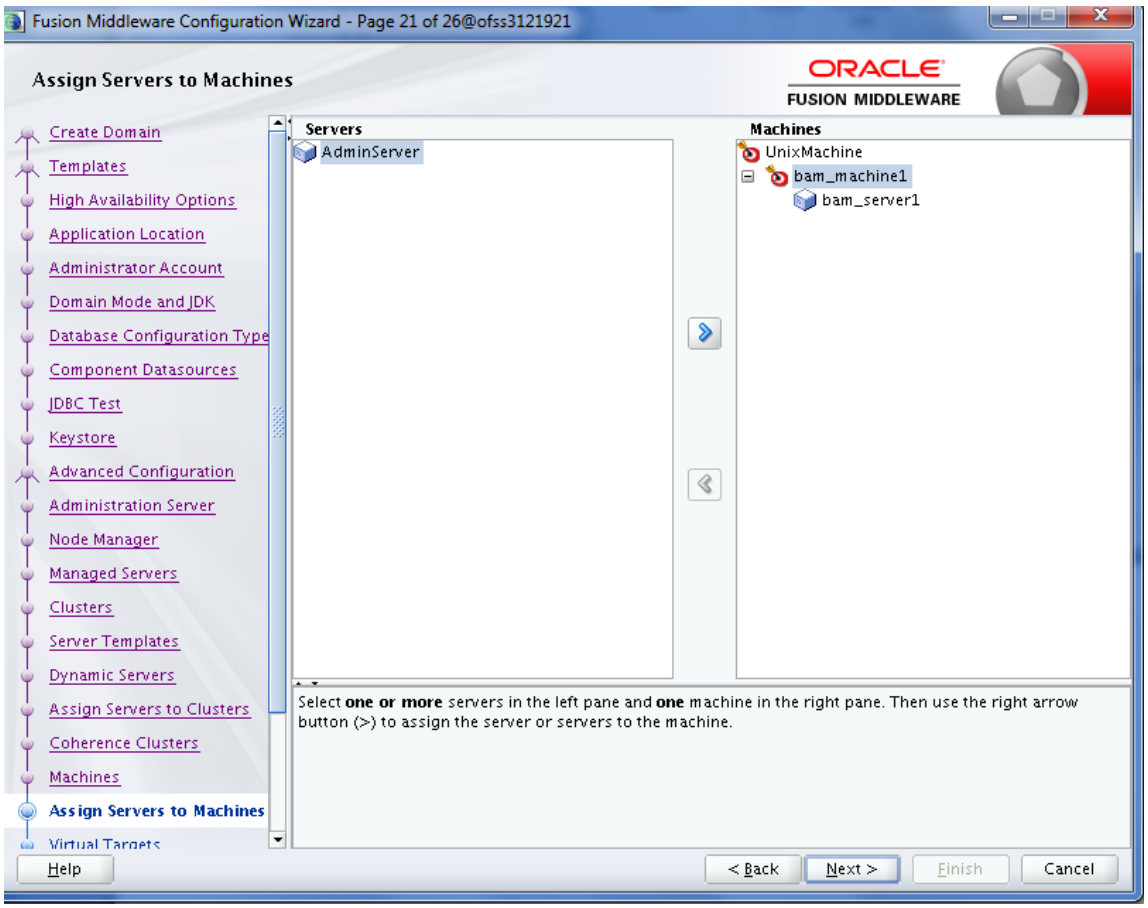
24. In the **Machines** page, add BAM machine and click **Next.**

Figure 6–20 Machines page



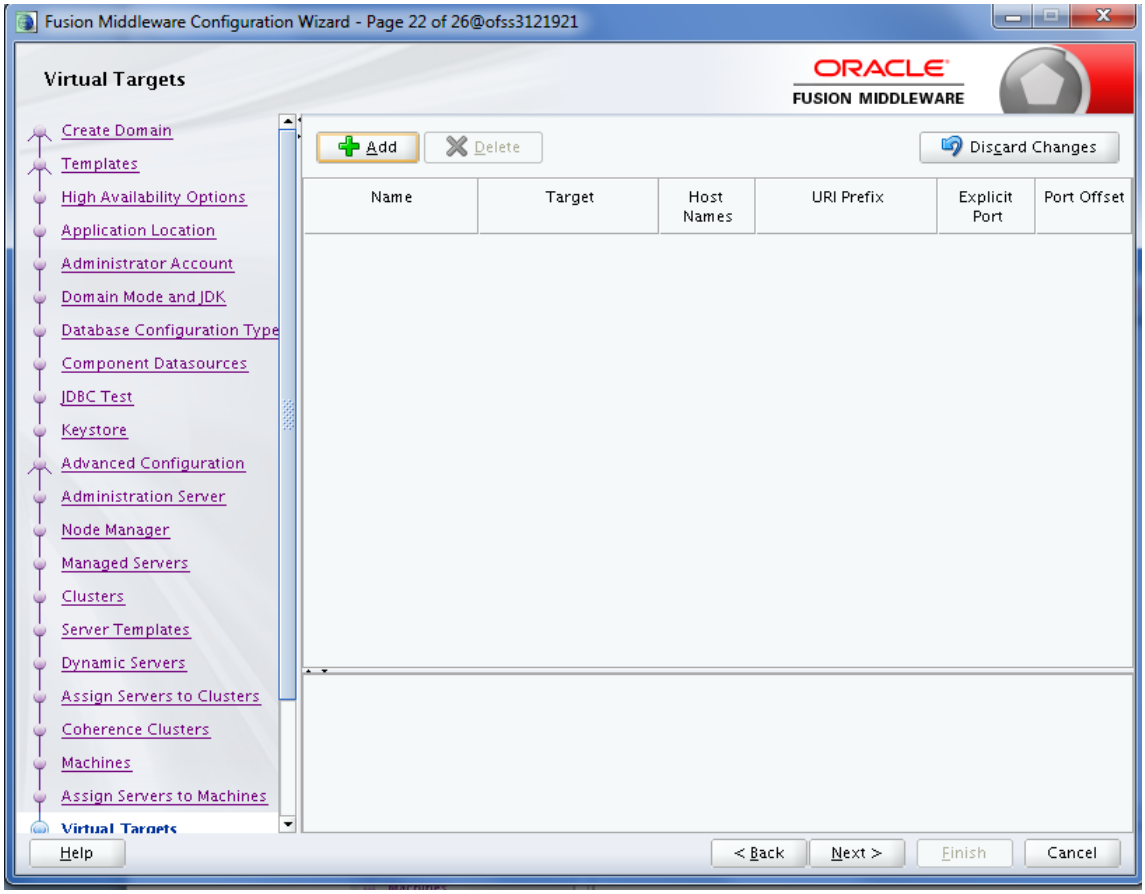
25. In the Assign Servers to Machines page, add BAM server to BAM machine and click **Next.**

Figure 6–21 Assign Servers to Machines page



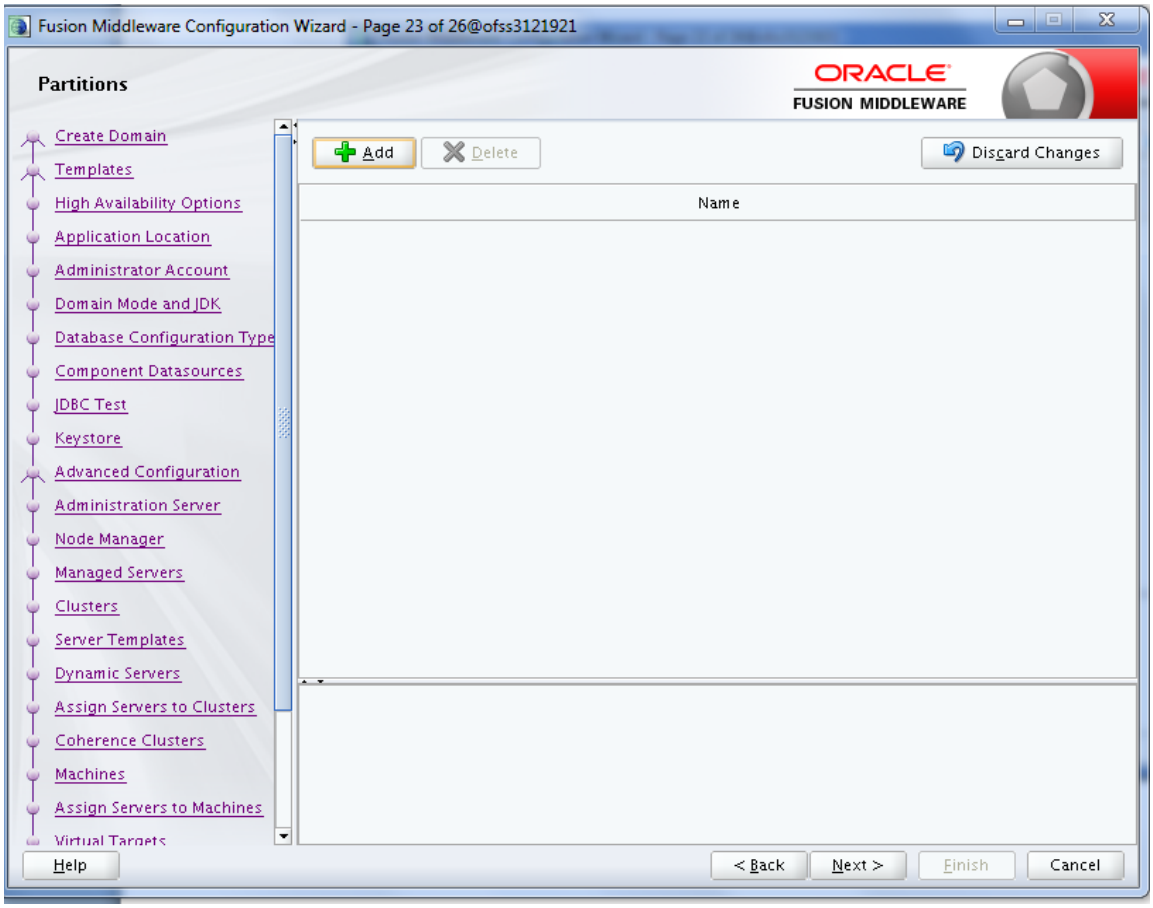
26. In the **Virtual Targets** page, click **Next.**

Figure 6–22 Virtual Targets page



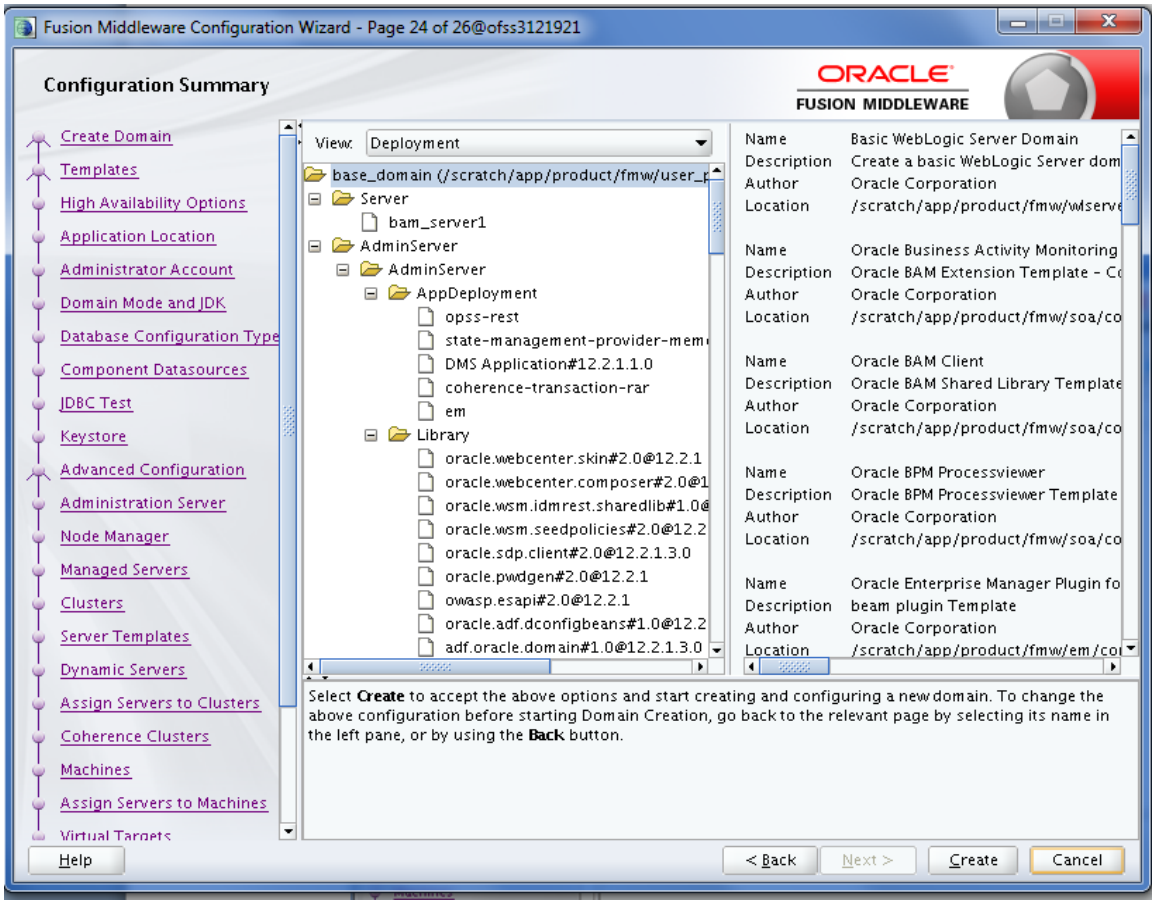
27. In the **Partitions** page, click **Next.**

Figure 6–23 Partitions page



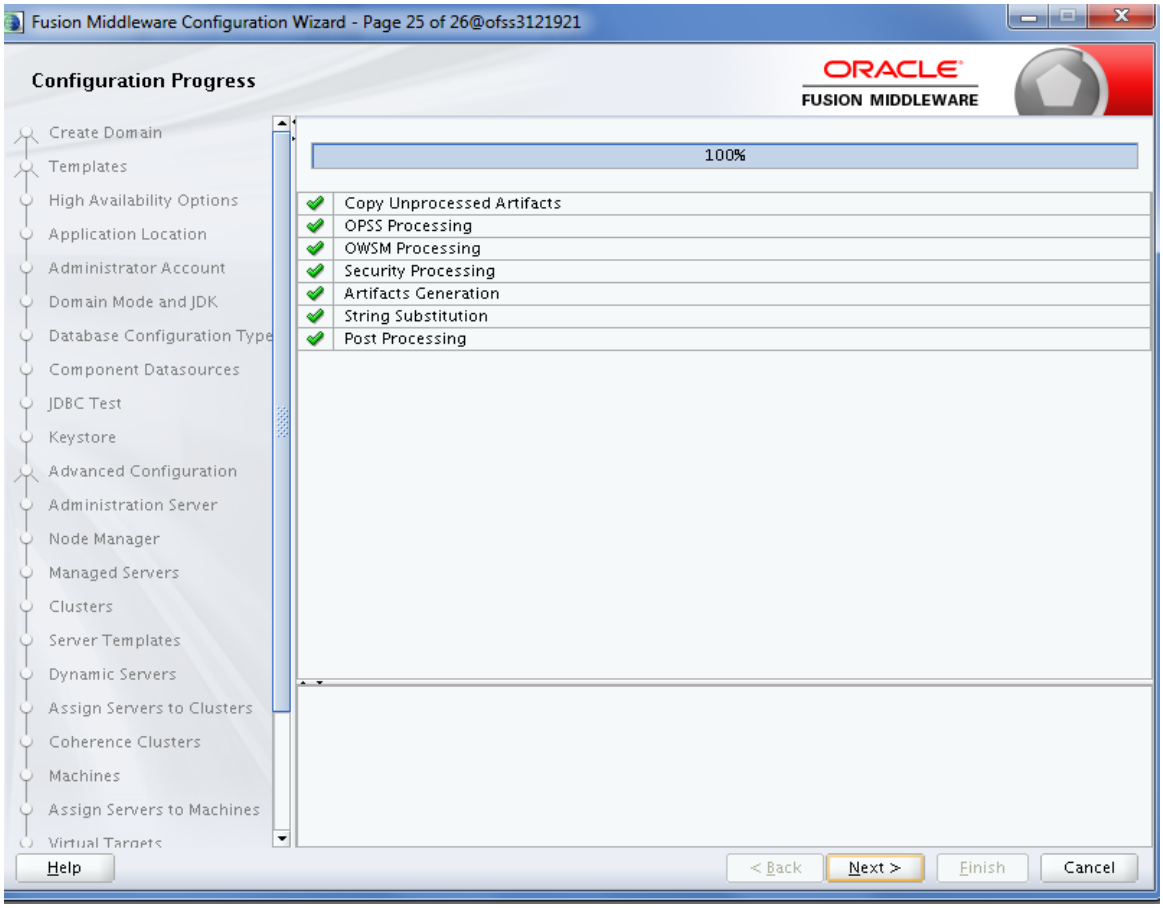
28. In the **Configuration Summary** page, click **Create**.

Figure 6–24 Configuration Summary page



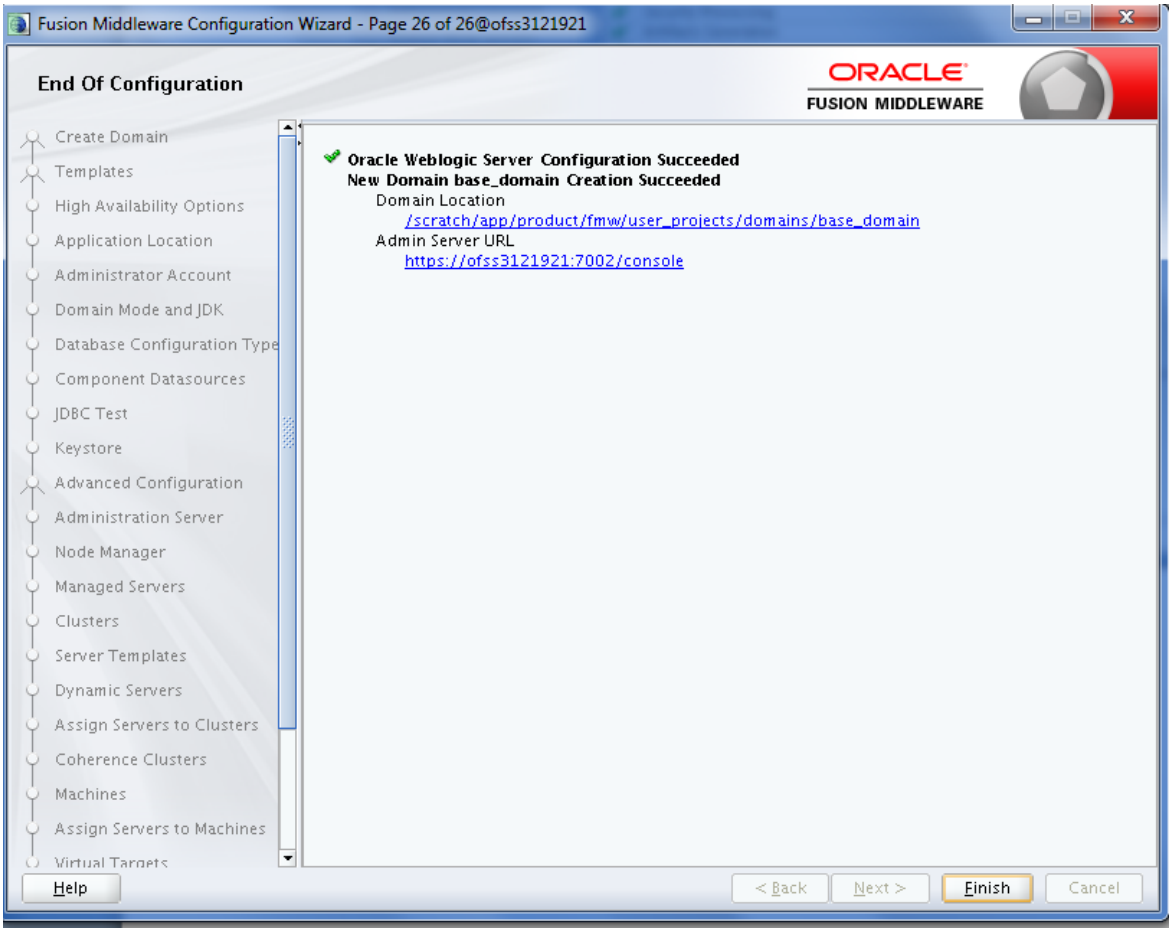
29. In the **Configuration Progress** page, once the progress bar is 100%, click **Next**.

Figure 6–25 Configuration Progress page



30. In the **End of Configuration** page, click **Finish**.

Figure 6–26 End of Configuration page



6.2 Post Installation Configuration

This section describes the post installation configuration procedure for BAM using OBEO UK Localization SOA Media Pack.

Checklist for Post Installation Procedure

Before proceeding with the post installation, ensure the following:

1. Apply the grant on middleware home through WLST.

   ```
   grantPermission(appStripe=None, principalClass=None,
   principalName=None, codeBaseURL='file:/<middleware_home>/-',
   permClass='java.security.AllPermission', permTarget=None,
   permActions=None)
   ```

   Example:

   grantPermission(appStripe=None, principalClass=None, principalName=None, codeBaseURL='file:/scratch/app/product/fmw/-', permClass='java.security.AllPermission', permTarget=None, permActions=None)

2. Start the admin server.

```
$cd <MIDDLEWARE_HOME >/user_projects/domains/domain_name/bin
$./startWeblogic.sh
```

3. Start the managed server "bam_server1".

```
$cd <MIDDLEWARE_HOME>/user_projects/domains/domain_name/bin
$./startManagedWebLogic.sh <managed server name>
t3://localhost:<admin server port>
```

Post Installation Configuration

Perform the following steps.

1. Copy the “obpuk-ui-soa.zip” file to a machine where BAM domain is created.
2. Unzip the “obpuk-ui-soa.zip” file. Following three files will be extracted:
   - Namely a zip file “obpinstall-ui-soa.zip”
   - Installation script “installobpsoa.sh”
   - Install configuration property file “installobpsoa.properties”
3. Create a folder called target and unzip obpinstall-ui-soa.zip file.
4. Create a folder called obpinstall/obp/ob.bam under < BAM_MW_HOME >.
5. Unzip bam.zip under < BAM_MW_HOME >/obpinstall/obp/ob.bam/.
6. Update the following values in BAMCommandConfig.xml.tmpl present under target folder:

```
<host>#BAM_SERVER_LISTEN_ADDRESS#</host>
<port>#BAM_SERVER_LISTEN_PORT#</port>
<username>#WEBLOGIC_USERNAME#</username>
<password>#WEBLOGIC_PASSWORD#</password>
<dbusername>#SOA_INFRASTRUCTURE_SCHEMA_USER#</dbusername>
<dburl>jdbc:oracle:thin:@#DB_IP#:#DB_PORT#:#DB_SERVICE_
NAME#</dburl>
```

7. Copy BAMCommandConfig.xml.tmpl to $BAM_MW_HOME/soa/bam/bin/BAMCommandConfig.xml
8. cp –r BAMCommandConfig.xml.tmpl $BAM_MW_HOME/soa/bam/bin/BAMCommandConfig.xml
9. EXPORT BAM_MW_HOME=/scratch/app/product/fmw
10. Go to target directory and execute below command.

```
chmod 777 bam.sh
sh bam.sh $BAM_MW_HOME
```

11. Restart the bam managed server "bam_server1".

```
$cd <MIDDLEWARE_HOME>/user_projects/domains/domain_name/bin
$./startManagedWebLogic.sh <managed server name>
t3://localhost:<admin server port>
```

12. Log in to BAM Composer http: //$IP:PORT/bam/composer/faces/login.

Figure 6–27 BAM Composer page

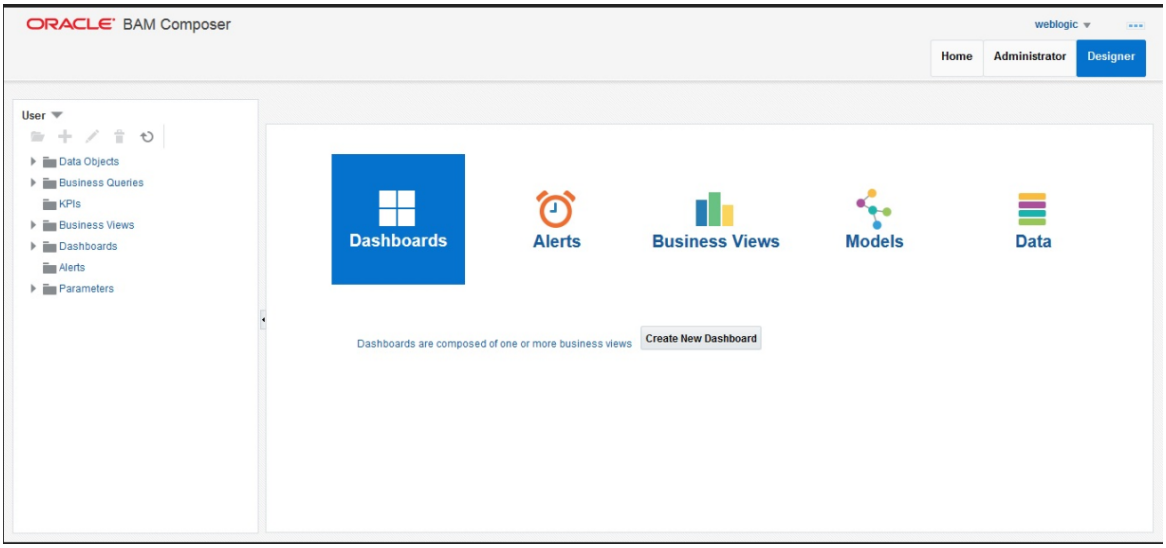


Figure 6–28 BAM Composer page (contd)

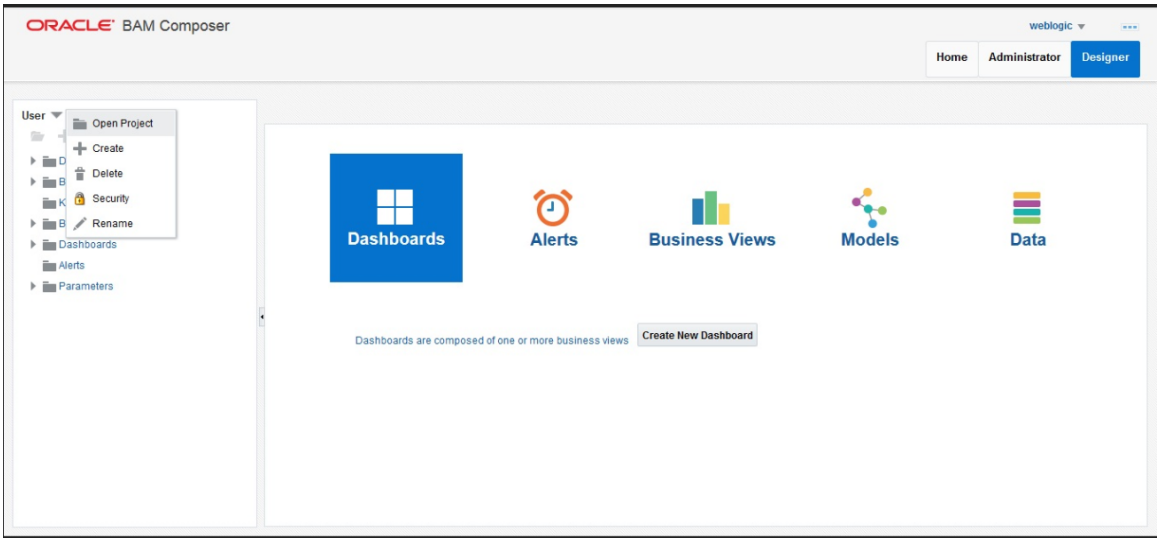
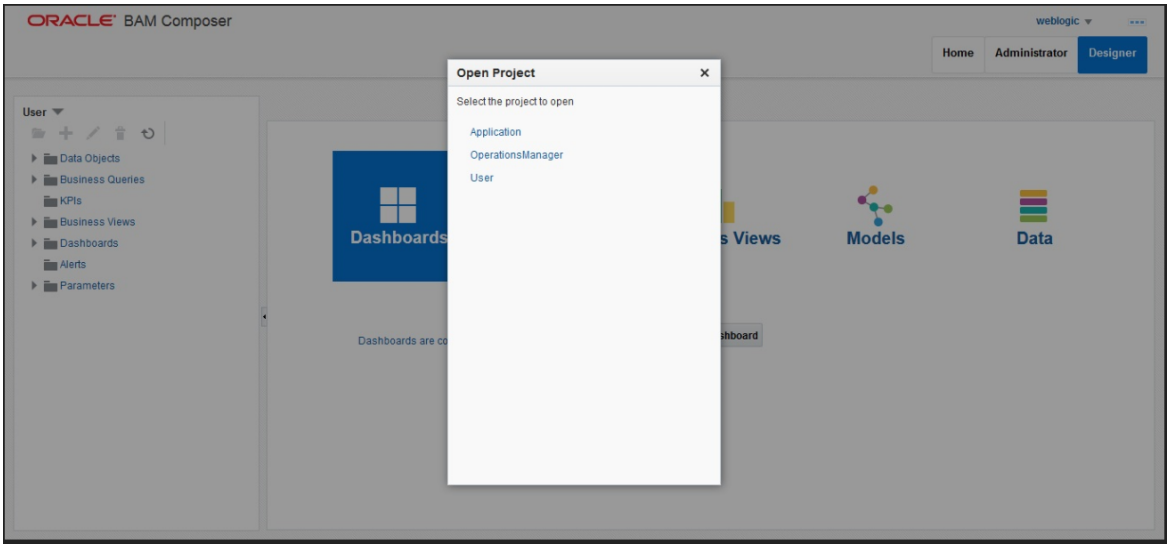


Figure 6–29 BAM Composer page



7 Standalone Database Setup

This chapter details the steps involved in setting up Oracle Banking Enterprise Originations database.

7.1 Pre-Installation Steps

The following steps should be completed prior to the process of executing the installation steps for the Oracle Banking Enterprise Originations DB mentioned in Section 7.2 OBEO Database Setup – RCU Installation:

1. Oracle Database Enterprise Edition 12.2.0.1.0 is installed on the database server.
2. Obtain the tar file dbScripts_uk.tar.gz (present in obpuk-host.zip) from OBEO Host localization media pack and copy it onto the database server.
3. Ensure that the ONS service is started after DB installation where the OBEO Application schema needs to be created.

7.2 OBEO Database Setup – RCU Installation

The steps that should be performed to create the OBEO Host DB schema are provided in Section 7.3.1 Host DB Schema Creation and Verification

For other RCU schemas, while installing software on HOST, UI, and SOA, specific RCU should execute to create schemas for SOA, UI, and HOST.

RCU utility is present under <MW_HOME/oracle_common/bin> for respective components.

Following is the list of schemas to be created for SOA, UI, and HOST, respectively (note that SOA, UI and HOST are the prefix in below schemas which is given during schema creation).

- SOA_SOAINFRA
- SOA_MDS
- SOA_STB
- SOA_UMS
- SOA_OPSS
- SOA_IAU_APPEND
- SOA_IAU_VIEWER
- SOA_WLS_RUNTIME

- UI_STB
- UI_OPSS
- UI_MDS
- UI_IAU_APPEND

- UI_IAU_VIEWER
- UI_WLS_RUNTIME

- HOST_STB
- HOST_OPSS
- HOST_IAU_APPEND
- HOST_IAU_VIEWER
- HOST_MDS
- HOST_WLS_RUNTIME

UI_MDS and UI_STB schemas are used by UI component.

HOST_MDS and HOST_STB schemas are used by HOST component.

SOA_SOAINFRA, SOA_STB, SOA_MDS and SOA_UMS schemas are used by SOA component.

UI_OPSS and HOST_OPSS schemas are used for silent domain creation in pre installation by UI and HOST respectively.

SOA_OPSS, SOA_IAU_APPEND and SOA_IAU_VIEWER schemas are shared by HOST and UI also pointed during post installation of HOST and UI.

Increase the size of tablespace (at least 6GB and should be in auto extend mode on) for SOA_MDS, SOAINFRA and OPSS schema used for SOA domain creation.

7.3 OBEO Database Installation

This section includes steps for application schema creation along with execution of its ddl and seed. Also it includes system configuration database update and table partitioning.

7.3.1 Host DB Schema Creation and Verification

For the host db schema creation, copy the dbScripts_uk.tar.gz file (present in obpuk-host.zip) from OBEO Host media pack location to any machine where sqlplus is available.

Untar the file which contains createobp.sql, ddl and seed file and folders. (TNS entry of the host db may be required in that machine to enable connectivity from the machine to the host db server.)

In createobp.sql, Replace &&1,&&2 and &&3 with schema, password, and tablespace name.

Before executing createobp.sql, make sure tablespace is created in the database.

The createobp.sql will create application schema with required database grants.

createobp.sql execution

```
PROMPT> sqlplus sys/password@TNSEntryOfDB as sysdba @createobp.sql
```

7.3.2 HOST DB schema ddl execution

Now open command prompt and navigate inside “ddl” folder in the machine where it has been copied. Then run the following using the actual details of host db schema while was created.

Connect to application schema (which is created using createobp.sql) using sqlplus

```
PROMPT> sqlplus schemauser/password@TNSEntryOfDB @ddl/SCHEMA_
DDL.sql
```

The example assumes that the seed is being executed from “D:\ORACLE” folder of a Windows machine having sqlplus console available for execution of sql commands and scripts.

```
C:> D:
C:> cd D:\ORACLE
D:\ > sqlplus DEV_OBP/welcome1@OBPDB
D:\ >@ddl/SCHEMA_DDL.sql
```

The following verification steps can be executed to check that the Database setup is complete:

1. Verify that the new tablespace is created.
2. Log on to the database with user id created.
3. Execute the query “select * from tab;” on the sql prompt to verify that the OBP tables are present.

7.3.3 HOST DB Schema Seeding

This section provides information on the Host Database Schema Seeding. The procedure is as follows:

Now open command prompt and navigate inside the 'seed' folder in the machine where it has been copied. Run the following commands using the actual details of host db schema which was created.

```
PROMPT> sqlplus schemauser/password@TNSEntryOfDB @seed.sql
```

For example, assume that the seed is being executed from 'D:\seed' folder of a Windows machine having sqlplus console available for execution of sql commands and scripts.

```
C:> D:
C:> cd D:\seed
D:\seed > sqlplus DEV_OBP/welcome1@OBPDB
D:\seed >@seed.sql
```

It will take some time to completely execute all the seed scripts. It will ask for some inputs at the time of seeding, just press Enter to continue. When OBEO DB seeding is completed, the control will return to the sql prompt.

Note

If you are going to install localization on top of product, DO NOT execute ddl and seed of product, execute ddl and seed which are present under localization host mediapack in form of dbScripts_uk.tar.gz.

7.3.4 System Configuration DB Update Script Execution

After the host db schema has been created successfully, copy the 'updateSystemDetails.sql' file from 'SOA_MW_HOME' location to any machine where 'sqlplus' is available. (TNS entry of the host db may be required in that machine to enable connectivity from the machine to the host db server).

Now, open command prompt and navigate 'updateSystemDetails.sql' file in the local machine where it has been copied. Then run the following using the actual details of host db schema which was created.

```
PROMPT> sqlplus schemauser/password@TNSEntryOfDB @
updateSystemDetails.sql
```

For example, assume that the seed is being executed from 'D:\script' folder of a Windows machine having sqlplus console available for execution of sql commands and scripts.

```
C:> D:
C:> cd D:\script
D:\seed > sqlplus DEV_OBP@welcome1@OBPDBB
D:\seed >@updateSystemDetails.sql
```

7.3.5 Removing Preference Refresh Level

OBEO Preferences are held in the weblogic servers in the form of a cache which is refreshed at a configurable interval. As part of installation, the preferences are declared in a file called Preferences.xml in the "config" folder. These preference values are mostly technical in nature and are seldom changed in production.

Hence, majority of OBEO customers have configured to disable preference refresh. This is done by setting "syncTimeInterval" to -1 on the target preference. Customers should deliberate and take a decision on the preferences for which they wish to disable the refresh.

For example:

<Preference name="MiddlewareTaskMetadataDTOFieldConfig"

PreferencesProvider="com.ofss.fc.infra.config.impl.DBBasedPropertyProvider"

parent="jdbcpreference"

propertyFileName="SELECT SERVICE_ID || ':' || DTO_CLASS || ':' ||

COD_ATTR_ID valuekey, FIELD_NAME AS valuestring FROM flx_fw_mw_tasks_dto_map"

syncTimeInterval="-1" />

7.3.6 Database Table Partitioning

For Database Table Partitioning, execute the scripts present in Table_Partitioning.zip present in host.zip. Execute the script in sequence and follow the guidelines mentioned in the script.

1. OBP_PARTITION_TABLE.sql
2. OBP_PARTITION_TABLE_SEED.sql
3. APPLY_PARTITION.sql

8 OBEO and IPM Integration

This chapter details the steps involved in the integration of Oracle Banking Enterprise Originations and Oracle Imaging and Process Management (IPM).

OBEO integrates natively with Oracle IPM as the content management solution. Configuration information relevant from an OBEO point of view is provided in the following sections:

- Section 8.1 IPM Application Setup for OBEO Content Management
- Section 8.2 IPM Configuration for Bulk Upload Process Setup
- Section 8.3 IPM Report Upload Setup

The steps listed therein should be followed to configure IPM to facilitate it to integrate with OBEO. However, you can see the administration guide for Oracle IPM for details on how to manage connections, inputs and applications in IPM.

8.1 IPM Application Setup for OBEO Content Management

This is a mandatory configuration required on IPM to enable integration of OBEO with IPM for content management.

The following properties from the checklist should be used for creating connection profiles in the Manage Connections section. These connection profiles will be used while creating the applications on the next section on Manage Applications.

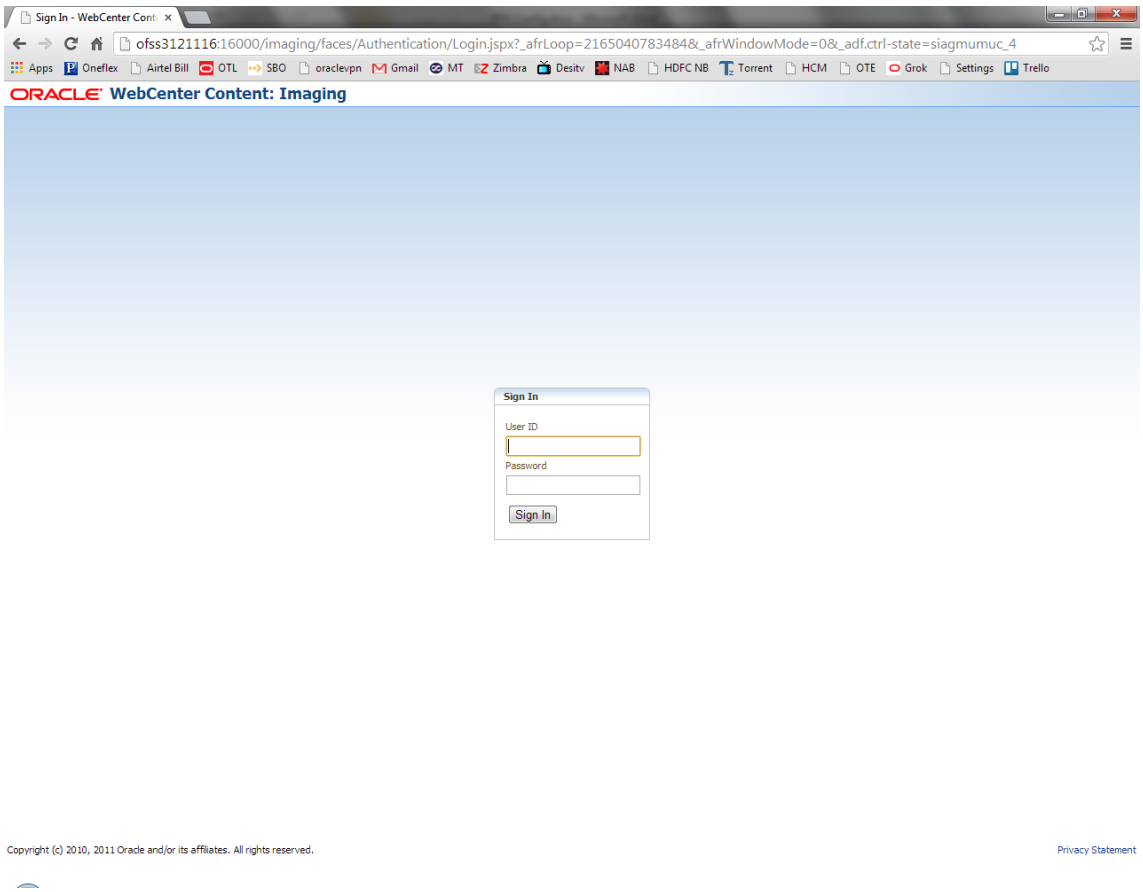
8.1.1 UCM Connection

The UCM connection is used to point to the underlying UCM Server where the documents are stored.

1. Log in to IPM imaging console through a URL such as follows:

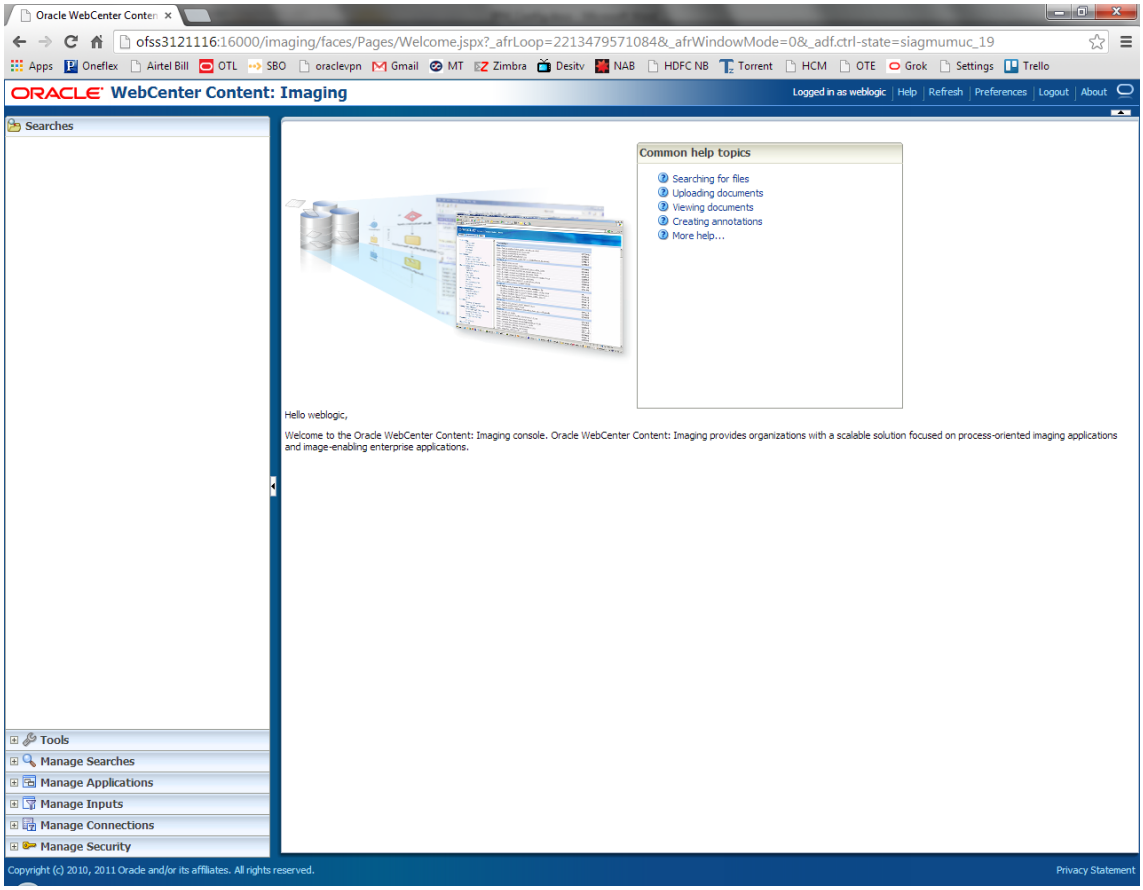
   http:// hostname:16000/imaging

Figure 8–1 IPM Imaging Console - Login page



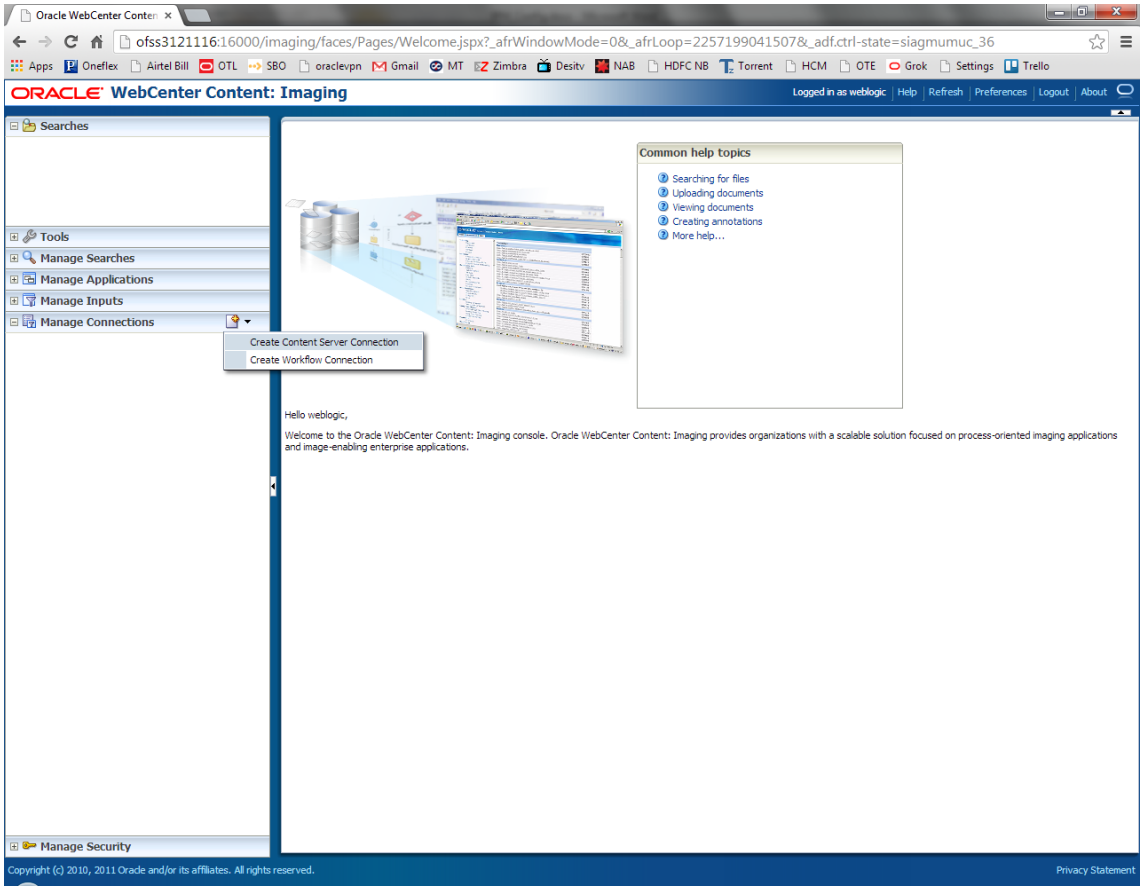
2. Enter the user ID and password set during IPM installation.

Figure 8–2 IPM - Welcome page



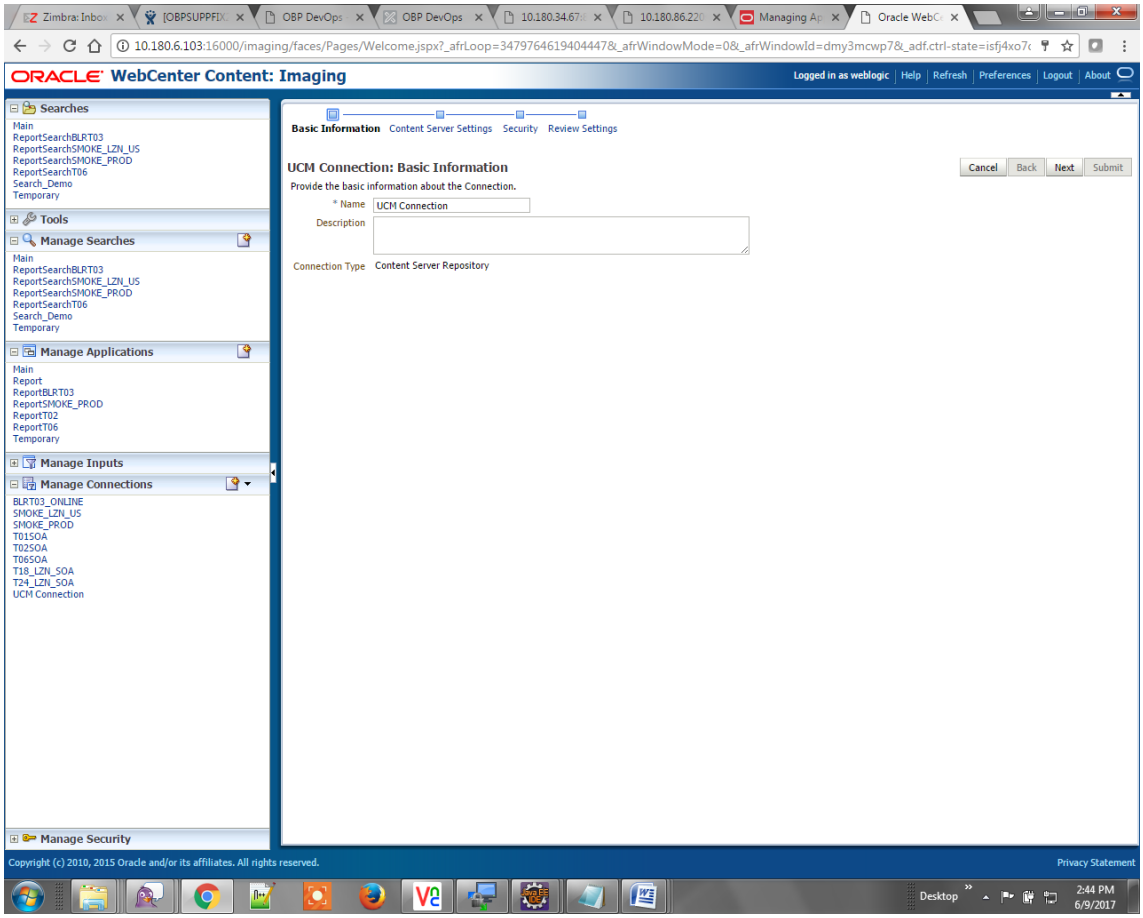
3. Navigate to Manage Connection and select Create Content Server Connection.

Figure 8–3 Create Content Server Connection



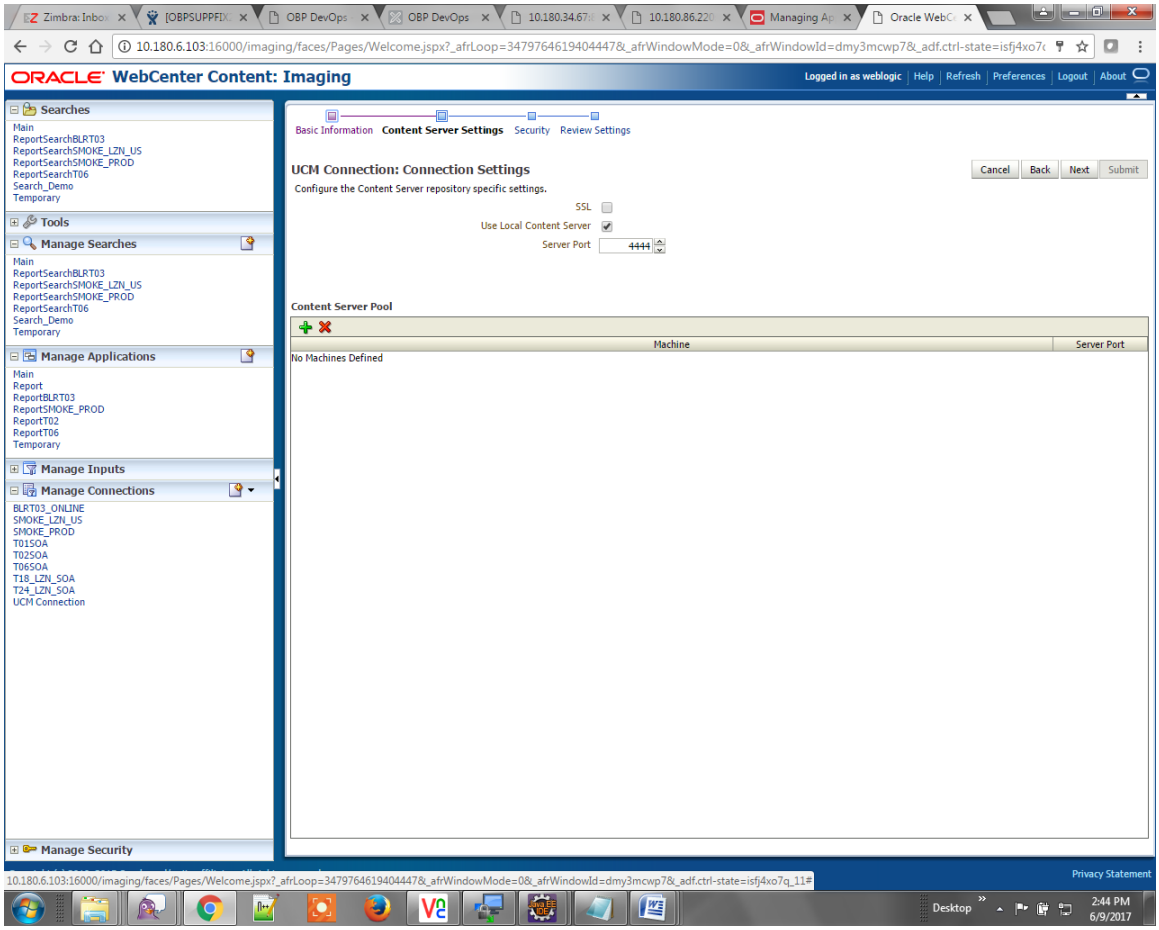
4. In the Basic Information stage, enter the name and description for Content Server Connection as UCM Connection and click Next.

Figure 8–4 UCM: Basic information



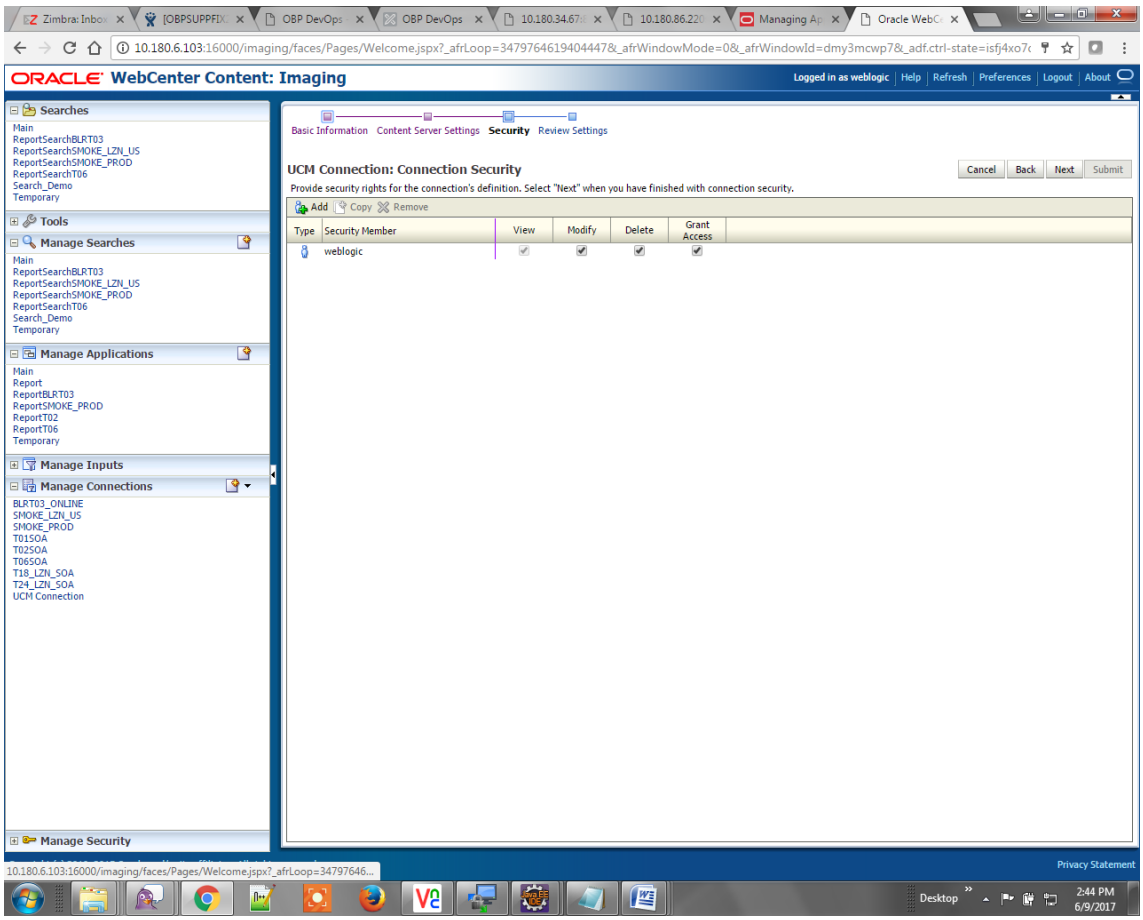
5. In the Content Server Settings page, select the Use Local Content Server check box and select the Server Port as 4444. Click Next.

Figure 8–5 UCM: Connection Settings



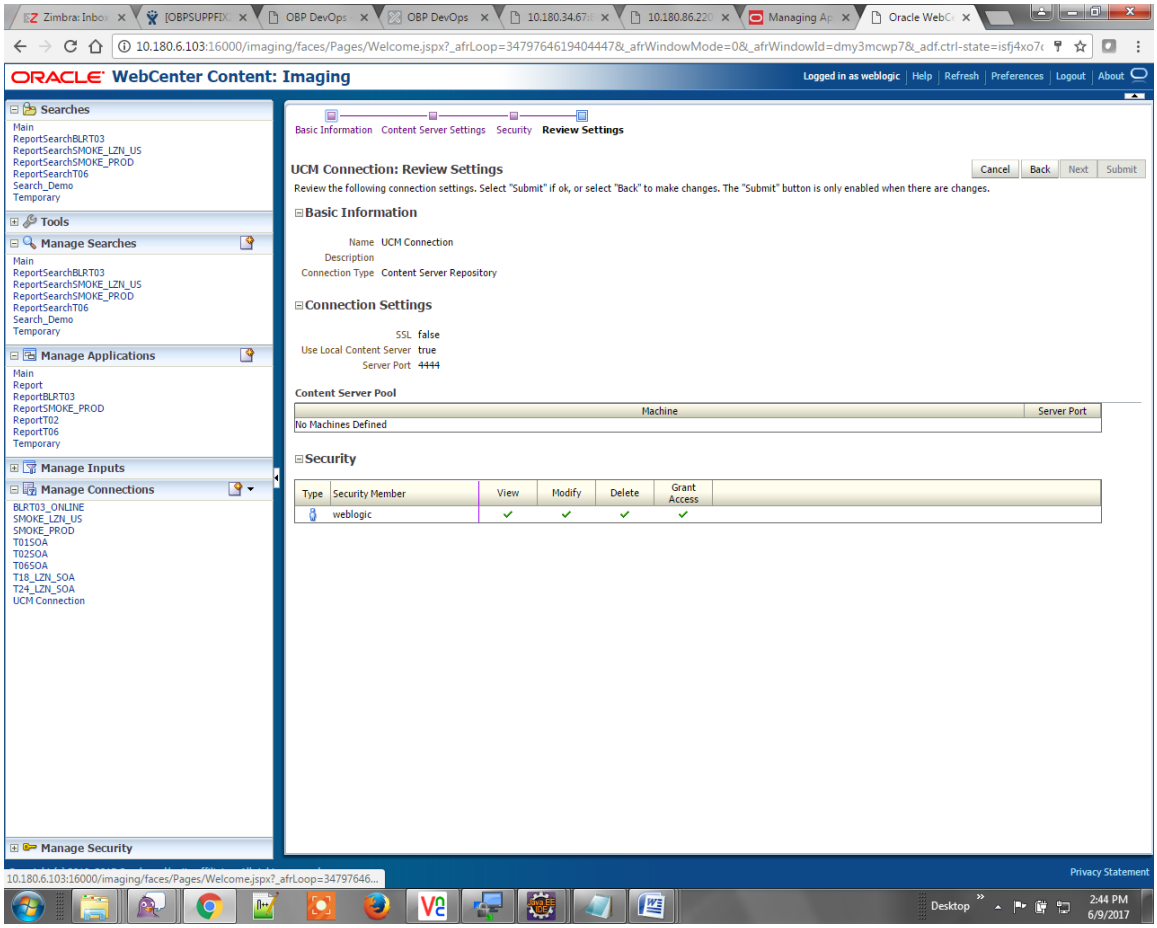
6. In the Security stage, select security rights for connection definition as shown below and click Next. If weblogic security member is not present, create it by clicking Add.

Figure 8–6 UCM: Connection Security



7. In the Review Settings stage, review the settings and click **Submit.**

Figure 8–7 UCM: Review Settings



8.1.2 Main Application Configuration

The documentation for Oracle IPM should be referred to for details on how to create applications in IPM. For more information, see https://docs.oracle.com/middleware/12213/wcc/admin-image/GUID-4A1A138D-FFEC-4FBB-A6D3-7F4FA4BDE06A.htm#IPMGA162.

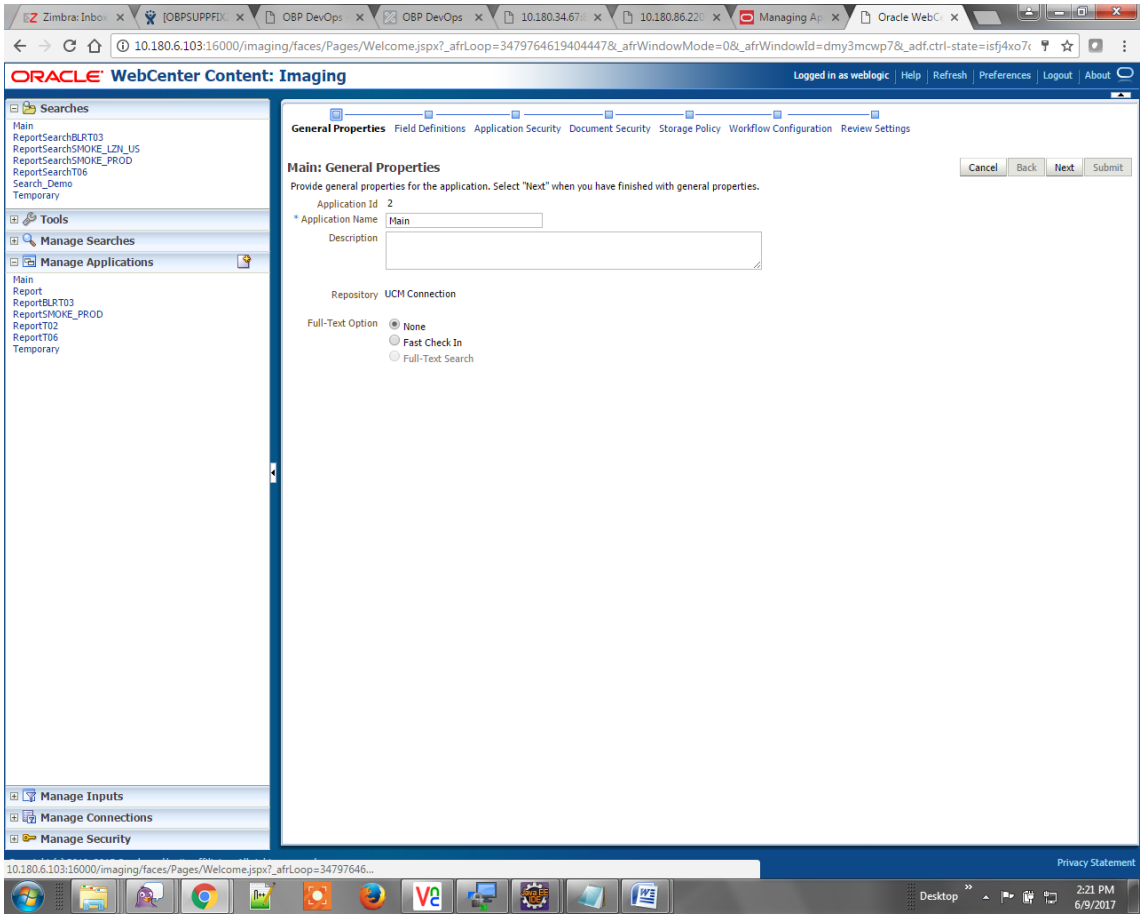
Create a main application and a temporary application in IPM.

8.1.2.1 Manage Application Configuration

To manage application configuration:

1. Select Create New Application option.
2. Enter the general properties and click **Next.**

Figure 8–8 Main: General Properties



3. Enter the field definition details and click **Next.**

Figure 8–9 Main: Field Definitions

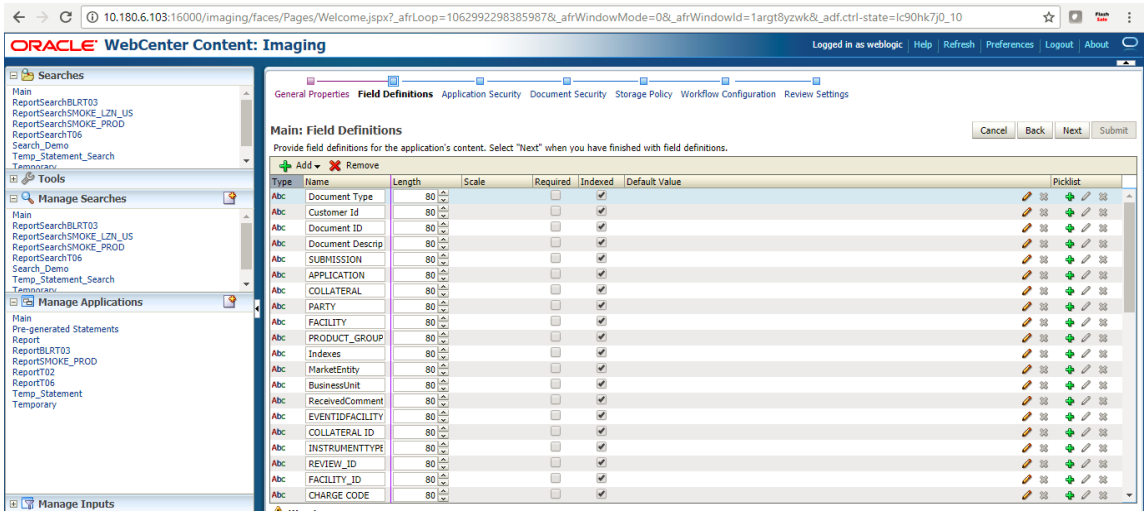
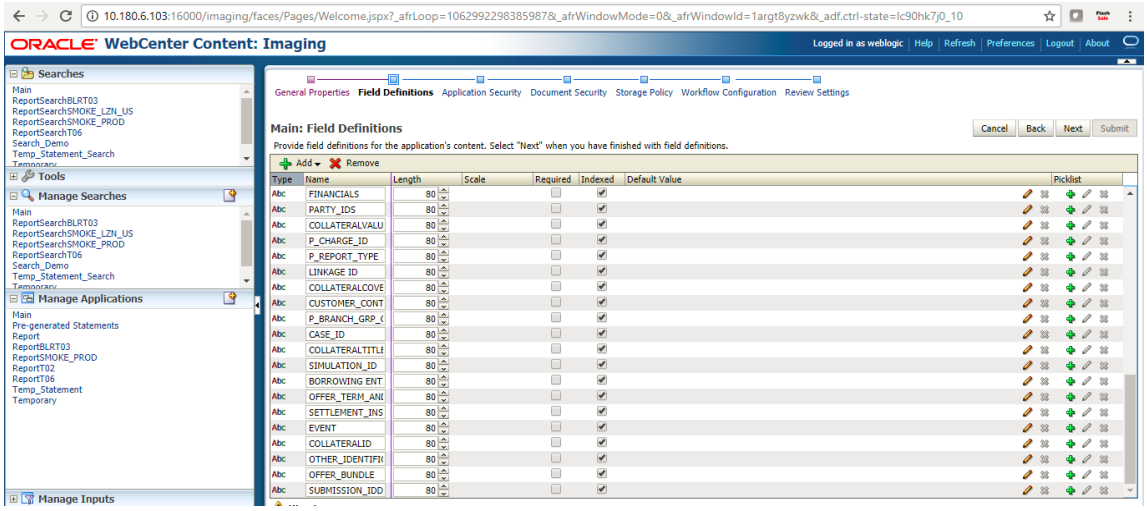


Figure 8–10 Field Definitions (cont.)



4. In Application Security and Document Security pages, select the access rights for users and click **Next.**

Figure 8–11 Main: Application Security

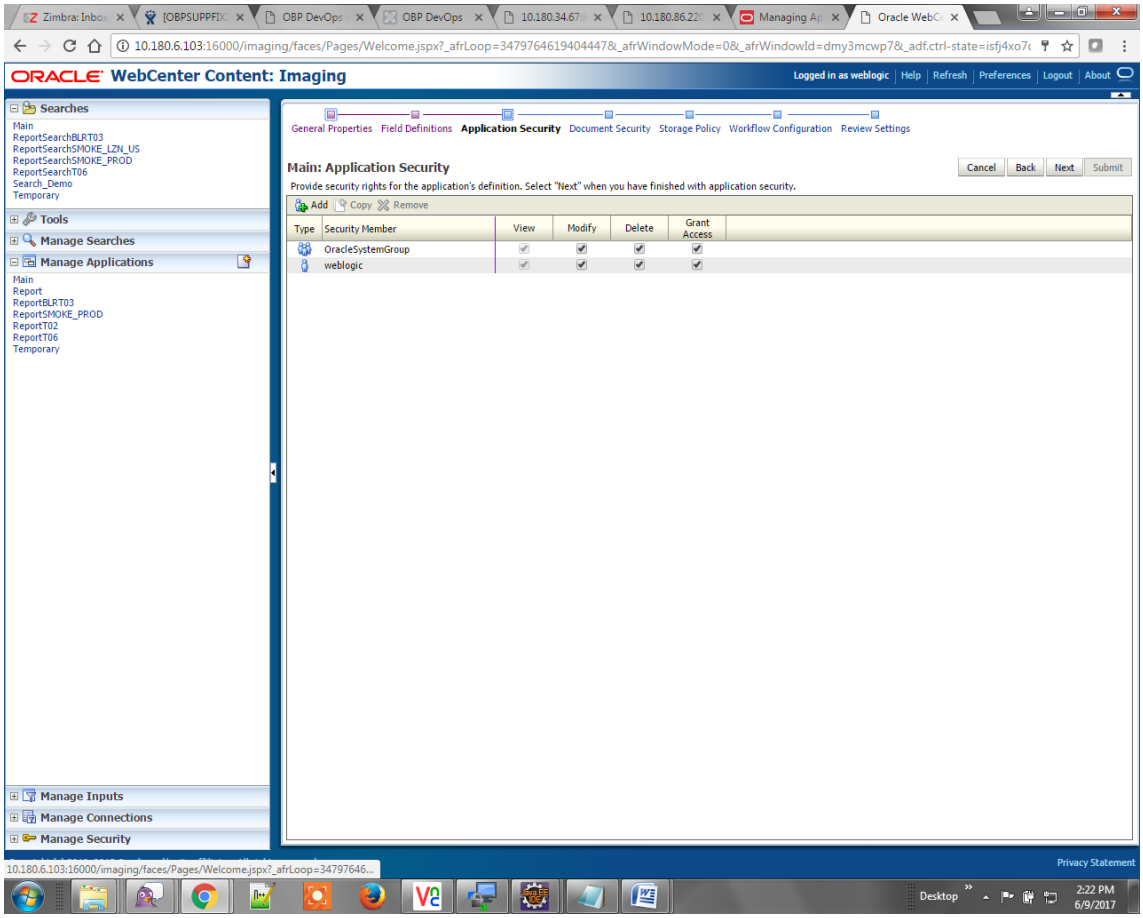
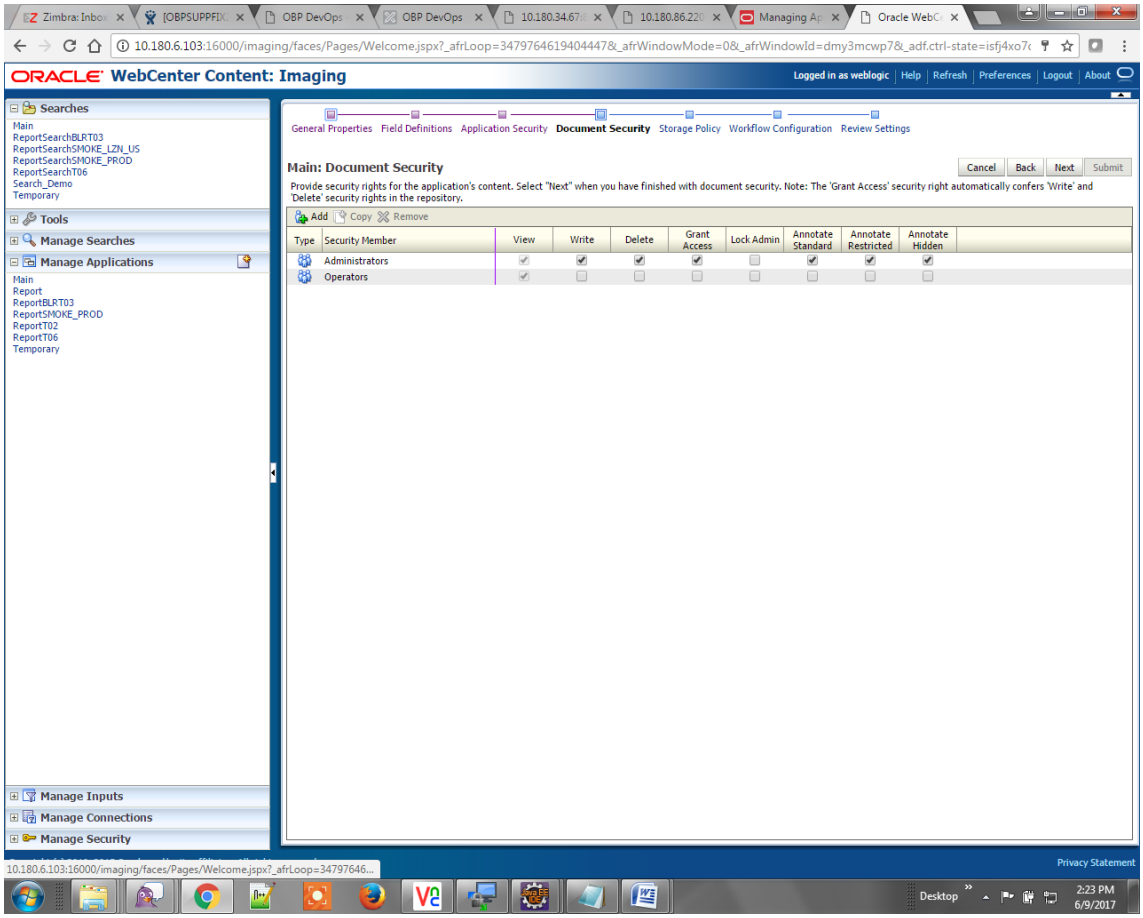
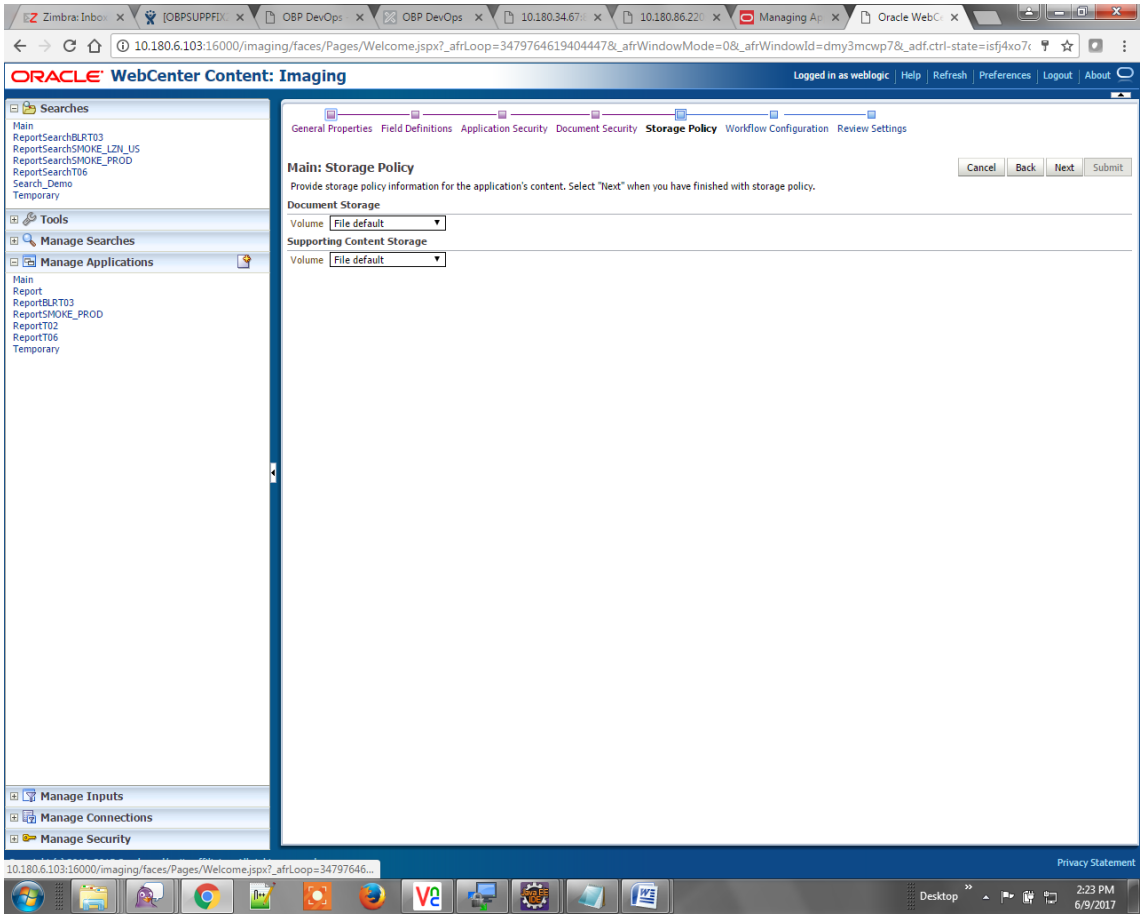


Figure 8–12 Main: Document Security



5. In the Storage Policy page, select the file default option as shown below.

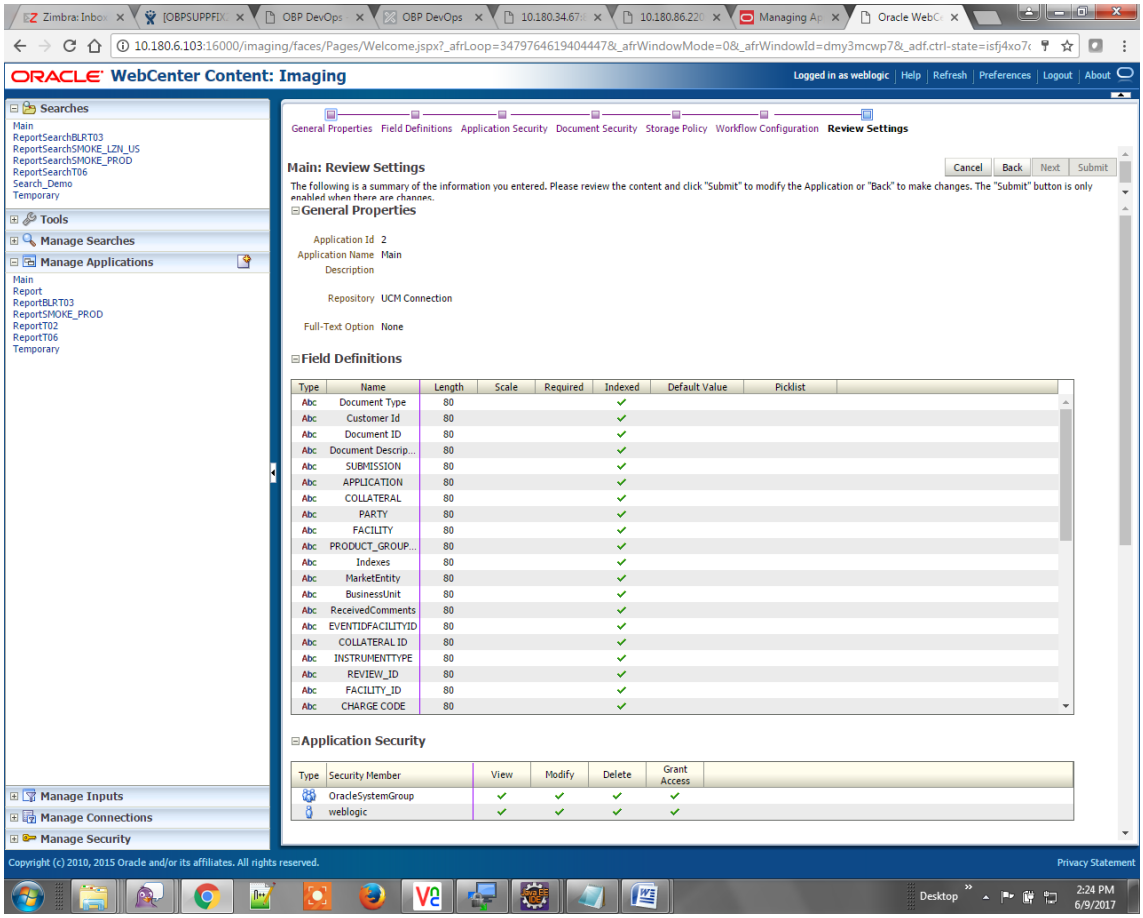
Figure 8–13 Main: Storage Policy



6. Click **Next.** Skip the Workflow Configuration page.
7. Click **Next.**

8. Review the summary and click **Submit.**

Figure 8–14 Main: Review Settings

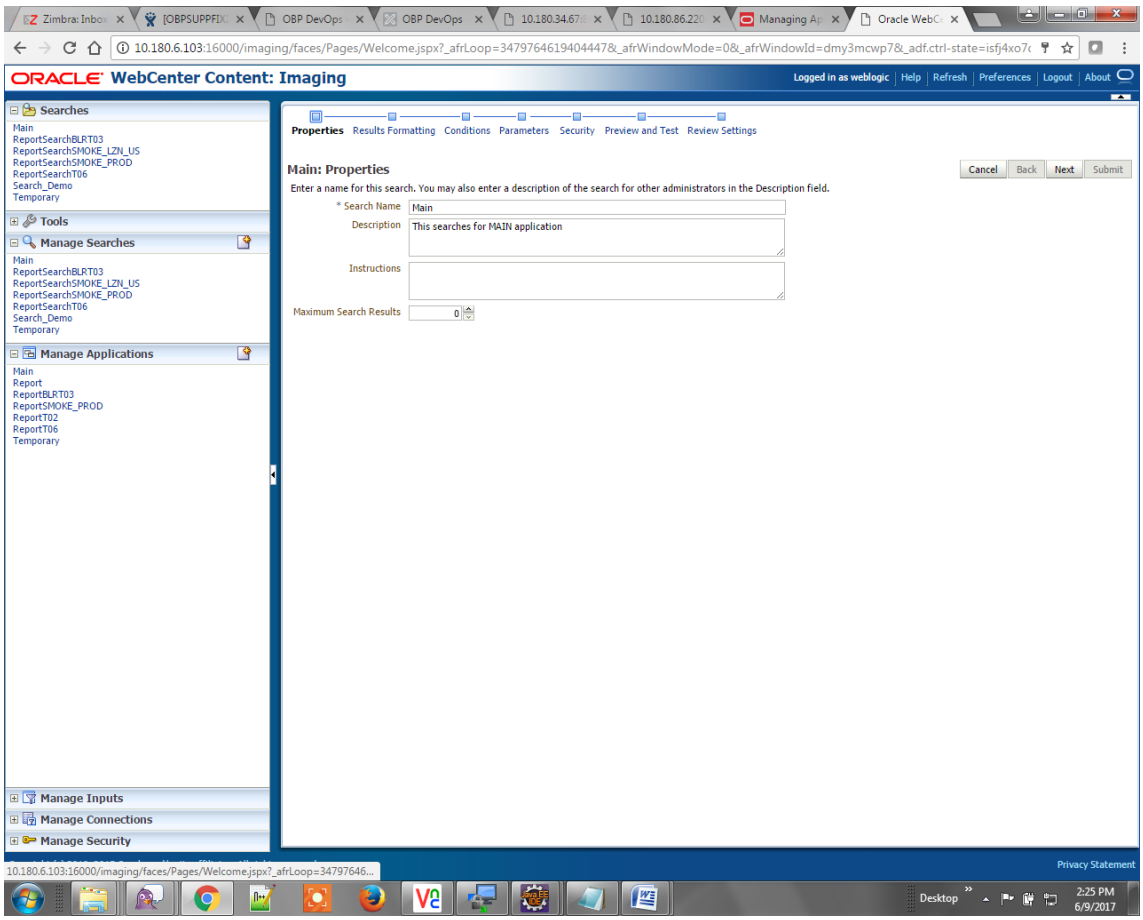


8.1.2.2 Manage Searches

To manage searches:

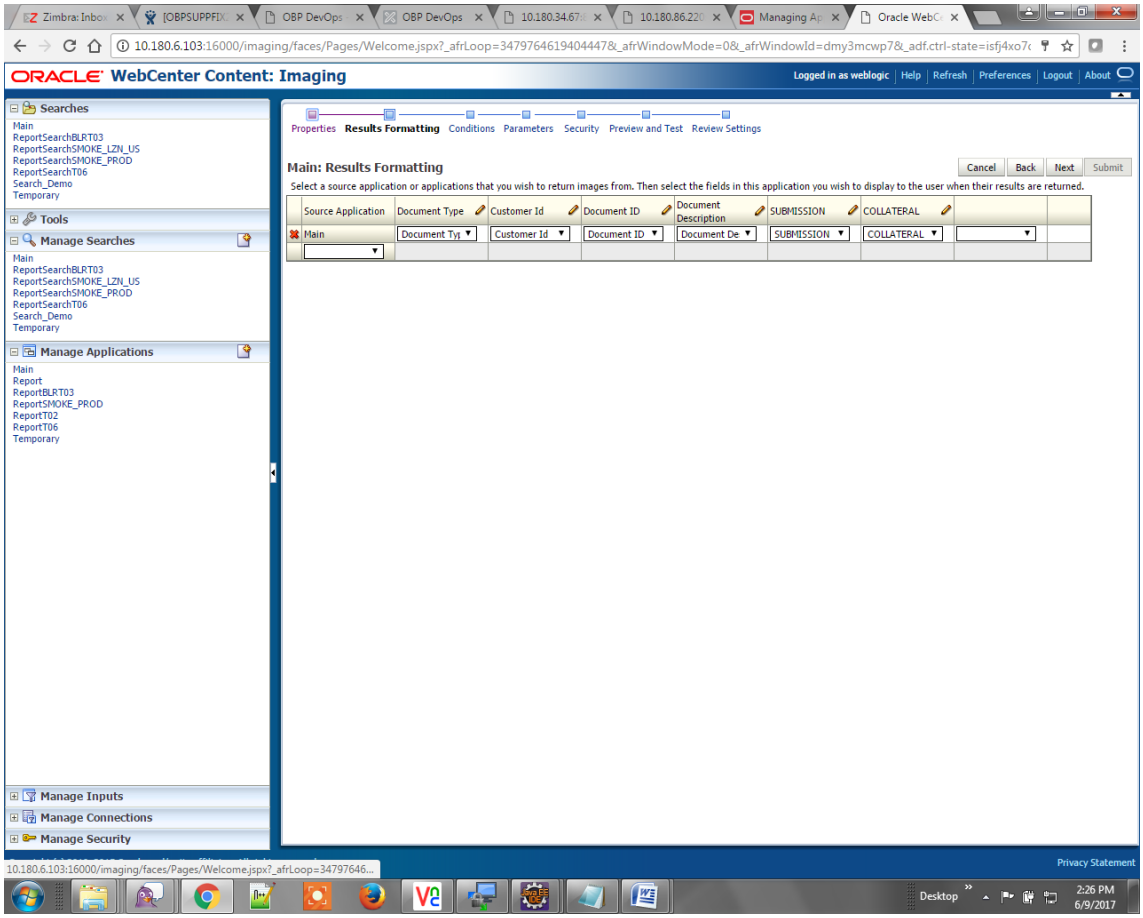
1. Click Manage Searches option and enter the search name with description.

Figure 8–15 Main: Properties



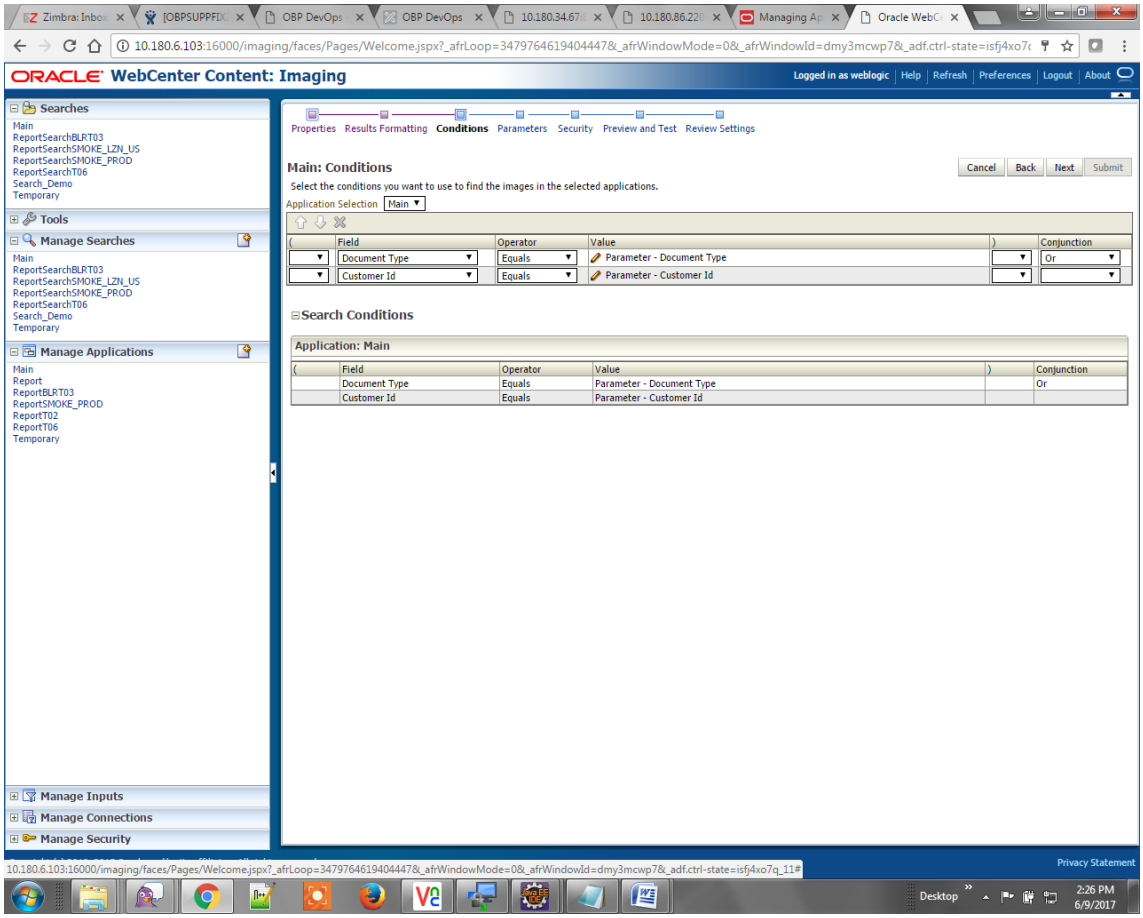
2. Click **Next.**
3. Select the source application along with its field details in the Results Formatting page.

Figure 8–16 Main: Results Formatting



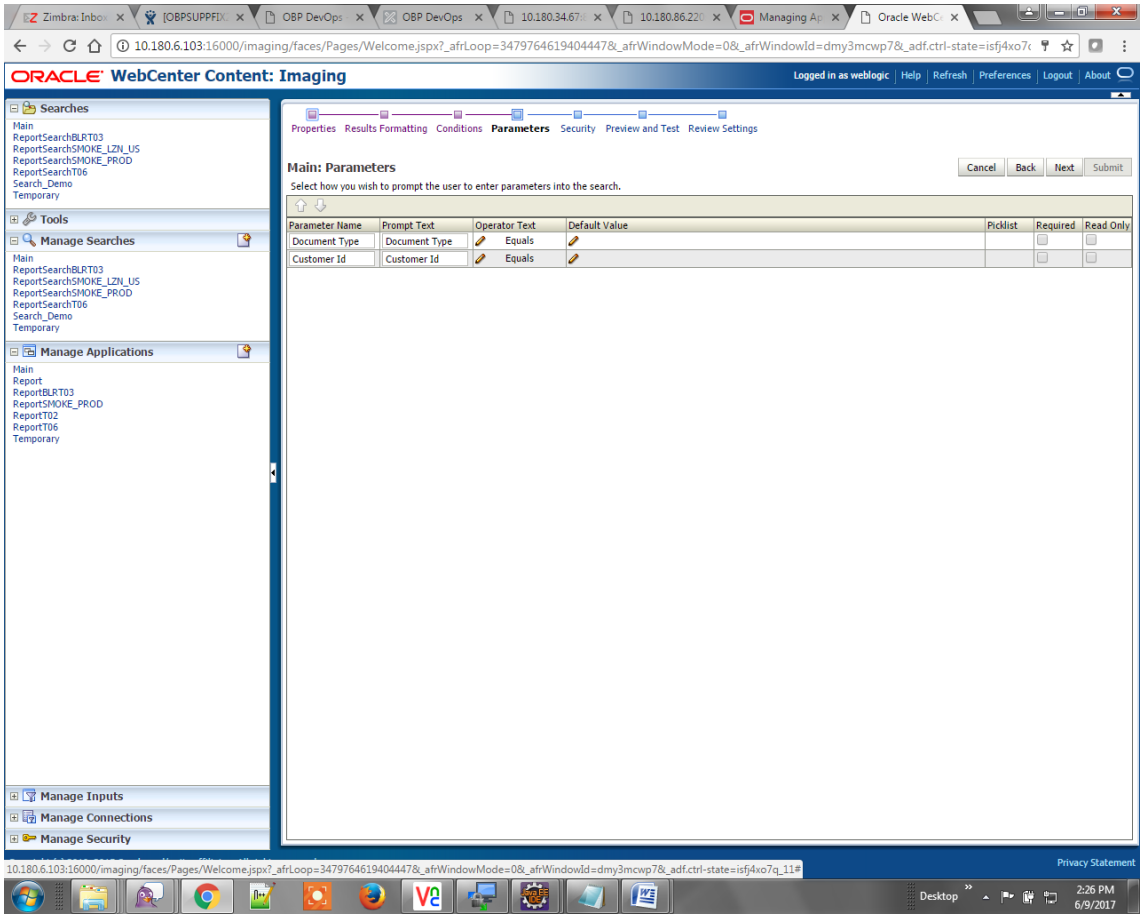
4. Select the appropriate conditions in the Conditions page as shown below.

Figure 8–17 Main: Conditions



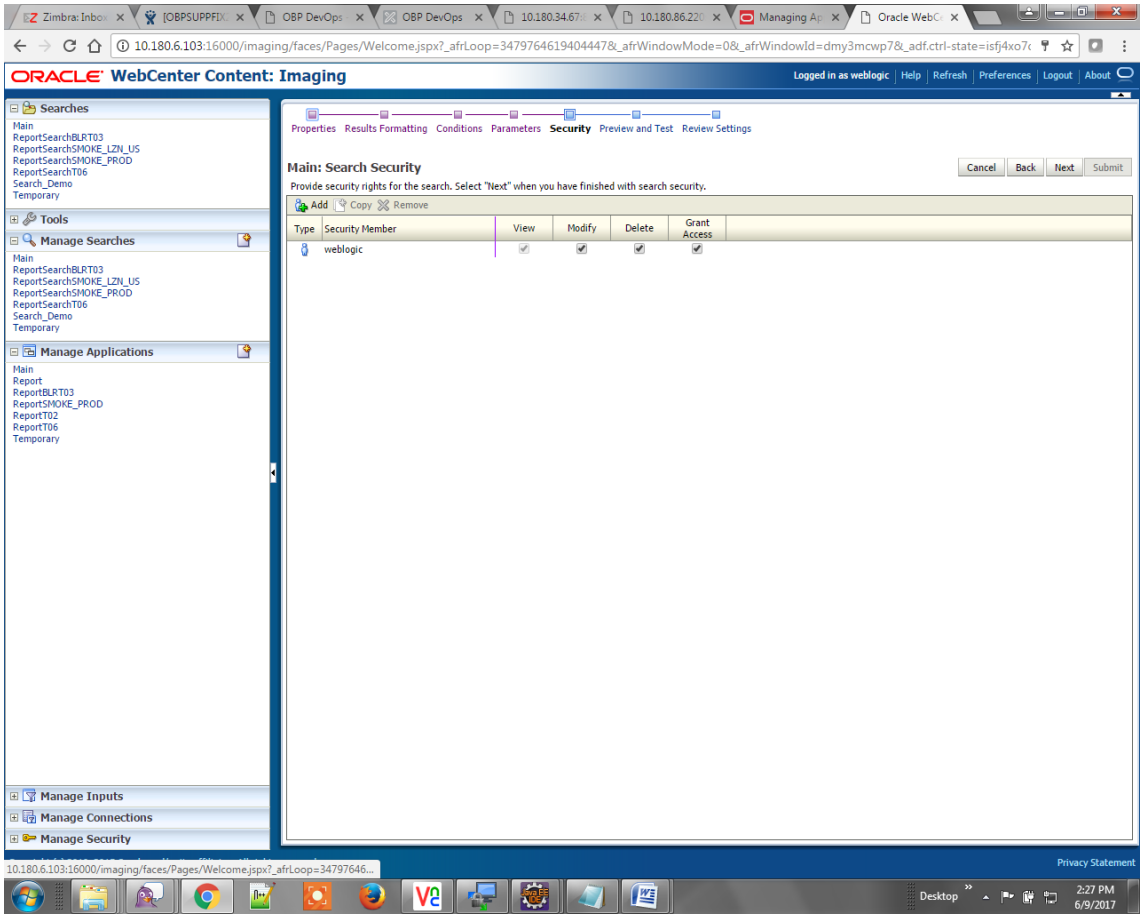
5. Select the appropriate settings in the Parameters page as shown below.

Figure 8–18 Main: Parameters



6. Configure the access rights for users for search in the Search Security page.

Figure 8–19 Main: Search Security



7. Review the summary and click **Submit.**

Figure 8–20 Main: Preview and Test

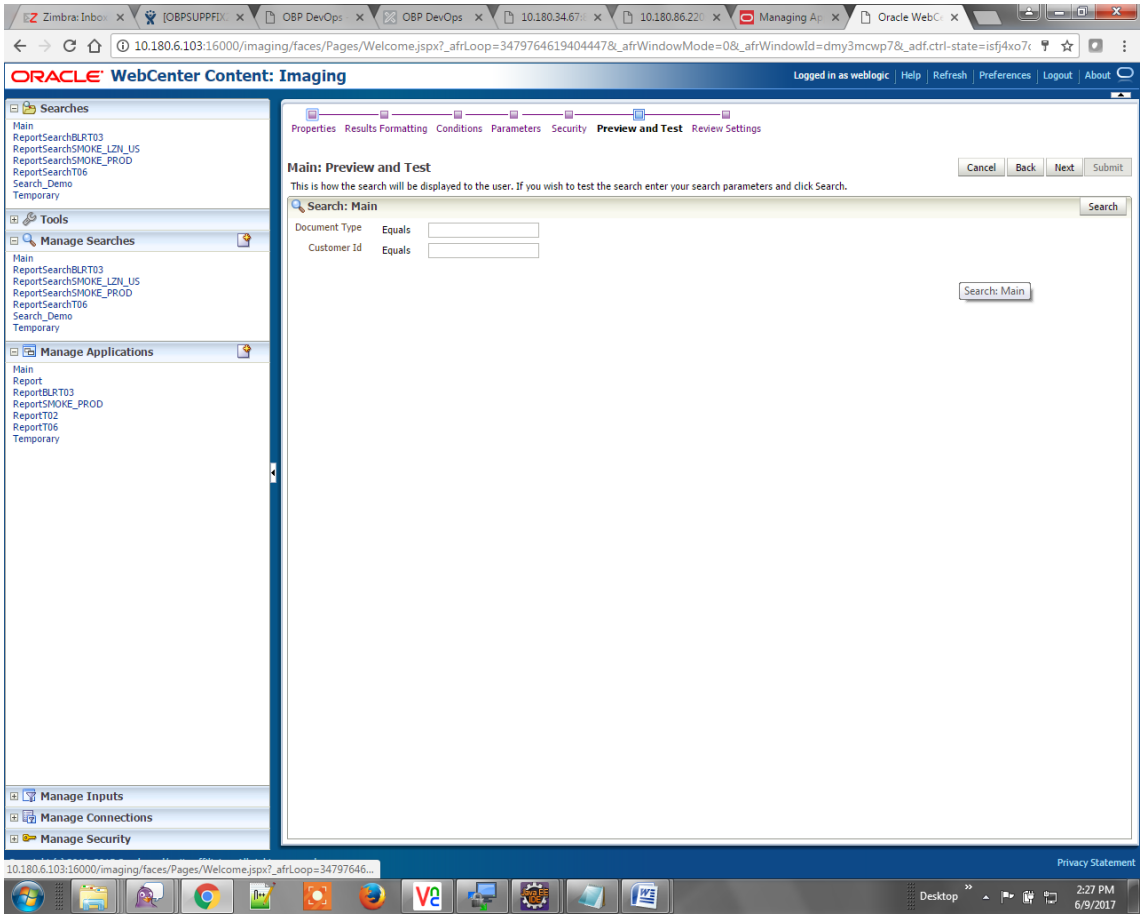
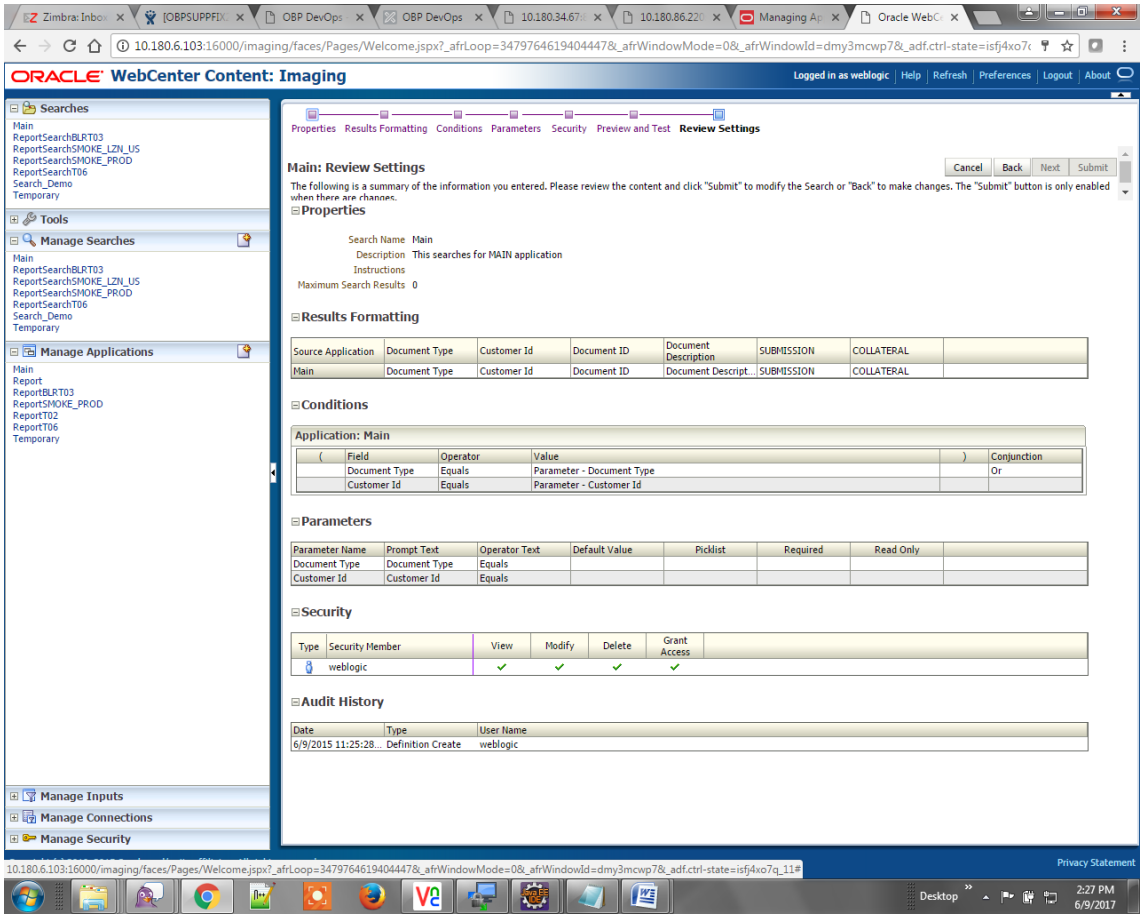


Figure 8–21 Main: Review Settings



8.1.3 Temp Application Configuration

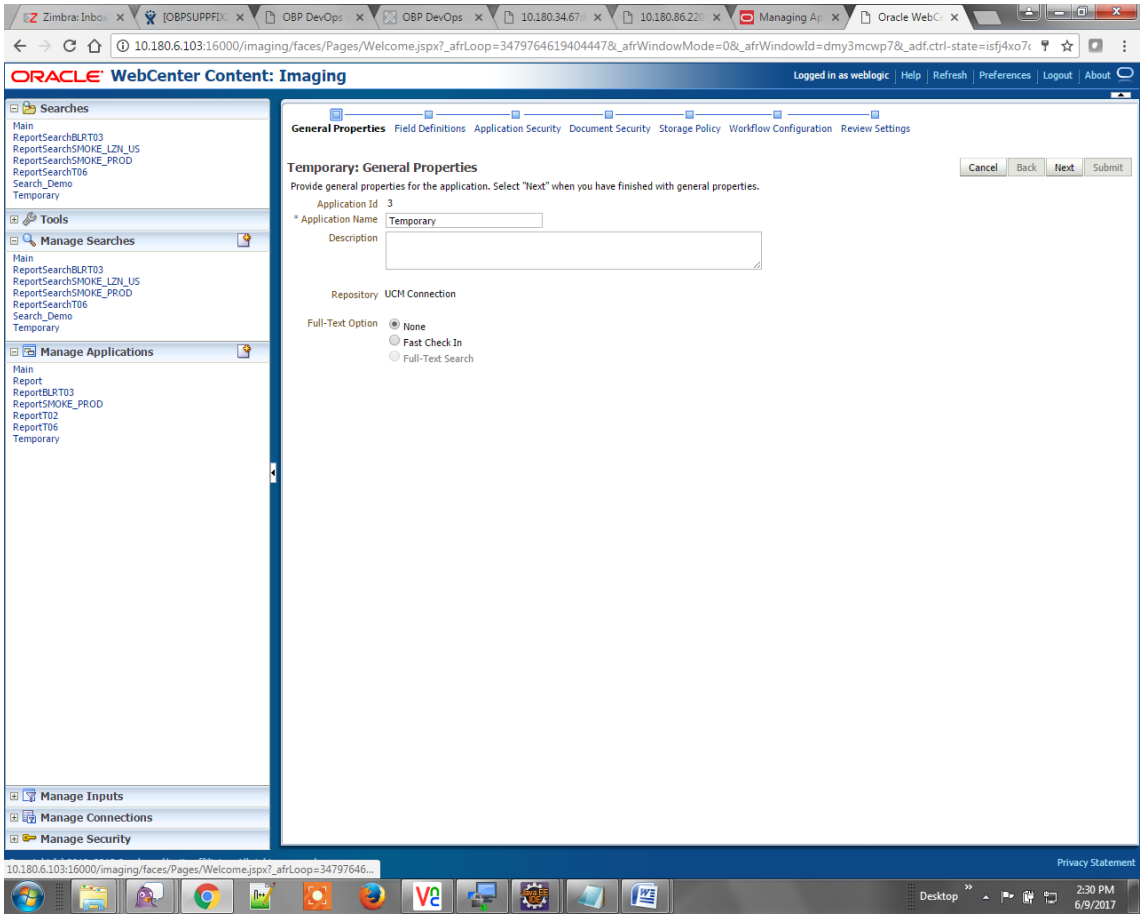
This section provides details about the temp application configuration.

8.1.3.1 Manage Application Configuration

To manage application configuration:

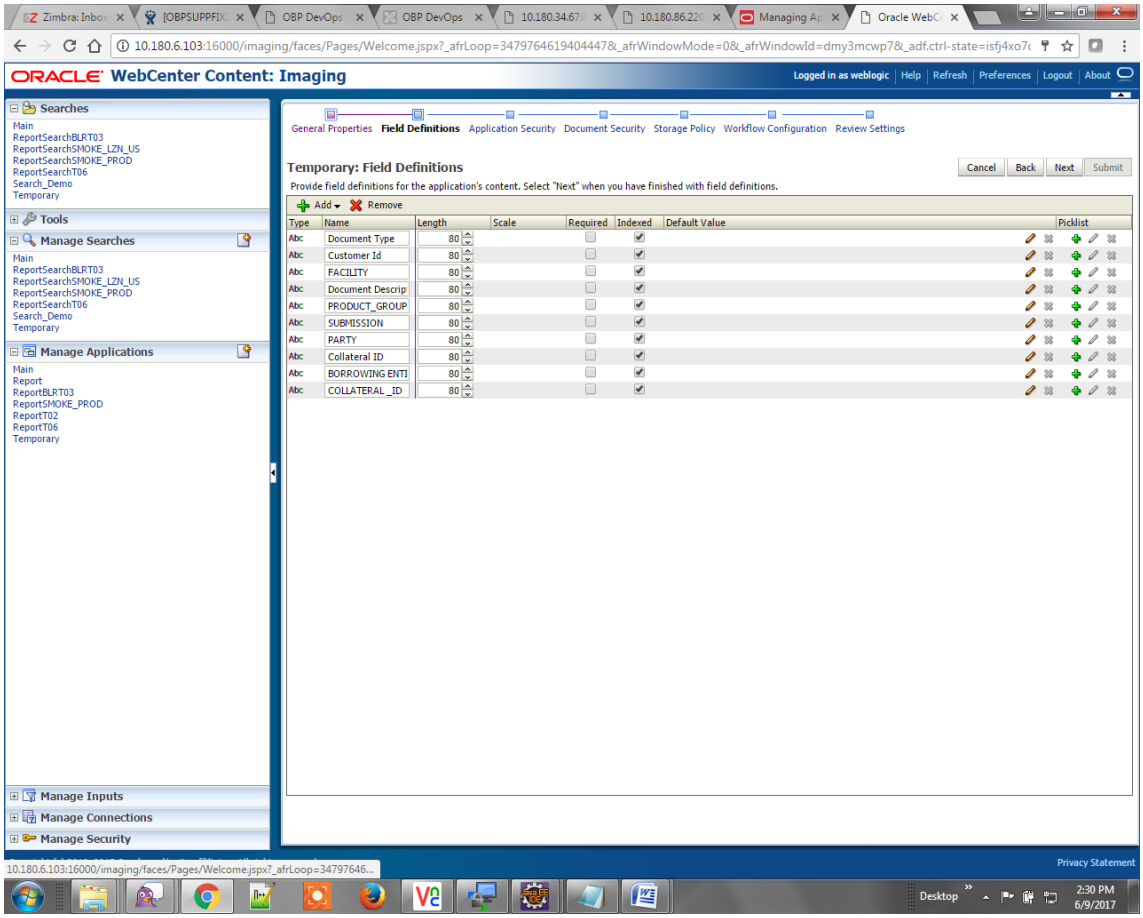
1. Select the Create New Application option.
2. Enter the general properties and click **Next.**

Figure 8–22 Temporary: General Properties



3. Enter the field definition details and click **Next.**

Figure 8–23 Temporary: Field Definitions



4. In Application Security and Document Security pages, select the access rights for users and click **Next.**

Figure 8–24 Temporary: Application Security

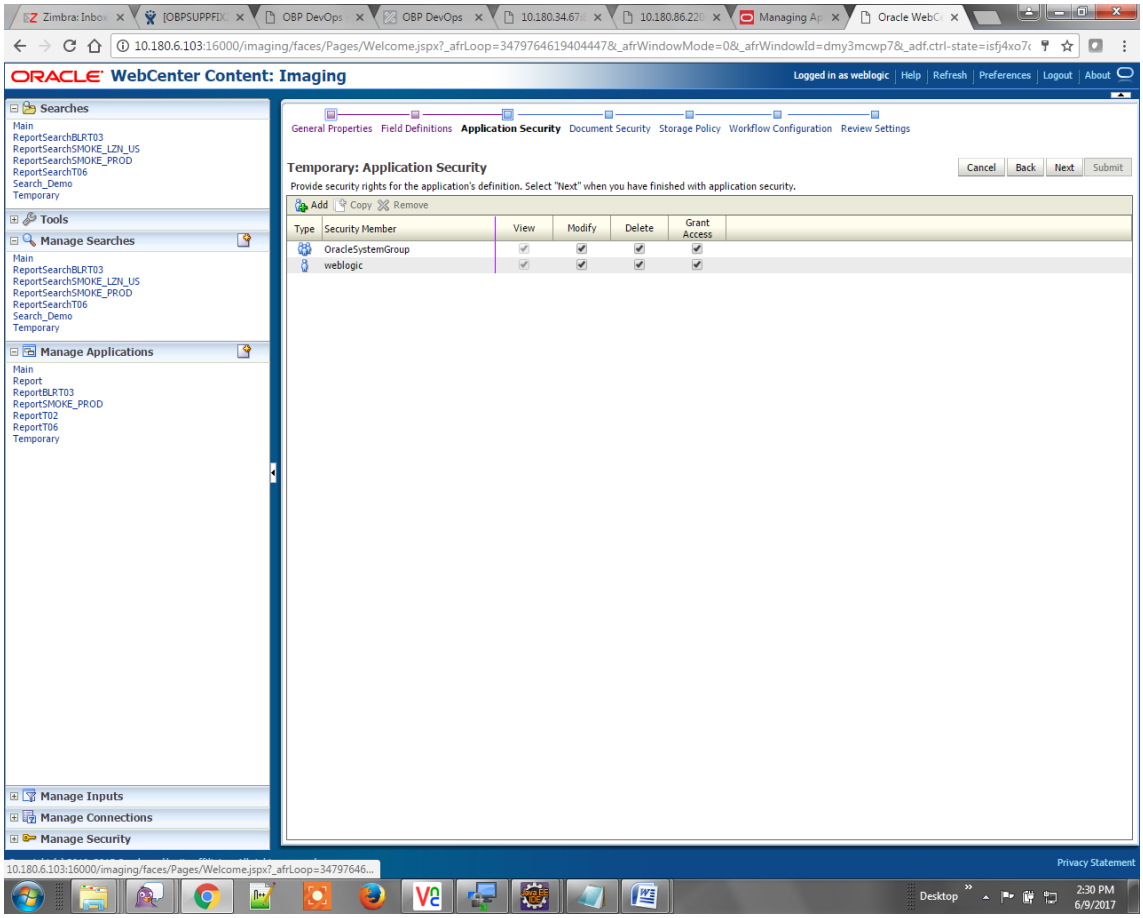
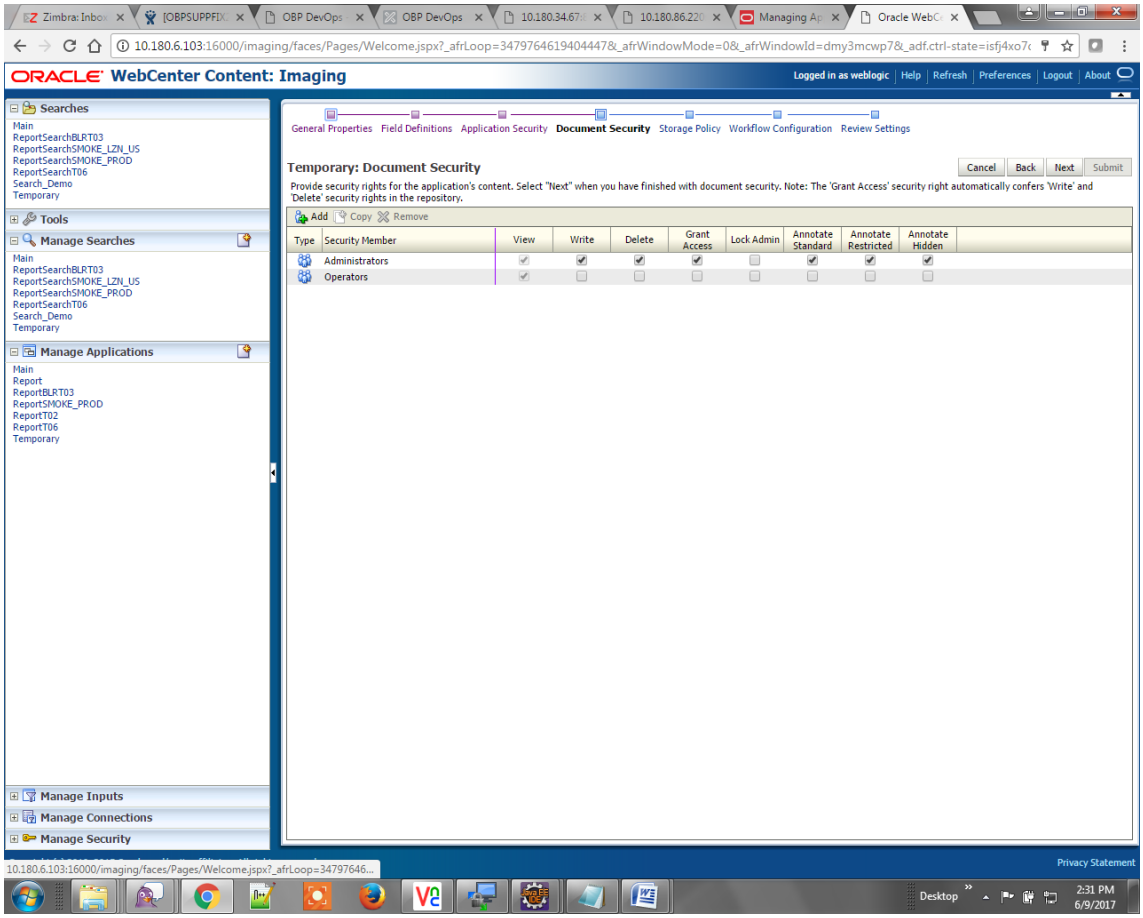
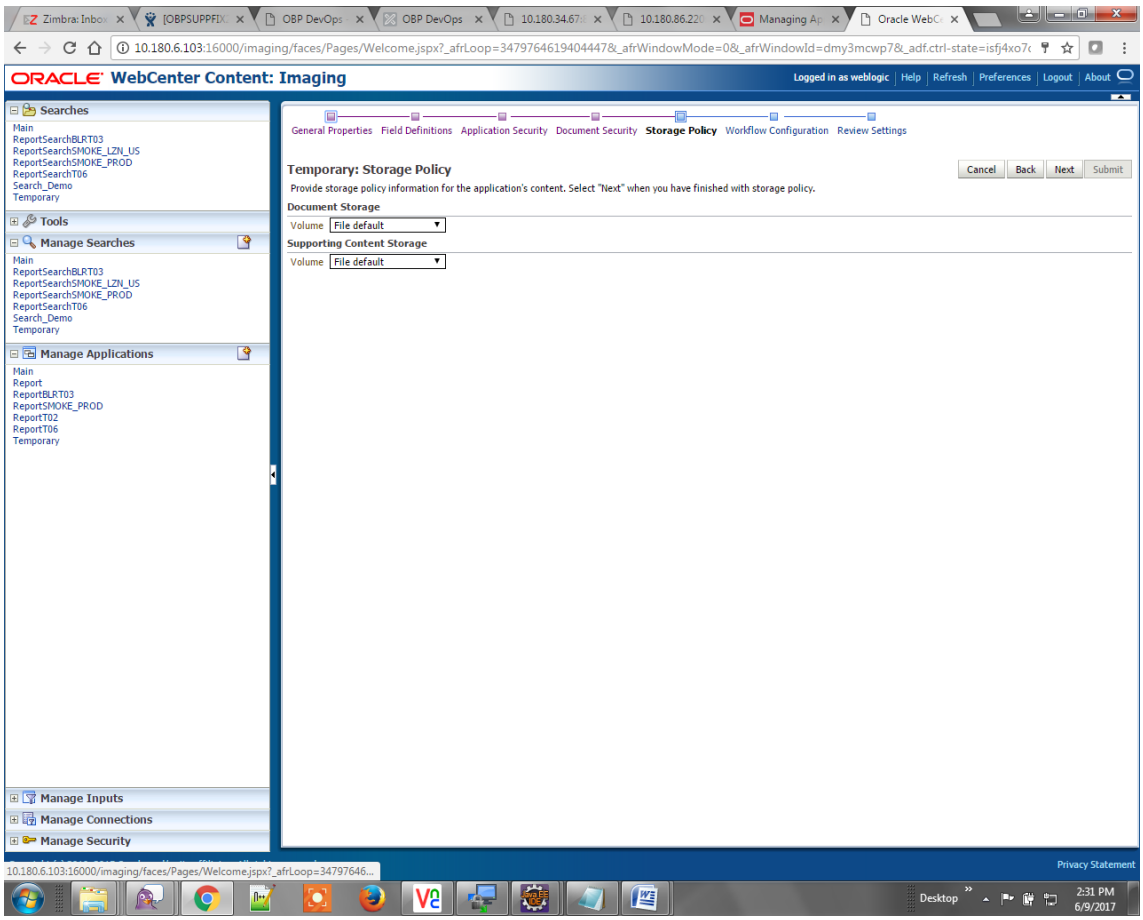


Figure 8–25 Temporary: Document Security



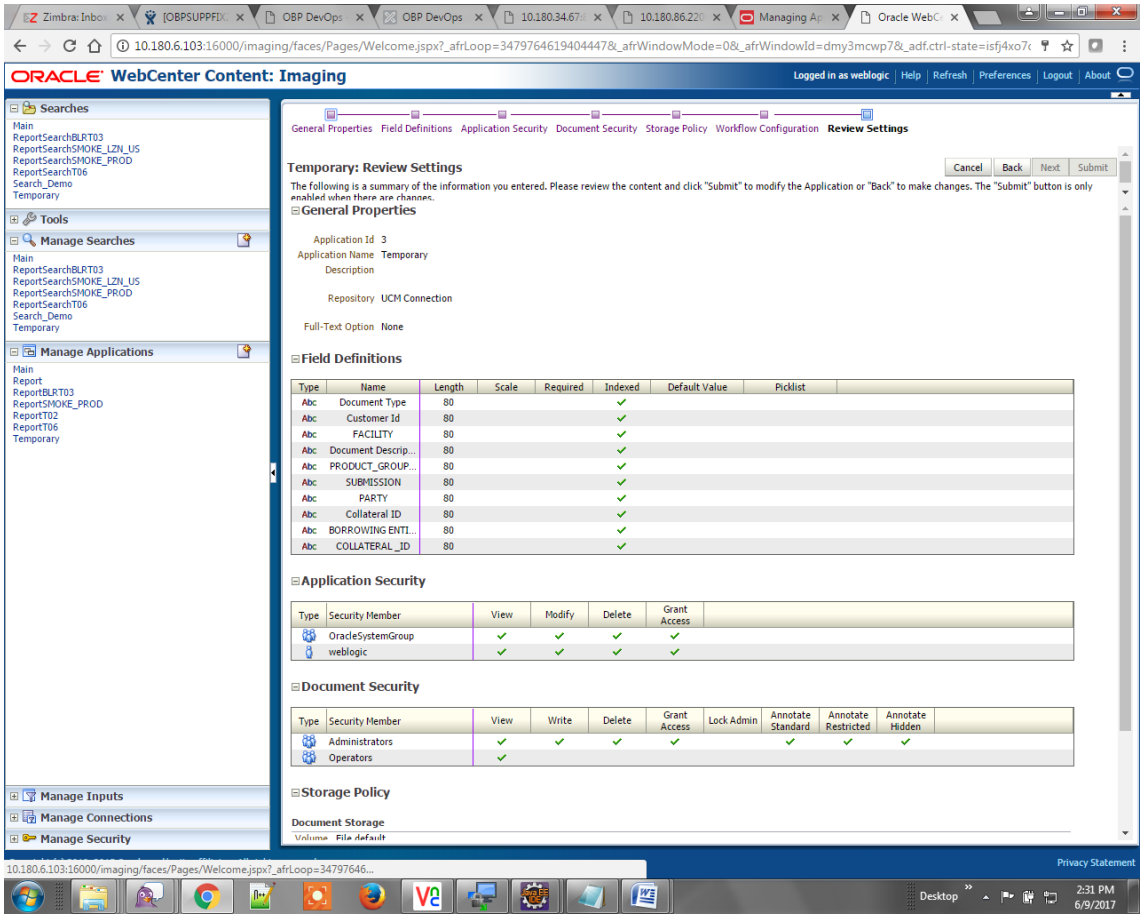
5. In the Storage Policy page, select the file default option has shown below.

Figure 8–26 Temporary: Storage Policy



6. Click **Next.** Skip the Workflow Configuration page.
7. Click **Next.**
8. Review the summary and click **Submit.**

Figure 8–27 Temporary: Review Settings

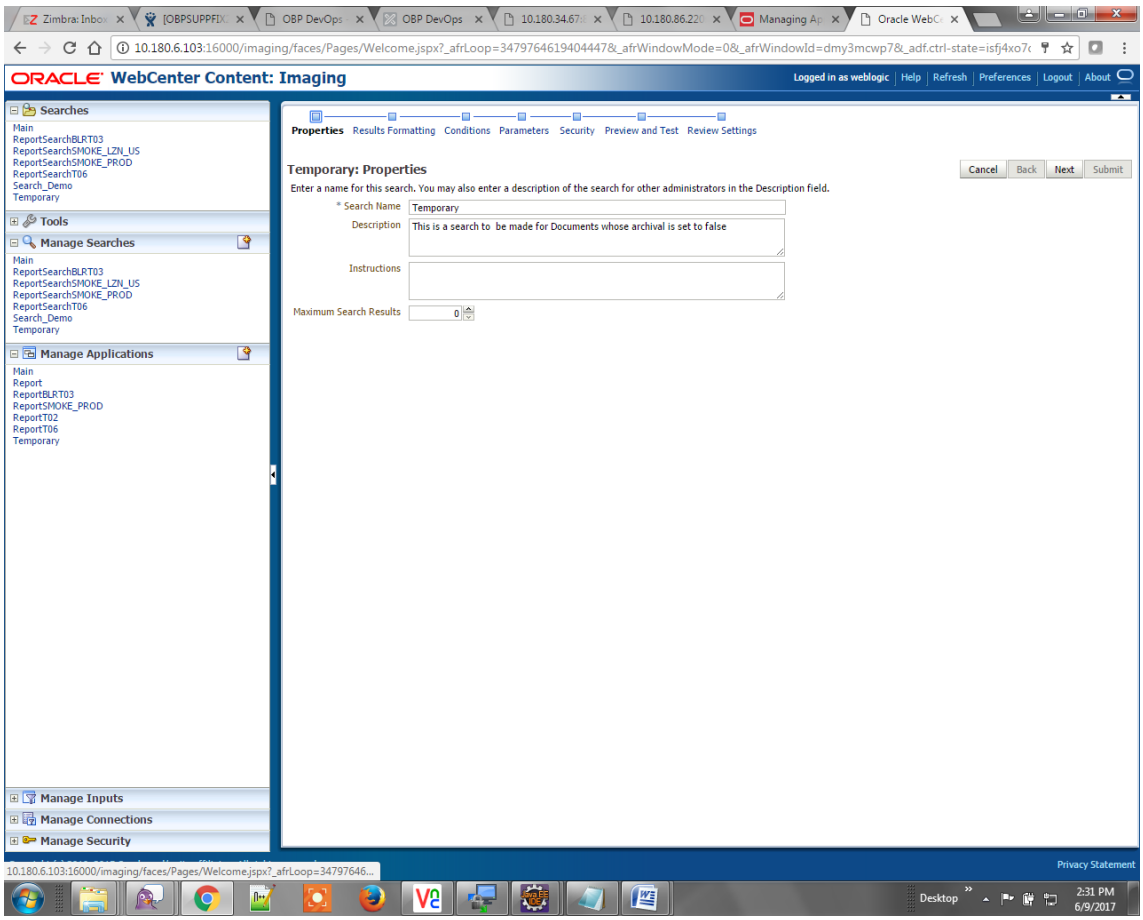


8.1.3.2 Manage Searches

To manage searches:

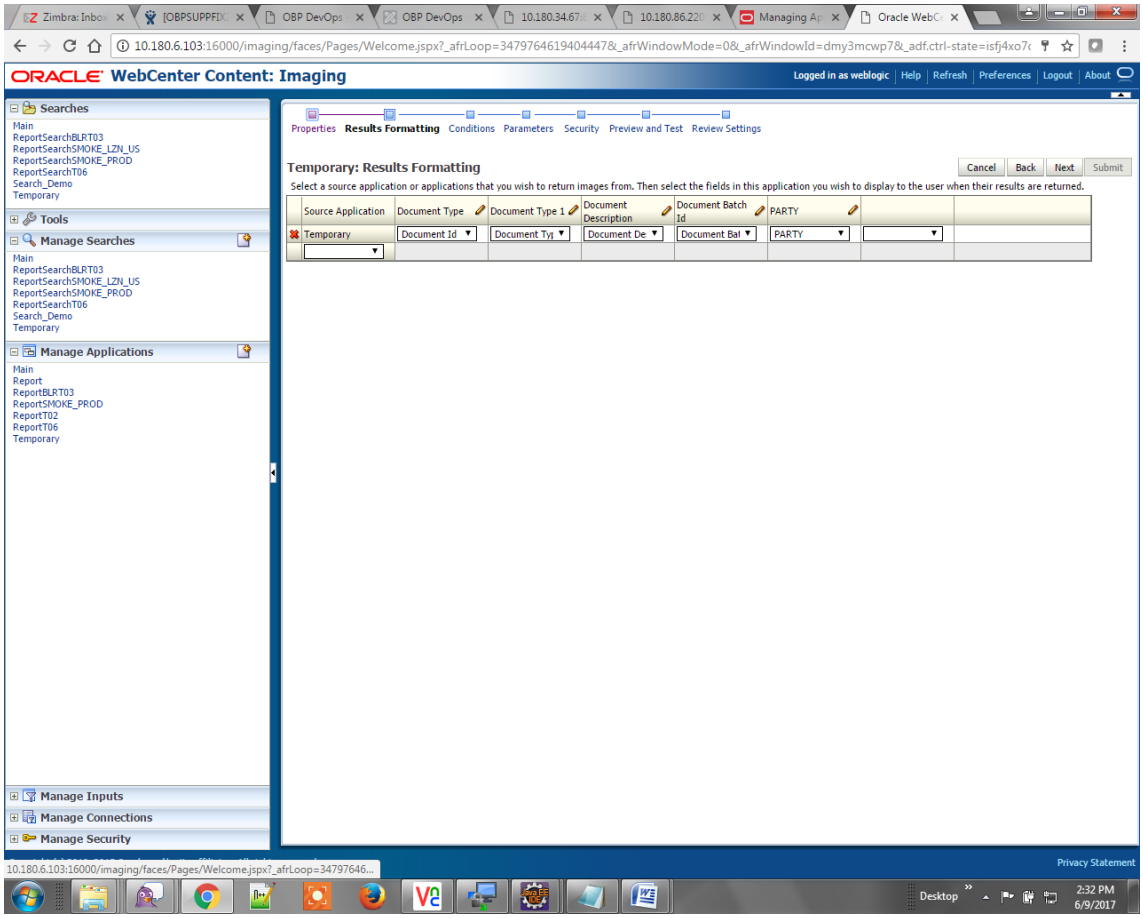
1. Click the Manage Searches option and enter the search name with description.

Figure 8–28 Temporary: Properties



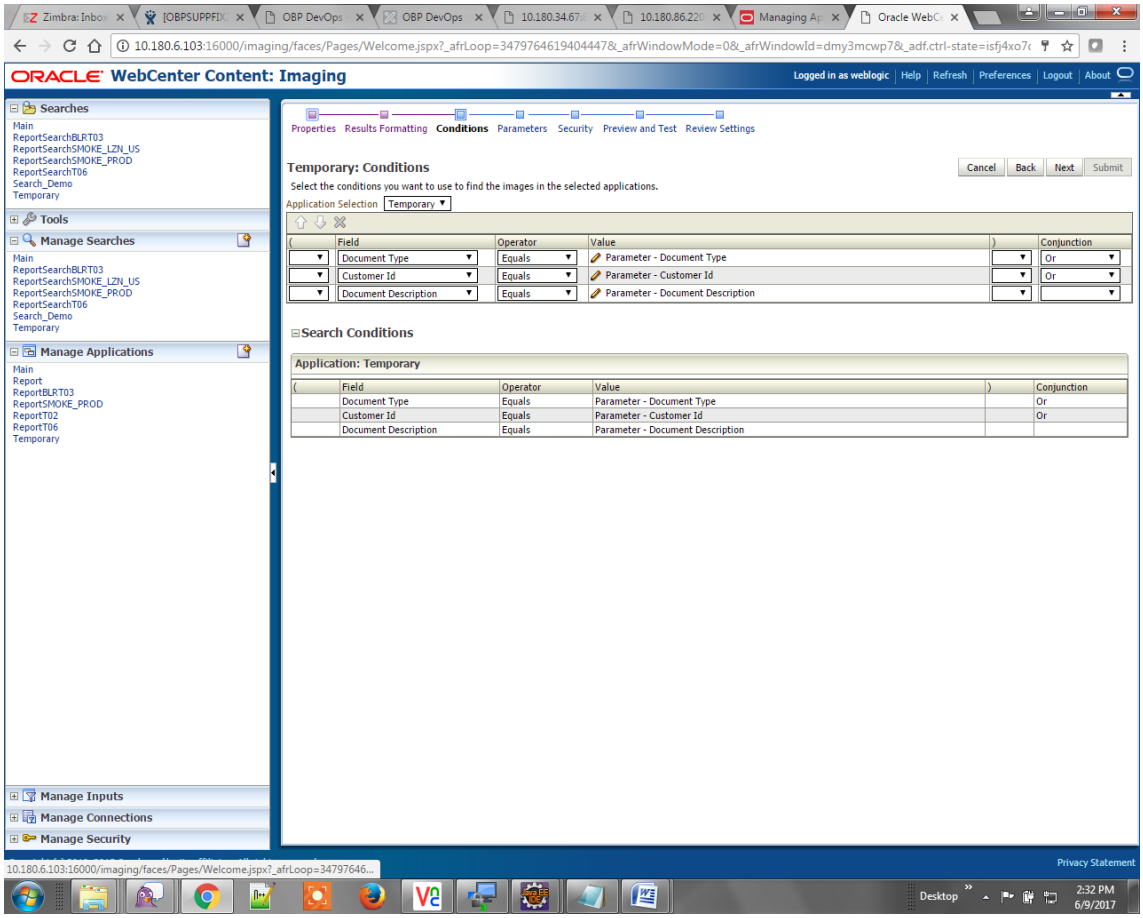
2. Select the source application along with its field details in the Results Formatting page.

Figure 8–29 Temporary: Results Formatting



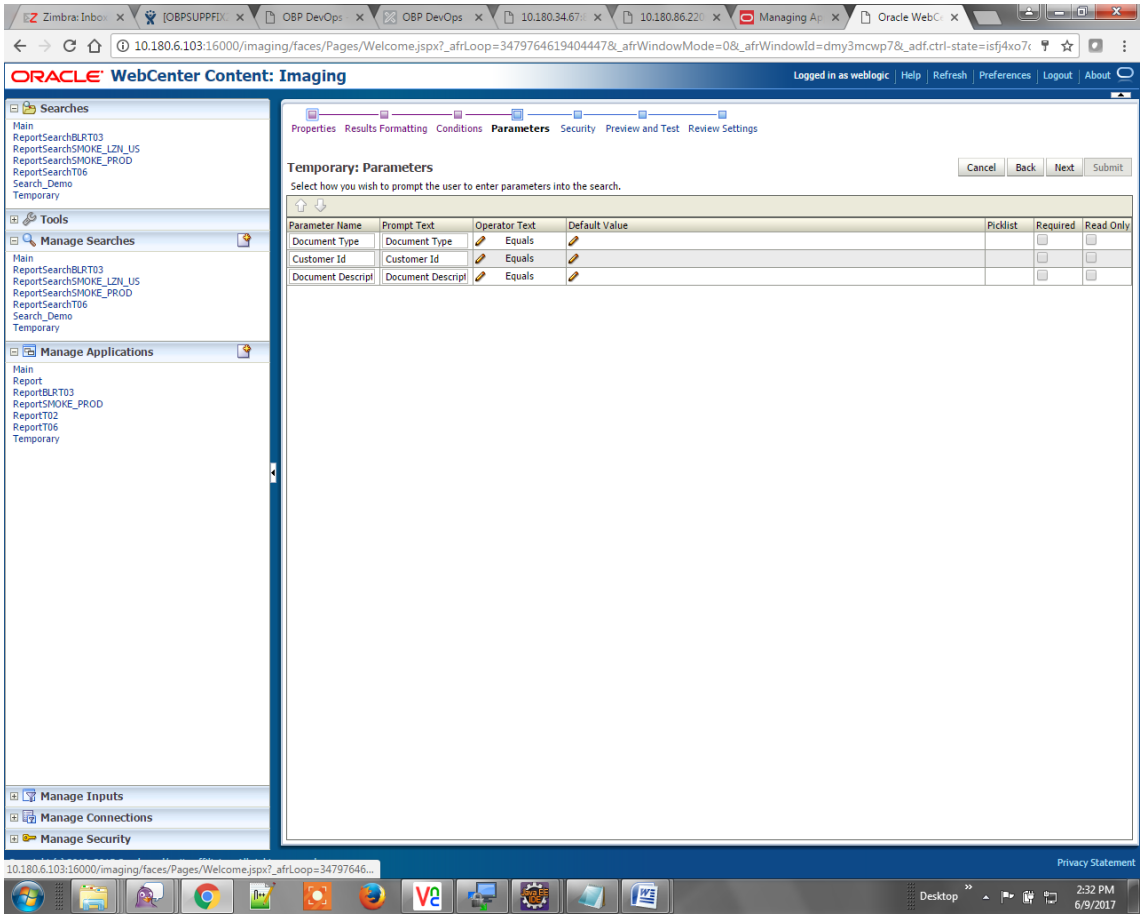
3. Select the appropriate conditions in the Conditions page as shown below.

Figure 8–30 Temporary: Conditions



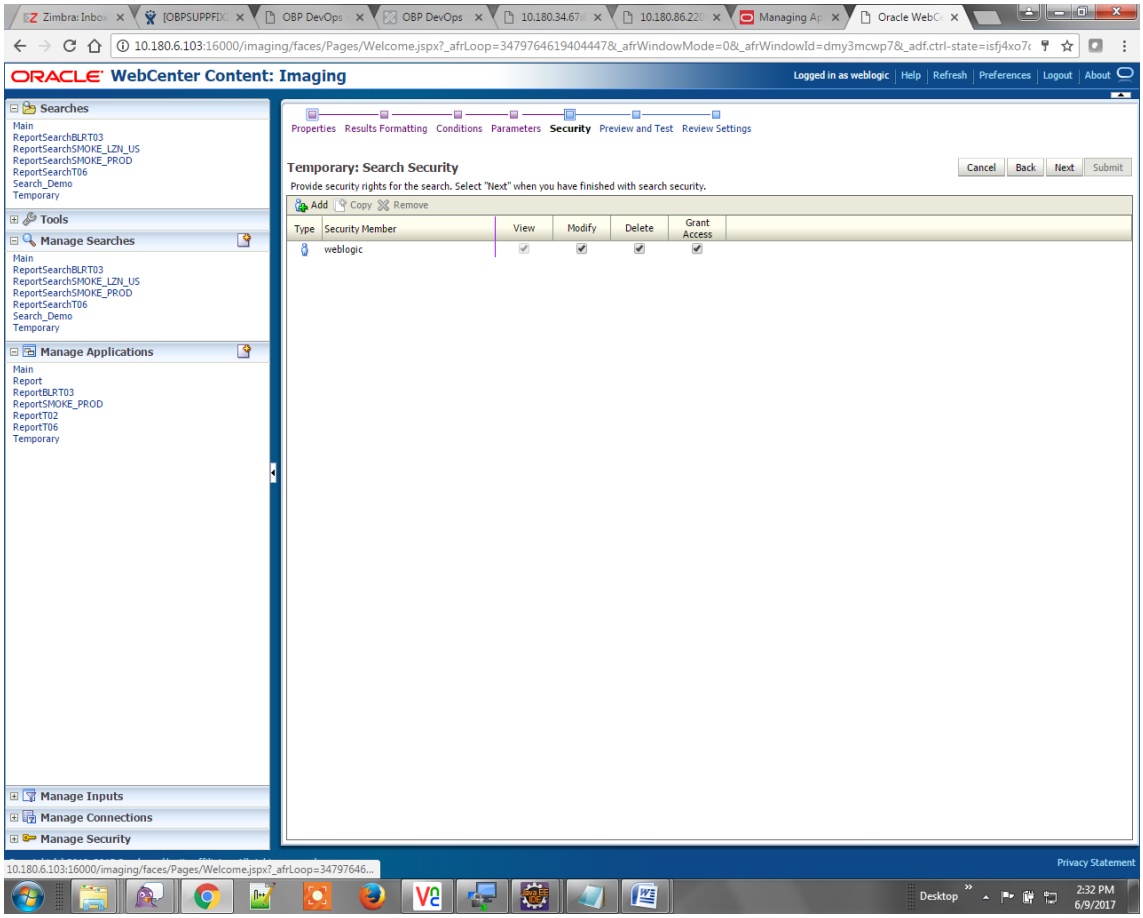
4. Select the appropriate settings in the Parameters page as shown below.

Figure 8–31 Temporary: Parameters



5. Configure the access rights for users for search in the Search Security page.

Figure 8–32 Temporary: Search Security



6. Review the summary and click **Submit.**

Figure 8–33 Temporary: Preview and Test

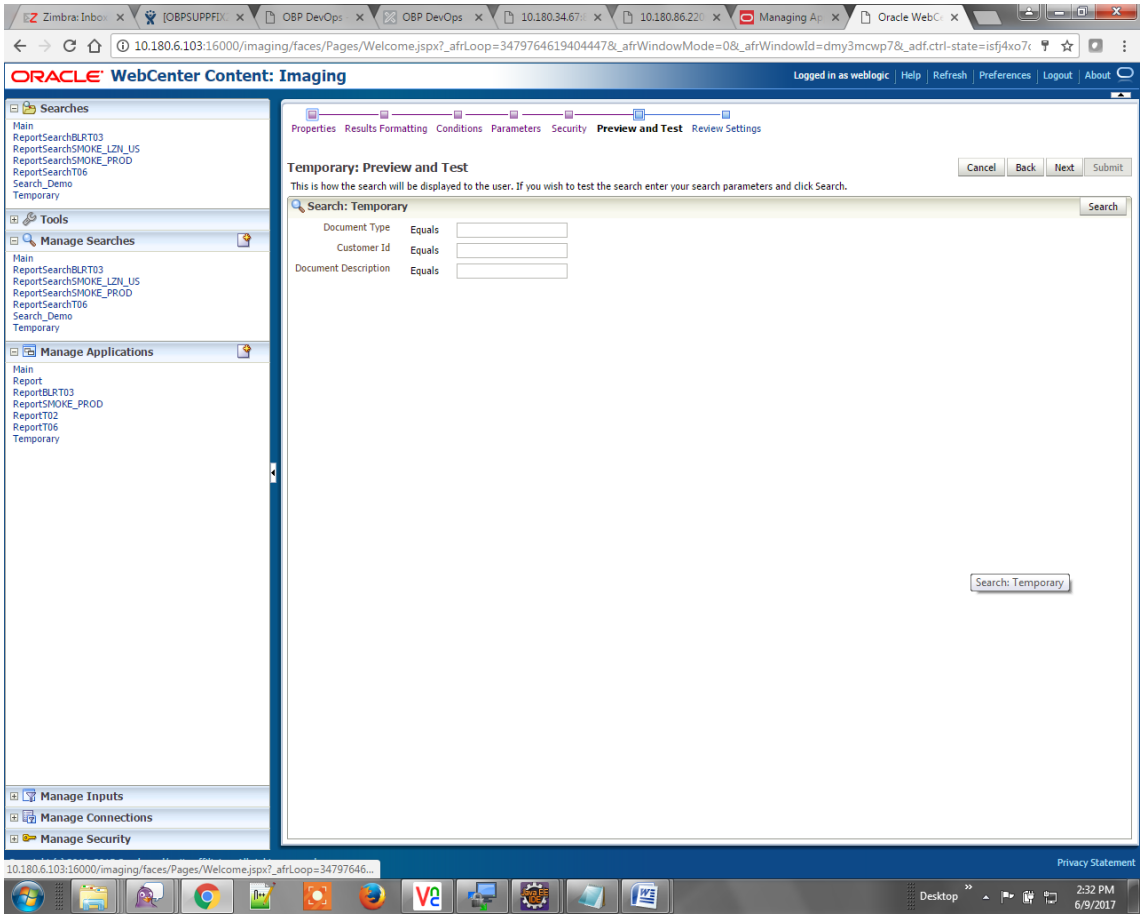
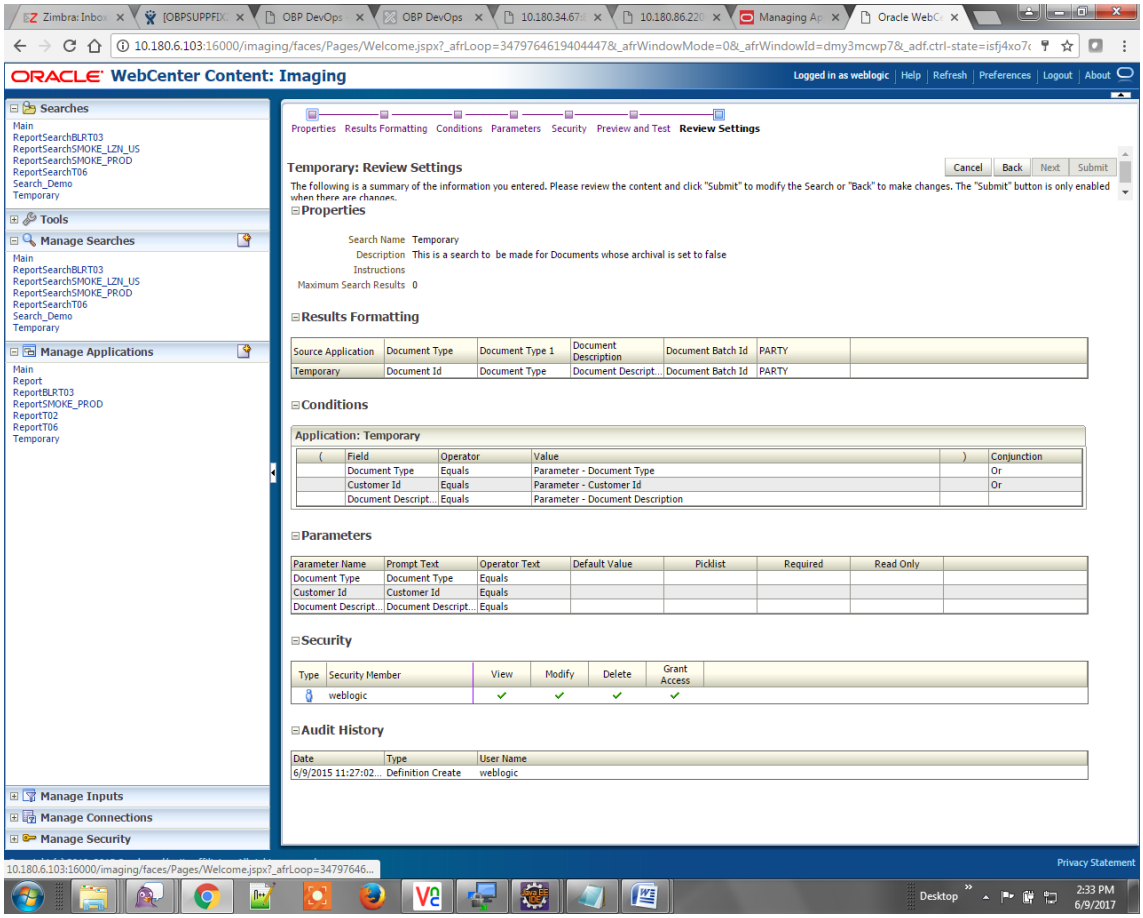


Figure 8–34 Temporary: Review Settings



The application ID generated for the main and temporary applications should be updated in the OBEO DB schema table flx_cm_doc_typ_meta_data using the following sql statements:

> **Note**
>
> Replace the <main application id> with the application ID generated for the IPM application and the <temporary application id> with the application ID generated for the IPM application sql statements with the actual generated.

SQL for Main Application

```
update flx_cm_doc_typ_meta_data
set app_id = '<main application id>'
where doc_typ_id = 'MAIN';
```

SQL for Temp Application

```
update flx_cm_doc_typ_meta_data tp
set app_id = '<temporary application id>'
where doc_typ_id = 'TEMP';
```

8.2 IPM Configuration for Bulk Upload Process Setup

This step is an optional configuration step. It is required only for banks that need to upload documents in bulk. Creation of an input configuration results in defining an input file format and mapping the file input data with the application field definitions. This file format is then understood by the IPM Bulk data upload feature (known as an document upload input agent in IPM), which uploads scanned documents from a shared folder on into IPM.

This upload takes place in the following steps:

A file containing details of the scanned documents to be uploaded is taken as an input from a location on the server. Then IPM uploads the scanned documents as specified in an input definition file.

Then IPM invokes the "IPMBulkUpload" BPEL process deployed on the SOA server as part of the SOA media pack installation process. The BPEL process updates the IPM document reference ID in OBEO for the document record.

8.2.1 Prerequisites

Following are the prerequisites before proceeding with the bulk upload process setup:

1. Application on IPM server is already created on which bulk upload process needs to be configured. For more information to understand the application creation process, see Image Processing and Management Admin Guide.
2. com.ofss.fc.workflow.process.IPMBulkUploadProcess is already deployed on the SOA server.

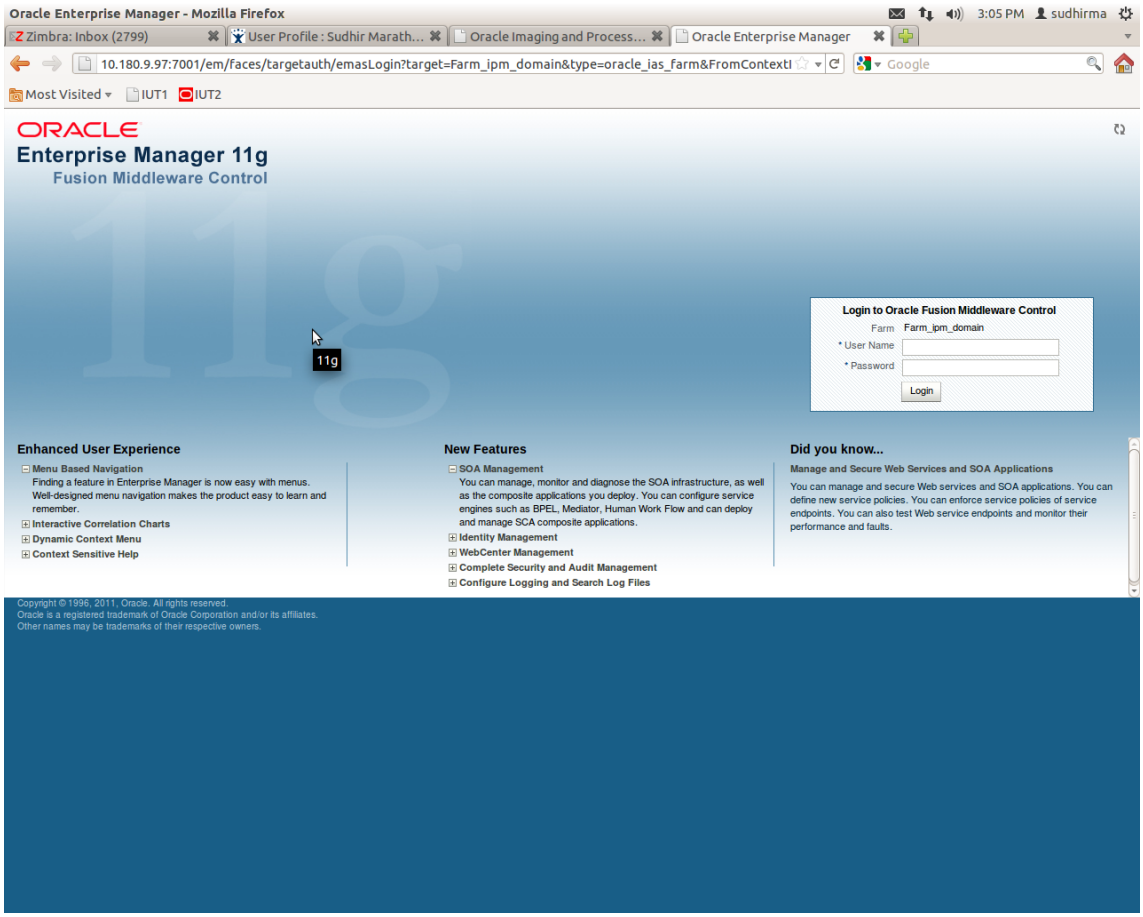
8.2.2 Setting up the Connection Name

To set up a bulk process, start by setting up the connection name, which is used as JNDI for IPM to BPEL connection.

To set up a bulk process:

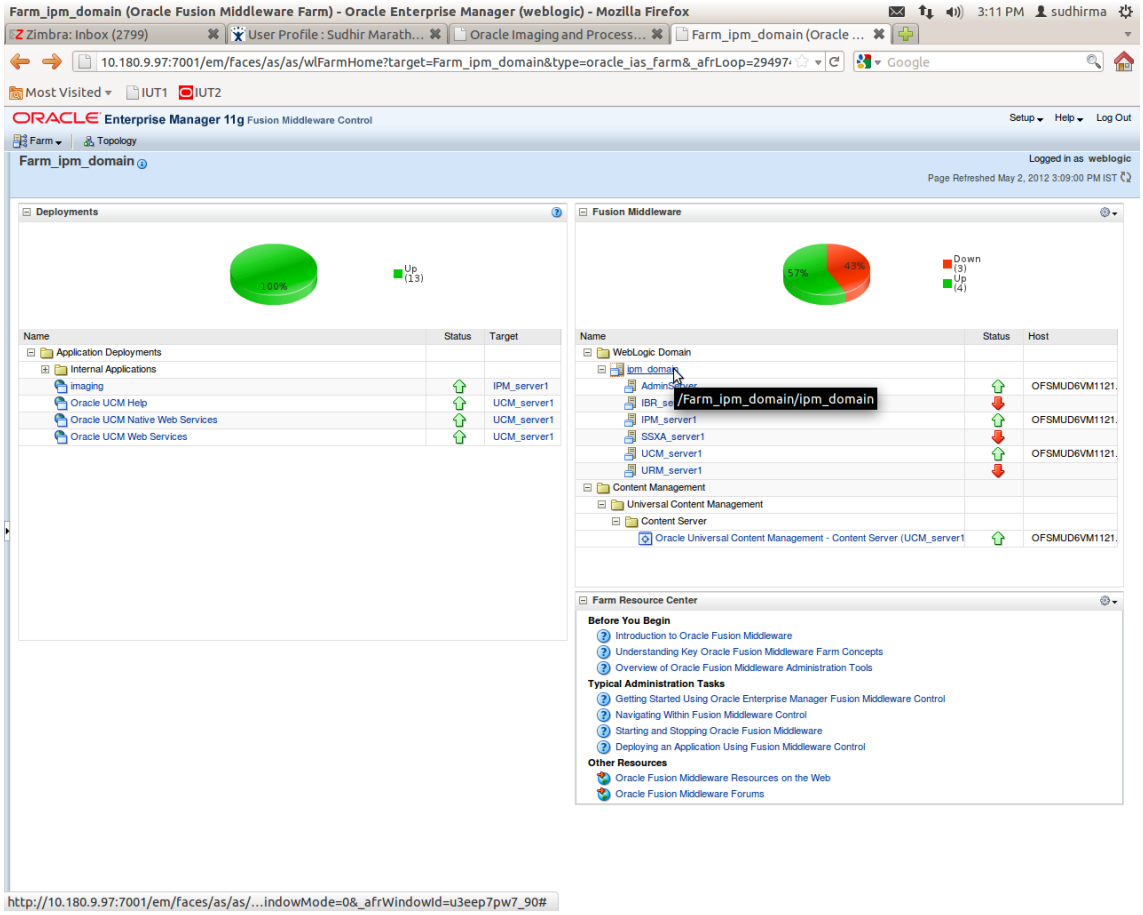
1. Log in to Enterprise Manager (EM) console.

Figure 8–35 EM Console Login



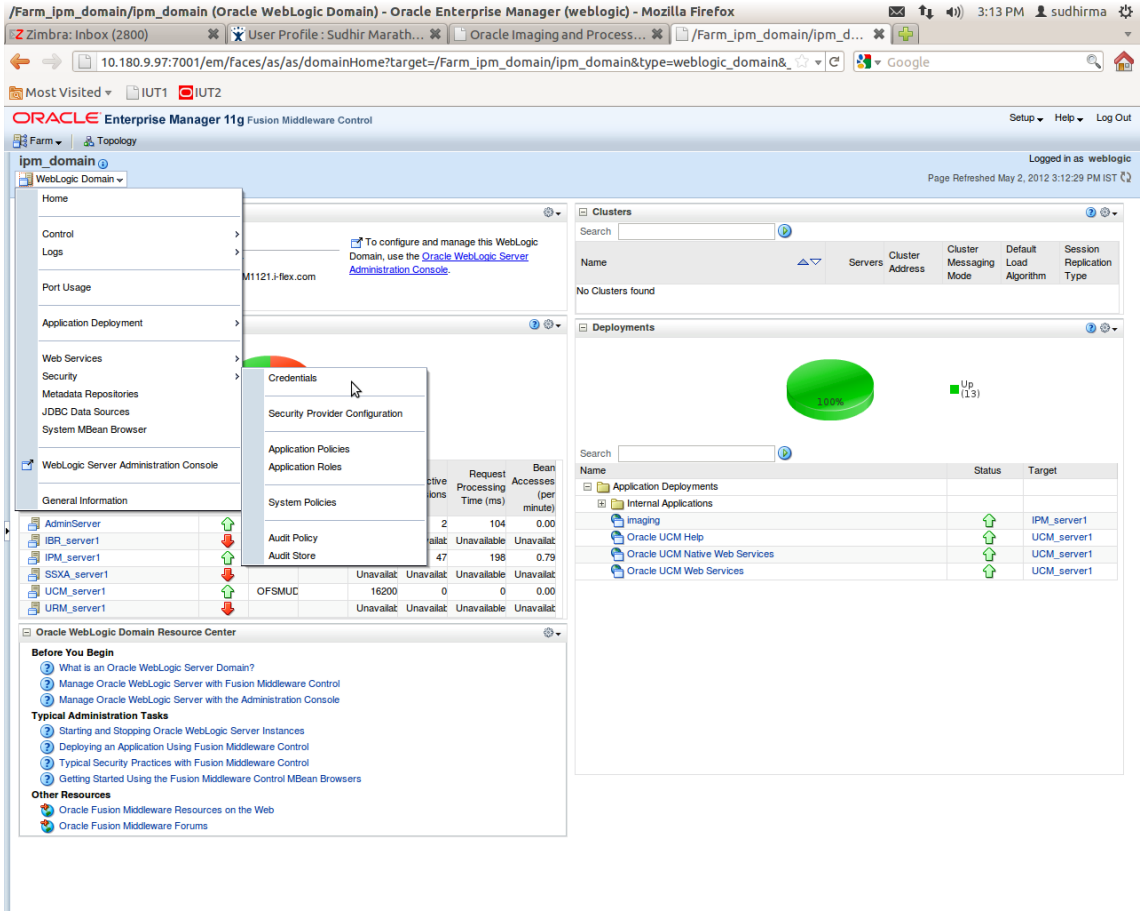
2. In the Name section, under Weblogic domain, click **ipm domain** (or base domain where ipm server is installed).

Figure 8–36 Click Weblogic Domain: ipm domain



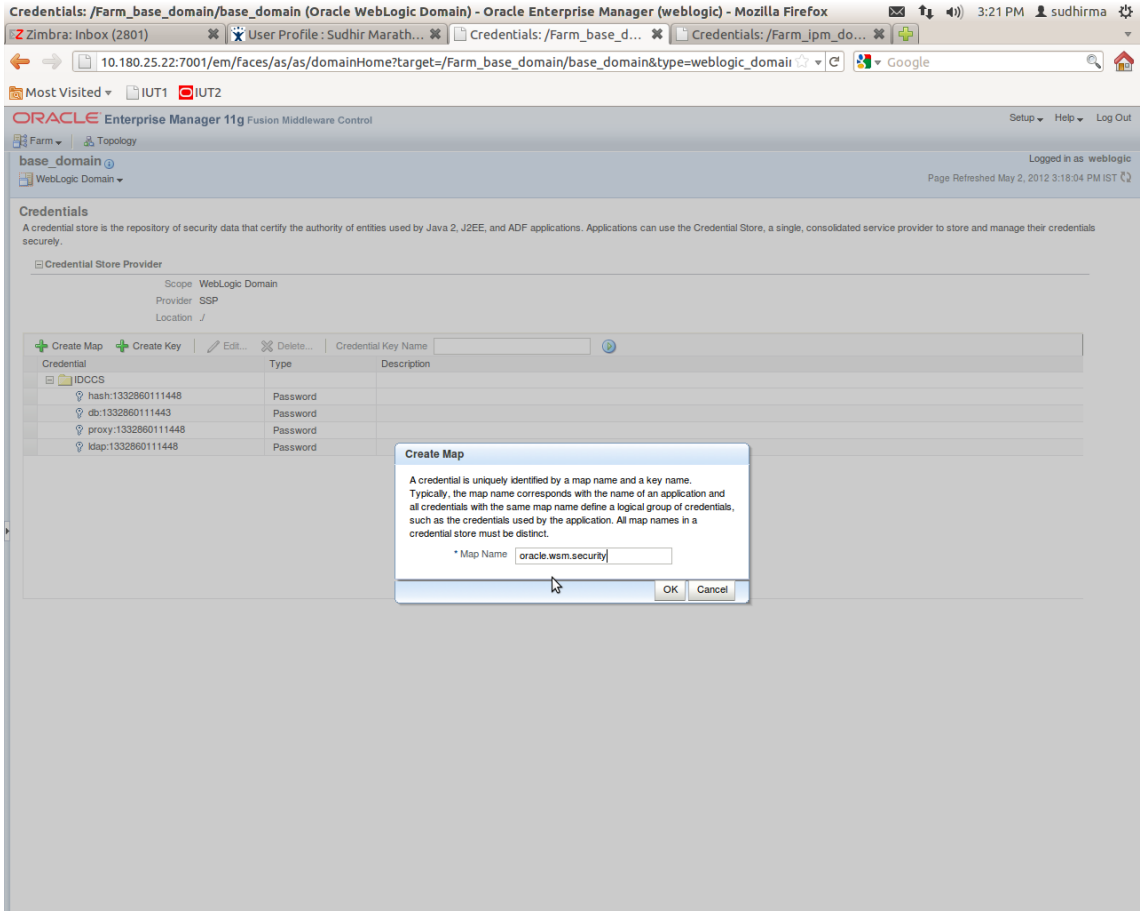
3. In the top menu, **click Weblogic Domain**. The corresponding menu appears.
4. Navigate to **Security > Credentials**. The Credentials page appears.

Figure 8–37 Navigate to Weblogic Domain --> Security --> Credentials



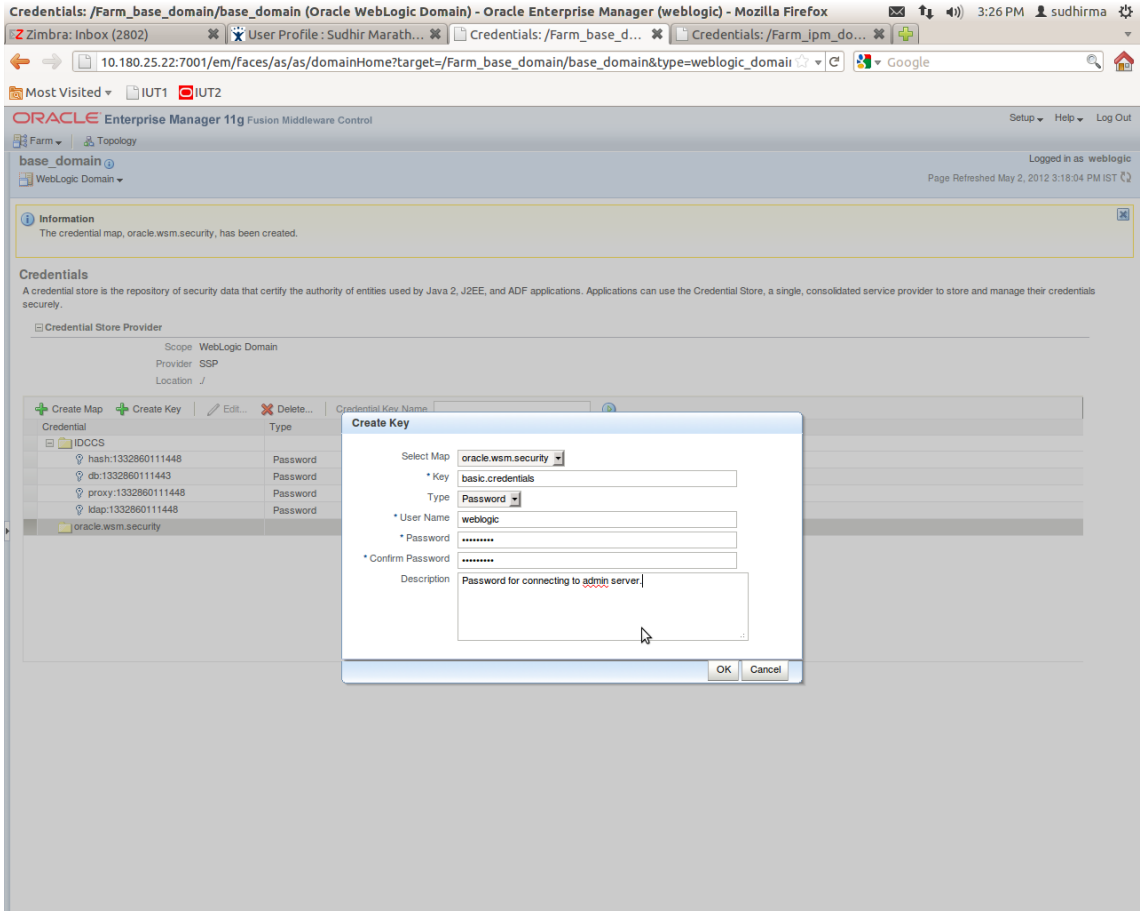
5. Click **Create Map** to create a map with the **Map Name** as **oracle.wsm.security.**

Figure 8–38 Create Map oracle.wsm.security



6. Click **Create Key** to create a key under the map **oracle.wsm.security.**.

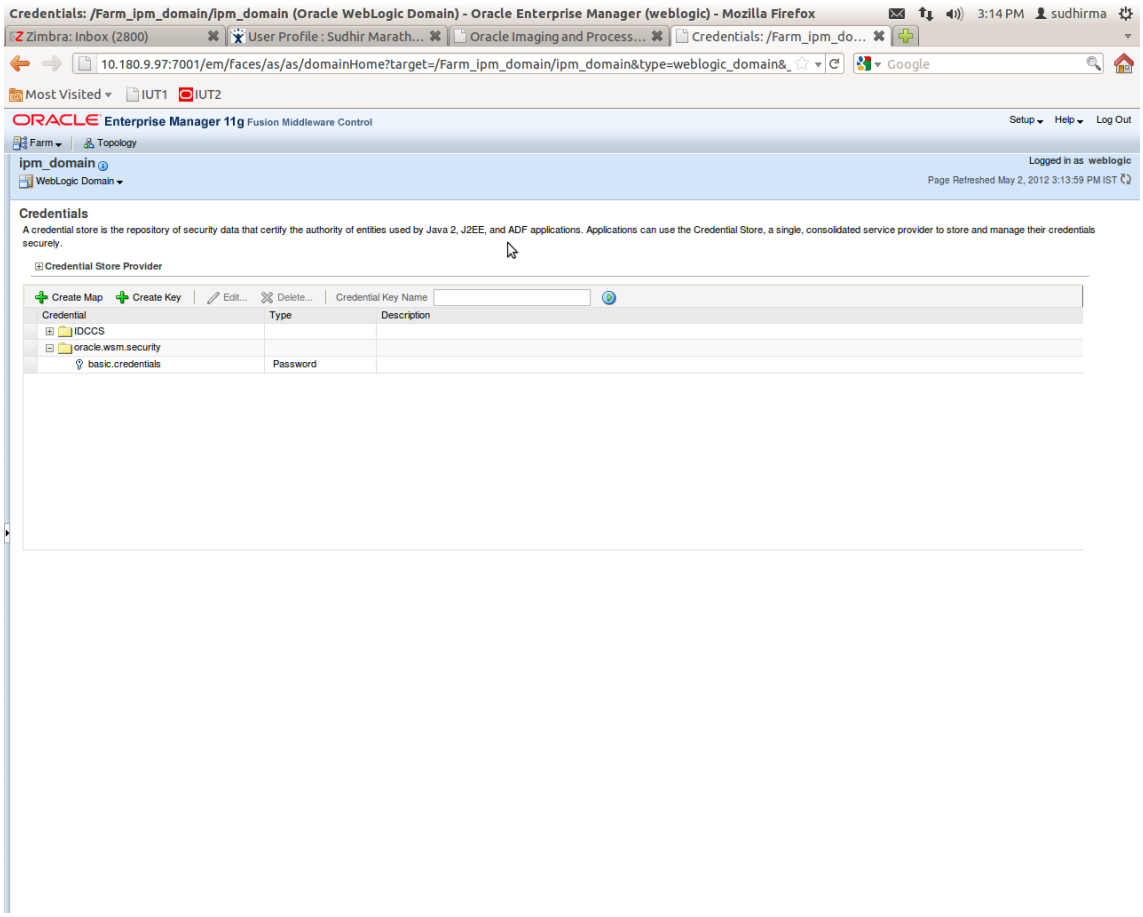
Figure 8–39 Create Key basic.credentials



7. In the **Key** field enter the key name as basic.credentials.
8. In the **Type** field, select the value as Password.
9. Enter the other required details.

10. Click **Ok.** The key is saved.

Figure 8–40 ipm_domain: Credentials Created

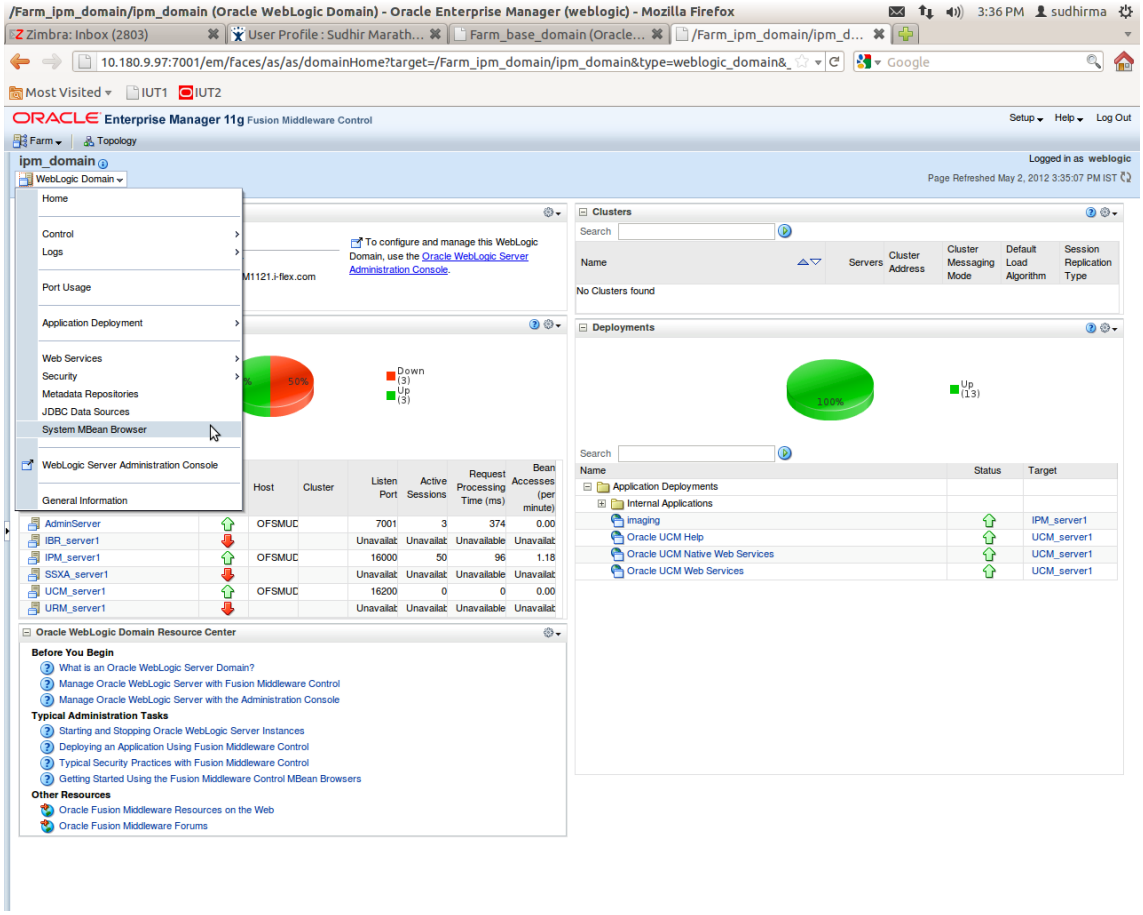


8.2.3 Setting up Input Agent Path

To set up input agent path:

1. Log in to Enterprise Manager (EM) console.
2. In the Name section, under Weblogic domain, click **ipm domain.**
3. In the top menu, click Weblogic Domain. The corresponding menu appears.
4. Navigate to the domain System MBean Browser. The System MBean Browser page appears.

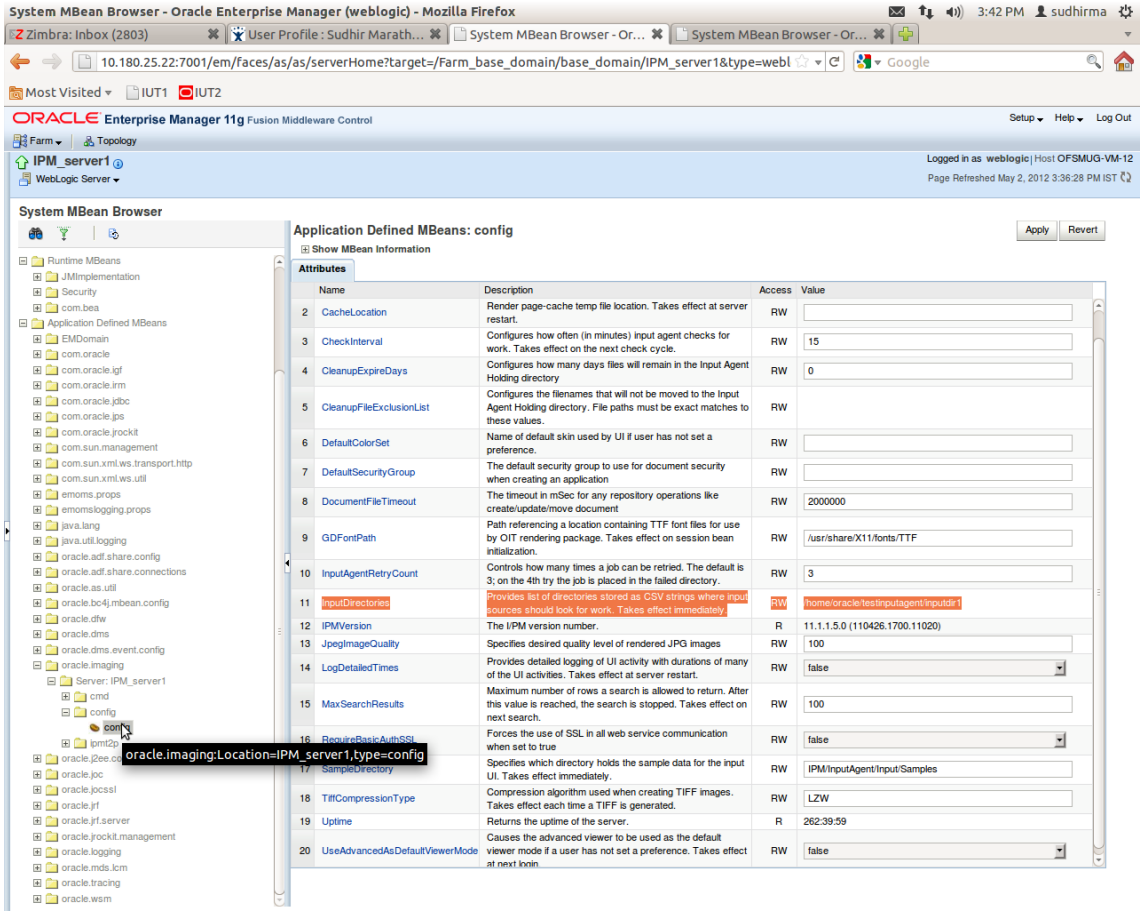
Figure 8–41 Navigate to Weblogic Domain --> System MBean Browser



5. In the left hand pane, navigate to **Application Defined MBeans > oracle.imaging > Server: IPM_ server1 > config.**

6. For the attribute InputDirectories, in the **Value** column enter the value to set the path for input agents.

Figure 8–42 InputDirectories: Enter Input Agent Path



	Name	Description	Access	Value
2	CacheLocation	Render page-cache temp file location. Takes effect at server restart.	RW	
3	CheckInterval	Configures how often (in minutes) input agent checks for work. Takes effect on the next check cycle.	RW	15
4	CleanupExpireDays	Configures how many days files will remain in the Input Agent Holding directory	RW	0
5	CleanupFileExclusionList	Configures the filenames that will not be moved to the Input Agent Holding directory. File paths must be exact matches to these values.	RW	
6	DefaultColorSet	Name of default skin used by UI if user has not set a preference.	RW	
7	DefaultSecurityGroup	The default security group to use for document security when creating an application	RW	
8	DocumentFileTimeout	The timeout in mSec for any repository operations like create/update/move document	RW	2000000
9	GDFontPath	Path referencing a location containing TTF font files for use by OIT rendering package. Takes effect on session bean initialization.	RW	/usr/share/X11/fonts/TTF
10	InputAgentRetryCount	Controls how many times a job can be retried. The default is 3; on the 4th try the job is placed in the failed directory.	RW	3
11	InputDirectories	Provides list of directories stored as CSV strings where input sources should look for work. Takes effect immediately.	RW	/home/oracle/testinputagent/inputdir1
12	IPMVersion	The I/PM version number.	R	11.1.1.5.0 (110426.1700.11020)
13	JpegImageQuality	Specifies desired quality level of rendered JPG images	RW	100
14	LogDetailedTimes	Provides detailed logging of UI activity with durations of many of the UI activities. Takes effect at server restart.	RW	false
15	MaxSearchResults	Maximum number of rows a search is allowed to return. After this value is reached, the search is stopped. Takes effect on next search.	RW	100
16	RequireBasicAuthSSL	Forces the use of SSL in all web service communication when set to true	RW	false
17	SampleDirectory	Specifies which directory holds the sample data for the input UI. Takes effect immediately.	RW	IPM/InputAgent/Input/Samples
18	TiffCompressionType	Compression algorithm used when creating TIFF images. Takes effect each time a TIFF is generated.	RW	LZW
19	Uptime	Returns the uptime of the server.	R	262:39:59
20	UseAdvancedAsDefaultViewerMode	Causes the advanced viewer to be used as the default viewer mode if a user has not set a preference. Takes effect at next login.	RW	false

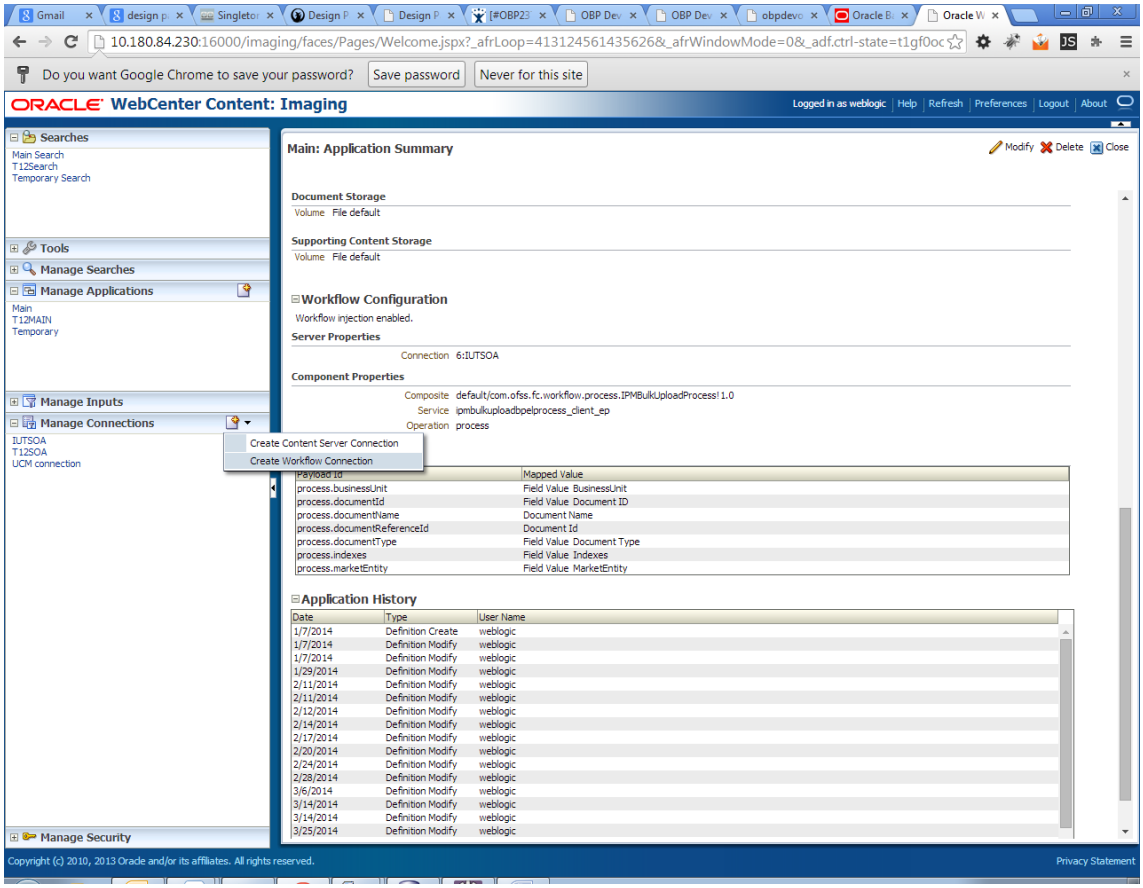
7. Restart IPM server.

8.2.4 Create SOA Connection

To create a SOA Connection:

1. Log in to Image Processing Management (IPM).
2. Navigate to the Manage Connections section.

Figure 8–43 Manage Connections: Create Workflow Connection



3. Click **Create Workflow Connection.**

   Workflow Connection is used to point to the "IPMBulkUpload" BPEL process deployed on the SOA server as part of the SOA media pack installation process.

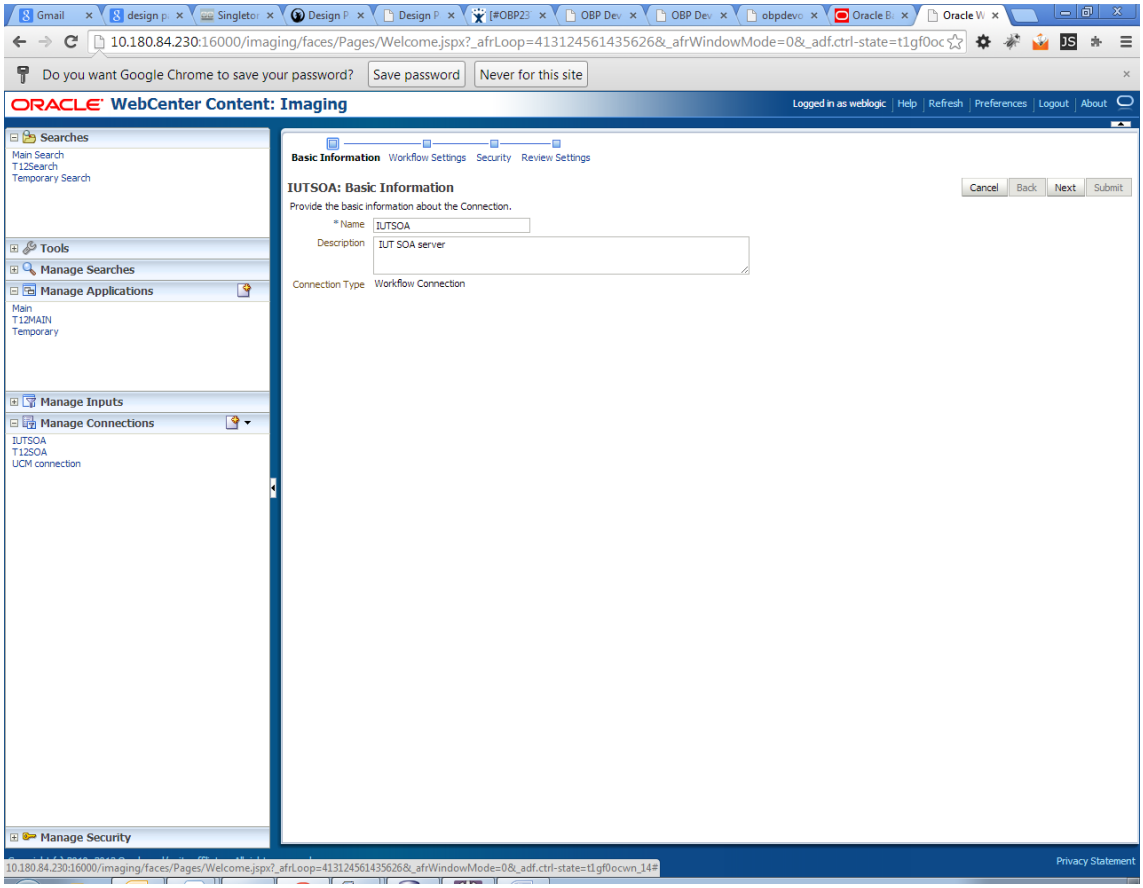
   `OBP_IPM_SOA_CONN_NAME`

   `SOA_MANAGED_SERVER_LISTEN_ADDRESS`

   `SOA_MANAGED_SERVER_LISTEN_PORT`

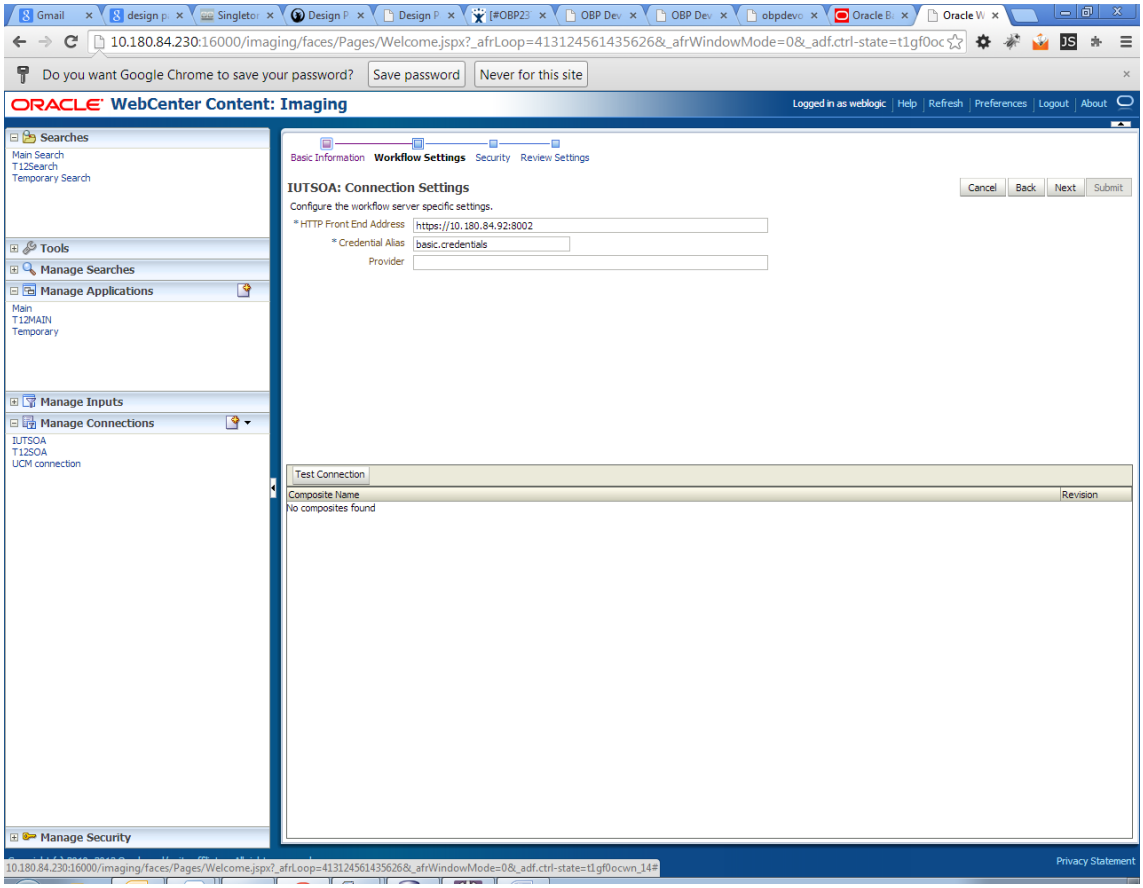
4. In the **Name** field, enter the name for SOA Connection as IUTSOA.

Figure 8–44 IUTSOA: Basic Information



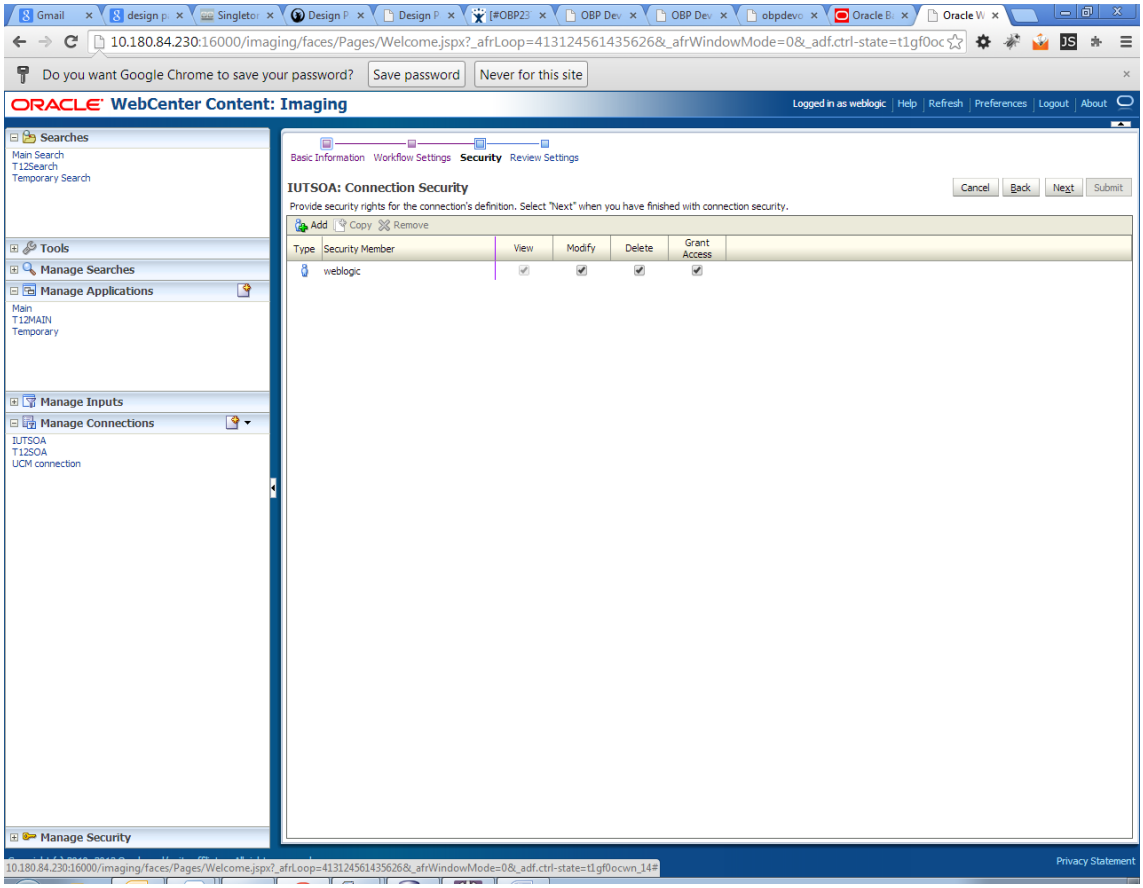
5. In the **HTTP Front End Address** field, enter the value for SOA server.

Figure 8–45 IUTSOA: Workflow Settings



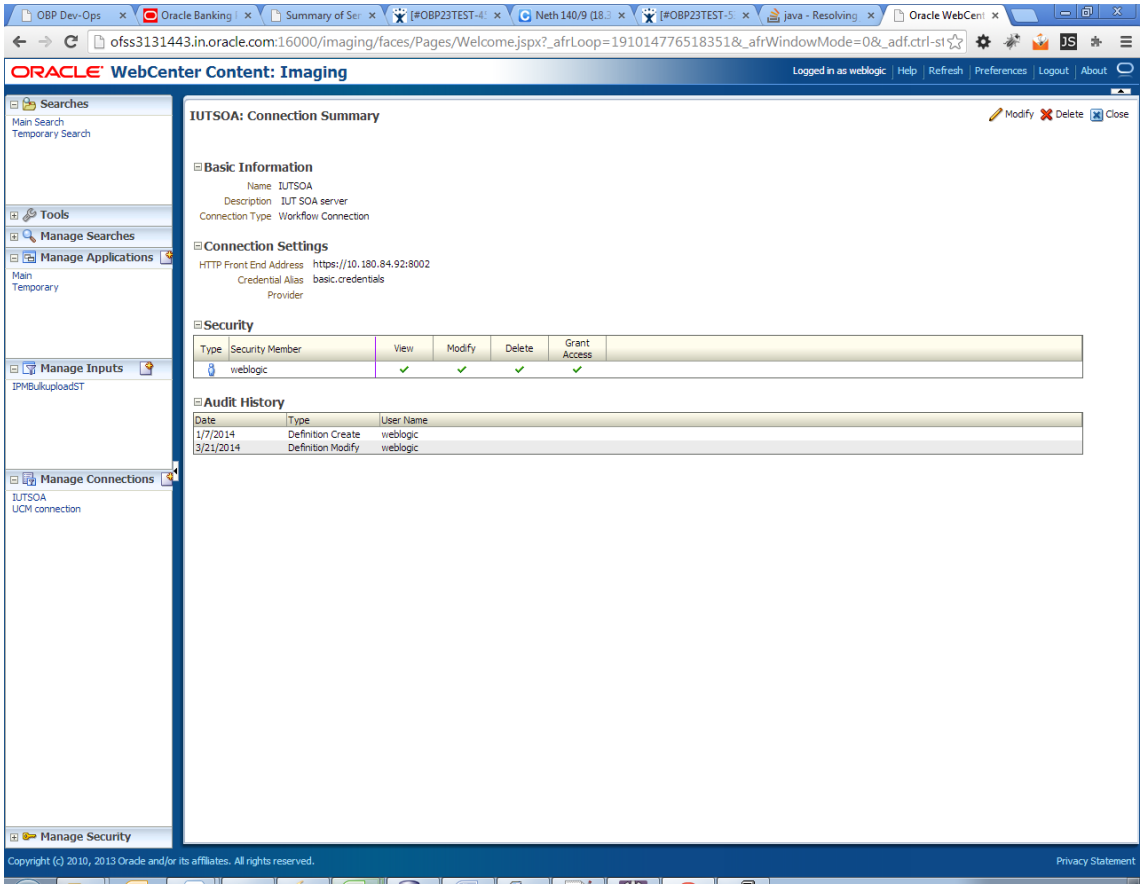
6. In the **Credential Alias** field, enter the value as **basic.credentials**.
7. Click **Next** to proceed. The Connection Security page appears.

Figure 8–46 IUTSOA: Connection Security



8. Provide the requisite security rights to the connection's definition.
9. Click **Submit.**
10. Click **Next**. The Review Settings page appears.

Figure 8–47 IUTSOA: Review Settings

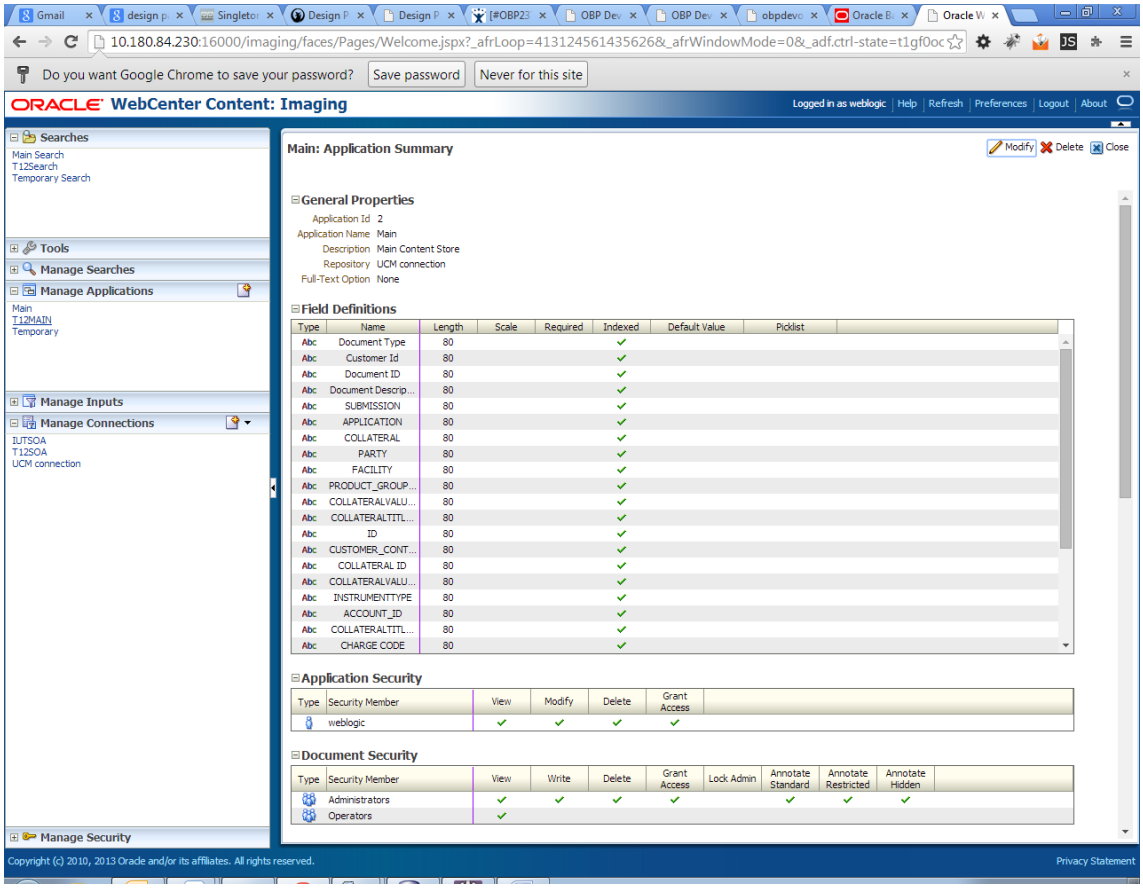


8.2.5 Manage Workflow Configuration

To manage workflow configuration:

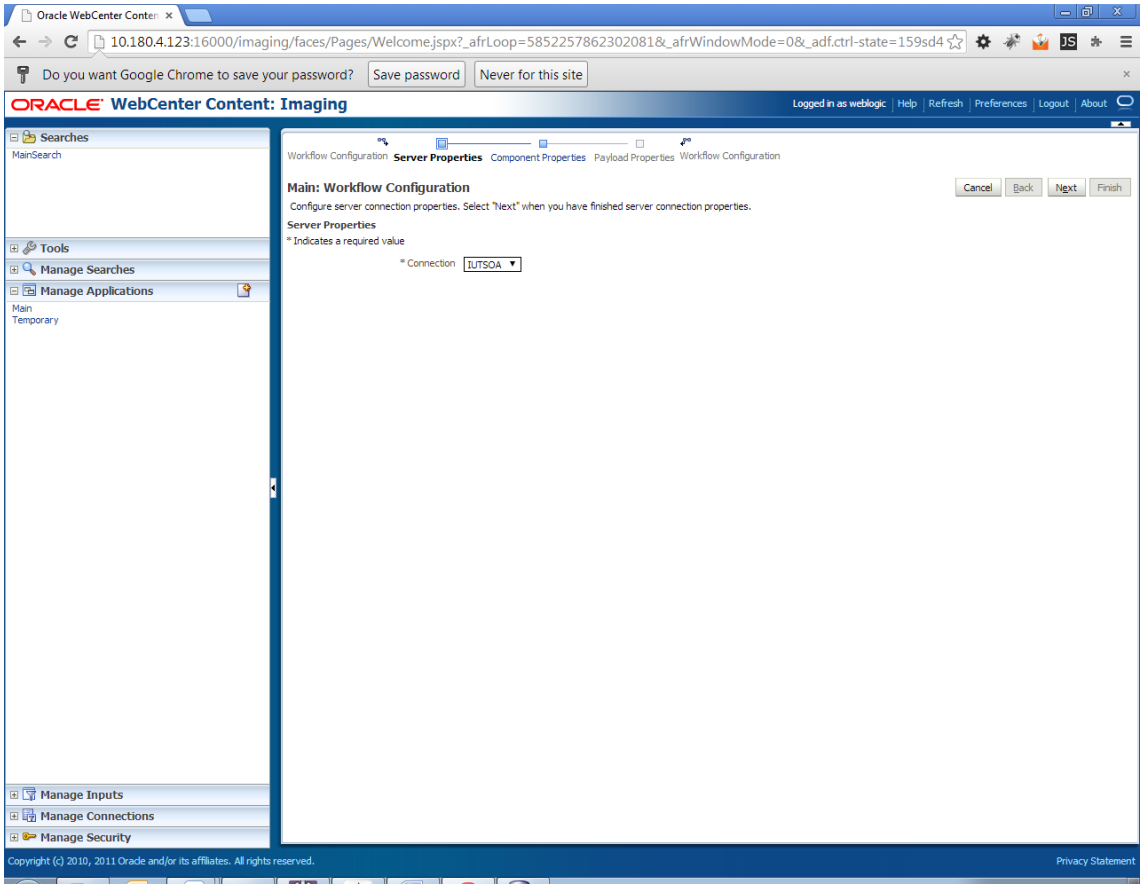
1. Log in to Image Processing Management (IPM).
2. Navigate to **Manage Applications** section.

Figure 8–48 Main: Application Summary



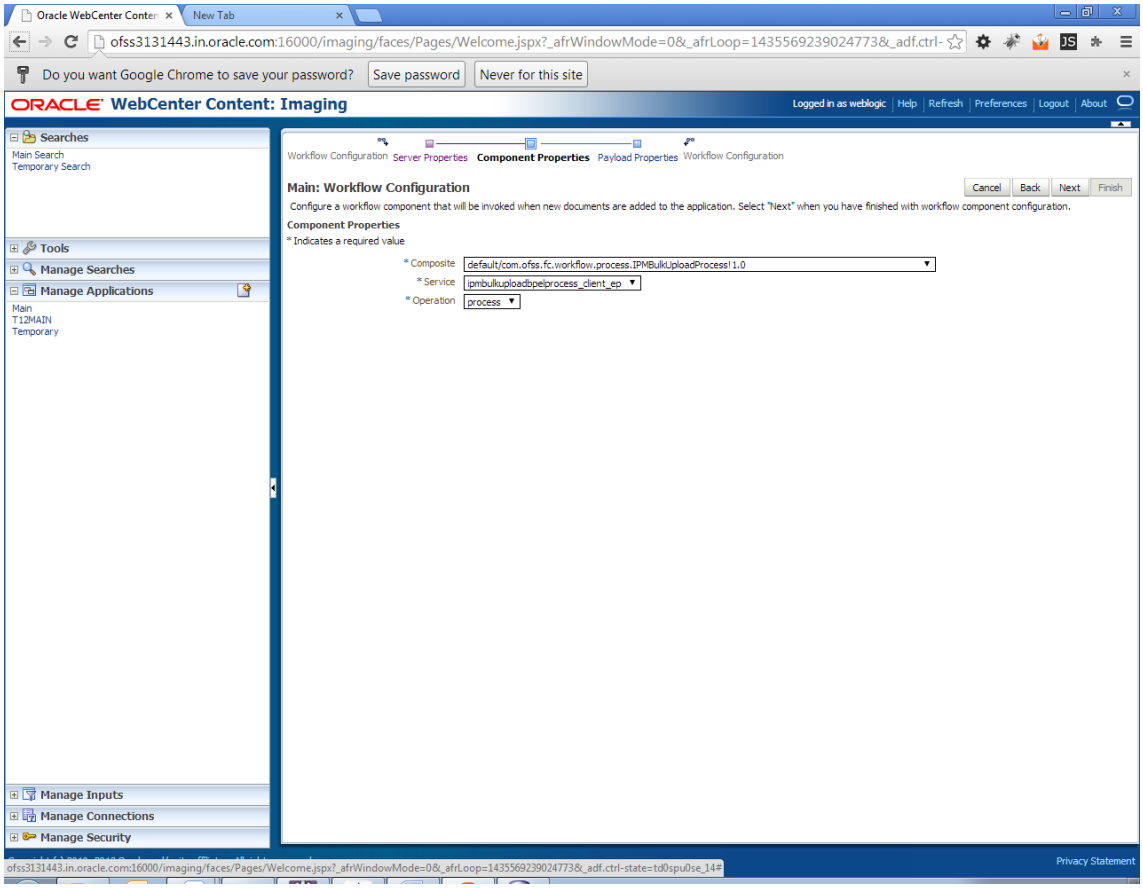
3. Select the application for which workflow configuration has to be done as shown in Figure 8–48.
4. Click **Modify.**
5. Navigate to the Workflow Configuration section.
6. Click the **Add/Modify** button.
7. In the Server Properties section, select the connection (IUTSOA) which was created in **Manage Connections** section from the **Connection** list.

Figure 8–49 Manage Applications - Server Properties



8. Click **Next.**
9. In the Component Properties section, select the Composite, Service and Operation values.
10. From the Composite list, select default/com.ofss.fc.workflow.process.IPMBulkUploadProcess!1.0 from the list of process.
11. From the Service list, select ipmbulkuploadbpelprocess_client_ep.
12. From the **Operation** list, select **process.**

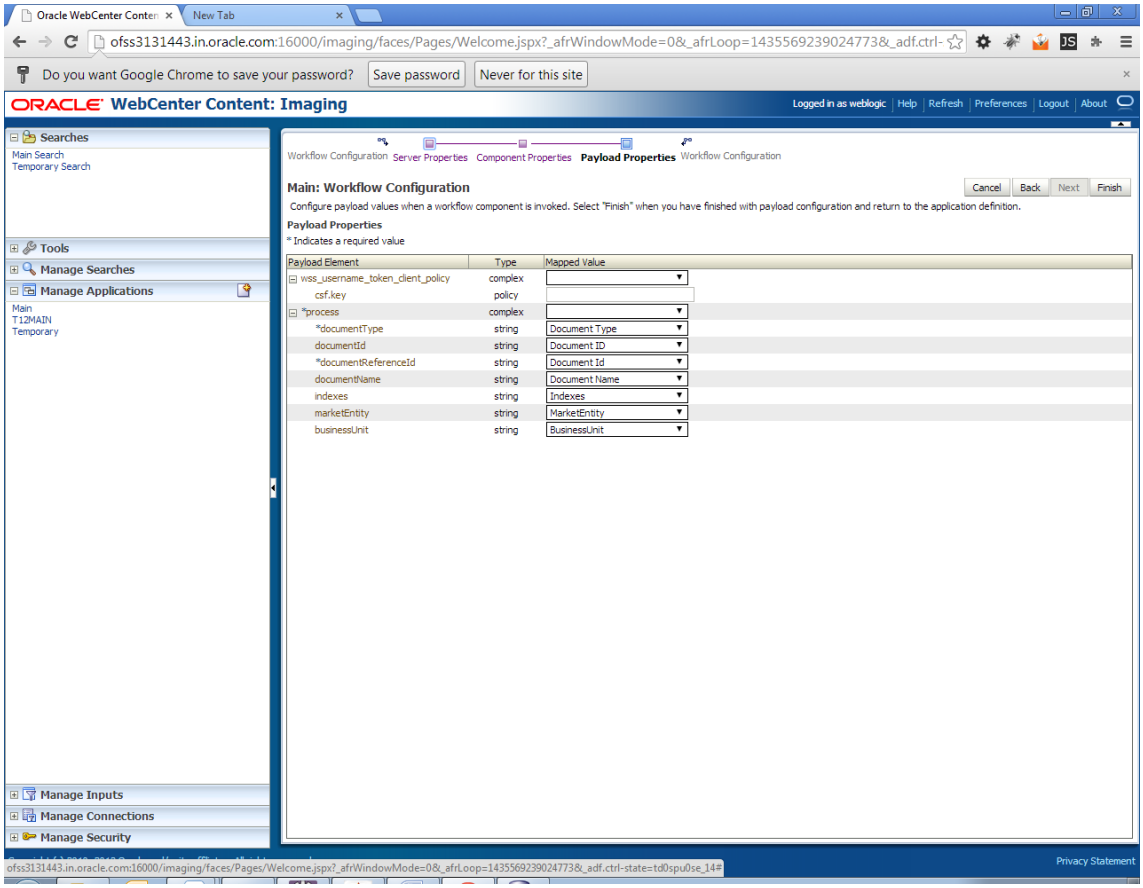
Figure 8–50 Manage Applications - Component Properties



13. Click **Next**.
14. In the Payload Properties section, map the payload elements with mapped value as shown in following figure.
15. Map the process fields with application field definitions.

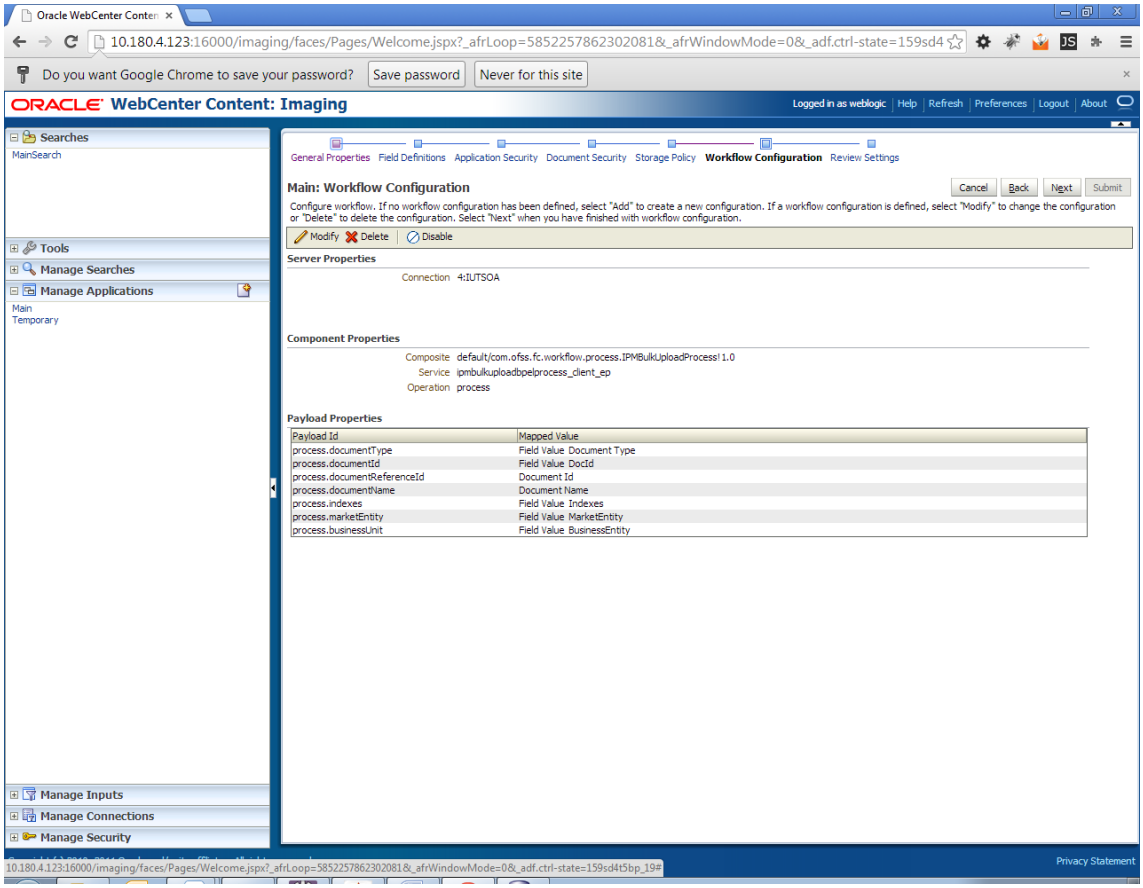
> **Note**
>
> The document ReferenceId is mapped to Document Id (IPM internal field), whereas documentId is mapped to doc Id which is application field.

Figure 8–51 Manage Applications - Payload Properties



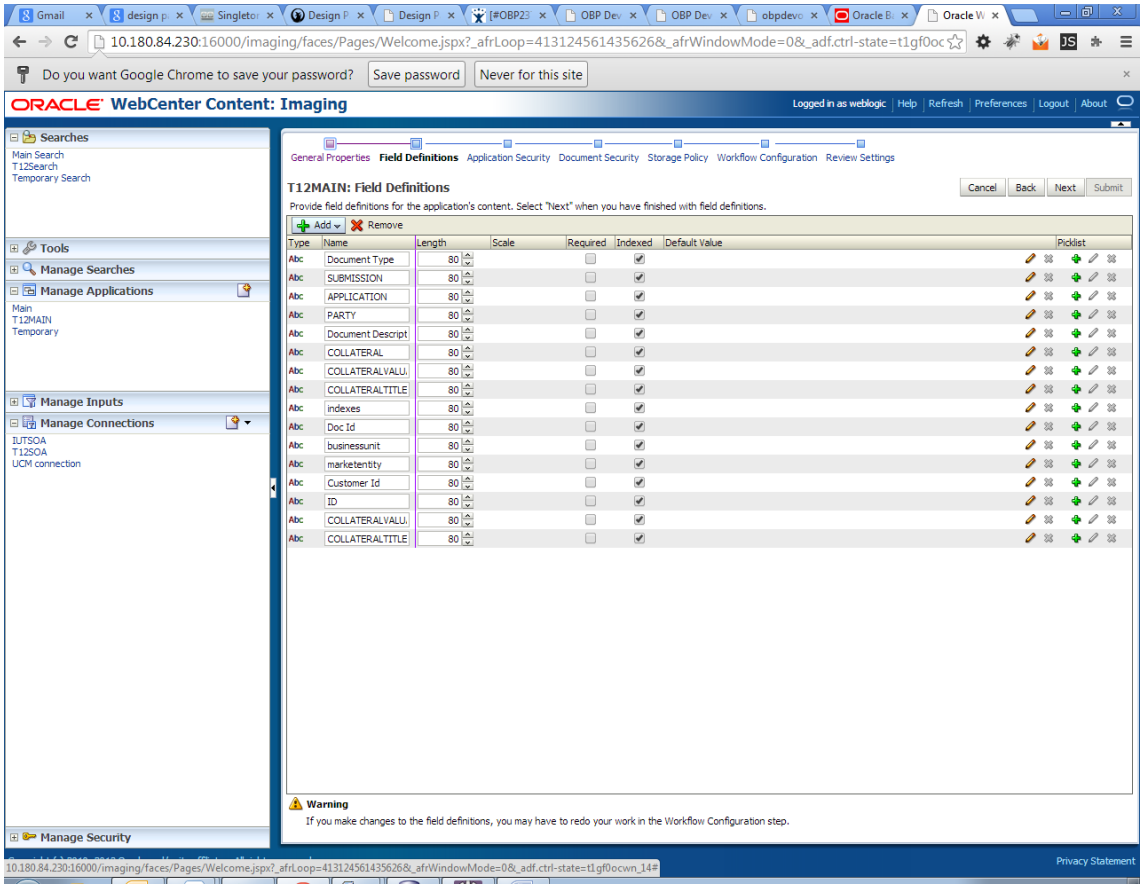
16. Click **Next.**
17. Complete the Workflow Configuration. Click **Next.**

Figure 8–52 Manage Applications - Workflow Configuration



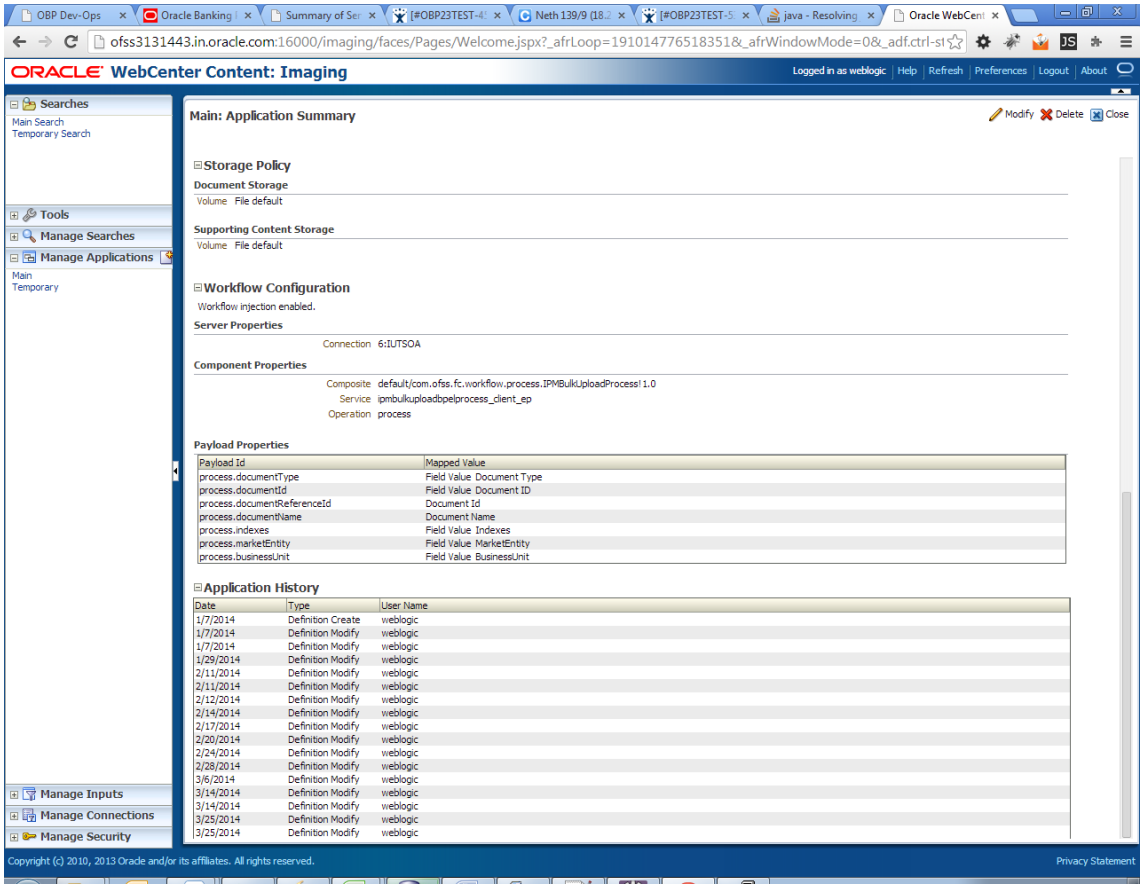
18. Add all those fields which are not present in the application as shown below.

Figure 8–53 Field Definitions



The Main Application Summary appears as shown Figure 8–54.

Figure 8–54 Main: Application Summary

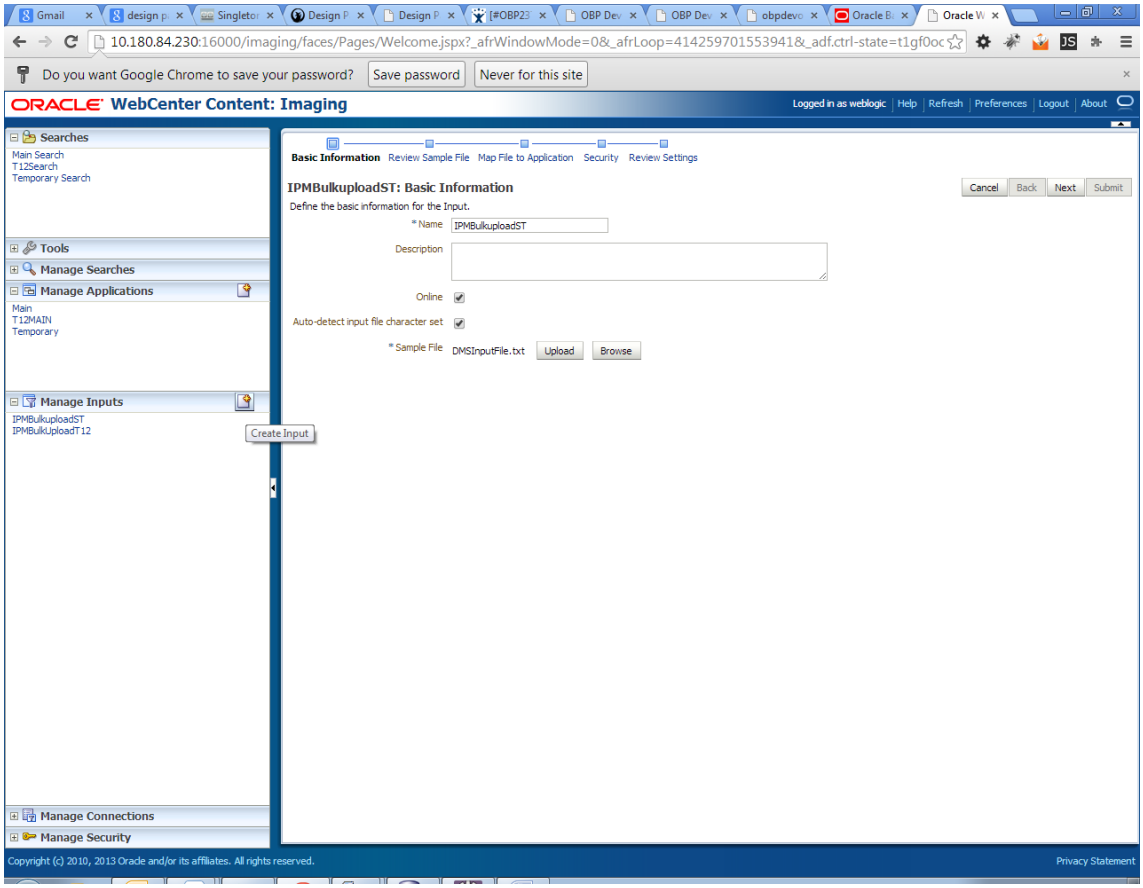


8.2.6 Manage Inputs for Input Agents

To manage workflow configuration:

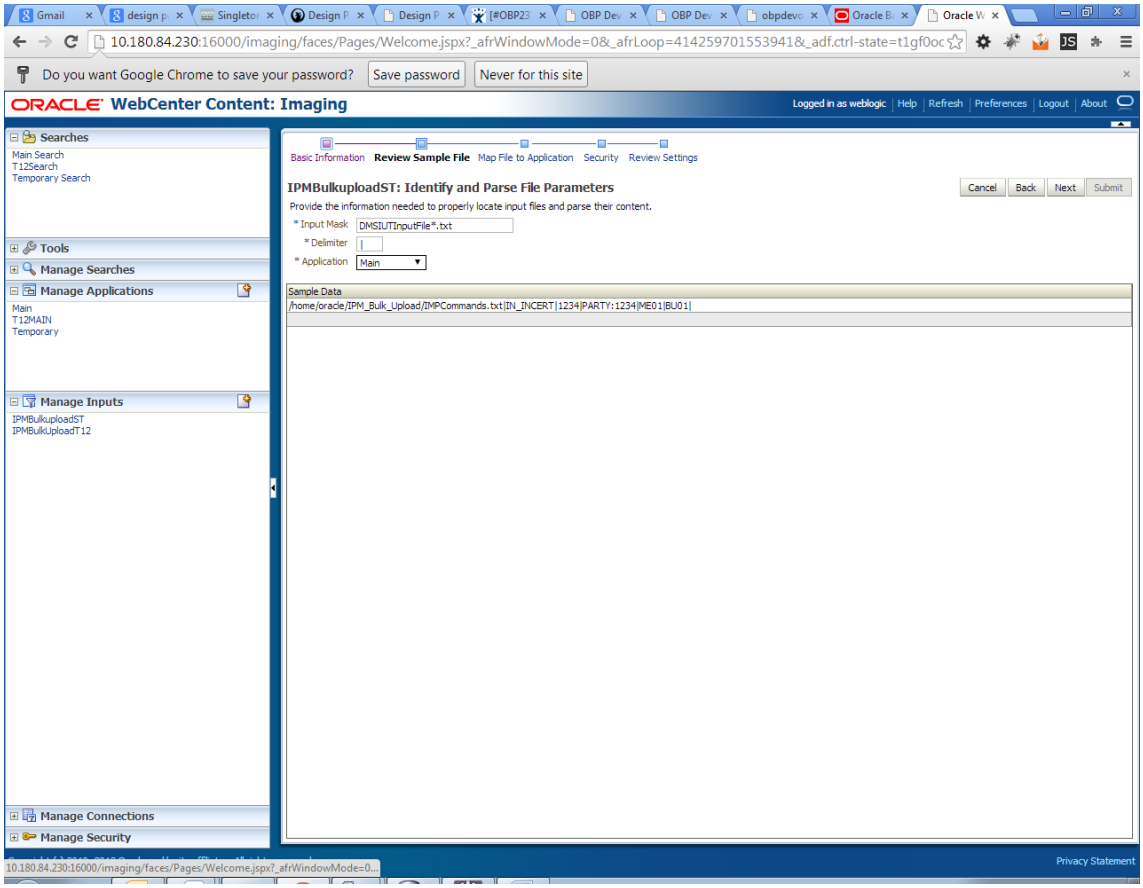
1. Log in to Image Processing Management (IPM).
2. Navigate to **Manage Inputs** section.

Figure 8–55 Input Agent: Basic Information



3. Define an input agent by entering a **Name**. For example, **bulkUploadInput**.
4. Define Input Mask as DMSInputSampleFile.txt.

Figure 8–56 Input Agent: Input Mask



5. Upload the attached sample file.

   For example, name the sample file as DMSInputSampleFile.txt and add the following content to the sample file.

   ```
   /home/oracle/IPM_Bulk_Upload/IMPCommands.txt|IN_
   INCERT|1234|PARTY:1234|ME01|BU01|
   ```

6. In the **Input Mask** field enter the value which should be the same as the name given in table flx_fw_config_all_b.

   select prop_value from flx_fw_config_all_b where category_id = 'reports' and `prop_id='BULK_UPLOAD_FILE_NAME_PREFIX';`

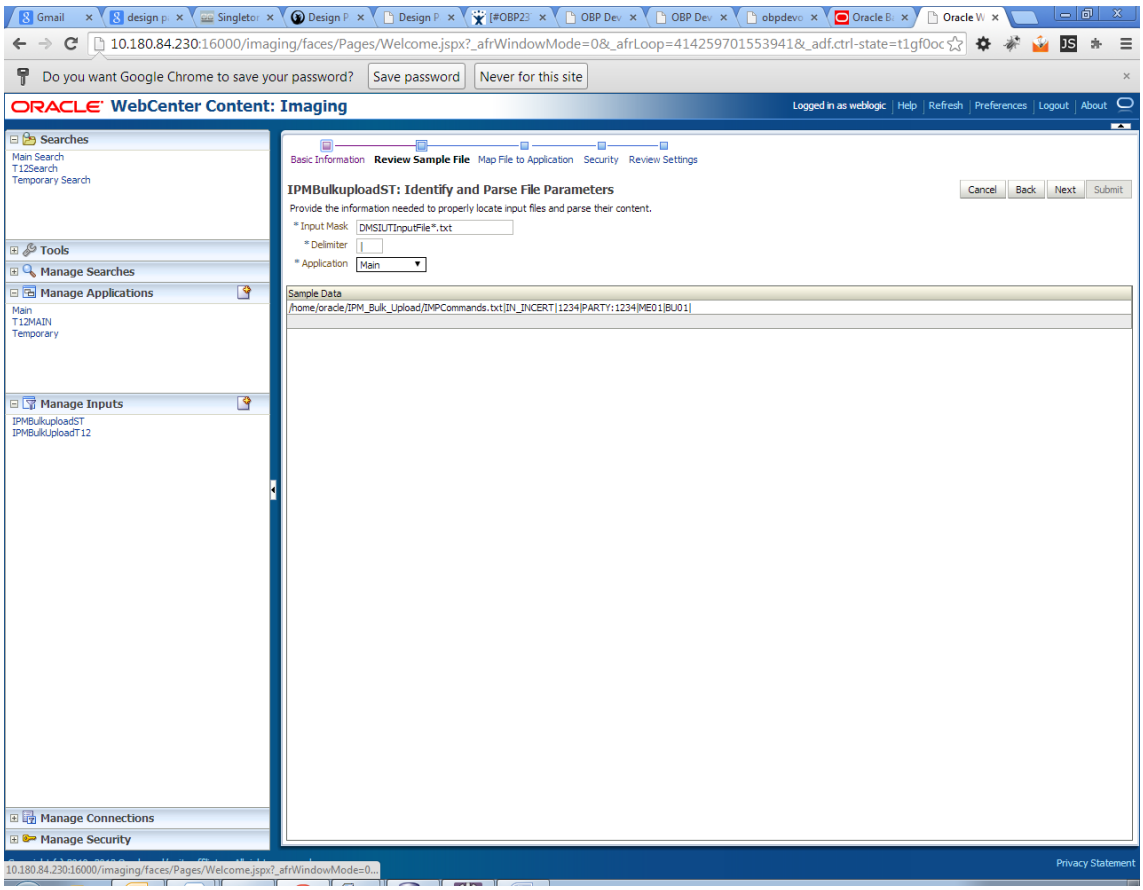
   Note

   Input Mask name should have a * (asterisk character) to enable the process to read all the files whose prefix is same as the input mask value.

7. In the **Delimeter** field, enter the delimiter value as | (vertical bar character).

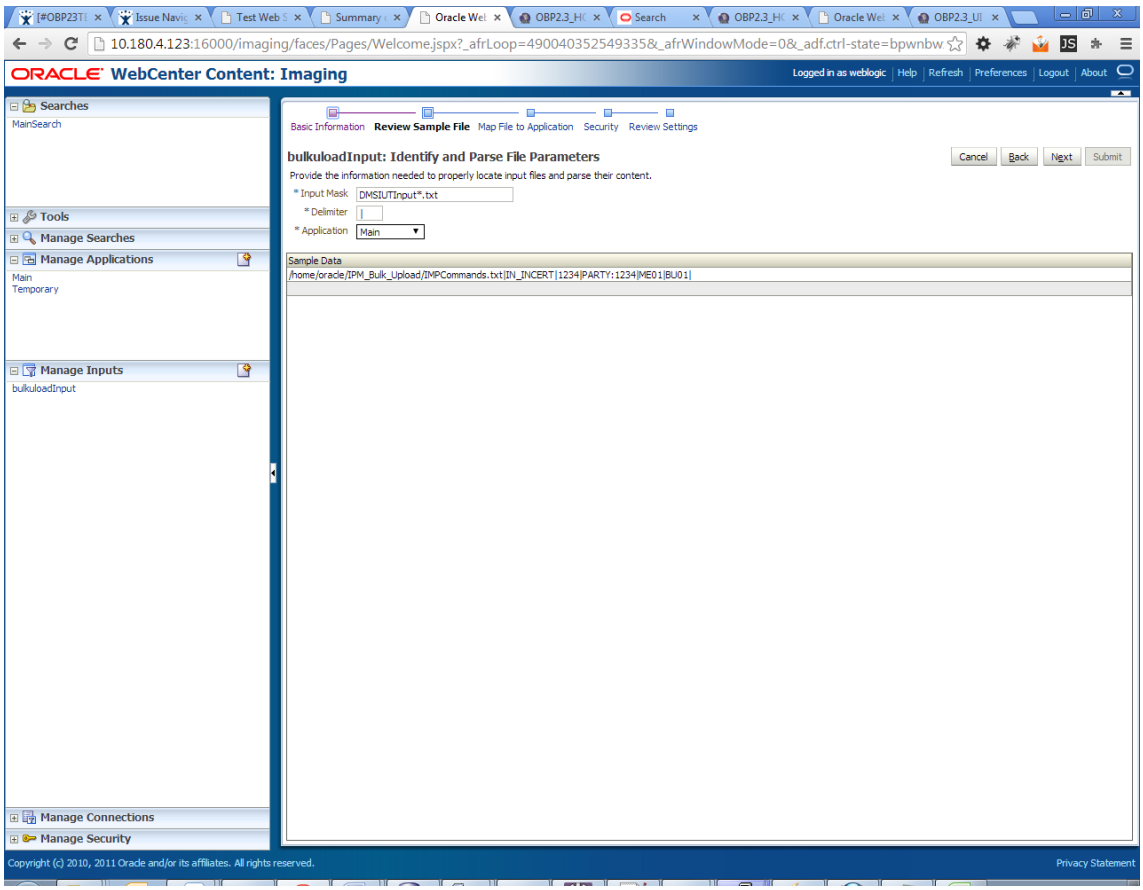
8. From the **Application** field, select the application to which the input agent will be applied.

Figure 8–57 Input Agent: File Parameters



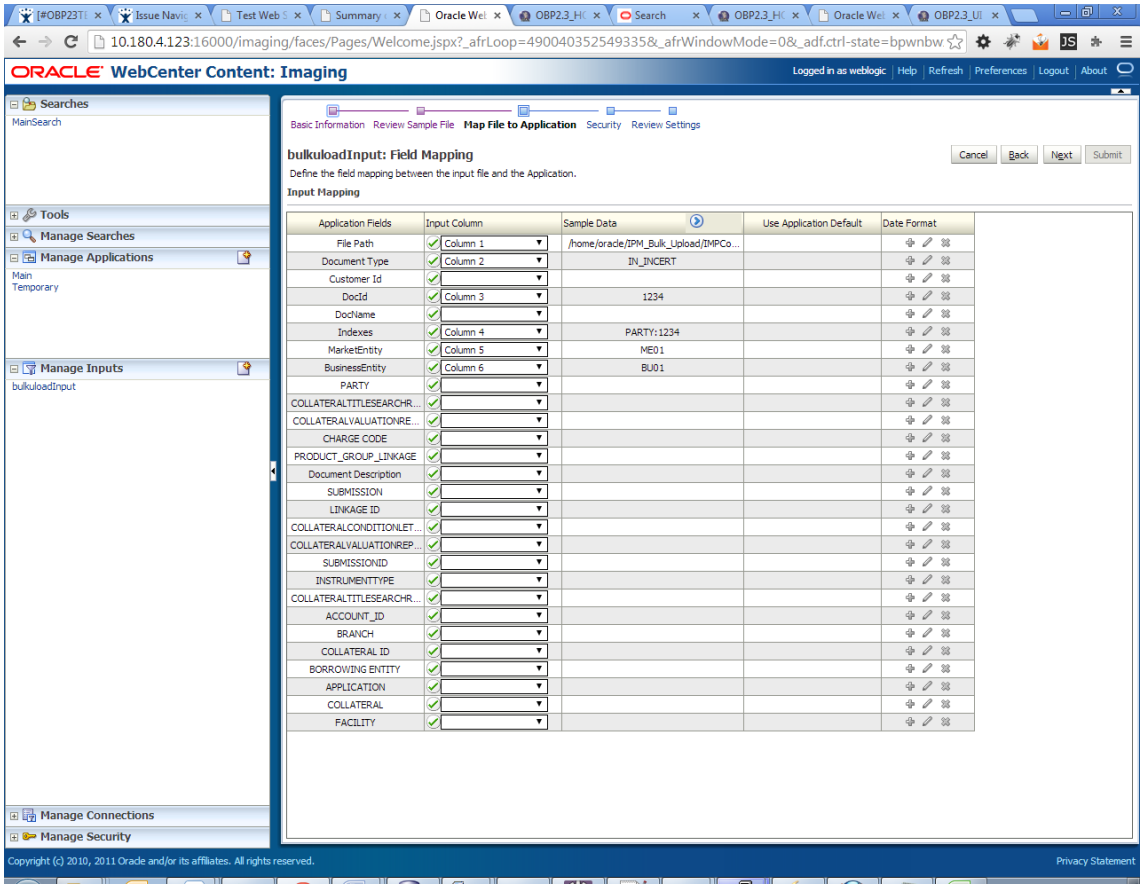
9. In the Field Mapping section, map the **Application Fields.**

Figure 8–58 Input Agent: Fields Mapping



10. After completion of the procedure, the Input Summary appears. The Input agent should have the settings similar to those shown in Figure 8–59.

Figure 8–59 Input Agent: Summary



Note

Do not forget to toggle online, else the input agent will not pick up any file for processing.

8.2.7 Additional Steps

1. Update user and bankcode as follows:

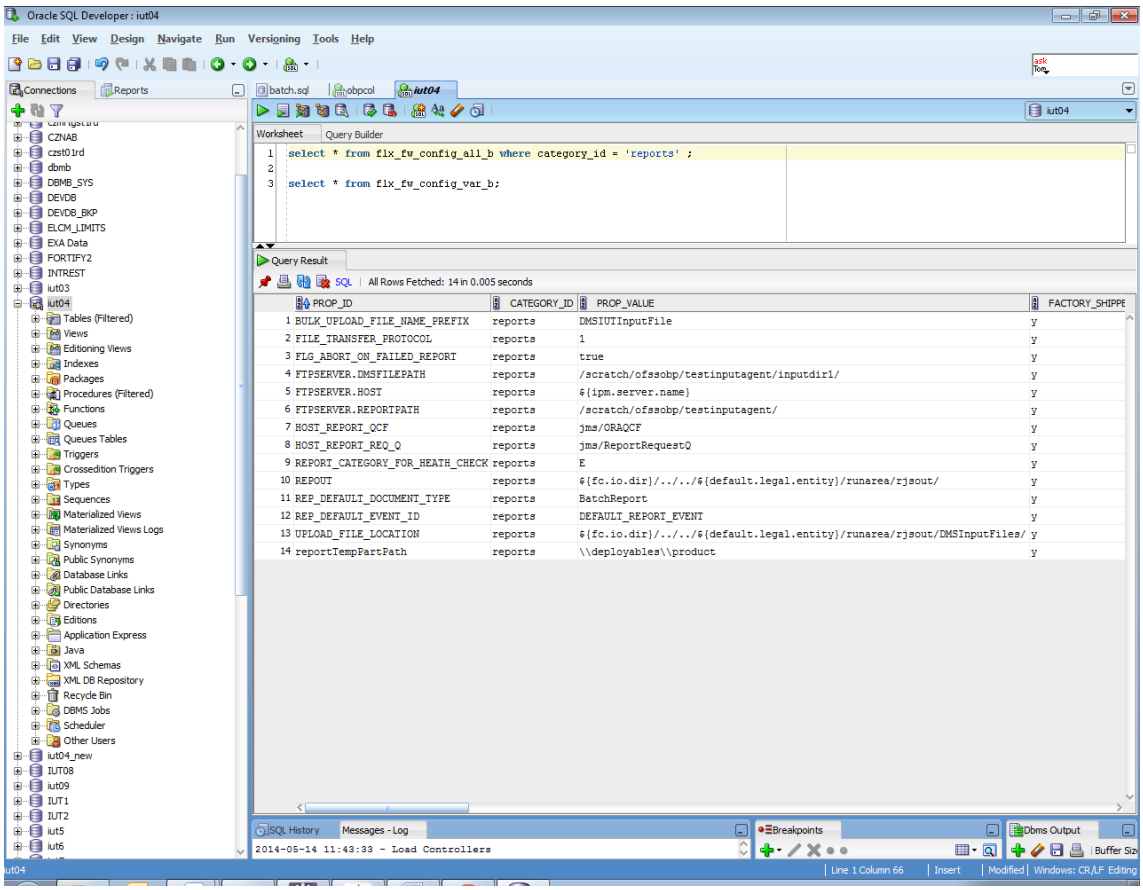
```
update flx_fw_config_all_b set prop_value='48' where prop_
value='335' and category_id like 'contentmanager%';
update flx_fw_config_all_b set prop_value='ofssuser' where
prop_id='userId' and category_id like 'contentmanager%';
```

2. In the flx_fw_config_all_b table, the values for **PROP_ID** should be the same as mentioned for the path in IPM server.

Table 8–1 PROP ID Values

PROP_ID	PROP_VALUE
FTPSERVER.DMSFILEPATH=/scratch/ofssobp/testinputagent/inputdir1/	Path in IPM config
FTPSERVER.REPORTPATH=/scratch/reports/	Path where files will be FTP
FTPSERVER.HOST	IPM IP
BULK_UPLOAD_FILE_NAME_PREFIX	Input Mask name given in 1.5 Manage Inputs for Input Agents section.

Figure 8–60 flx_fw_config_all_b table



3. FTP service on IPM server should be running and FTP user should be created on host user connectors.

8.2.8 SSL Handshake Resolution

For resolving the SSLHandshake between IPM and SOA server:

1. Save the SOA server Certificate. SOA certificate needs to be saved in Base64 (.cer) format for import to IPM server.
2. Import the SOA server certificate on IPM server with following command.

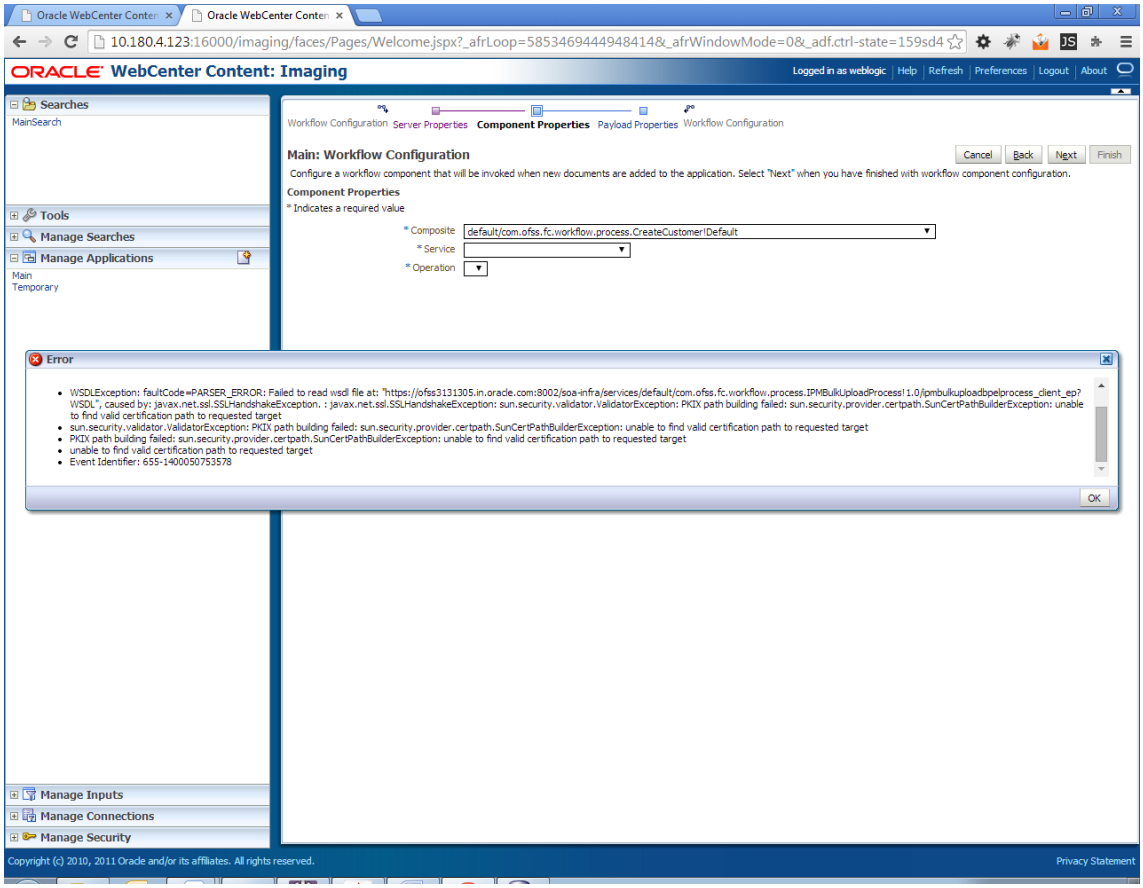
   Copy certificate at following path on IPM server.

   keytool -import -noprompt -trustcacerts -alias UI_SSL_trustself -file SOACert.cer -keystore cacerts -storepass changeit
3. Security policy for IPMbulkuploadProcess can been removed (if required).

   Security for called method

   com.ofss.fc.app.content.service.DocumentContentApplicationService.documentUpload (SessionContext, DocumentDTO) needs to be removed (for Development environment).

Figure 8–61 SSL Handshake Resolution



8.3 IPM Report Upload Setup

This section describes the configuration on IPM server, which is required for bulk report upload on IPM.

8.3.1 Prerequisites

Following are the prerequisites before proceeding with bulk upload process setup:

1. Application on IPM server on which bulk upload process needs to be configured must be created. For more information to understand the application creation process, see Image Processing and Management Admin Guide.
2. com.ofss.fc.workflow.process.ReportIPMRefStoreProcess must be deployed on SOA server.

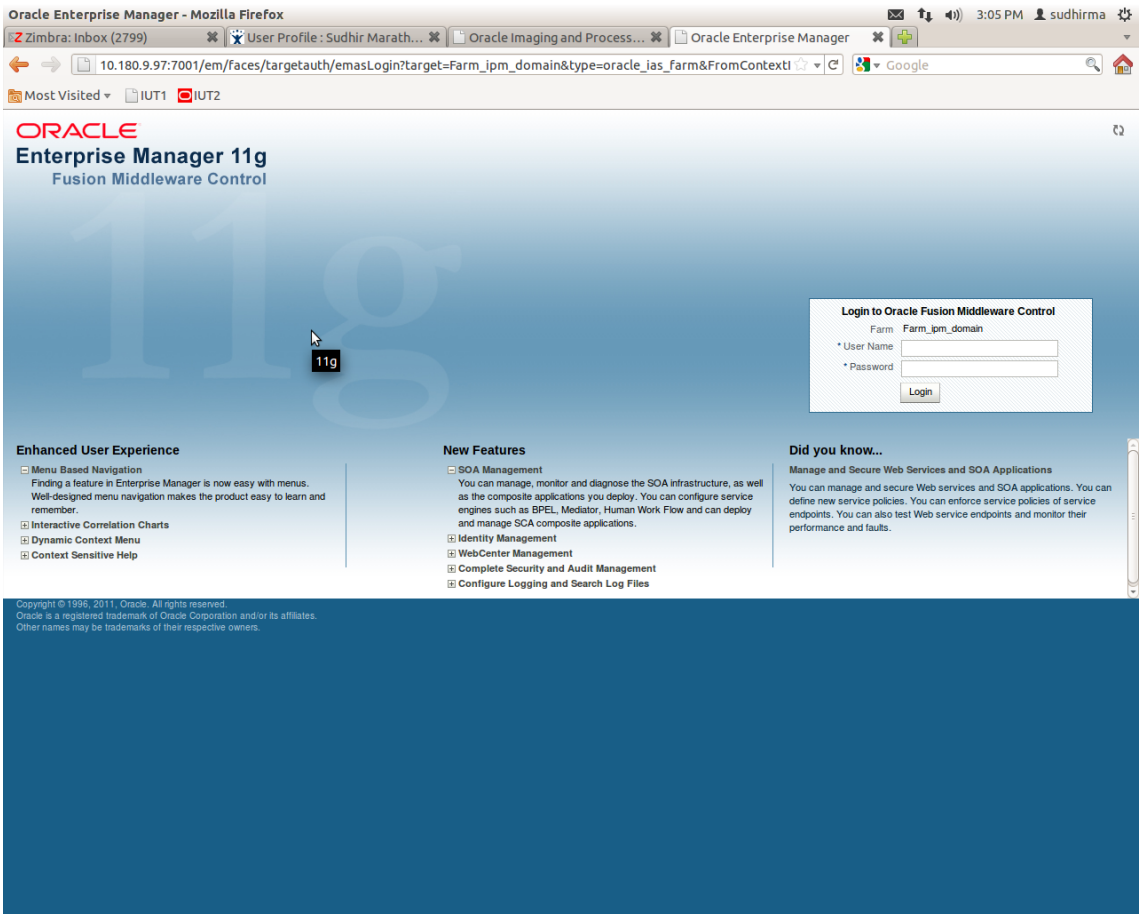
8.3.2 Setting up the Connection Name

To set up a bulk process we need to start by setting up the connection name, which is used as JNDI for IPM to BPEL connection.

To set up a bulk process:

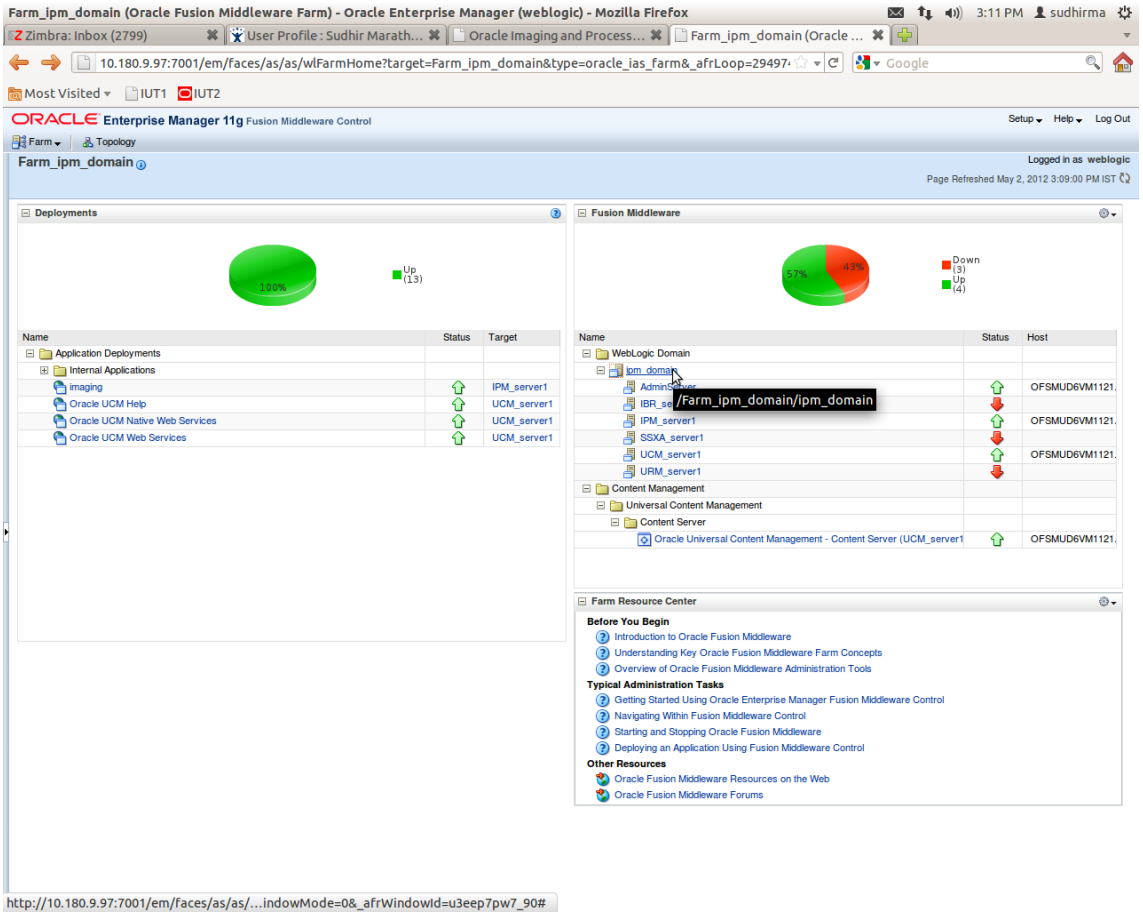
1. Log in to Enterprise Manager (EM) console.

Figure 8–62 Log in to Enterprise Manager (EM) console



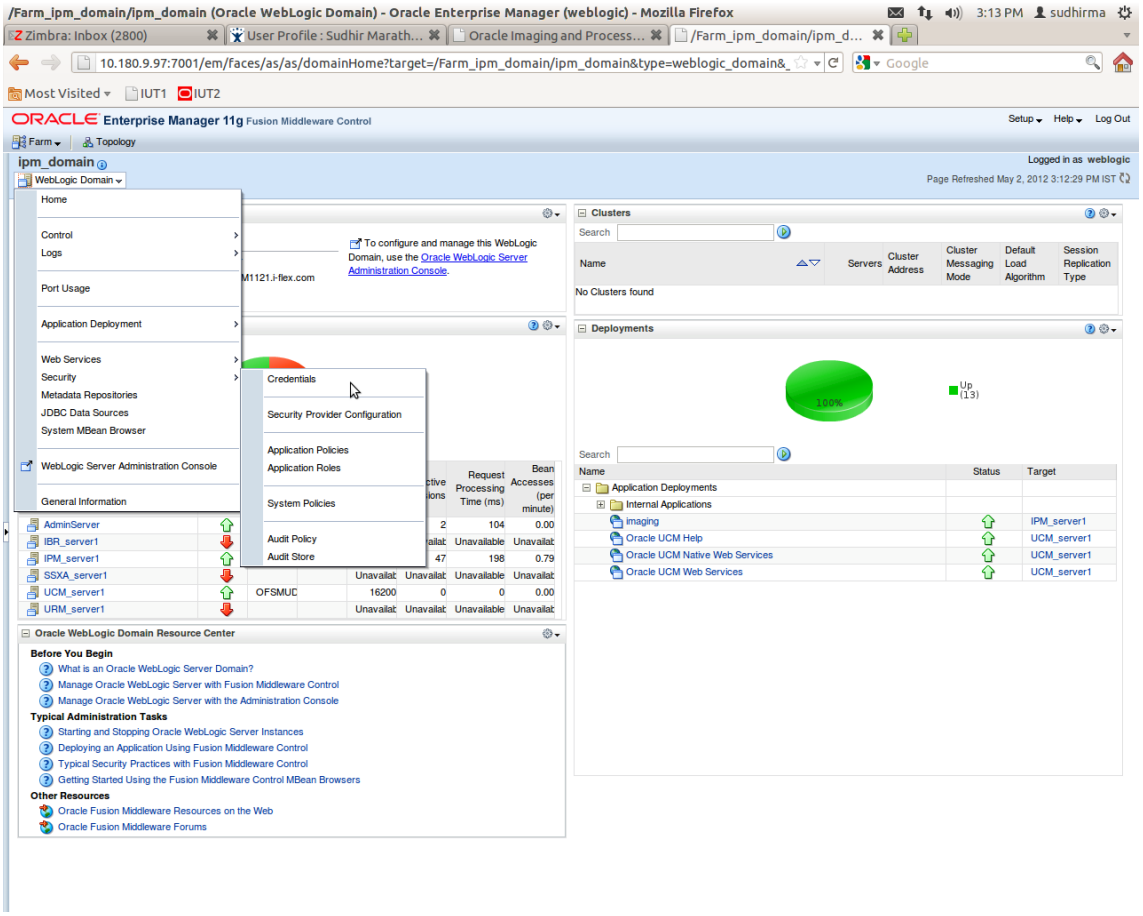
2. In the Fusion Middleware section, under Weblogic domain, click **ipm domain** (or base domain where ipm server is installed).

Figure 8–63 Click Weblogic Domain: ipm domain



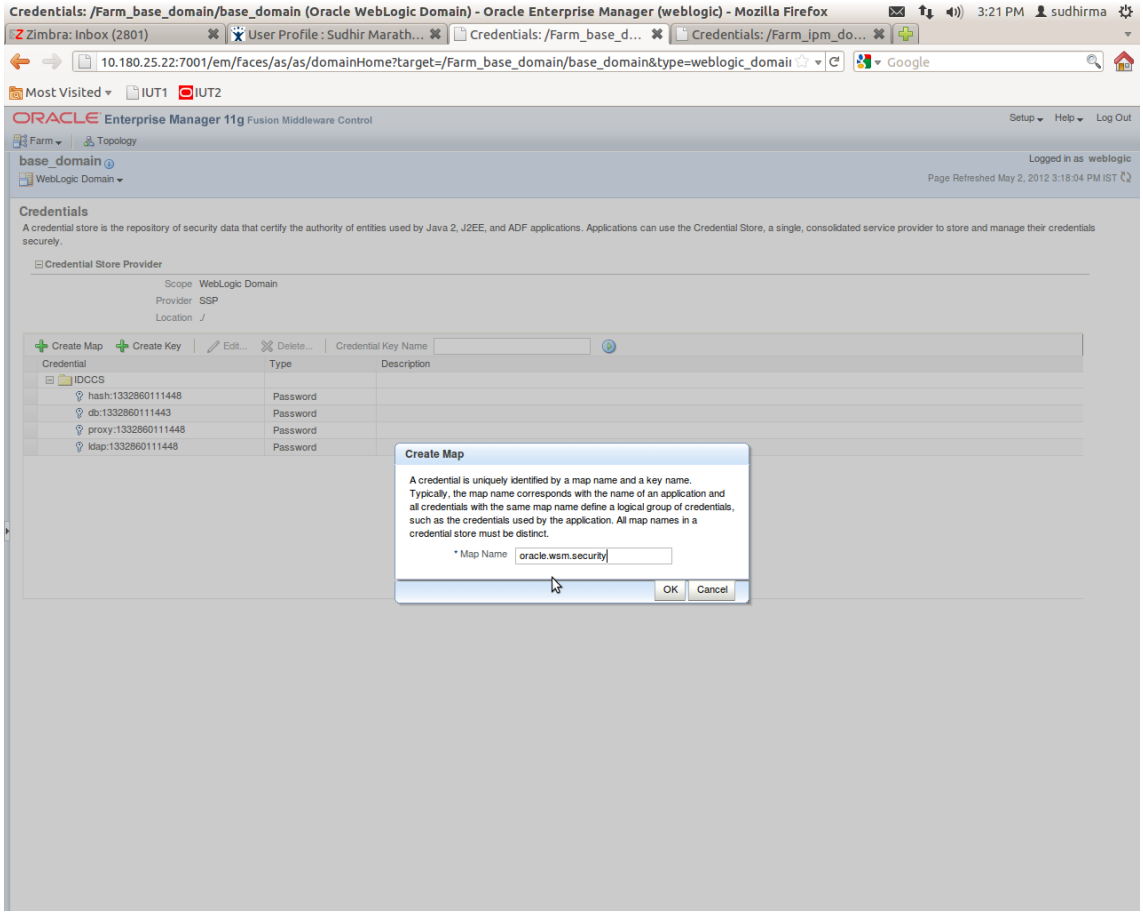
3. In the top menu, click **Weblogic Domain.** The corresponding menu appears.
4. Navigate to **Security > Credentials.** The Credentials page appears.

Figure 8–64 Navigate to Weblogic Domain --> Security --> Credentials



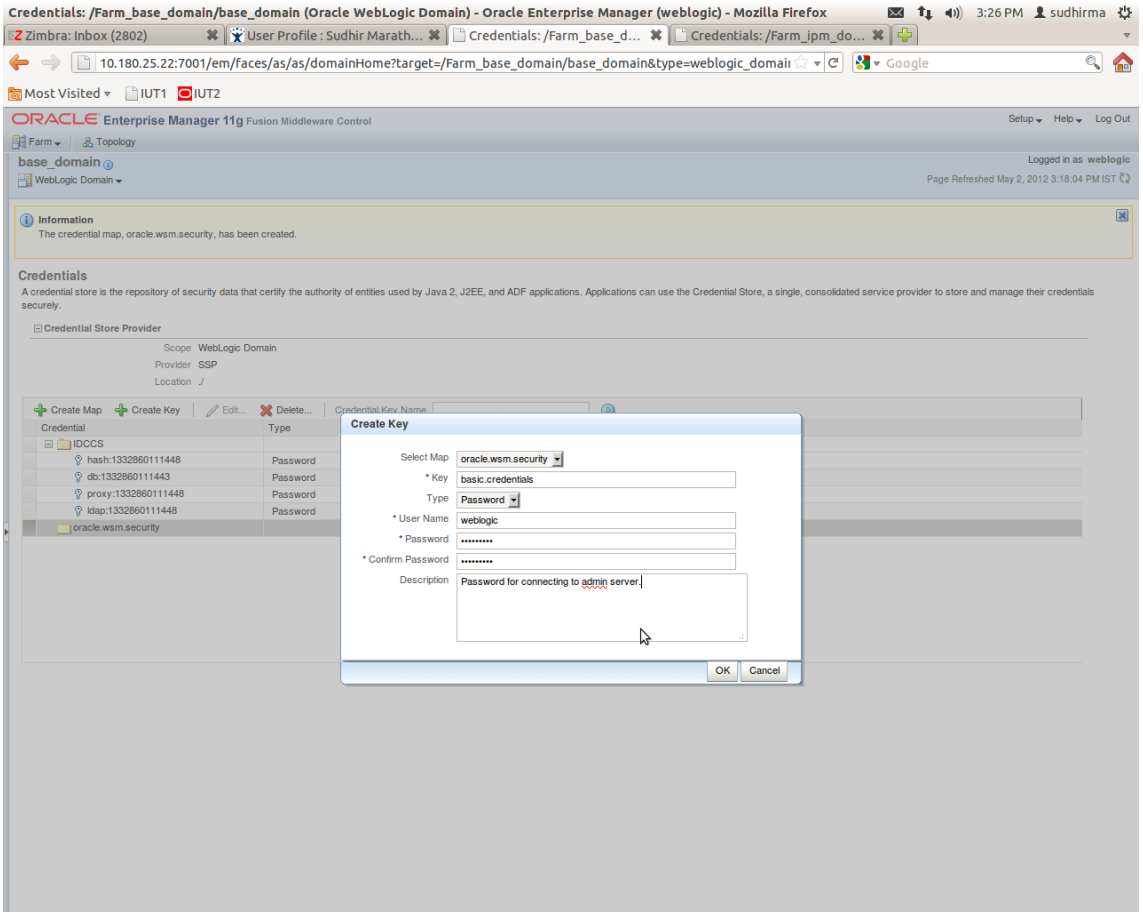
5. Click **Create Map** to create a map with the **Map Name** as **oracle.wsm.security.**

Figure 8–65 Create Map oracle.wsm.security



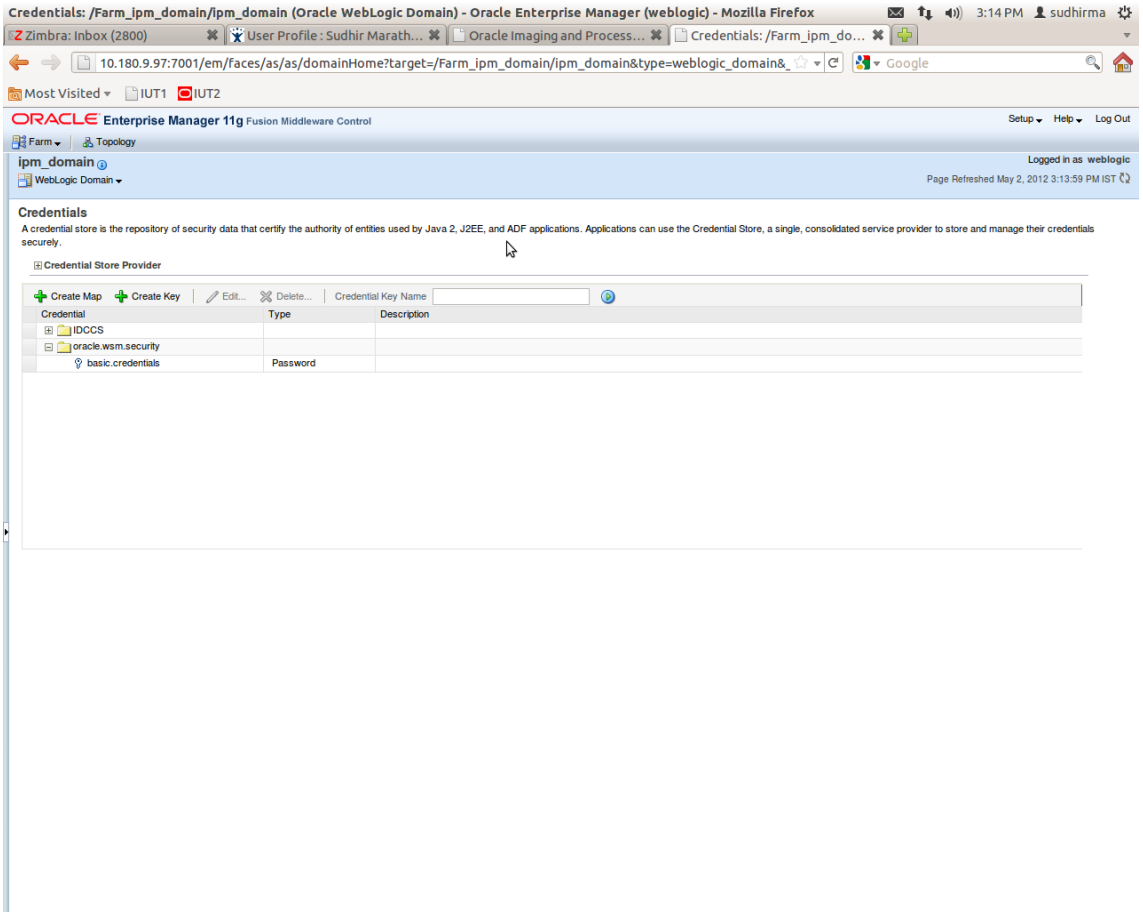
6. Click **Create Key** to create a key under the map **oracle.wsm.security.**

Figure 8–66 Create Key: basic.credentials



7. In the **Key** field, enter the key name as basic.credentials.
8. In the **Type** field, select the value as Password.
9. Enter the other required details.
10. Click **Ok.** The key is saved.

Figure 8–67 ipm_domain: Credentials Created

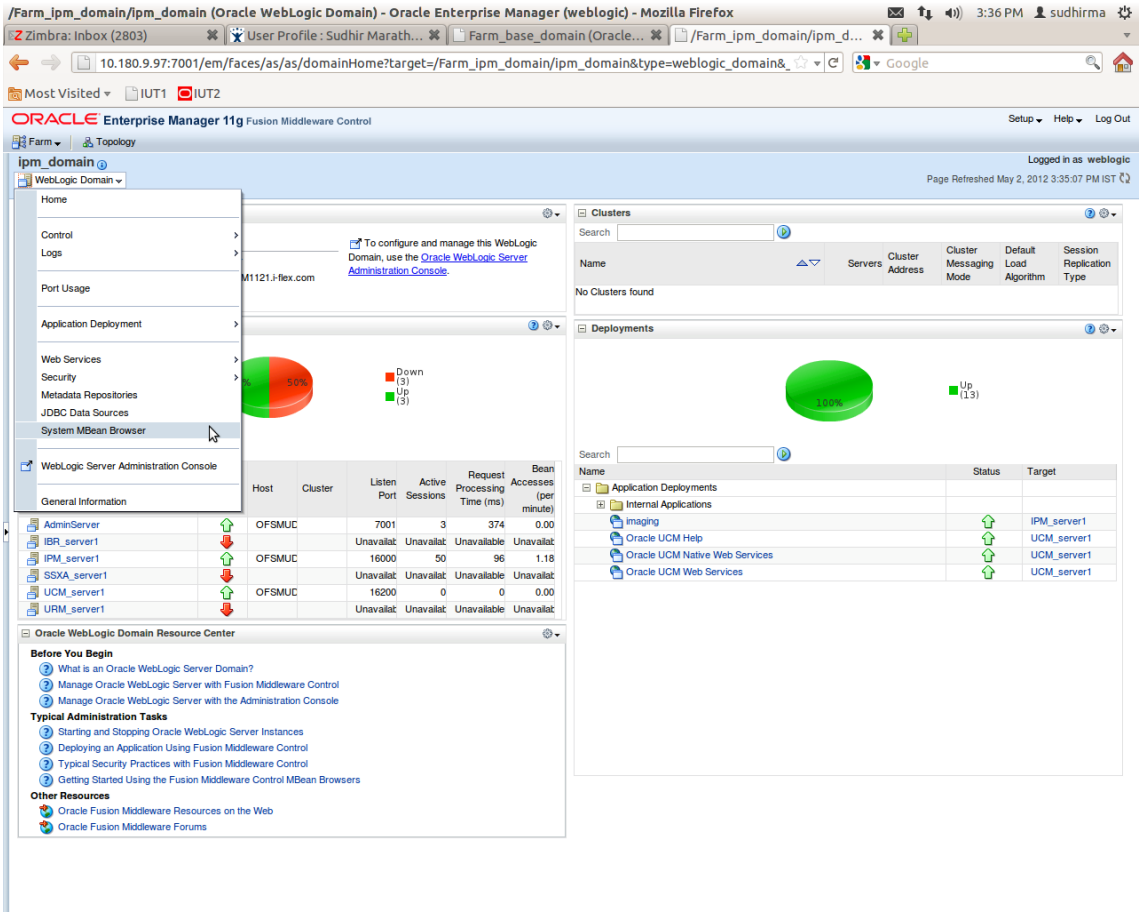


8.3.3 Setting up Input Agent Path

To set up input agent path:

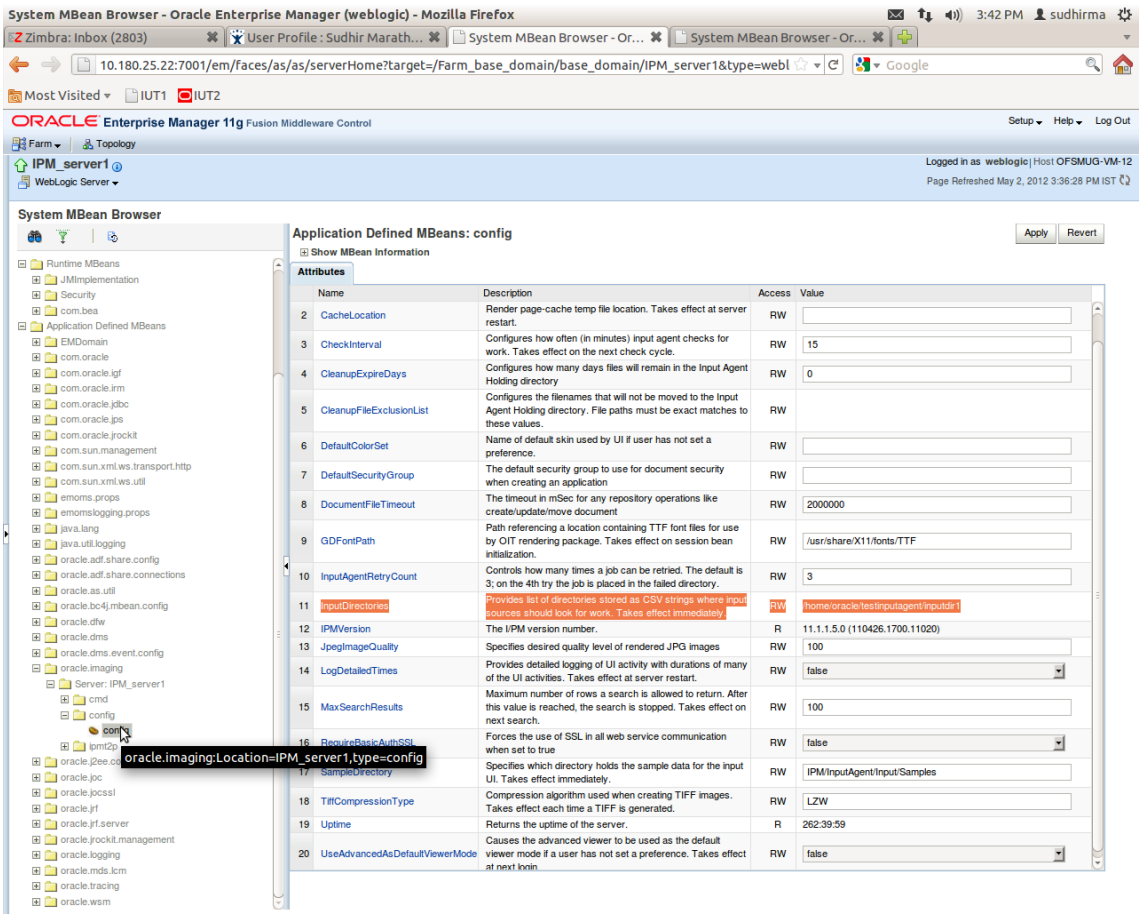
1. Log in to Enterprise Manager (EM) console.
2. In the Fusion Middleware section, under Weblogic domain, click **ipm domain**.
3. In the top menu, click Weblogic Domain. The corresponding menu appears.
4. Navigate to the domain System MBean Browser. The System MBean Browser page appears.

Figure 8–68 Navigate to Weblogic Domain --> System MBean Browser



5. In the left hand pane, navigate to **Application Defined MBeans > oracle.imaging > Server: IPM_server1 > config.**
6. For the attribute InputDirectories, in the **Value** column enter the value to set the path for input agents.
7. Change the highlighted path value to /scratch/ofssobp/testinputagent/inputdir1.

Figure 8–69 InputDirectories: Enter Input Agent Path



	Name	Description	Access	Value
2	CacheLocation	Render page-cache temp file location. Takes effect at server restart.	RW	
3	CheckInterval	Configures how often (in minutes) input agent checks for work. Takes effect on the next check cycle.	RW	15
4	CleanupExpireDays	Configures how many days files will remain in the Input Agent Holding directory	RW	0
5	CleanupFileExclusionList	Configures the filenames that will not be moved to the Input Agent Holding directory. File paths must be exact matches to these values.	RW	
6	DefaultColorSet	Name of default skin used by UI if user has not set a preference.	RW	
7	DefaultSecurityGroup	The default security group to use for document security when creating an application	RW	
8	DocumentFileTimeout	The timeout in mSec for any repository operations like create/update/move document	RW	2000000
9	GDFontPath	Path referencing a location containing TTF font files for use by OIT rendering package. Takes effect on session bean initialization.	RW	/usr/share/X11/fonts/TTF
10	InputAgentRetryCount	Controls how many times a job can be retried. The default is 3; on the 4th try the job is placed in the failed directory.	RW	3
11	InputDirectories	Provides list of directories stored as CSV strings where input sources should look for work. Takes effect immediately.	RW	/home/oracle/testinputagent/inputdir1
12	IPMVersion	The I/PM version number.	R	11.1.1.5.0 (110426.1700.11020)
13	JpegImageQuality	Specifies desired quality level of rendered JPG images	RW	100
14	LogDetailedTimes	Provides detailed logging of UI activity with durations of many of the UI activities. Takes effect at server restart.	RW	false
15	MaxSearchResults	Maximum number of rows a search is allowed to return. After this value is reached, the search is stopped. Takes effect on next search.	RW	100
16	RequireBasicAuthSSL	Forces the use of SSL in all web service communication when set to true	RW	false
17	SampleDirectory	Specifies which directory holds the sample data for the input UI. Takes effect immediately.	RW	IPM/InputAgent/Input/Samples
18	TiffCompressionType	Compression algorithm used when creating TIFF images. Takes effect each time a TIFF is generated.	RW	LZW
19	Uptime	Returns the uptime of the server.	R	262:39:59
20	UseAdvancedAsDefaultViewerMode	Causes the advanced viewer to be used as the default viewer mode if a user has not set a preference. Takes effect at next login	RW	false

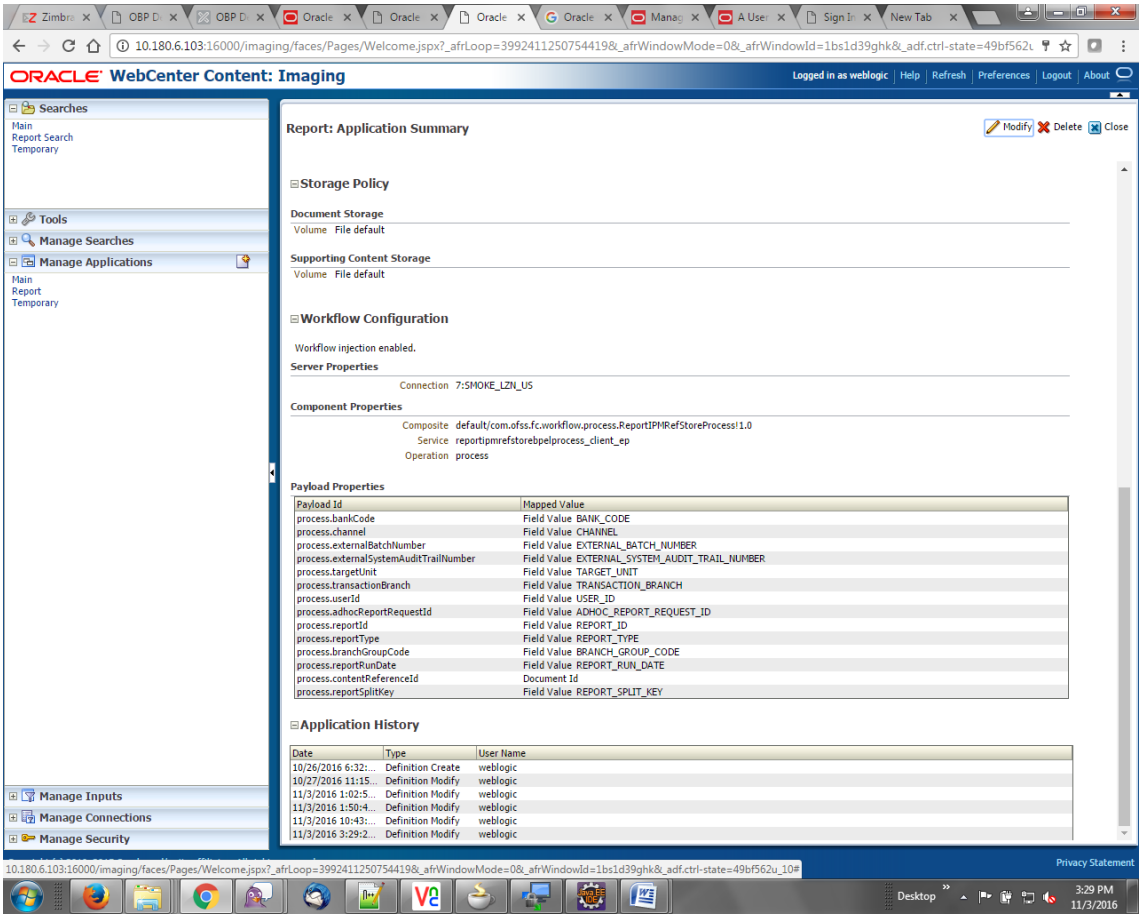
8. Restart IPM server.

8.3.4 Create SOA Connection

To create a SOA Connection:

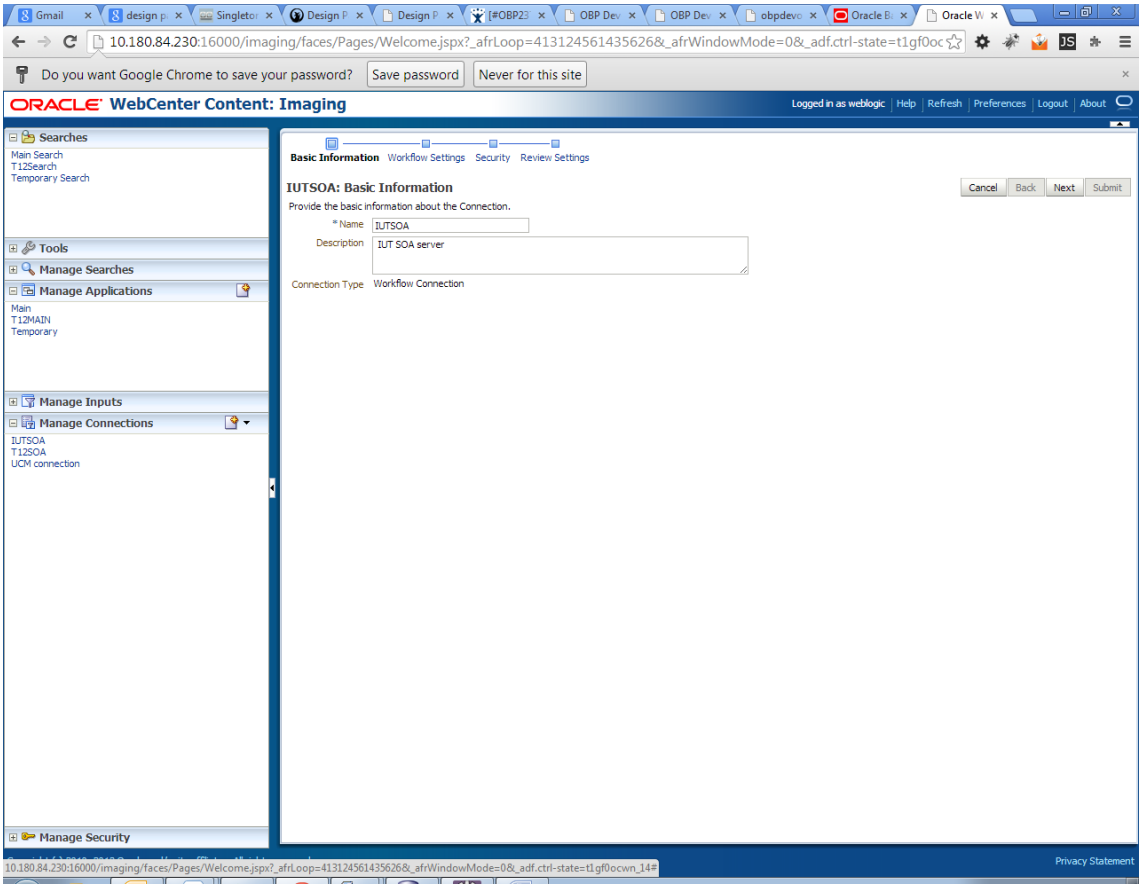
1. Log in to Image Processing Management (IPM).
2. Navigate to the Manage Connections section.

Figure 8–70 Manage Connections: Create Workflow Connection



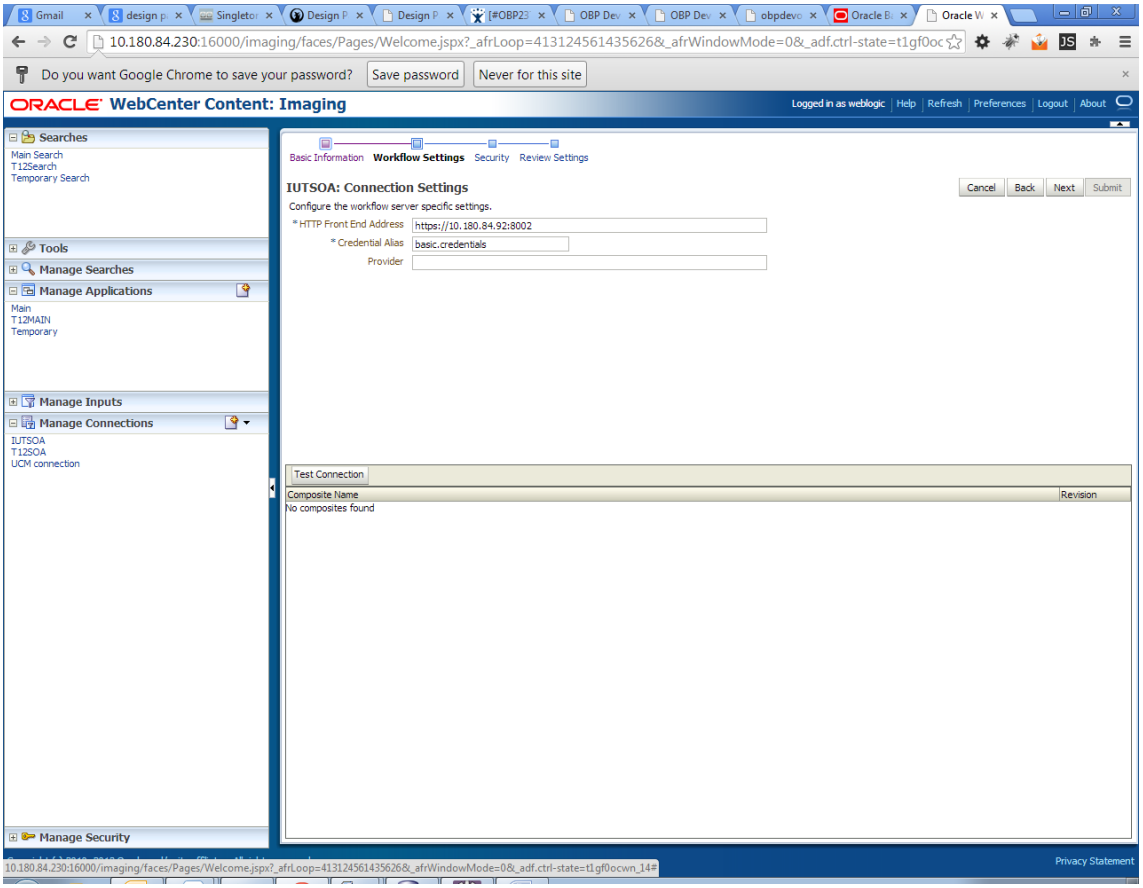
3. Click **Create Workflow Connection.**
4. In the **Name** field, enter the name for SOA Connection as IUTSOA.

Figure 8–71 IUTSOA: Basic Information



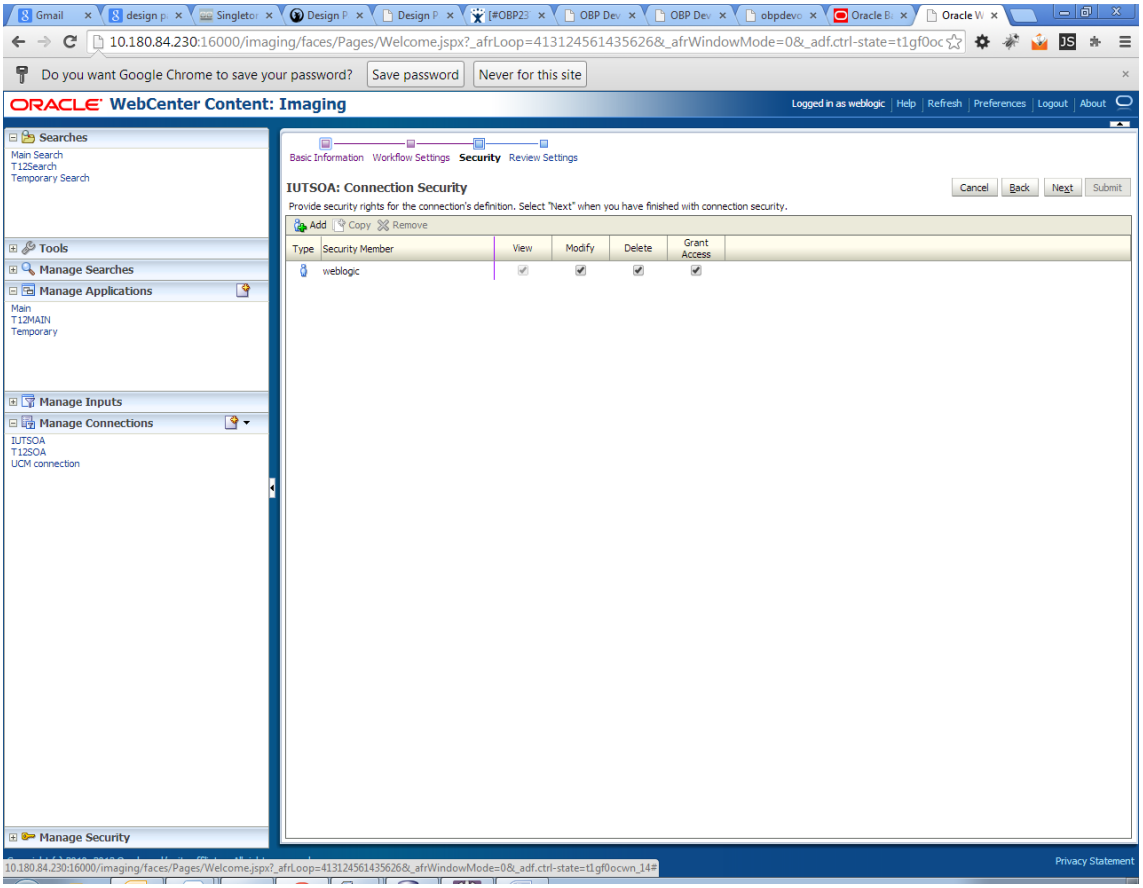
5. In the **HTTP Front End Address** field, enter the value for SOA server.

Figure 8–72 IUTSOA: Workflow Settings



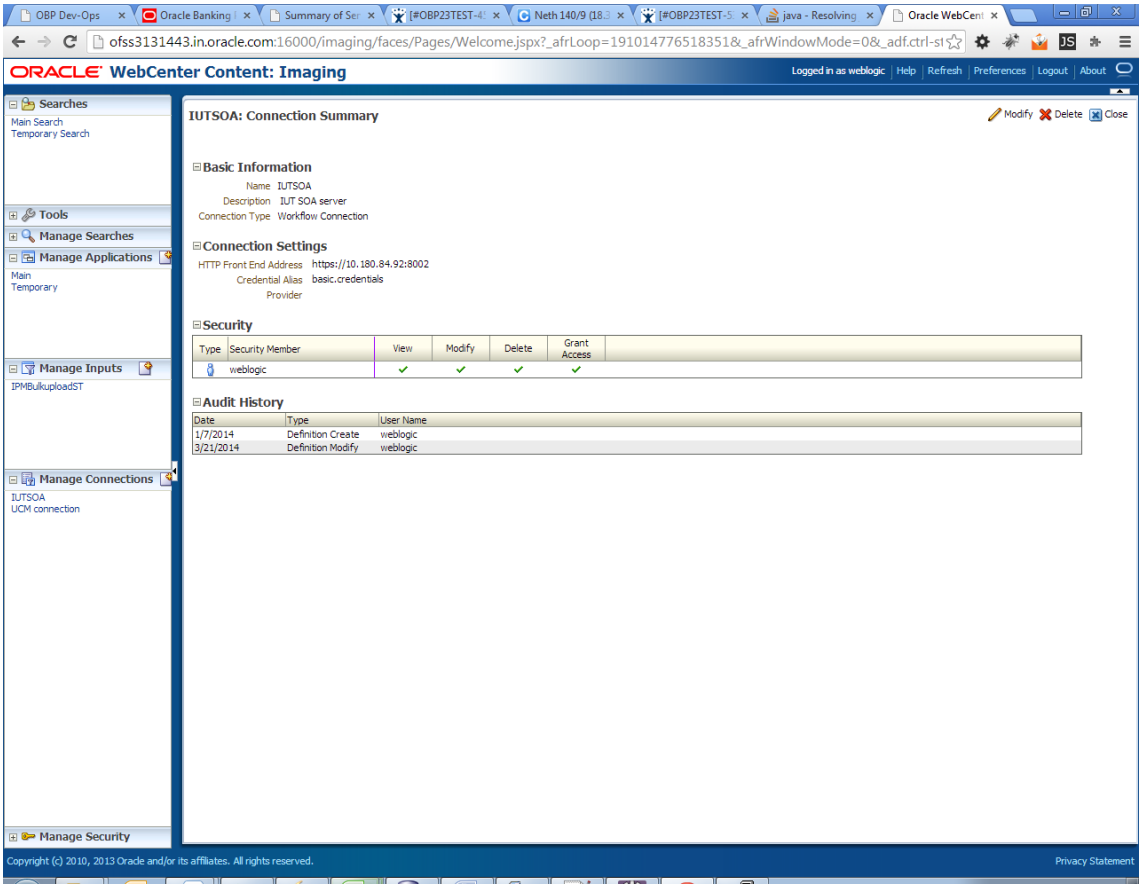
6. In the **Credential Alias** field, enter the value as basic.credentials.
7. Click **Next** to proceed. The Connection Security page appears.

Figure 8–73 IUTSOA: Connection Security



8. Provide the requisite security rights to the connection's definition.
9. Click **Submit.**
10. Click **Next.** The Review Settings page appears.

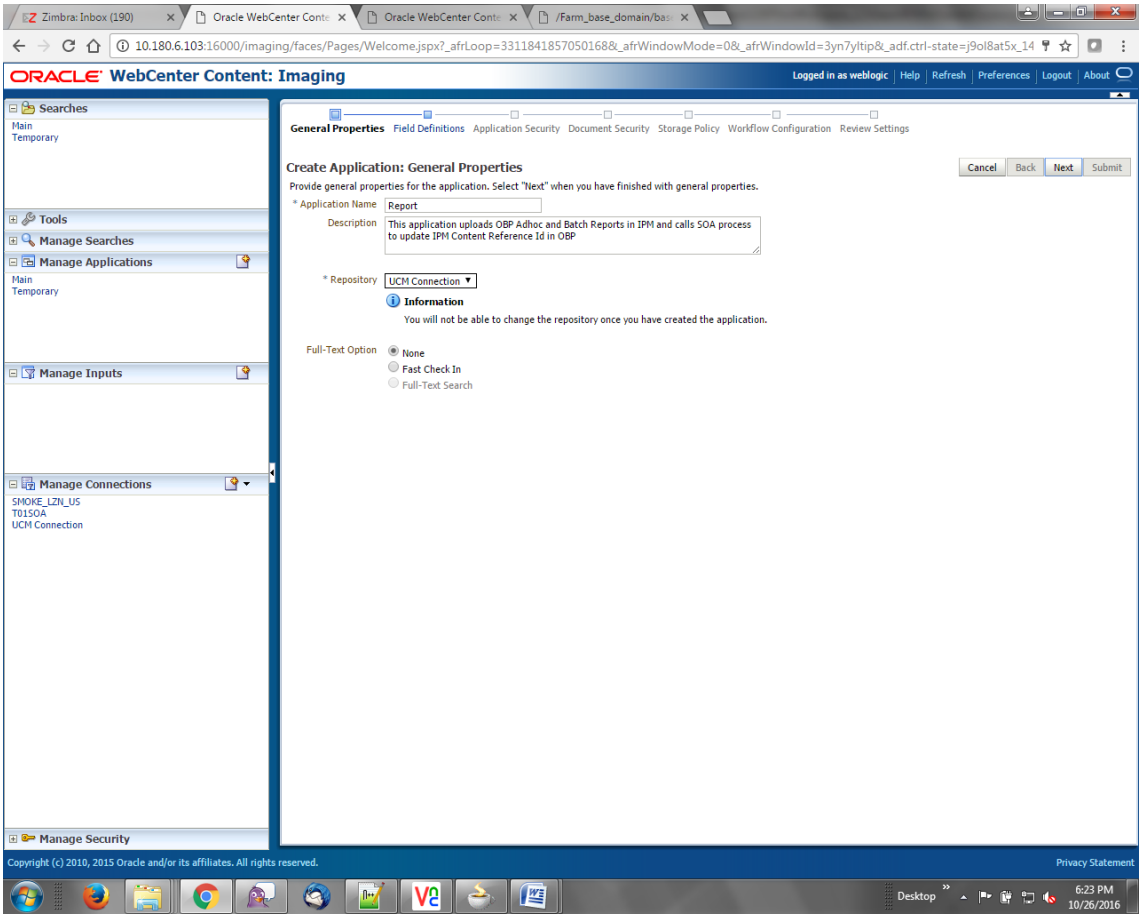
Figure 8–74 IUTSOA: Review Settings



8.3.5 Manage Application Configuration

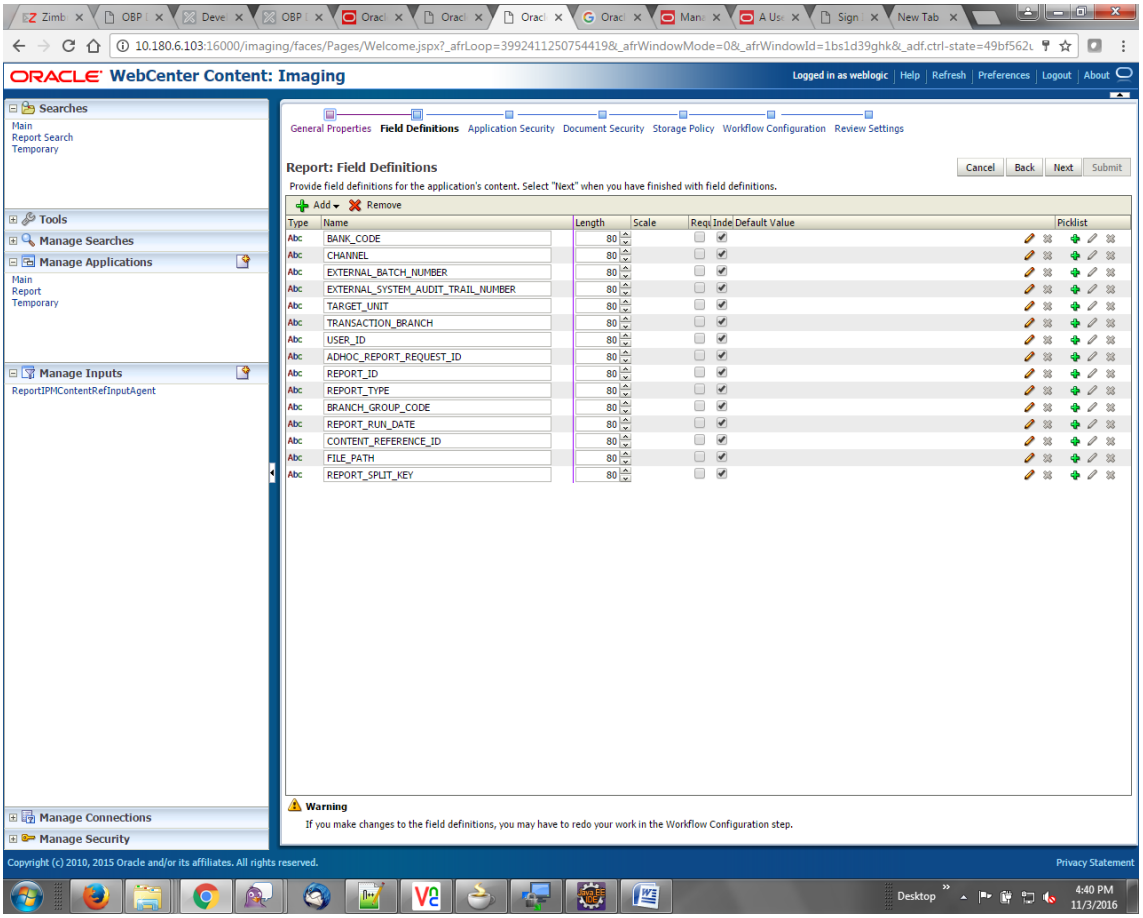
1. Navigate to the Manage Applications section.
2. Select Create New Application option. The Create Application: General Properties page appears.

Figure 8–75 Create Application: General Properties



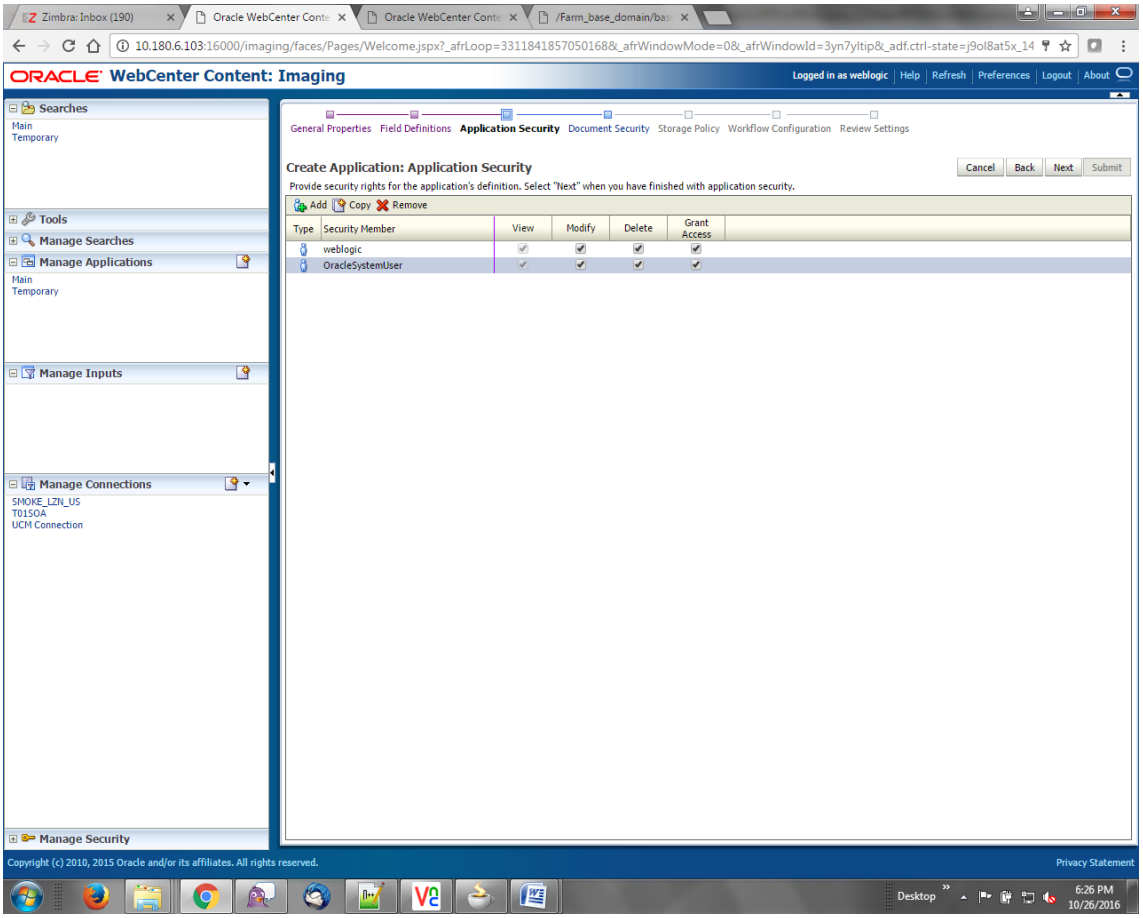
3. Enter the general properties for the application and click **Next.** The Report: Field Definitions page appears.

Figure 8–76 Report: Field Definitions



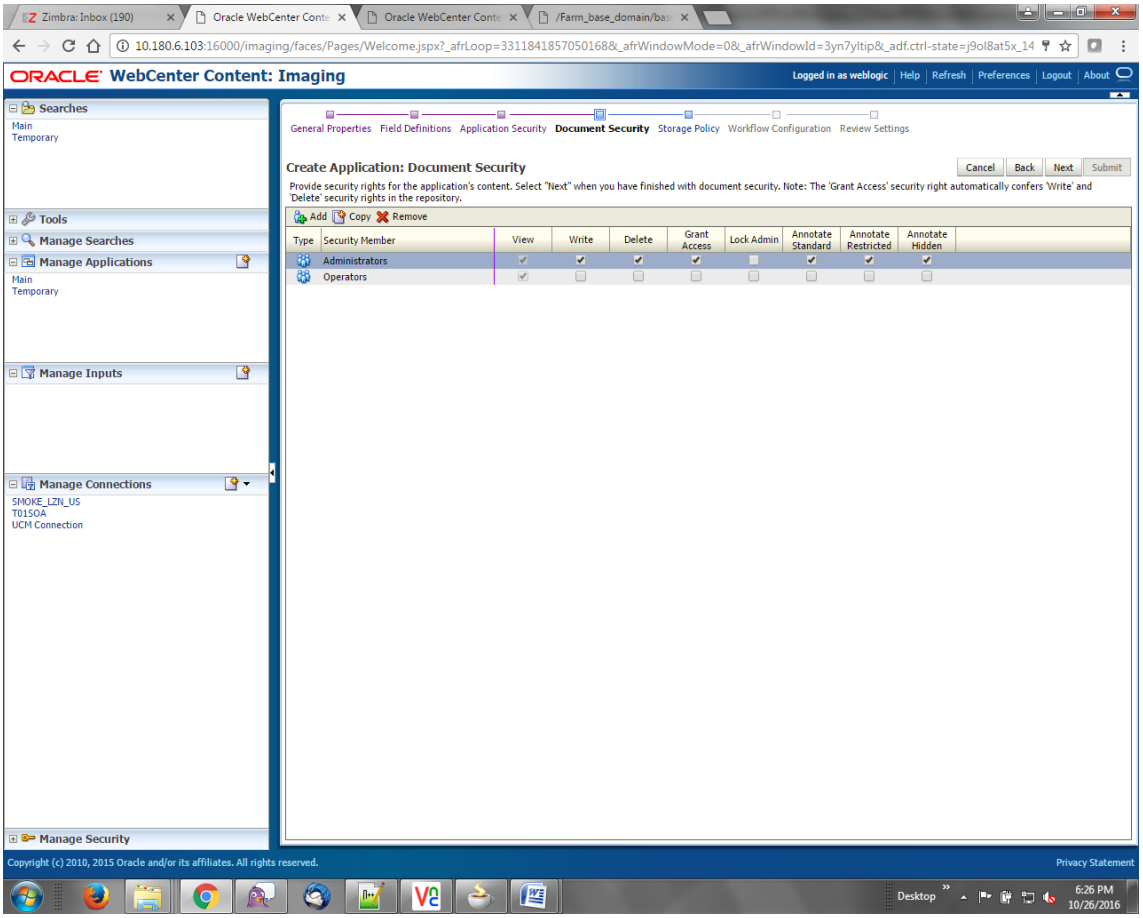
4. Enter the field definition details and click **Next.** The Create Application: Applications Security page appears.

Figure 8–77 Create Application: Applications Security



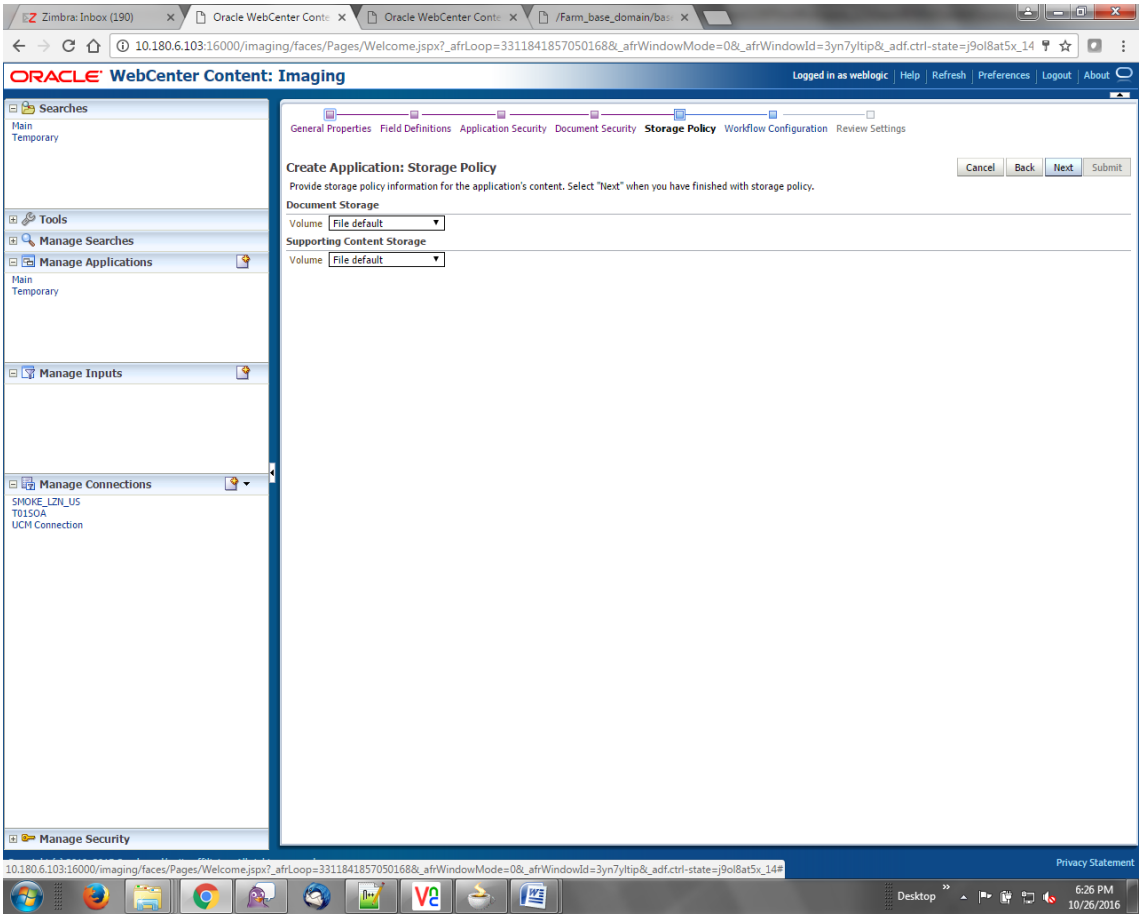
5. In the Application Security section, select the access rights for users and click **Next.** The Create Application: Document Security page appears.

Figure 8–78 Create Application: Document Security



6. In the Document Security section, select the access rights for users and click **Next.** The Create Application: Storage Policy page appears.

Figure 8–79 Create Application: Storage Policy



7. In Storage Policy section, select the **File Default** option in the Document Storage and Supporting Content Storage fields.
8. Click **Next.** The Report: Workflow Configuration page appears.
9. Enter the Workflow Configuration details in the Server Properties, Component Properties and Payload Properties sections as shown.

Figure 8–80 Report: Workflow Configuration - Server Properties

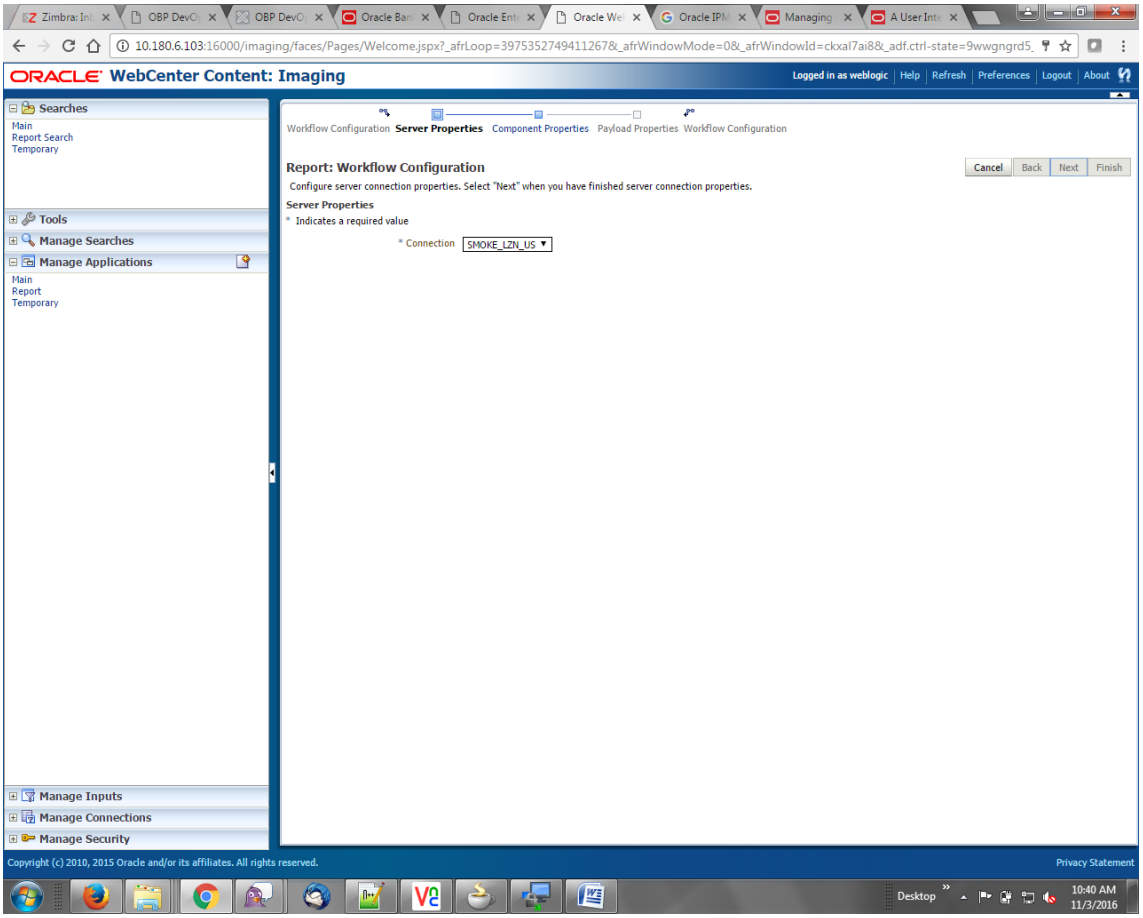


Figure 8–81 Report: Workflow Configuration - Component Properties

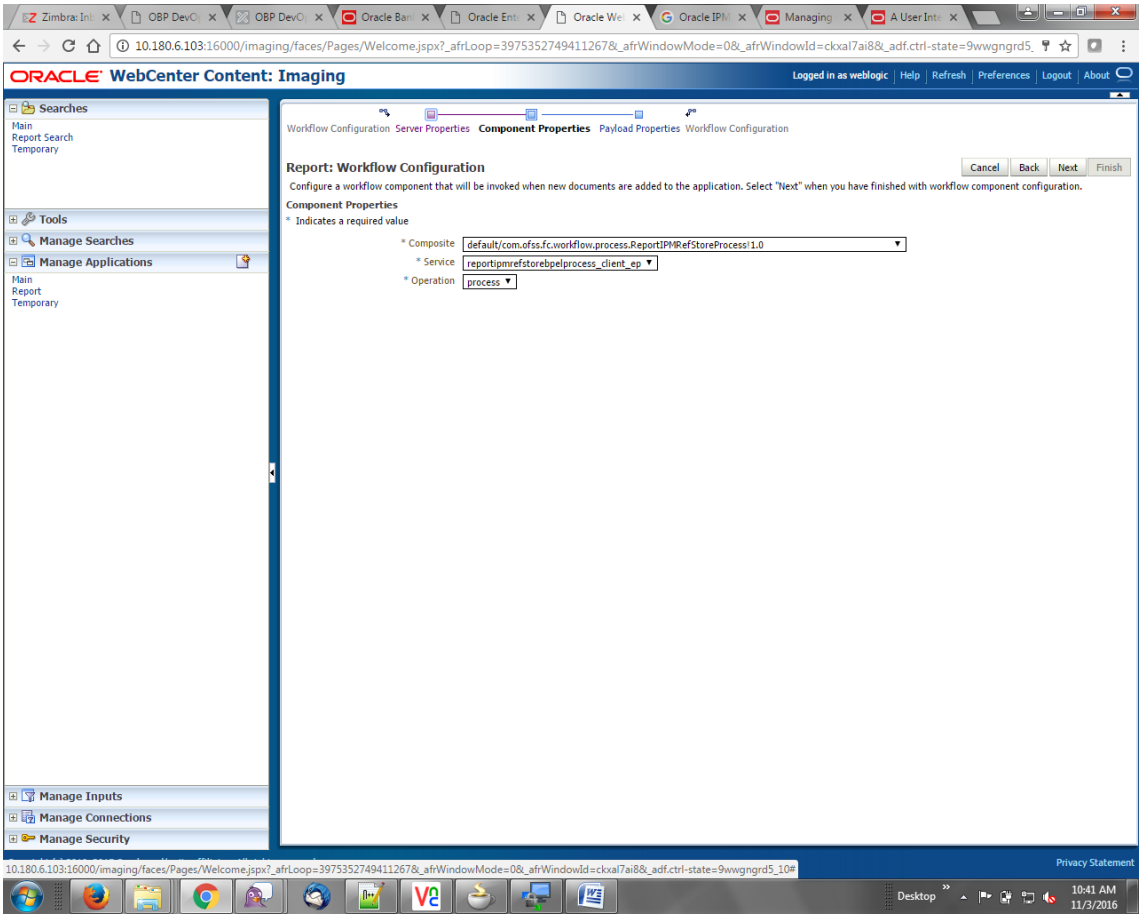
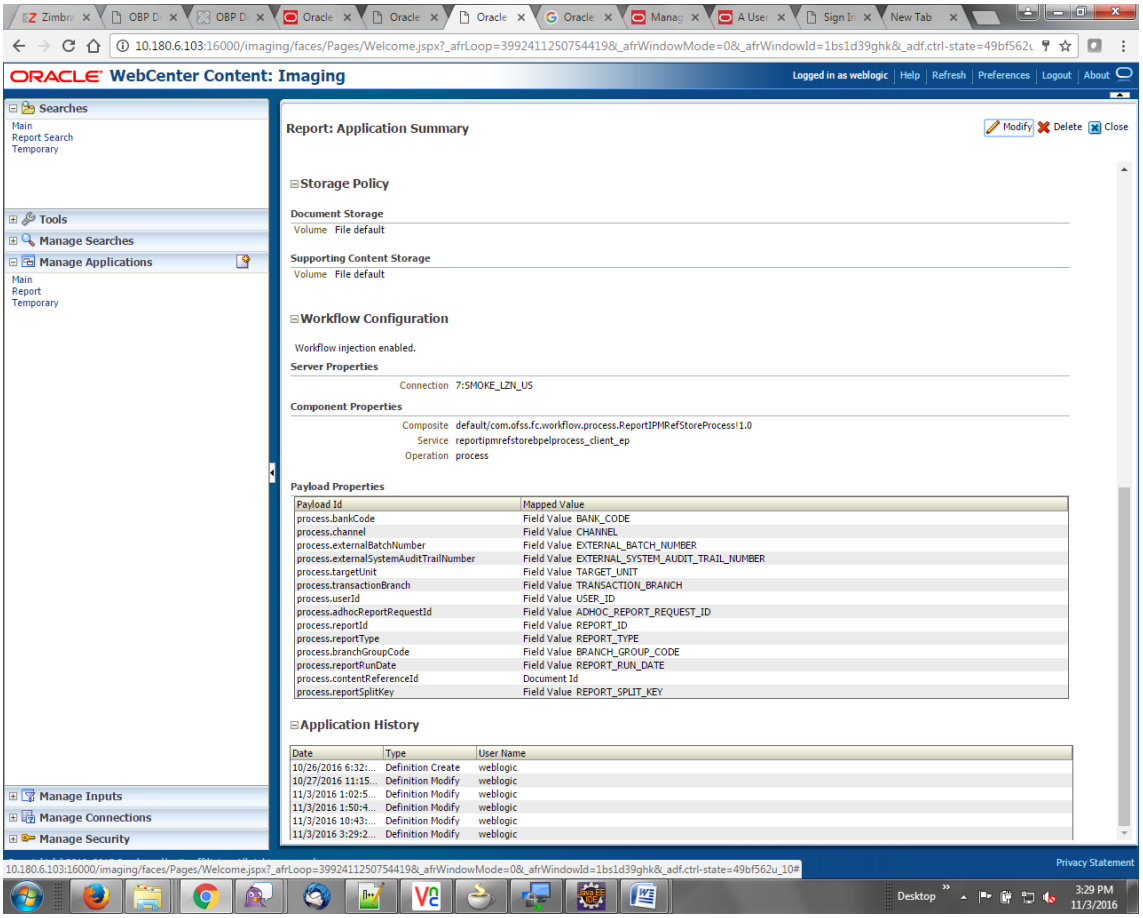
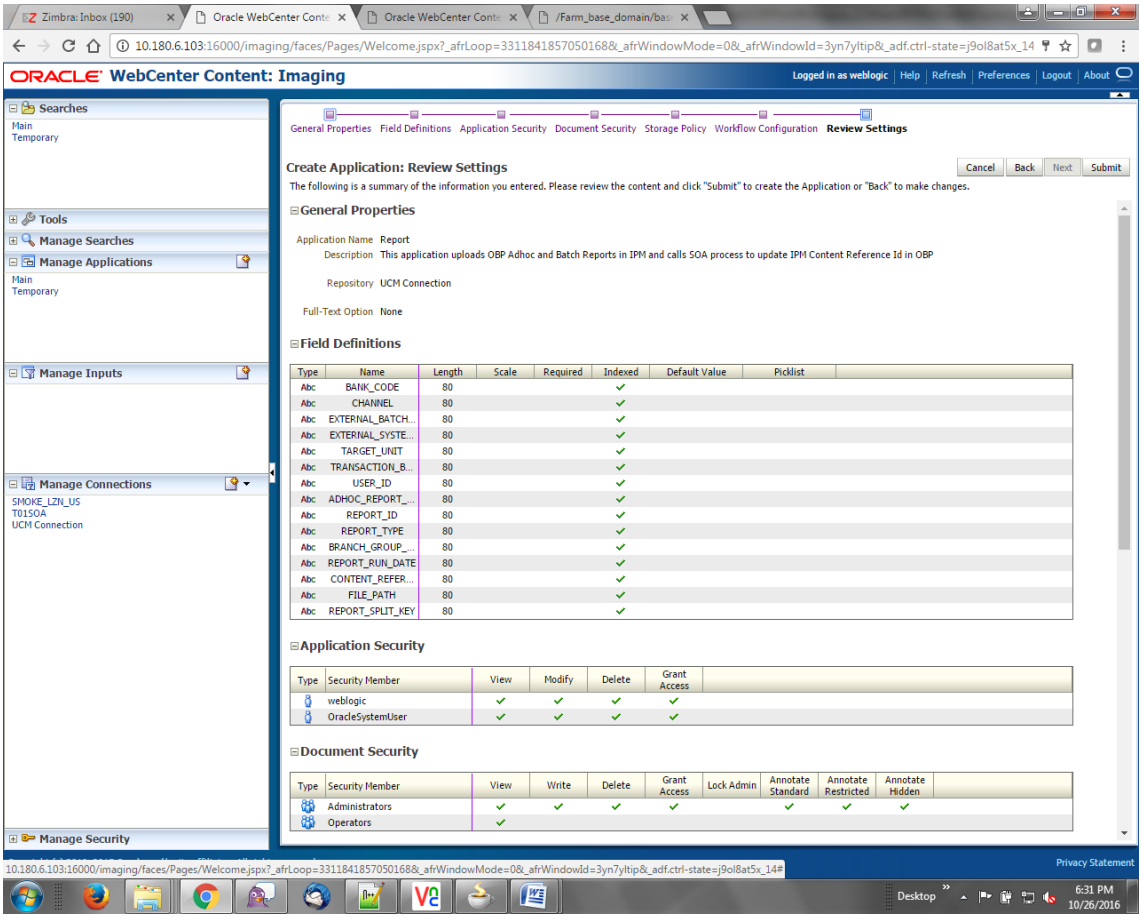


Figure 8–82 Report: Application Summary



10. Review the summary and click **Submit.**

Figure 8–83 Create Application: Review Settings

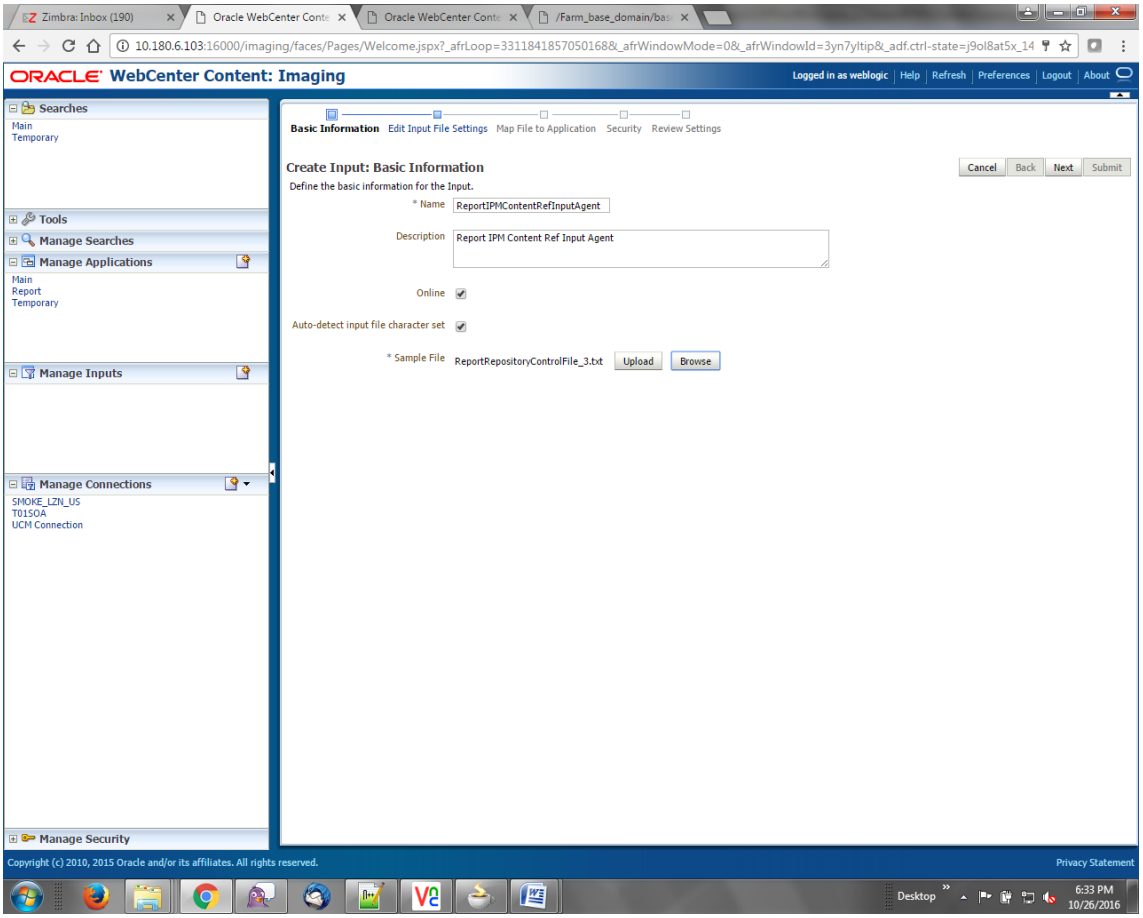


8.3.6 Manage Inputs for Input Agents

To manage workflow configuration:

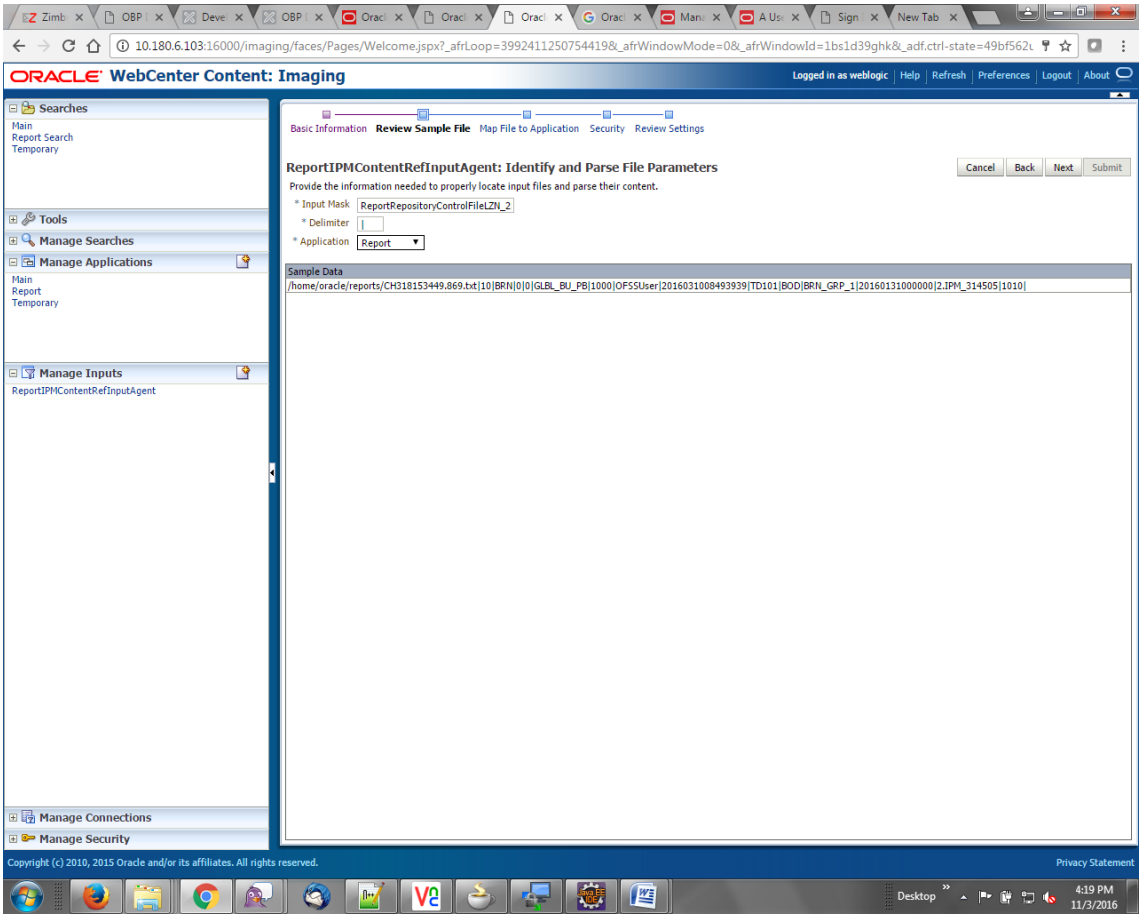
1. Log in to Image Processing Management (IPM).
2. Navigate to Manage Inputs section.

Figure 8–84 Manage Inputs



3. Define an input agent by entering a Name. For example, bulkUploadInput.
4. Define Input Mask as ReportRepositoryControlFileLZN*.txt.

Figure 8–85 Input Agent Details: Input Mask



5. Upload the sample file.

   For example, name the sample file as ReportRepositoryControlFile.txt and add the following content to the sample file.

   ```
   /home/oracle/reports/CH318153449.869.txt|10|BRN|0|0|GLBL_BU_
   PB|1000|OFSSUser|2016031008493939|TD101|BOD|BRN_GRP_
   1|20160131000000|2.IPM_314505|1010|
   ```

6. In the **Input Mask** field, enter the value which should be the same as the name given in table.

   flx_fw_config_all_b

   select prop_value from flx_fw_config_all_b where category_id = reports and prop_id=REPORT_UPLOAD_FILE_NAME_PREFIX;

   appended with name given in table flx_fw_config_var_b

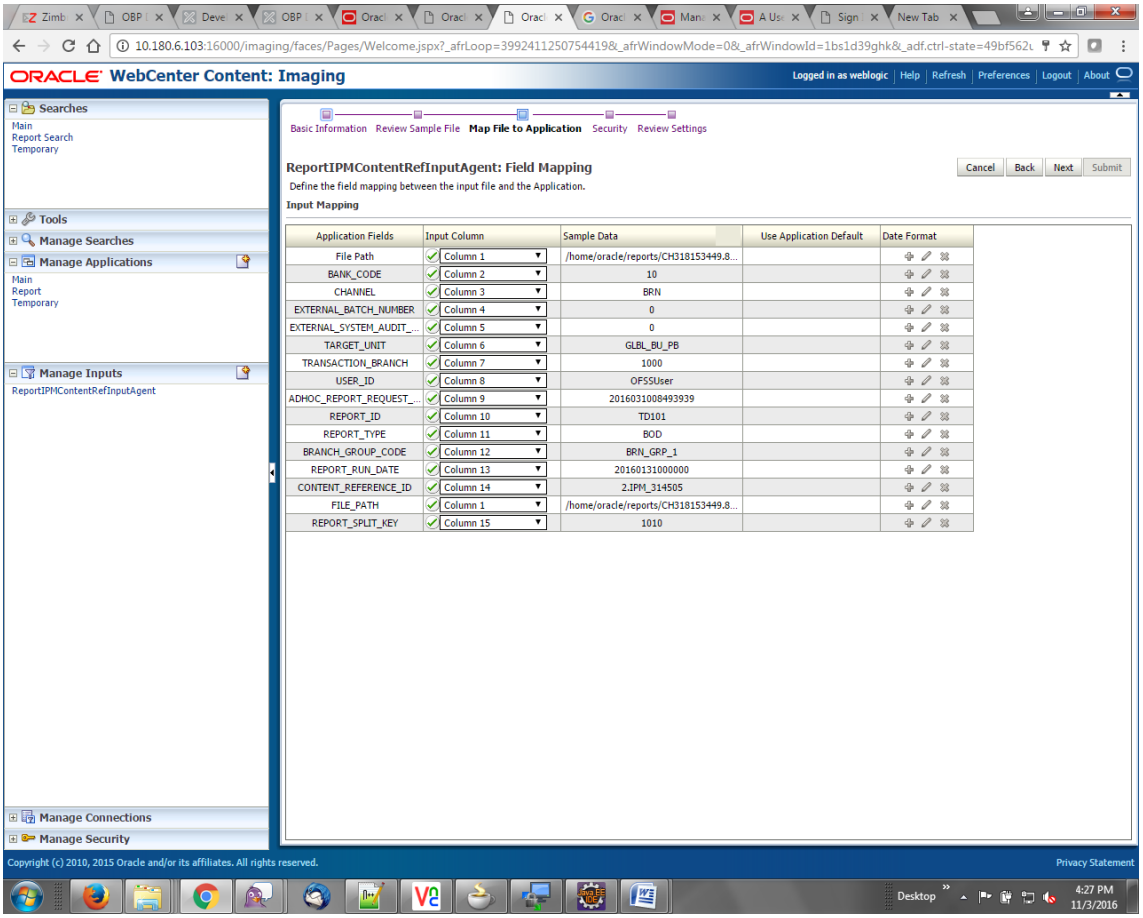
   select prop_value from flx_fw_config_var_b where prop_id = env.name;

Note

Input Mask name should have a * (asterisk character) to enable the process to read all the files whose prefix is same as the input mask value.

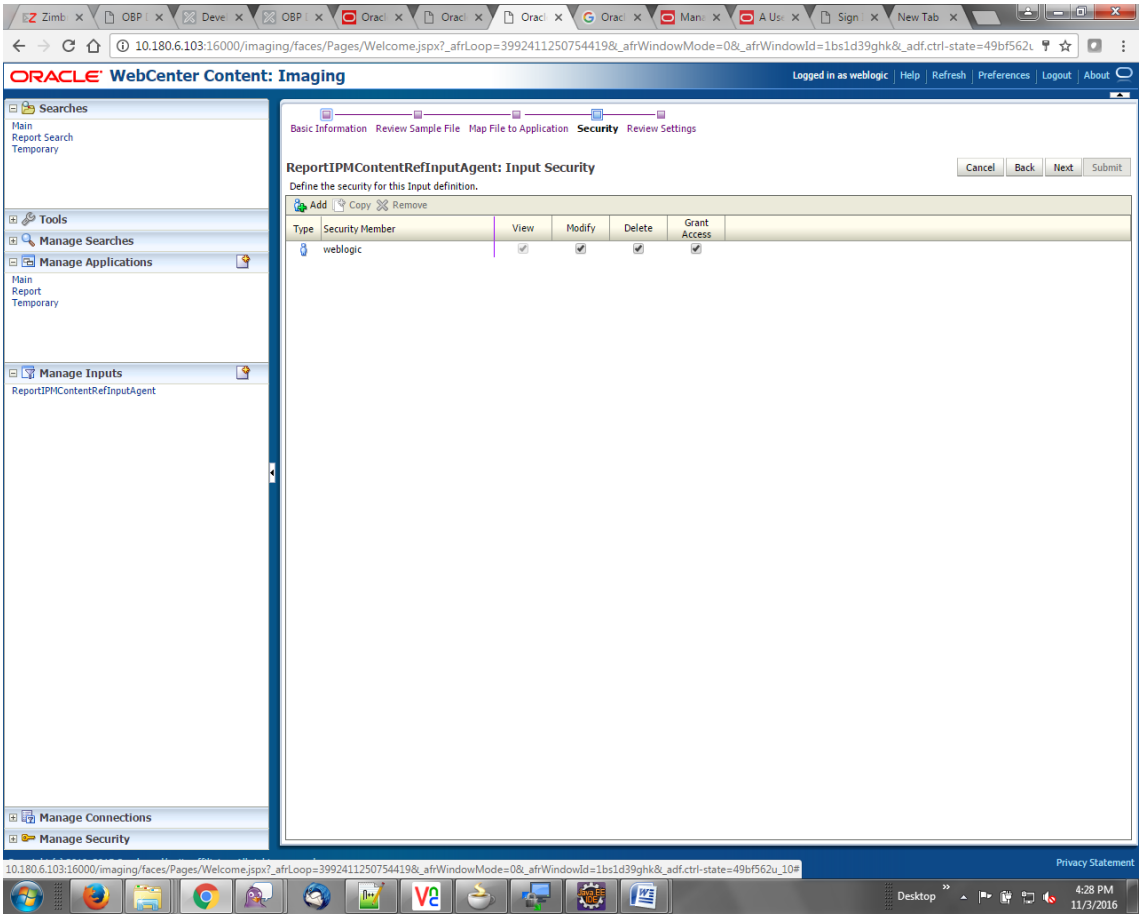
7. In the **Delimeter** field, enter the delimiter value as | (vertical bar character).
8. From the **Application** field, select the application to which the input agent will be applied.

Figure 8–86 Input Agent Details: Field Mapping



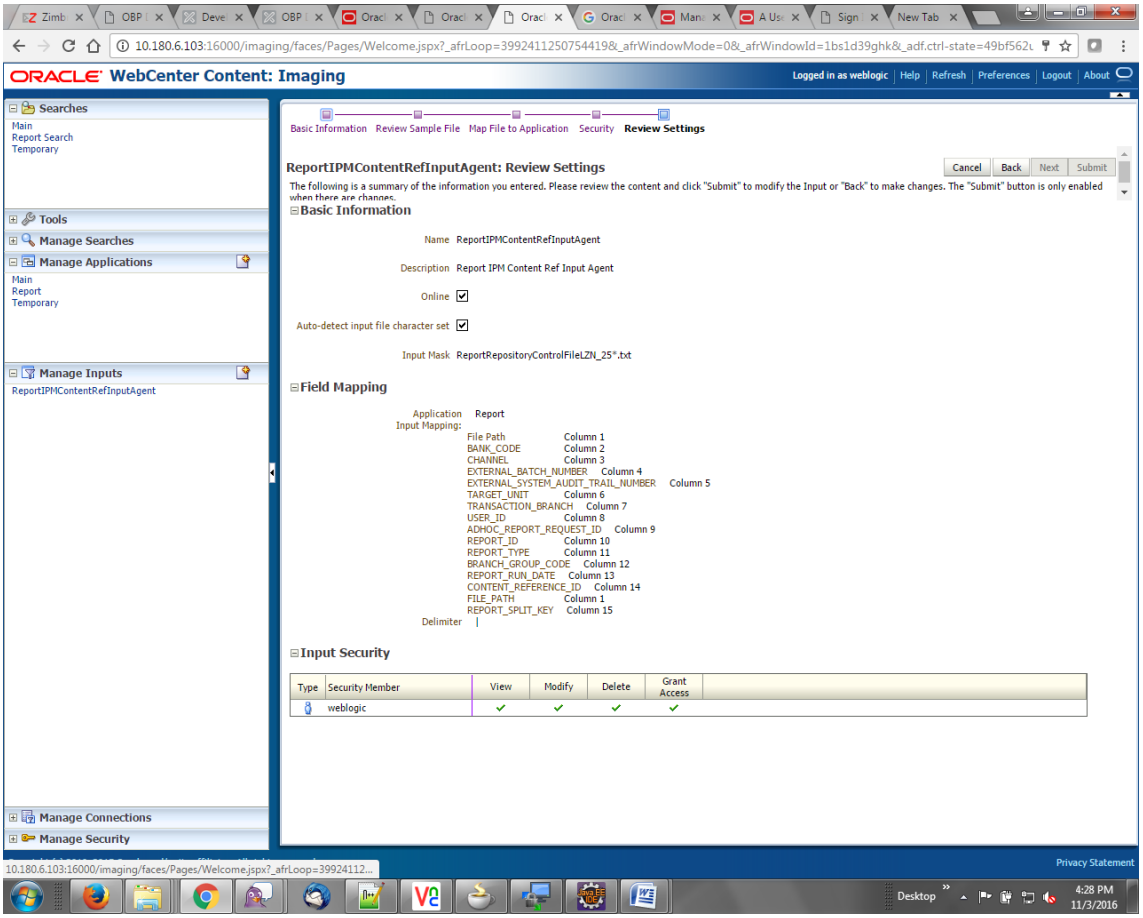
9. Select the access rights for user in the Security section and click **Next.**

Figure 8–87 Input Agent Details: Security



The Input Summary appears. The Input agent must have the settings similar to those shown in the following figure.

Figure 8–88 Input Agent Details: Review Settings



Note

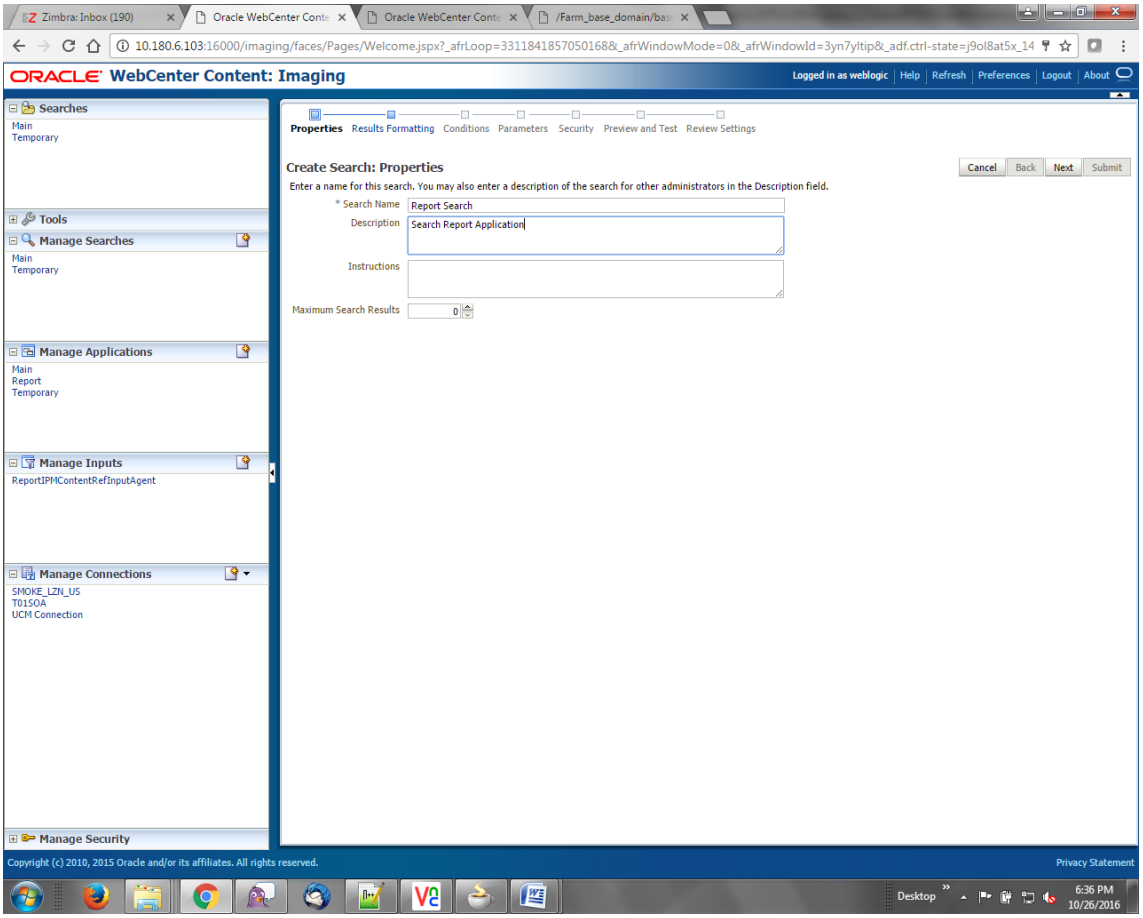
Do not forget to toggle online, else the input agent will not pick up any file for processing.

8.3.7 Manage Searches

To manage searches:

1. Click Manage Searches option and enter the search name with description.

Figure 8–89 Create Search: Properties



2. Select the source application along with its field details.

Figure 8–90 Create Search: Results Formatting

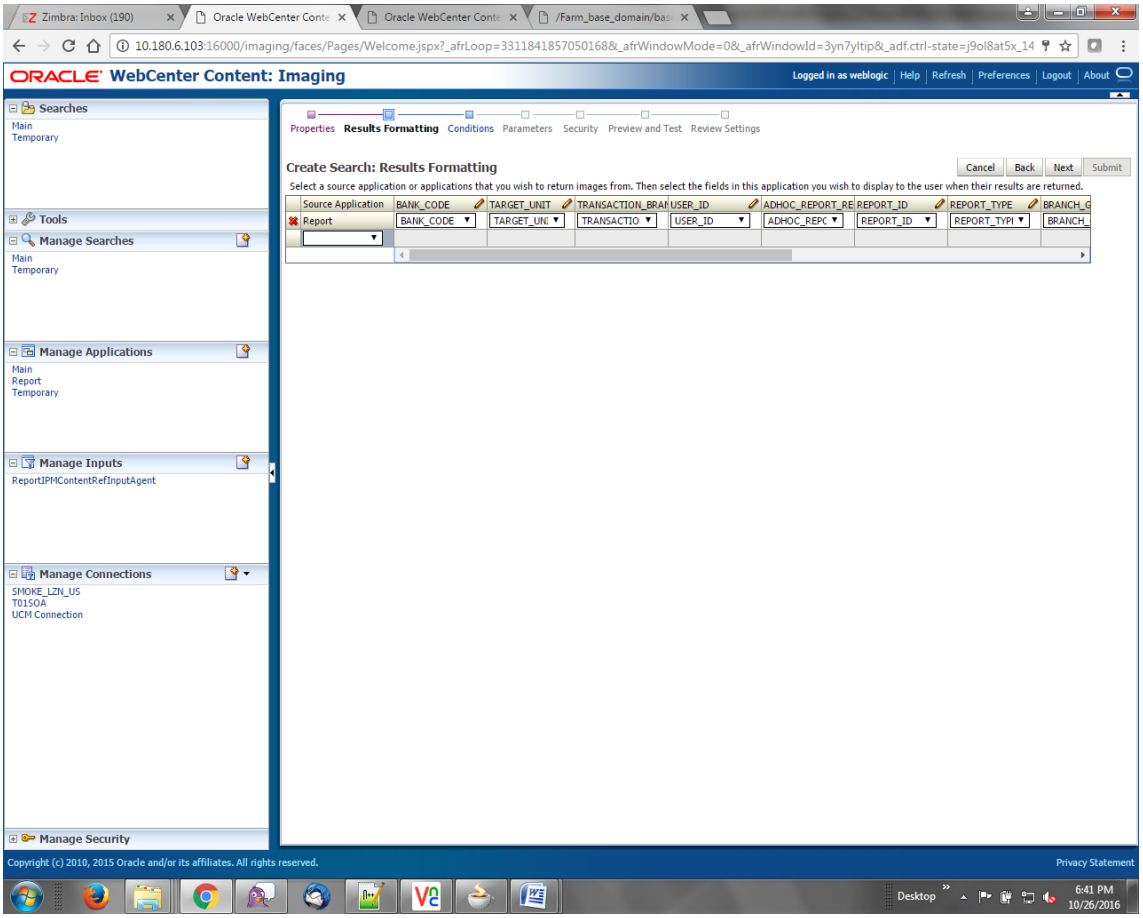


Figure 8–91 Create Search: Conditions

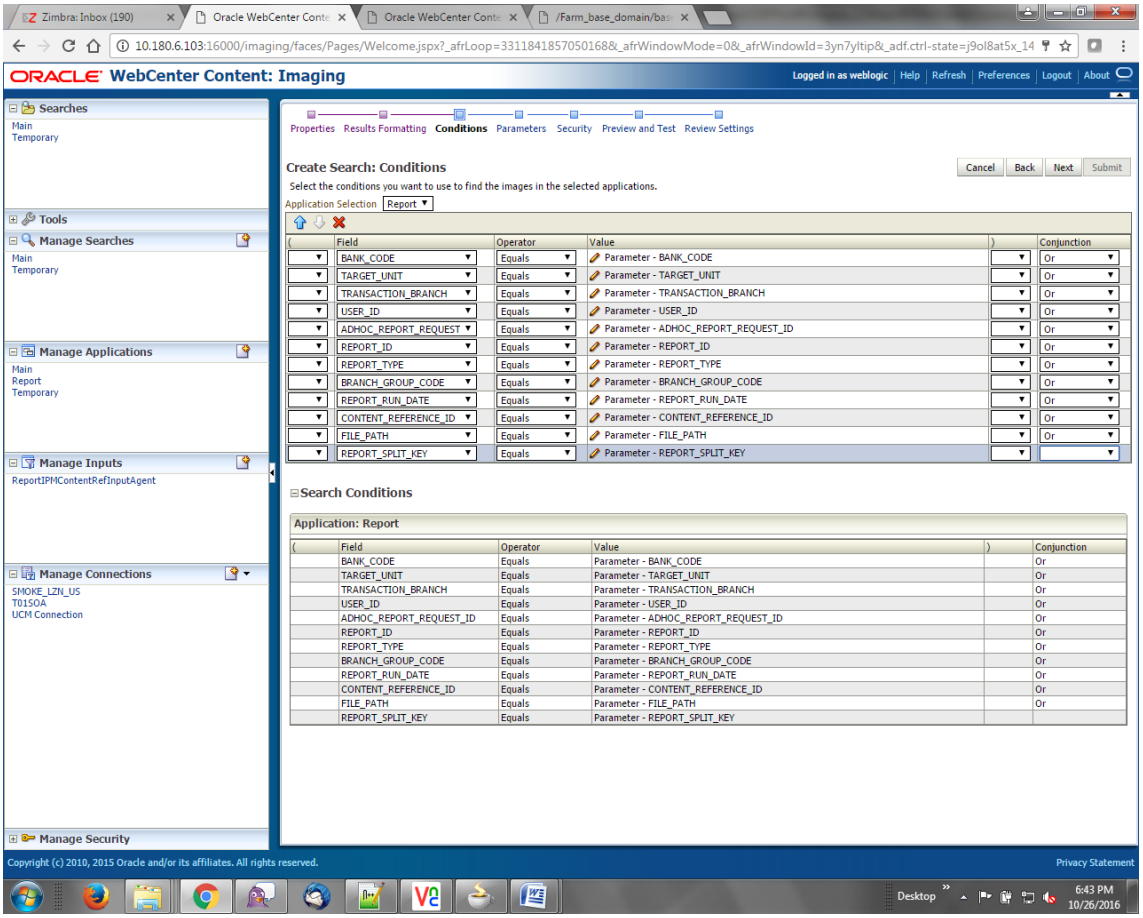
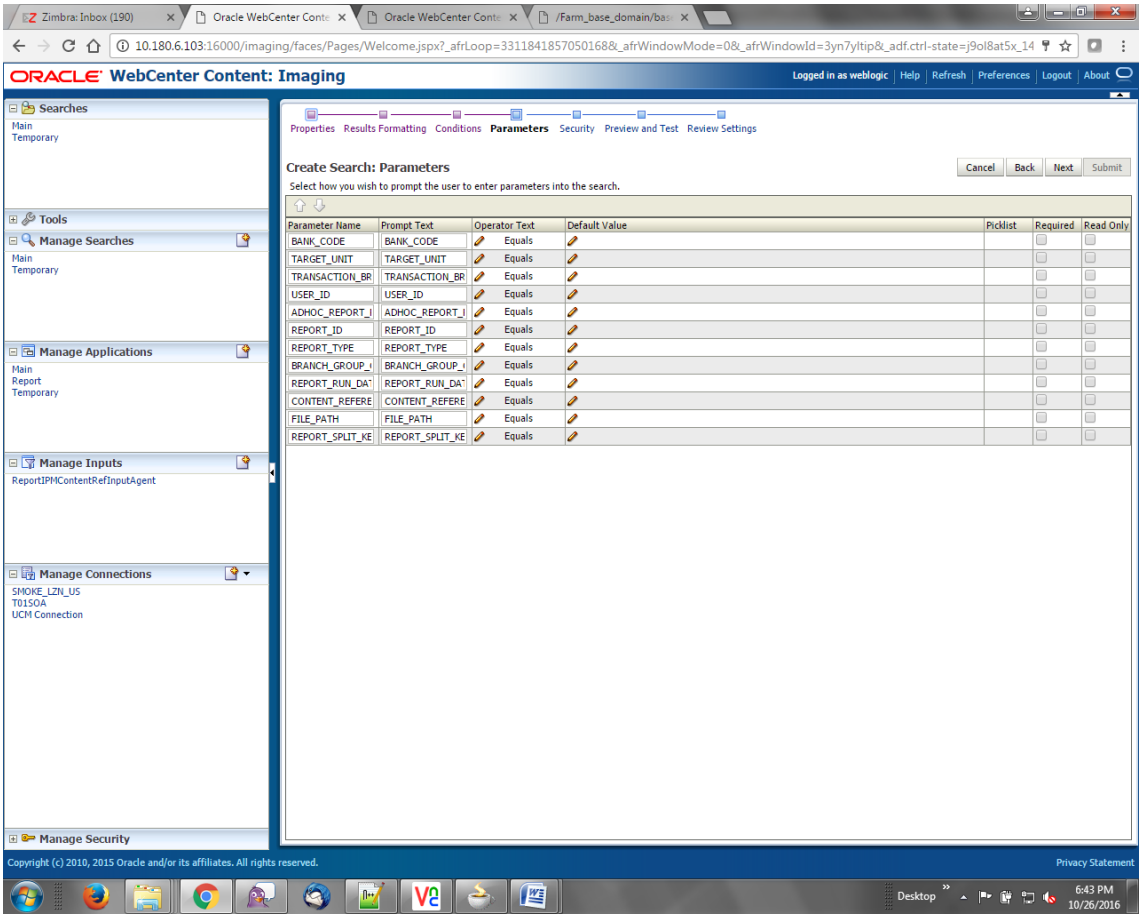
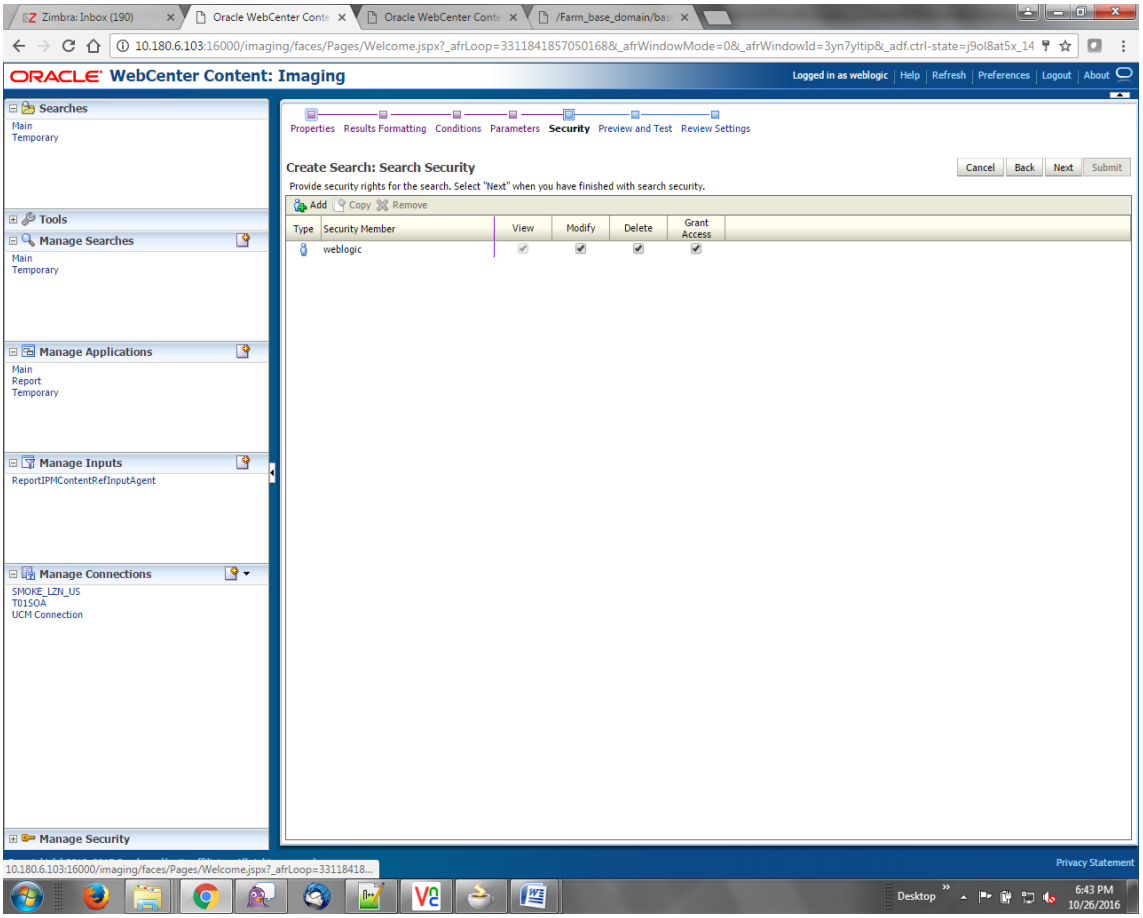


Figure 8–92 Create Search: Parameters



3. Select the access rights for users in security configuration.

Figure 8–93 Create Search: Security



4. Review the summary and click **Submit.**

Figure 8–94 Create Search: Preview and Test

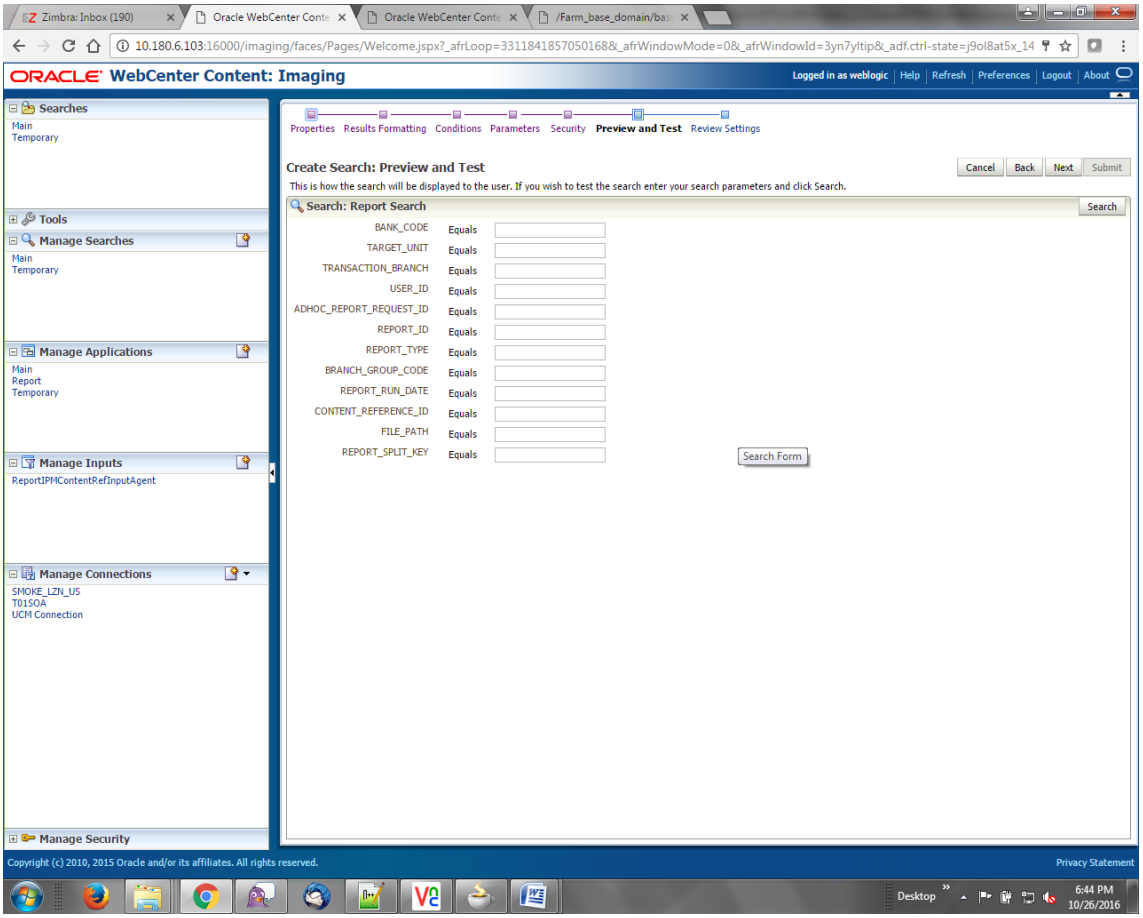
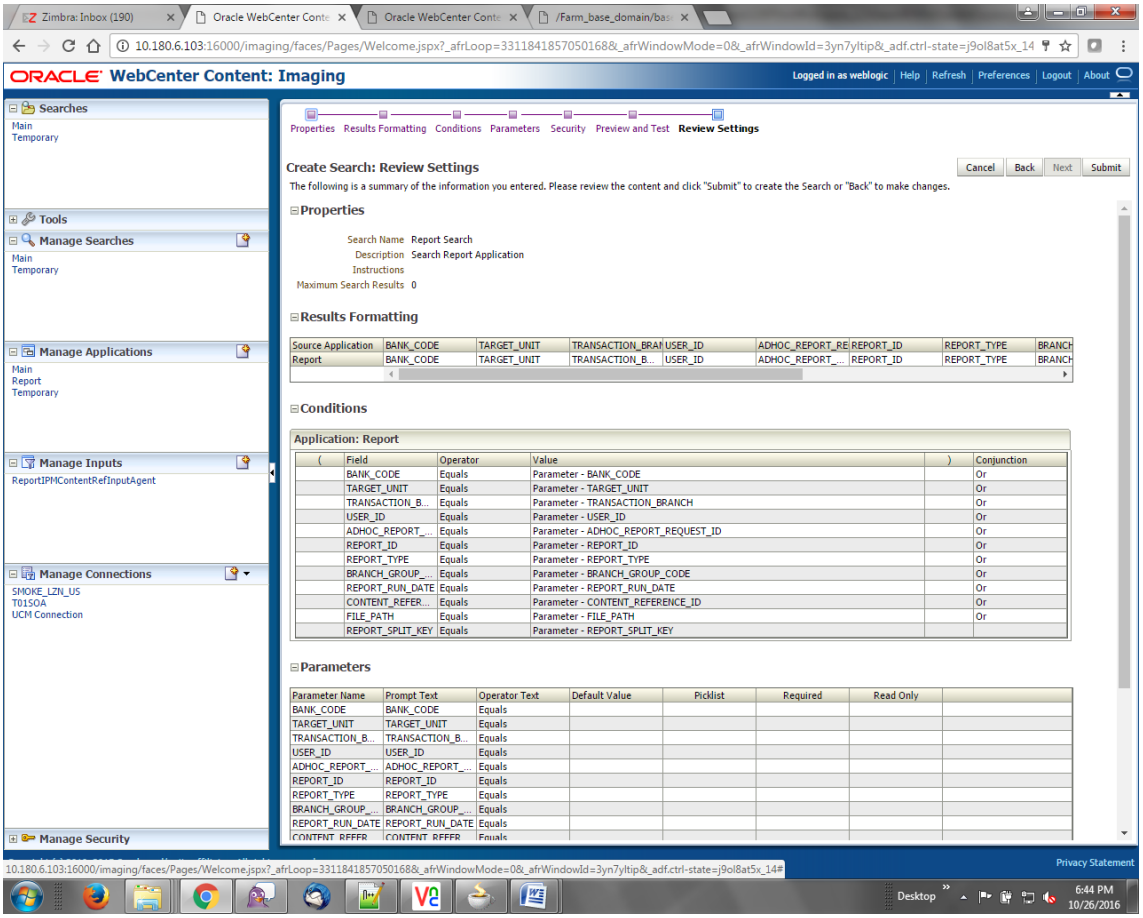


Figure 8–95 Create Search: Review Settings



8.3.8 Additional Steps

1. Update user and bankcode as follows:

   update flx_fw_config_all_b set prop_value= ofssuser where prop_id='userId' and category_id like contentmanager%;

2. In the flx_fw_config_all_b table, the values for PROP_ID should be the same as mentioned for path in IPM server.

Table 8–2 PROP ID Values

PROP_ID	PROP_VALUE
FTPSERVER.DMSFILEPATH=/scratch/ofssobp/testinputagent/inputdir1/	Path in IPM config
FTPSERVER.REPORTPATH=/scratch/reports/	Path where files will be FTP
FTPSERVER.HOST	IPM IP
BULK_UPLOAD_FILE_NAME_PREFIX	Input Mask name

PROP_ID	PROP_VALUE
	given in 1.5 Manage Inputs for Input Agents section.

3. FTP service on IPM server should be running and FTP user should be created on host user connectors.
4. For resolving the SSLHandshake between IPM and SOA server:
    a. Save the SOA Server Certificate. SOA certificate needs to be saved in Base64 (.cer) format for import to IPM server.
    b. Import the SOA server certificate on IPM server with following command.

        Copy certificate at the following path on IPM server.

        path:/scratch/app/product/oracle_jrockit_jdk1.6.0_37_R28.2.5_4.1.0/jre/lib/security

        keytool -import -noprompt -trustcacerts -alias UI_SSL_trustself -file SOACert.cer -keystore cacerts -storepass changeit

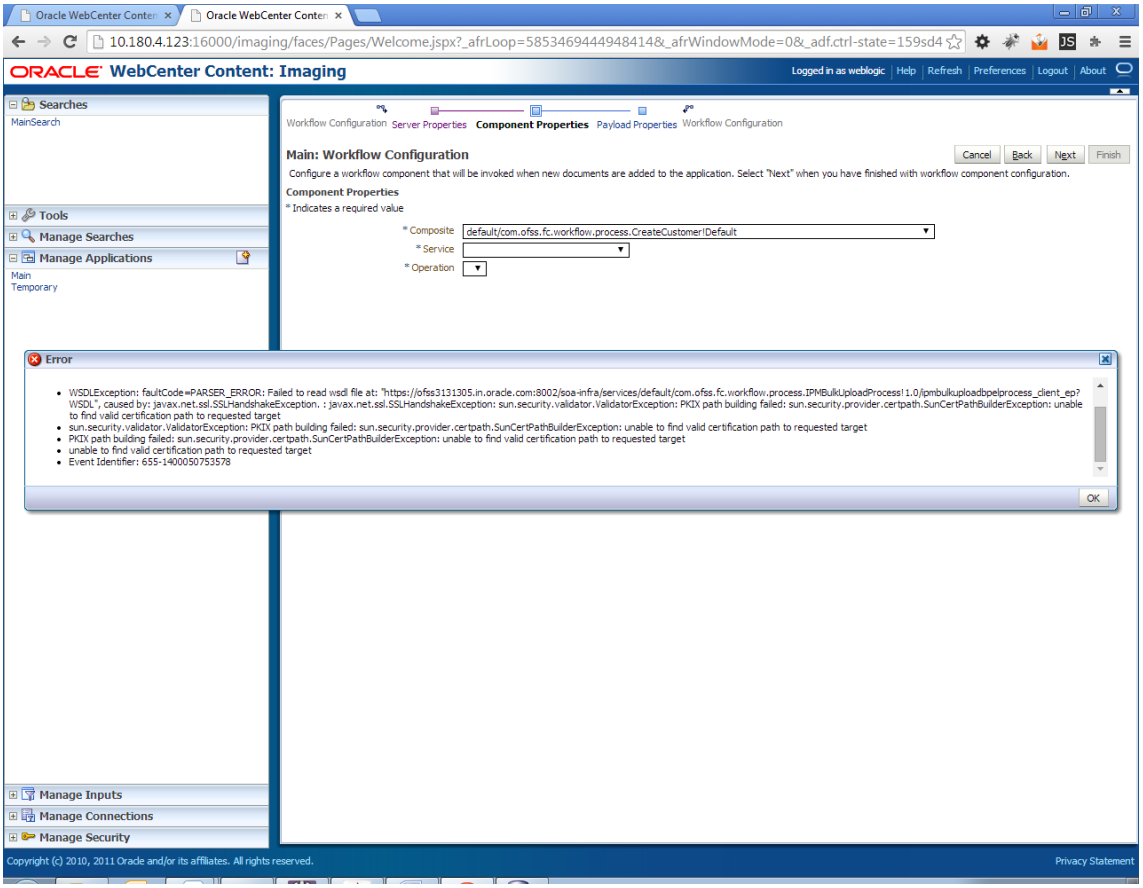
    c. Security policy for ReportIPMRefStoreProcess can been removed (if required).

        Security for called method

        com.ofss.fc.app.report.ReportGenerationApplicationService.updateAdhocReportContentRefId (SessionContext, ReportRequestDTO) needs to be removed (for Development environment).

        com.ofss.fc.app.report.ReportGenerationApplicationService.updateBatchReportContentRefId (SessionContext, BatchRequestDTO) needs to be removed (for Development environment).
        com.ofss.fc.app.report.ReportGenerationApplicationService.updateSplitReportContentRefId (SessionContext, ReportSplitDetailDTO) needs to be removed (for Development environment).

Figure 8–96 Component Properties



9 BIP Datasource Creation

This chapter explains the steps required for Business Intelligence Publisher (BIP) datasource creation.

9.1 BIP Datasource Creation

To use BIP, it is required to create datasource in BIP server. This can be done after Host pre-install. The data source must point to the same db schema as given in BIP_DATASOURCE_NAME in installobphost.properties.

Follow the below mentioned steps to create the datasource:

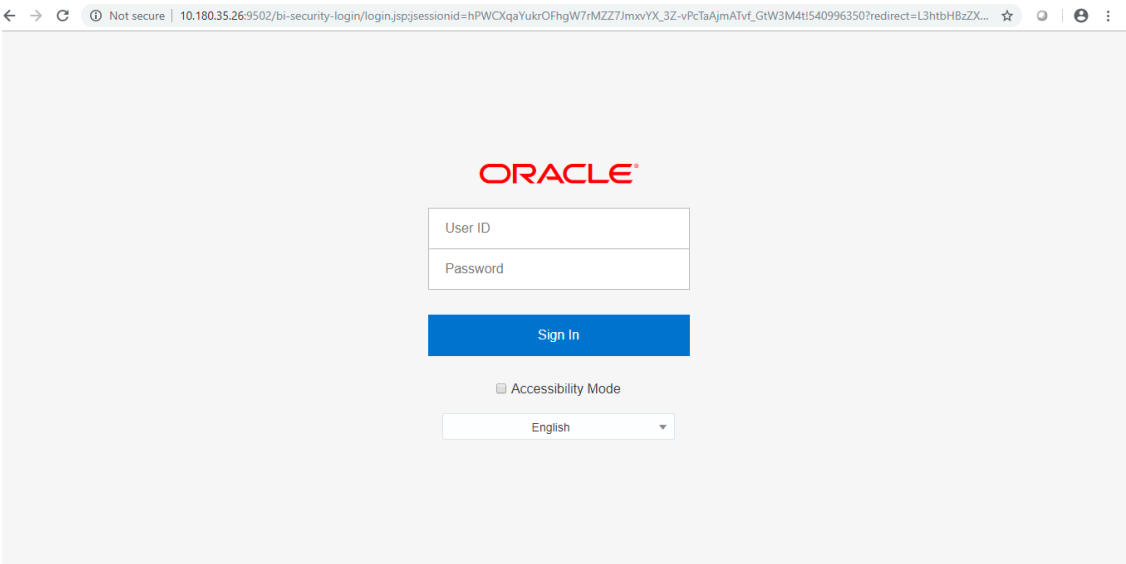
1. Open a browser and navigate to:

   <BIP_SERVER_IP>:<BIP_SERVER_PORT>/xmlpserver

2. Log in using the following credentials:

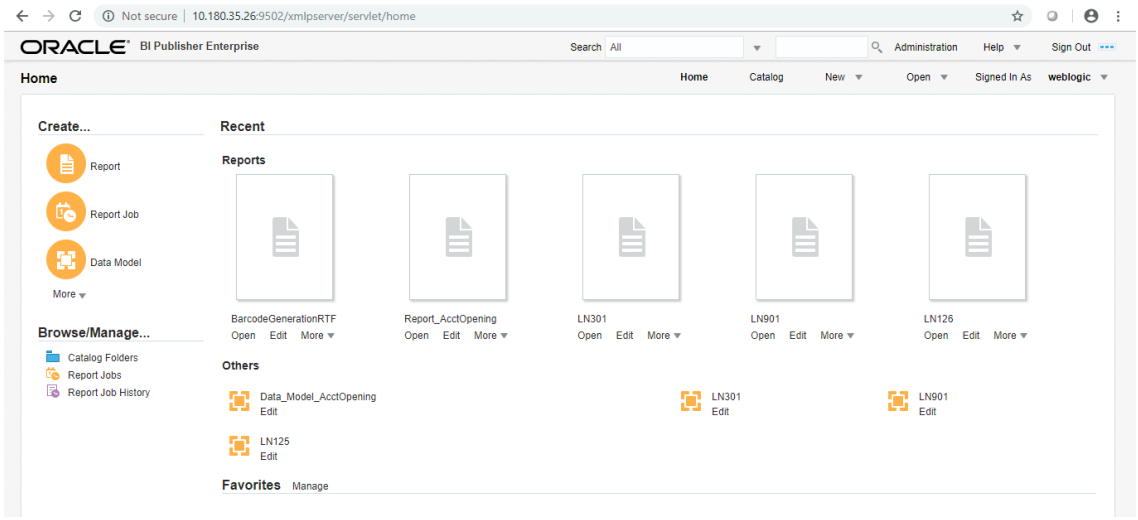
   - Username: <BIP_SERVER_USER>
   - Passowrd: <BIP_SERVER_PSWD>

Figure 9–1 BIP Server Console Login



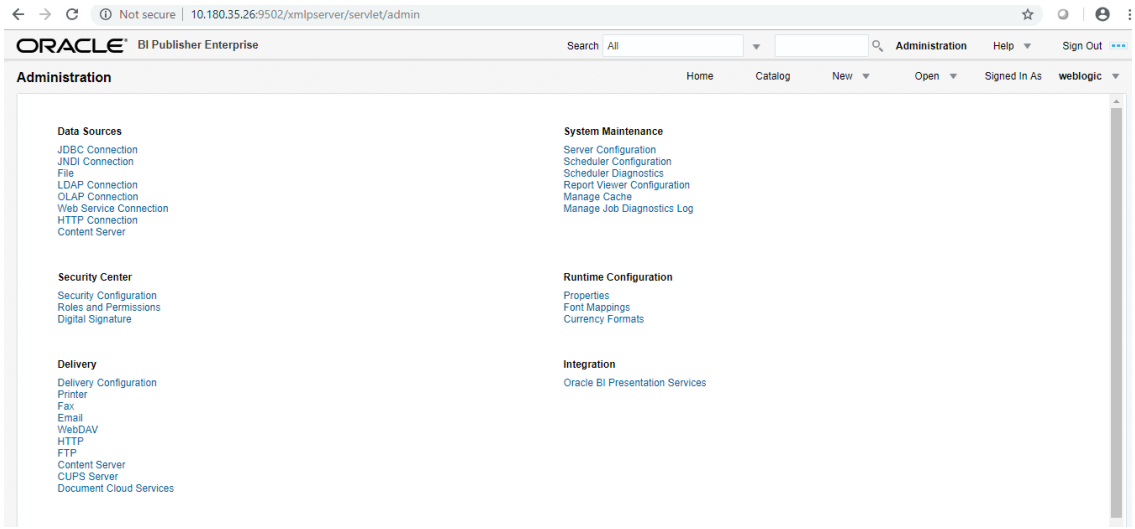
3. After logging in, click **Administration**.

Figure 9–2 BIP Administration



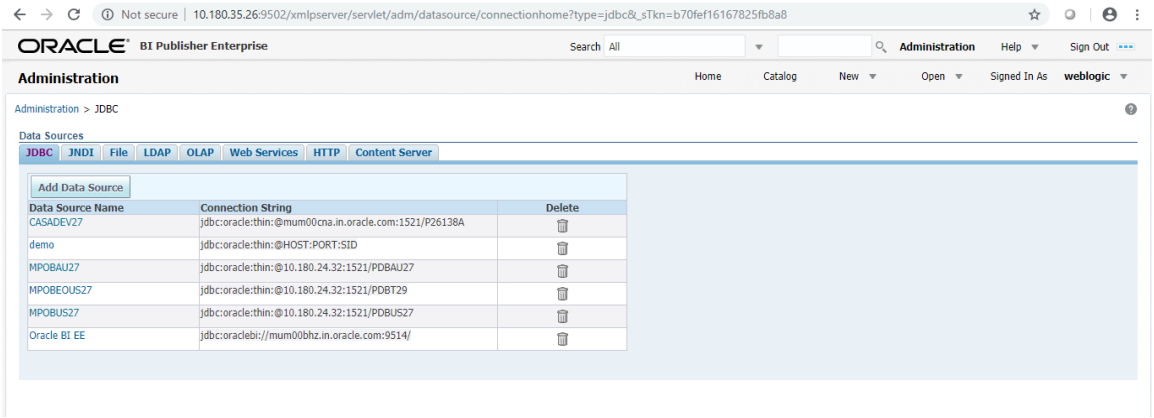
4. Click **JDBC Connection** under **Data Sources**.

Figure 9–3 BIP JDBC Connection



5. Click the **Add Data Source** button.

Figure 9–4 BIP - Add Data Source



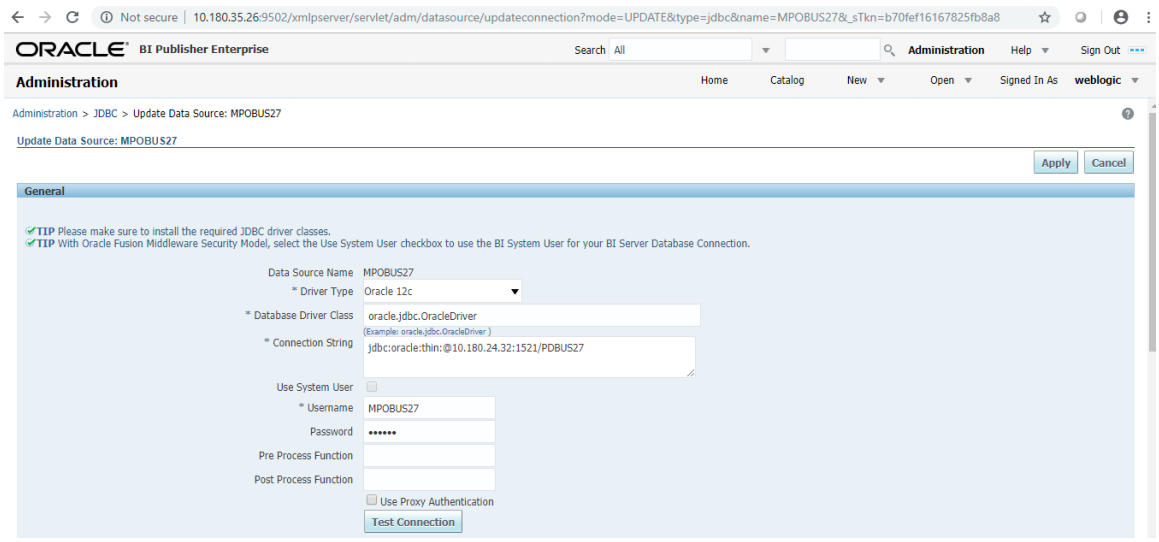
6. Fill up the following fields:

Table 9–1 Data Source Details

Field Name	Description
Data Source Name	Any name can be given here
Driver Type	Oracle 11g
Database Driver Class	oracle.jdbc.OracleDriver
Connection String	jdbc:oracle:thin:@<OBP_HOST_DB_IP>:<OBP_HOST_DB_PORT>:<OBP_HOST_DB_SERVICE_NAME>
Username	<BIP_DATASOURCE_NAME>
Password	<OBP_HOST_DB_PASSWORD>

7. Click **Ok**.

Figure 9–5 BIP Data Source Created



10 ODI Configuration

This chapter details steps involved in the configuration of ODI. Before configuring ODI, you need to install the required ODI version mentioned in Section 1.1.2.1 Certification Details.

You can configure ODI using odi.tar.gz. ODI configuration zip is present inside the ob-utils zip/Insights.zip.

10.1 Configuration Procedure

Following are the steps required for ODI configuration using ob-utils zip/Insights.zip:

1. Create master and work repository using RCU. At the end of RCU run, master and work repository is created in one schema.
2. Create a staging area to copy all the scenarios from ob-utils.zip\Insights.zip\odi.tar.gz\odi.tar.
3. Set ODI Level Configurations as mentioned in Section 12 Analytics Configuration.
4. Create data source for master and work repository with schema and DB details based on step 1.
    - odiMasterRepository for Master Repository having JNDI name: jdbc/odiMasterRepository.
    - odiWorkRepository for Work Repository having JNDI name: jdbc/odiWorkRepository.
5. Create three more data sources in the ODI domain.
    - odiOCSA for CSA DB having JNDI name: jdbc/odiOracleCsa
    - odIUploadOBP for OBP DB having JNDI name: jdbc/odIUploadOBP
    - odiOBP for source DB having JNDI name: jdbc/odiOBP
6. Deploy agent from staging area in ODI domain.
7. Create one data source to access reporting db (jdbc/FCBDataSourceODI) with the name OBP_HOST_ODI_XA in host domain where batch will run.
8. Make the entry for WSDL_URL in odi.properties file in host domain where batch will run.

    Example: WSDL_URL =

    http: //<ODIDOMAINSERVER>:8080/oracle12diagent/OdiInvoke?WSDL

11 Monitoring Servers Using Oracle Enterprise Manager

This chapter lists the steps required to monitor servers using Oracle Enterprise Manager (OEM).

The OBEO servers can be monitored using Oracle Enterprise Manager. 'em_monitor.zip' is available inside 'ob-utils' for this purpose. The procedure is as follows:

1. Extract the 'ob-utils' to get 'em_monitor.zip'.
2. Extract 'em_monitor.zip'. It contains 'obp_em_view_script' folder.

   For monitoring the OBEO Servers, follow the procedures given in Oracle Banking Enterprise Originations Management Pack Setup Guide.

12 Analytics Configuration

This chapter explains the configuration required to set up analytics. Oracle Business Intelligence Enterprise Edition (OBIEE) (which is a separately licensed product) is used for performing analytics using the following dashboards:

- Origination Analytics dashboard (OBIEE 12.2.1.3.0)
- Credit Monitor (LCM) dashboard (OBIEE 12.2.1.3.0)

12.1 Create Schema Objects

Perform the following steps.

1. Run the SQL script from the following location to create the Analytics OBIEE schema data objects. This creates the required dimension, fact and other related database objects.

   /host/analytics.tar/analytics/historical/db/run_script.sql

2. Run the SQL script from the following location on OBEO Host database. This script creates the required staging area database objects.

   /host/analytics.tar/analytics/historical/db/run_script_CSASchema.sql

12.2 ODI Import Master Repository

This section explains the process of importing ODI Master Repository.

12.2.1 Create Schema of ODI Master Repository

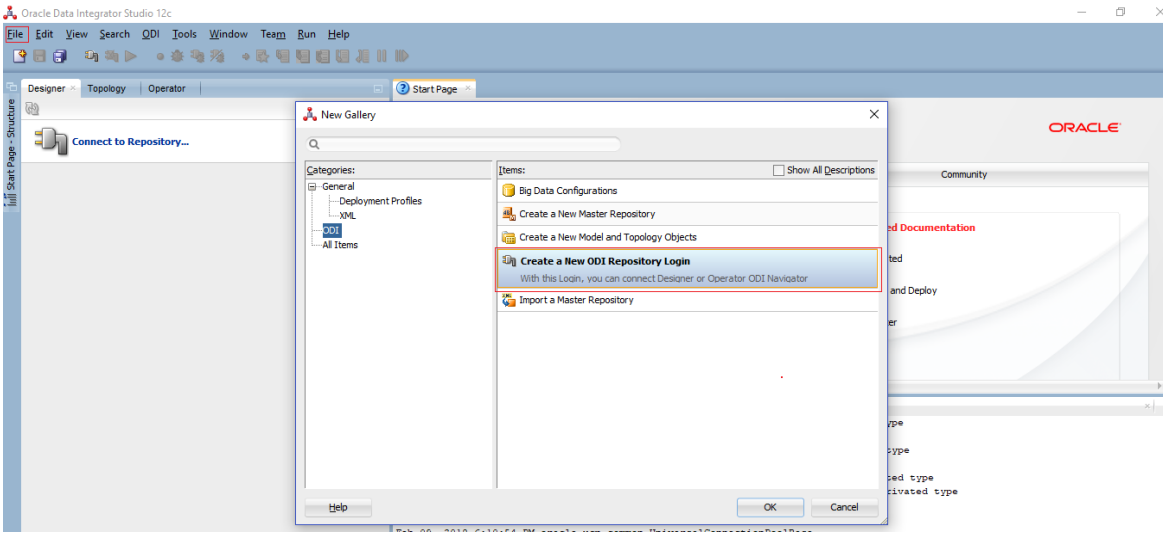
Create new database schema for ODI master repository with the help of DBA. Schema for master repository can be create using ODI studio also.

12.2.2 Create New ODI Repository Login

To create a new ODI repository login:

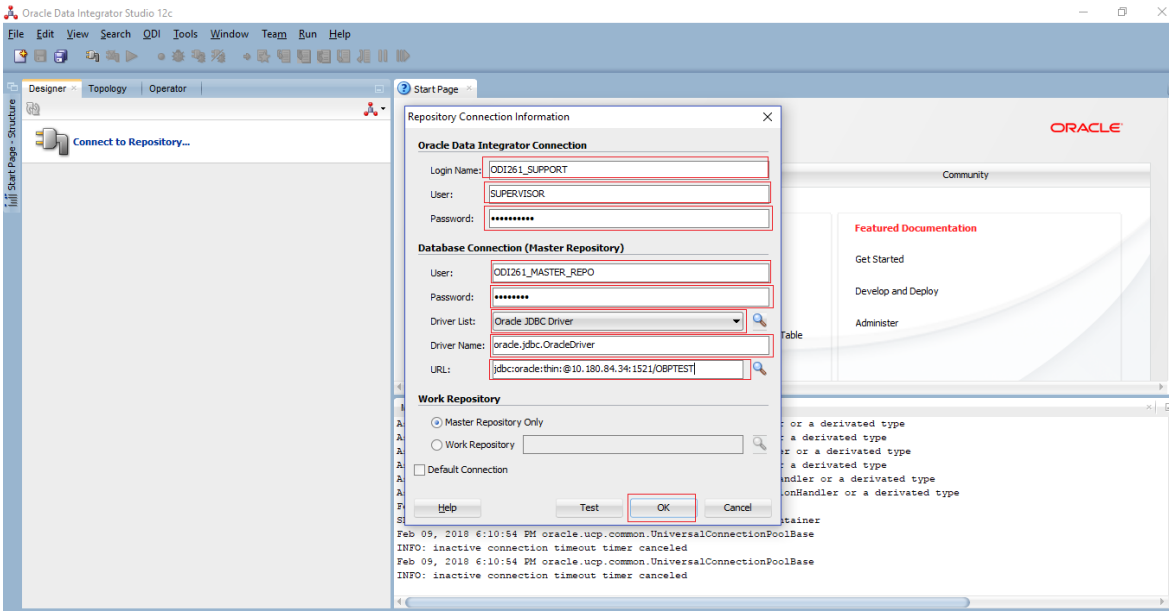
1. Click **File** > **New**.

Figure 12–1 Create new repository



2. Provide the required details and click **OK**.

Figure 12–2 Enter repository details

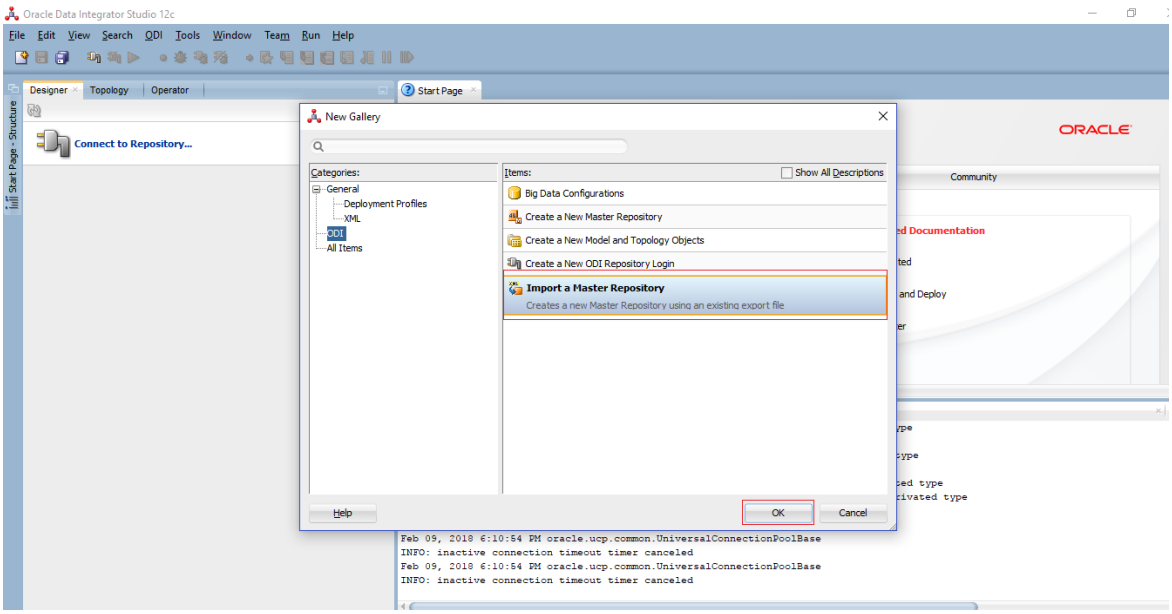


12.2.3 Import Master Repository

To import ODI master repository:

1. Click **File** > **New**.

Figure 12–3 Import master repository



2. Provide the required details.
3. Select the master repository zip file (/host/analytics.tar/analytics/historical/odi/Repositories) from file system and click **OK**.

Figure 12–4 Select master repository zip file

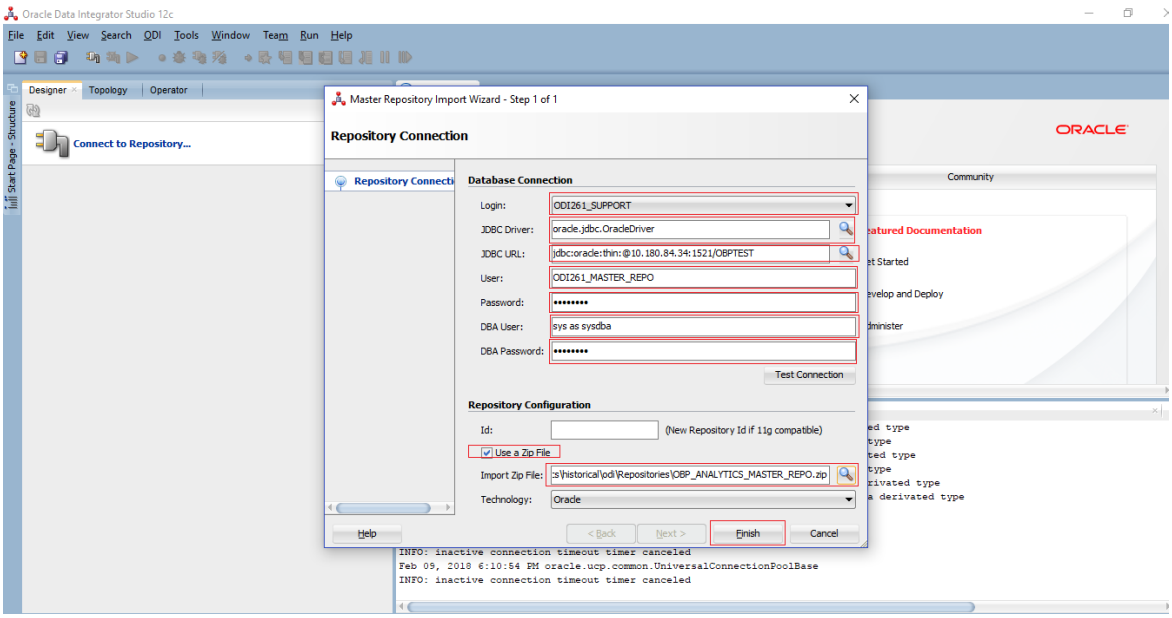
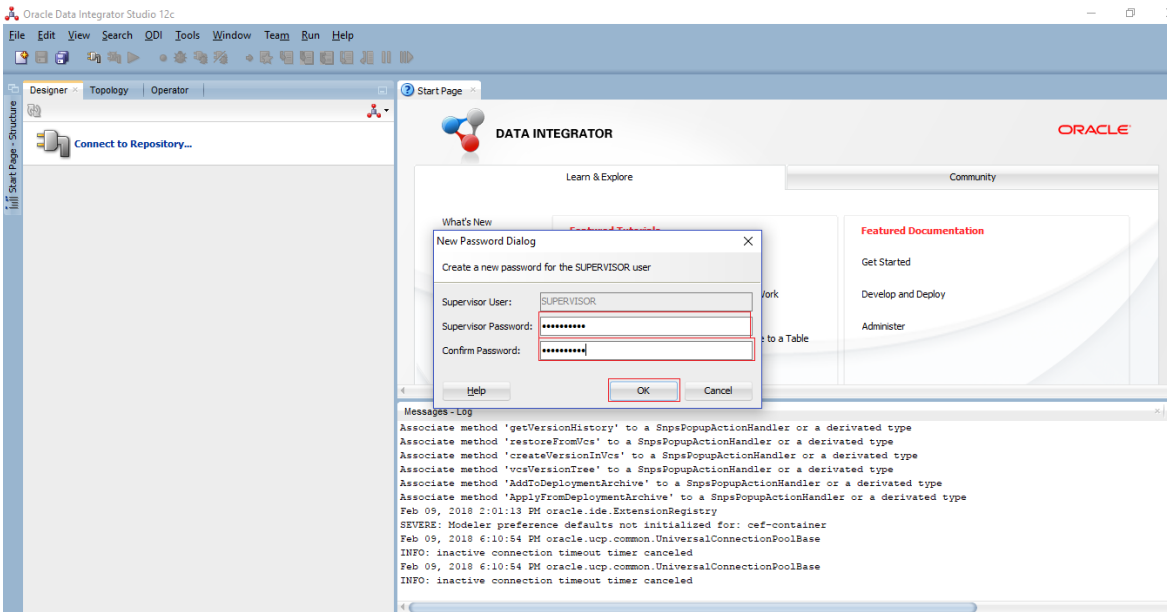


Figure 12–5 Set password



12.3 ODI Import Work Repository

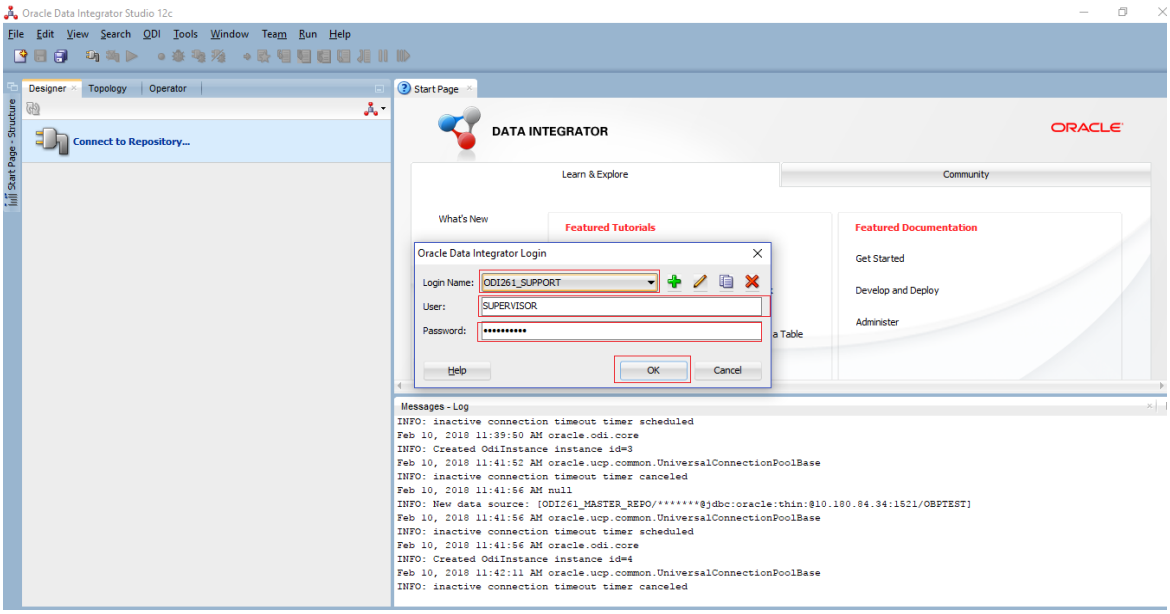
This section explains the process of importing ODI Work Repository.

12.3.1 Create New ODI Work Repository

To create a new ODI repository:

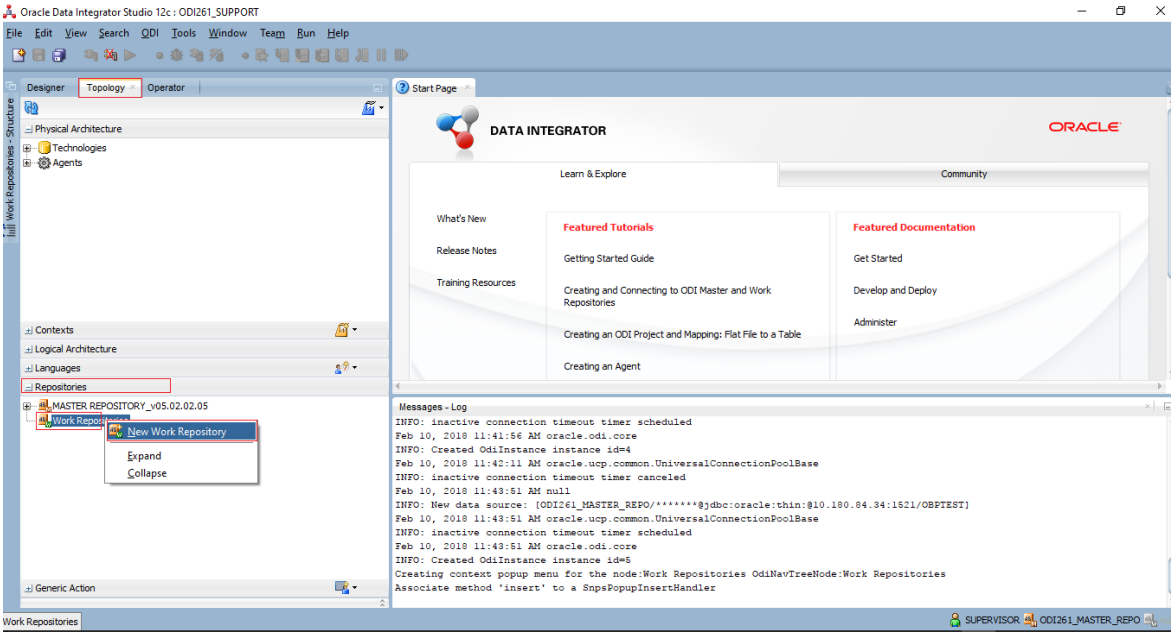
1. Log in to newly create master repository.

Figure 12–6 Log in to master repository



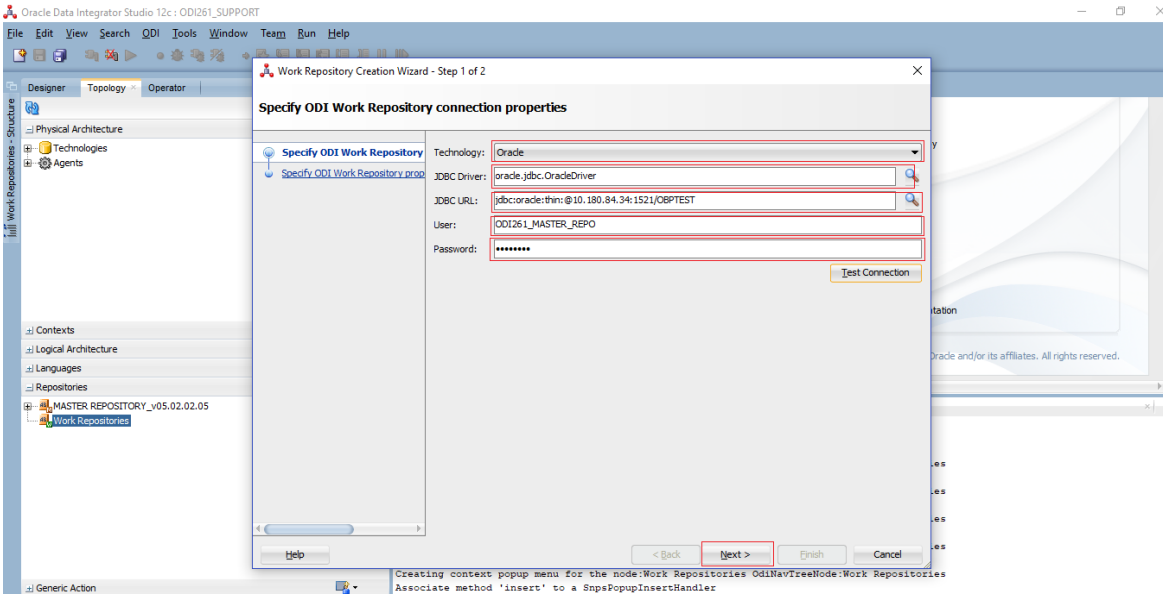
2. Click **Topology** > **Repositories** > **Work Repositories**.
3. Click **New Work Repository**.

Figure 12–7 Select new work repository



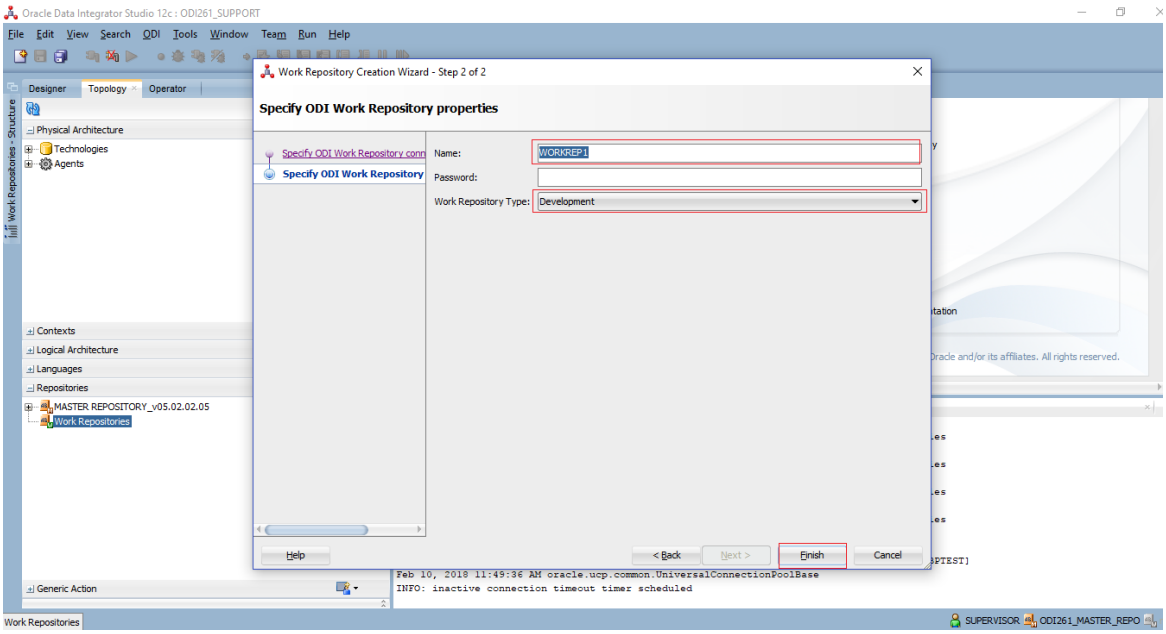
4. Check repository connection details and click **Next**.

Figure 12–8 Check repository details



5. Specify work repository name as **WORKREP1**. Password is optional. Then click **Finish**.

Figure 12–9 Specify repository name

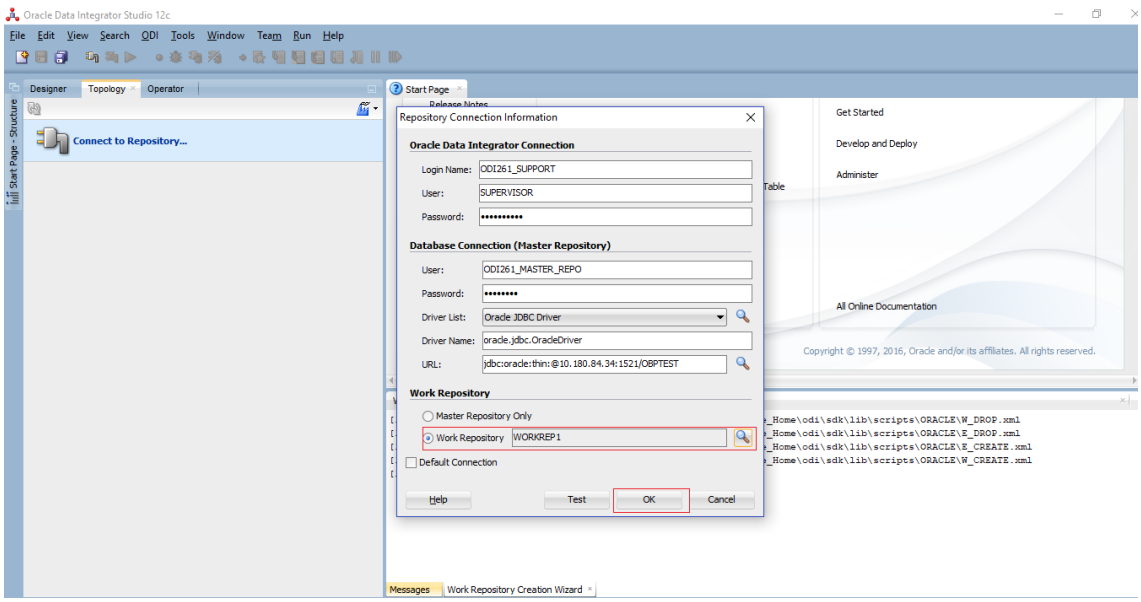


12.3.2 Import ODI Work Repository

To import ODI work repository:

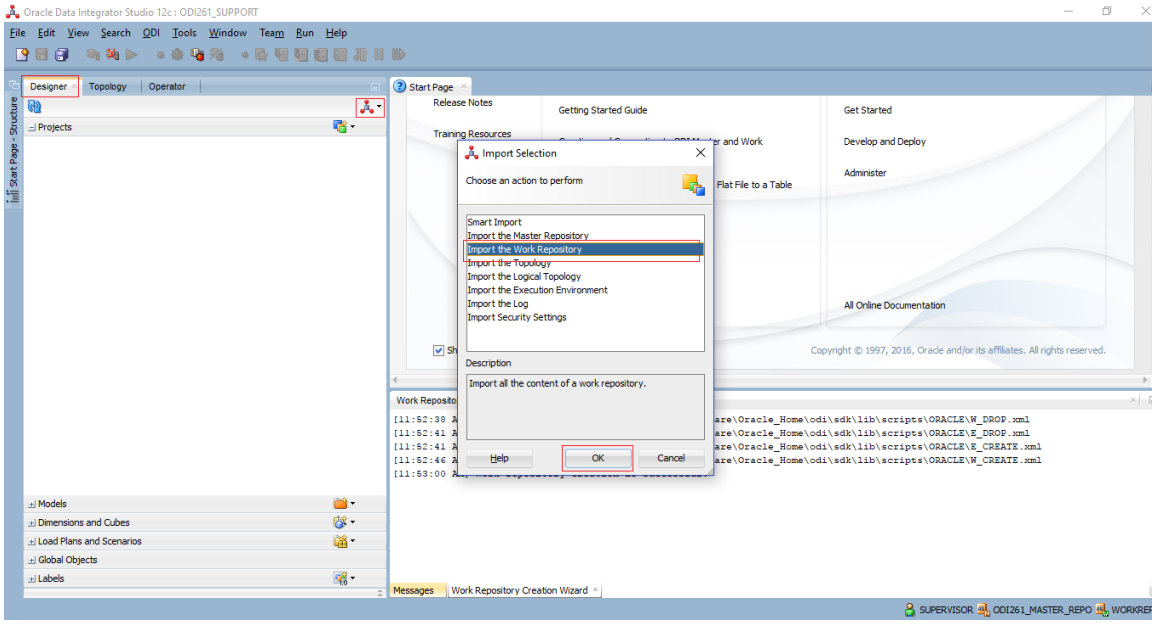
1. Log in to ODI master repository after selecting newly created work repository.

Figure 12–10 Log in to repository



2. Click **Designer** > **Designer Menu** > **Import**.
3. Select **Import Work Repository** and click **OK**.

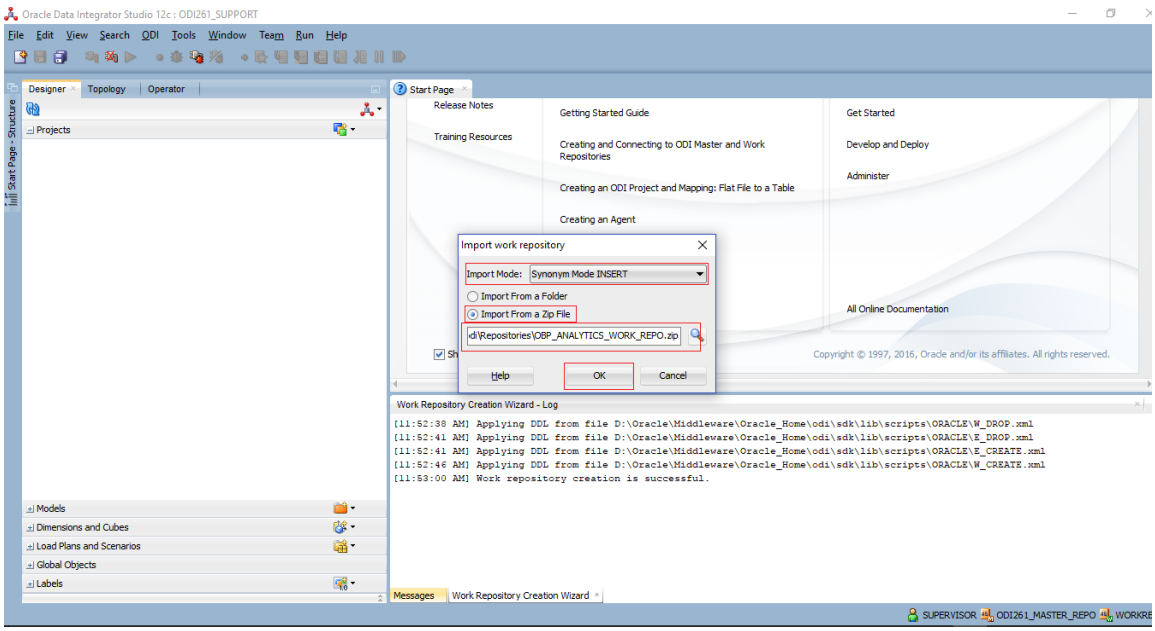
Figure 12–11 Import work repository



4. Select import mode as **Synonym Mode INSERT**.

5. Select option as **Import as Zip File**.
6. Select work repository zip file from file system (/host/analytics.tar/analytics/historical/odi/Repositories)

Figure 12–12 Select work repository zip



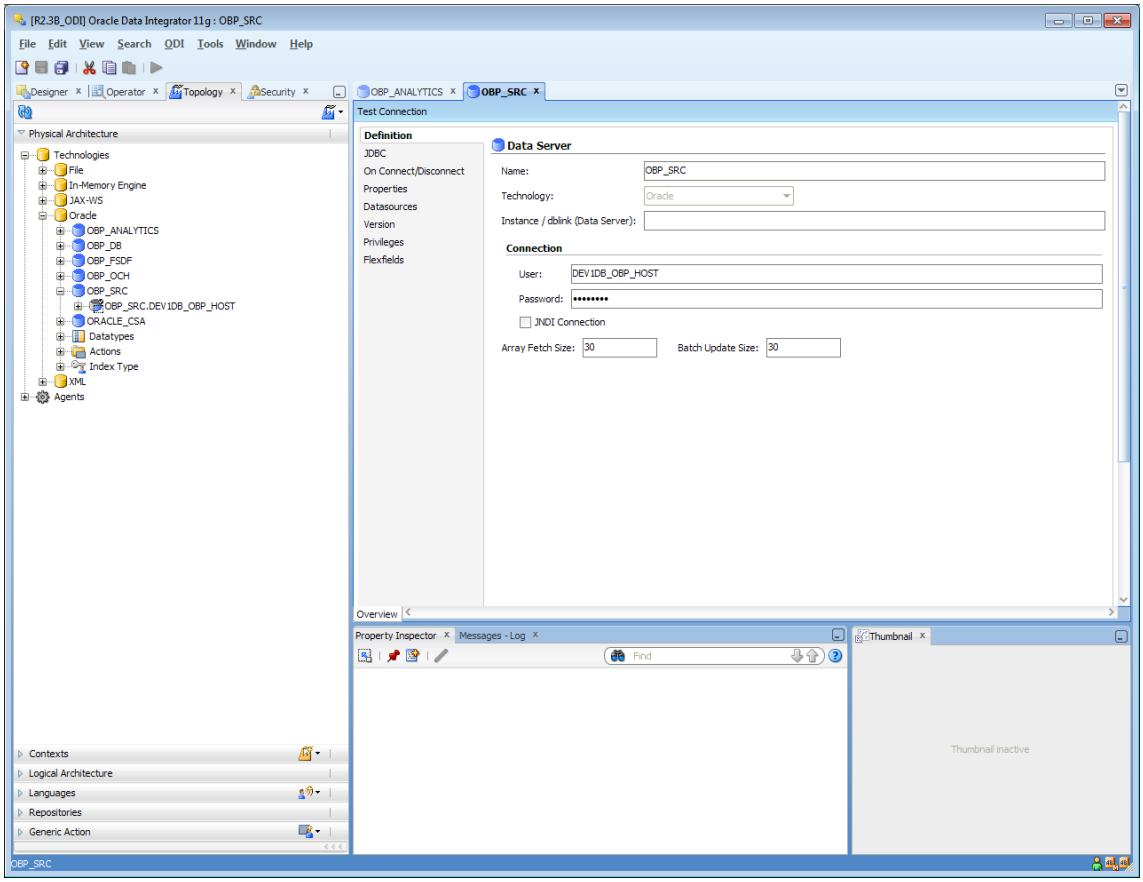
12.4 ODI Level Configuration

This section explains the configurations required at ODI level.

12.4.1 Setting Target Data Server in ODI Topology

Provide the db details for analytics database containing the stage, dimension and fact table in the OBP_ ANALYTICS data base under Topology.

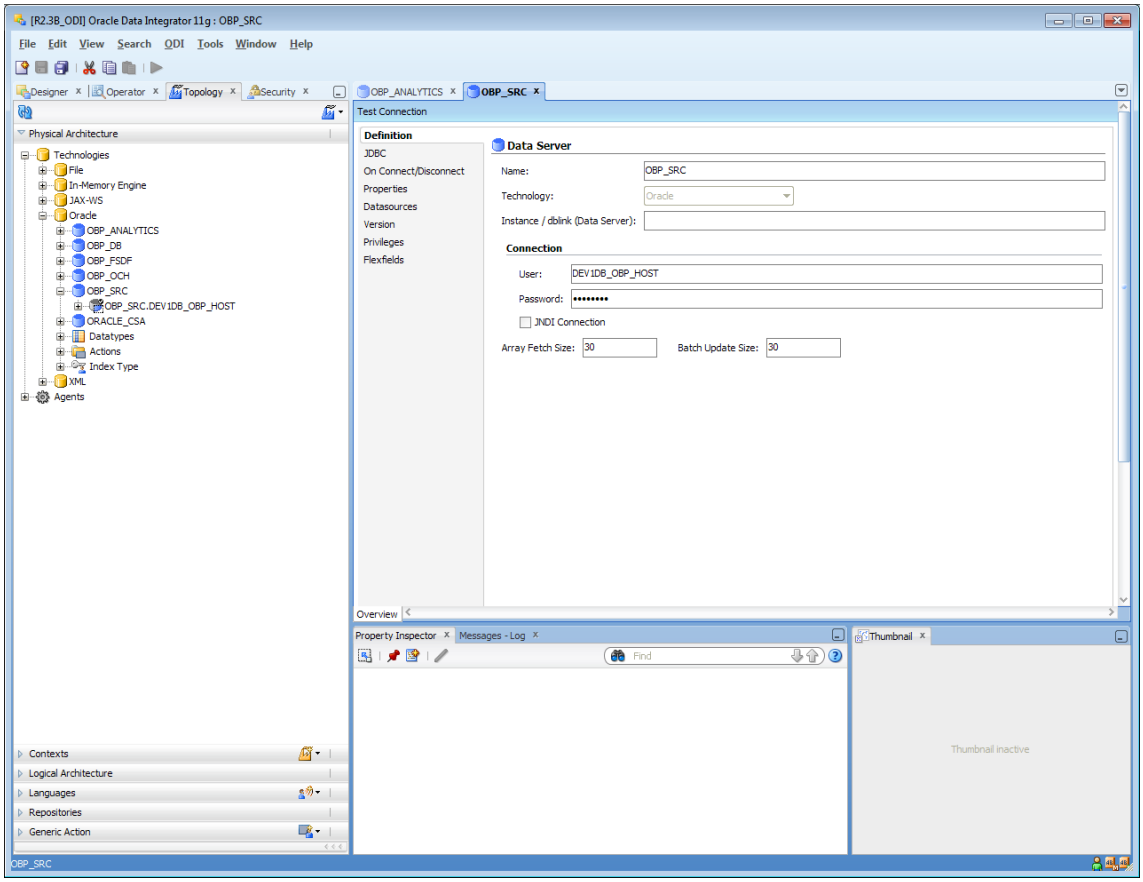
Figure 12–13 Set target data server



12.4.2 Setting Source Data Server in ODI Topology

Provide the db details for OBEO Host database in the OBP_SRC data server tab under Topology.

Figure 12–14 Set source data server



12.5 ODI Agent Deployment Configuration

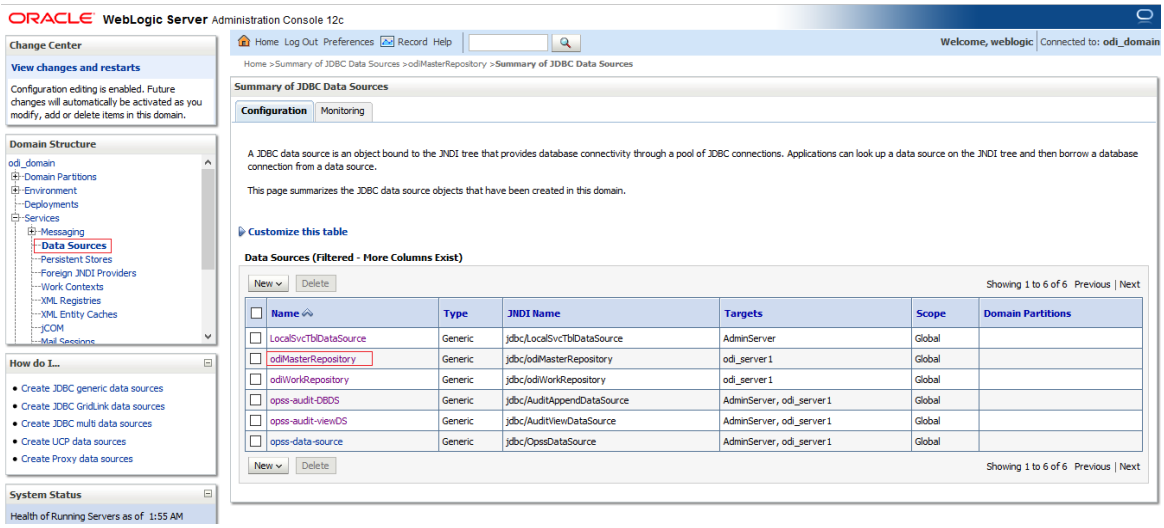
This section explains the configurations required for ODI agent deployment.

12.5.1 Update the Connection Details of Master Repository and Work Repository

To update the details:

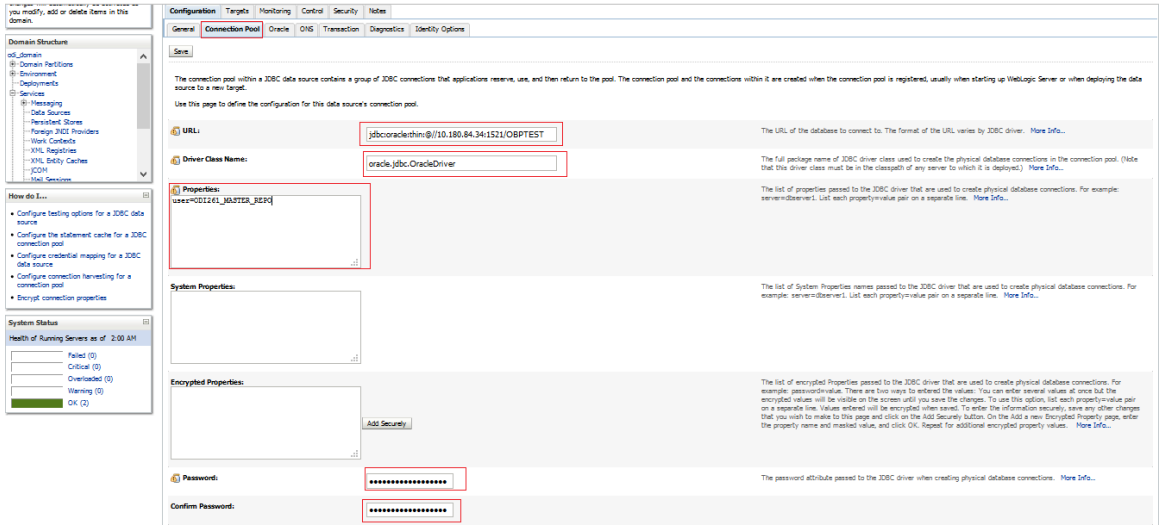
1. Log in to WebLogic console.
2. Click **Services** > **Data Sources** > **odiMasterRepository**

Figure 12–15 Select odiMasterRepository



3. Click **Connection Pool** and update database connection details for the repository.

Figure 12–16 Update connection details



12.6 OBI Configuration

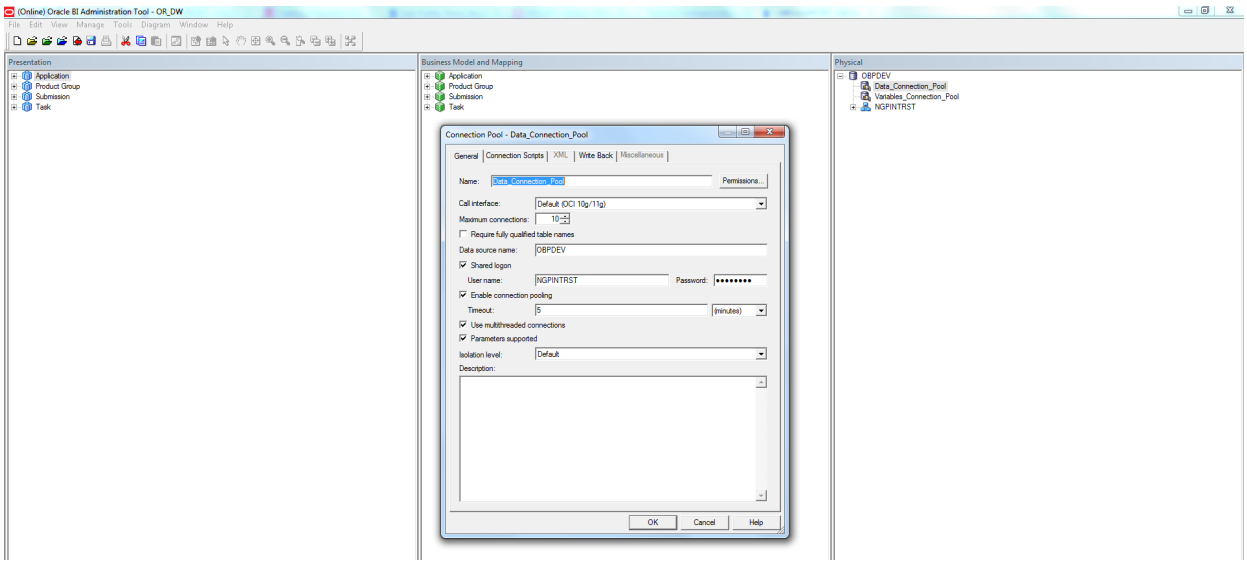
This section explains the configurations required for OBI.

12.6.1 Update the Analytics DB Details in the Repository

Analytics database details are updated in repository file. Catalog file can be found in HOST installer zip in analytics.tar.gz.Inside analytics.tar.gz, catalog files can be found at analytics/historical/obi/catalog location and RPD files can be found at analytics/historical/obi/repository location. Catalog files are updated with the help of Oracle BI Administration Tool.

Update the DB source name and the user credentials in the Connection Pool of the repository and set it to the Analytics DB.

Figure 12–17 Update Analytics DB details



12.6.2 Add the Analytics DB TNS Entry

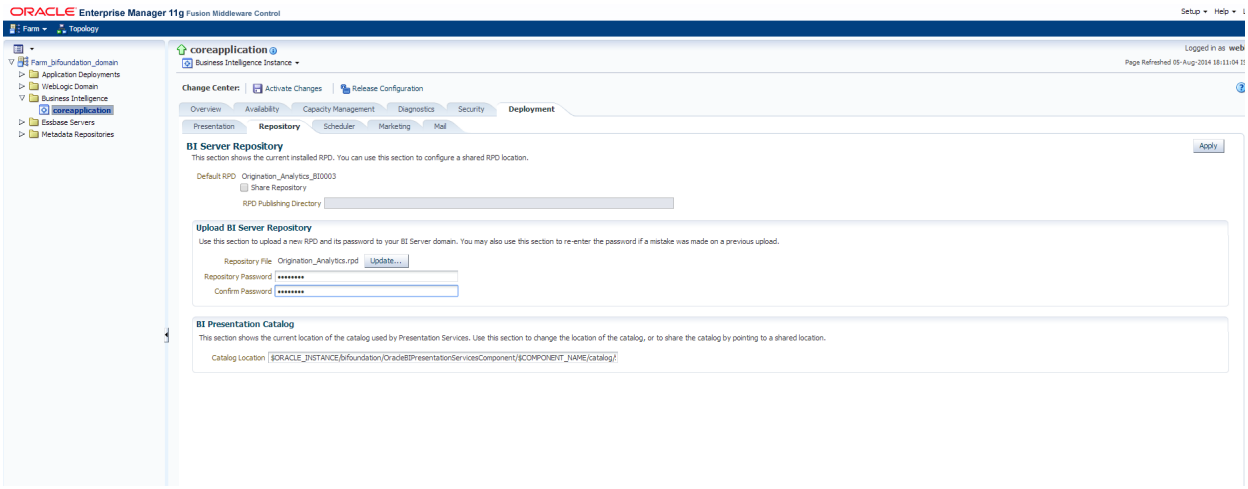
Add the TNS entry for the analytics DB in the tnsnames.ora file at location ORACLE_HOME/network/admin.

12.6.3 Upload the Repository to the OBI Server

Perform the following steps.

1. Log in to the OBI EM server console.
2. Navigate to **Business Intelligence** > **coreapplication** > **Deployment** > **Repository** tab.
3. Click **Release Configuration**.
4. Click **Upload** and select the repository to be uploaded.
5. Enter the repository password.
6. Click **Apply**.
7. Restart the OBI server components.

Figure 12–18 Upload repository

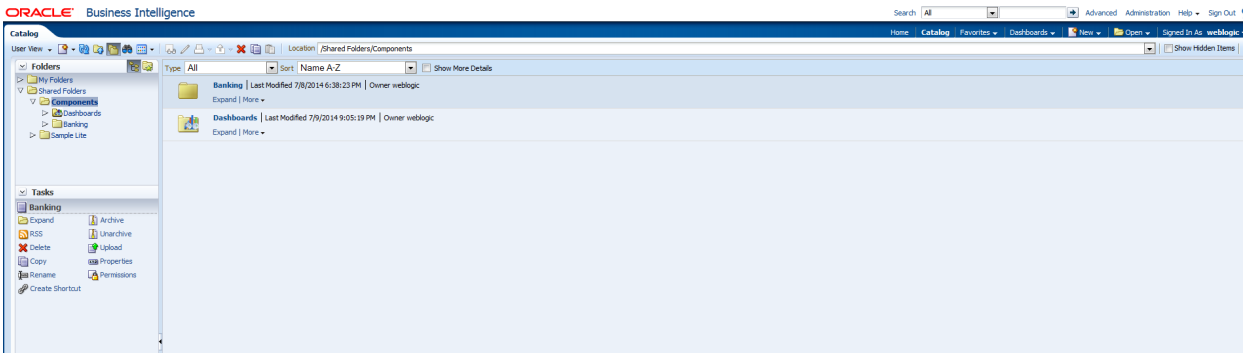


12.6.4 Upload the Catalogs to the OBI Server

Perform the following steps.

1. Navigate to the Oracle Business Intelligence Sign In page and sign in.
2. Click **Catalog** and navigate to **Shared Folders** > **Components**.
3. Click **Unarchive** in the Tasks Panel and select the Analyses catalog to upload the analyses to the OBI server.
4. Click **Unarchive** in the Tasks Panel and select the Dashboards catalog to upload the dashboards to the OBI server.

Figure 12–19 Upload catalogs



12.7 Global Configuration

This configuration is required to set up all global parameters to execute ODI scenario. Following parameters need to be configured. All the seed files are available in "/host/analytics.tar/analytics/ historical/odi/seed" folder.

- WSDL url of ODI agent
- CredentialStore type
- ODI repository username
- ODI repository password
- Flag for ODI source database

Run flx_fw_config_all_b.sql to configure above parameters.

ODI agent server and port need to be configured. Please run flx_fw_config_var_b.sql.

12.8 Batch Configuration for Analytics

This section explains the batch configurations required for analytics.

- **Analytics Batch Category:** Run flx_batch_job_category_master.sql to configure analytics batch category.
- **Analytics Batch Code Type:** Run flx_batch_job_code_type.sql to configure analytics batch code.
- **Analytics Batch Group Category:** Run flx_batch_job_grp_category.sql to configure analytics batch group category.
- **Analytics Category Batch Shell Dependencies:** Run FLX_BATCH_JOB_SHELL_DEPEND.sql to configure shell dependency.
- **Analytics Category Batch Shell:** Run flx_batch_job_shell_master.sql to configure analytics shell.
- **Analytics Batch Job Type:** Run flx_batch_job_type.sqlto configure analytics batch job type.
- **Analytics Job Definition:** Run flx_di_etl_job_definition.sql to configure analytics job definition.

12.9 OBIEE Monitoring Hierarchy Setup

In a banking organization, there are different users who need access to different types and levels of information. Banks need to identify the users who will use the dashboards for analysis. Based on the organization structure, the bank can establish its own monitoring hierarchy and map users to this hierarchy, to control and provide access to specific dashboards and widgets.

Points to note:

- OBIEE supports 10 levels of hierarchy. Currently in OBP, 3 levels of hierarchy have been configured. As per their requirements, the bank can configure more levels of hierarchy.
- Each user in the hierarchy can be linked to other users up to 3 levels of monitoring hierarchy (for example, a user reports to a supervisor who in turn reports to a manager). This hierarchy structure is created as seed data during the day 0 implementation. The data in the dashboards is displayed based on this hierarchy.
- The users belonging to the same monitoring levels are grouped together and linked to the monitoring hierarchy through application roles in OBIEE. The hierarchy can be defined for tasks, or geographic region, or as per any other categorization required by the bank.

The following table provides an example of a simple hierarchy mapping based on tasks. As per this structure, John Doe, as an Operations Manager, will be able to see the information related to Jane, Mary, Paul, William and Samantha's work in the widgets of his dashboard.

Table 12–1 Example: Monitoring Hierarchy

Users	**Operations Manager** (Level 1) (Access to Operations Manager Dashboard)	**Group Manager** (Level 2) (Access to Group Manager Dashboard)	**Business Unit Manager** (Level 3) (Access to Business Unit Manager Dashboard)
Jane, Mary, Paul, William, Samantha	John Doe	David Williams	Mary Smith
Joe, Dominic, Martha, Sam, Peter, Dave	Mary Doe	John Smith	Robin Jenson

- Each dashboard can be mapped to an application role in the hierarchy. The following three dashboards specific to three monitoring hierarchy levels are available as out-of-the-box (OOTB):
  - Business Unit Manager Dashboard
  - Group Manager Dashboard
  - Operations Manager Dashboard
- Different widgets can be linked to a dashboard. The bank can also remap the widgets to different dashboards as per its requirement.
- Logged-in users can view the dashboards corresponding to their hierarchy and the data displayed in the widgets depends on the user hierarchy to which they are linked. For example, a business unit manager can view the details of all regional managers reporting to the particular BU manager. Similarly, the regional group managers can only view details specific to the operations managers under them.
- The details that appear in the widgets are fetched from OBP and are refreshed based on the frequency configured in the batches. For example, if a batch is configured to run weekly, the details will be refreshed once in a week.

Example:

Let us consider the following monitory hierarchy levels:

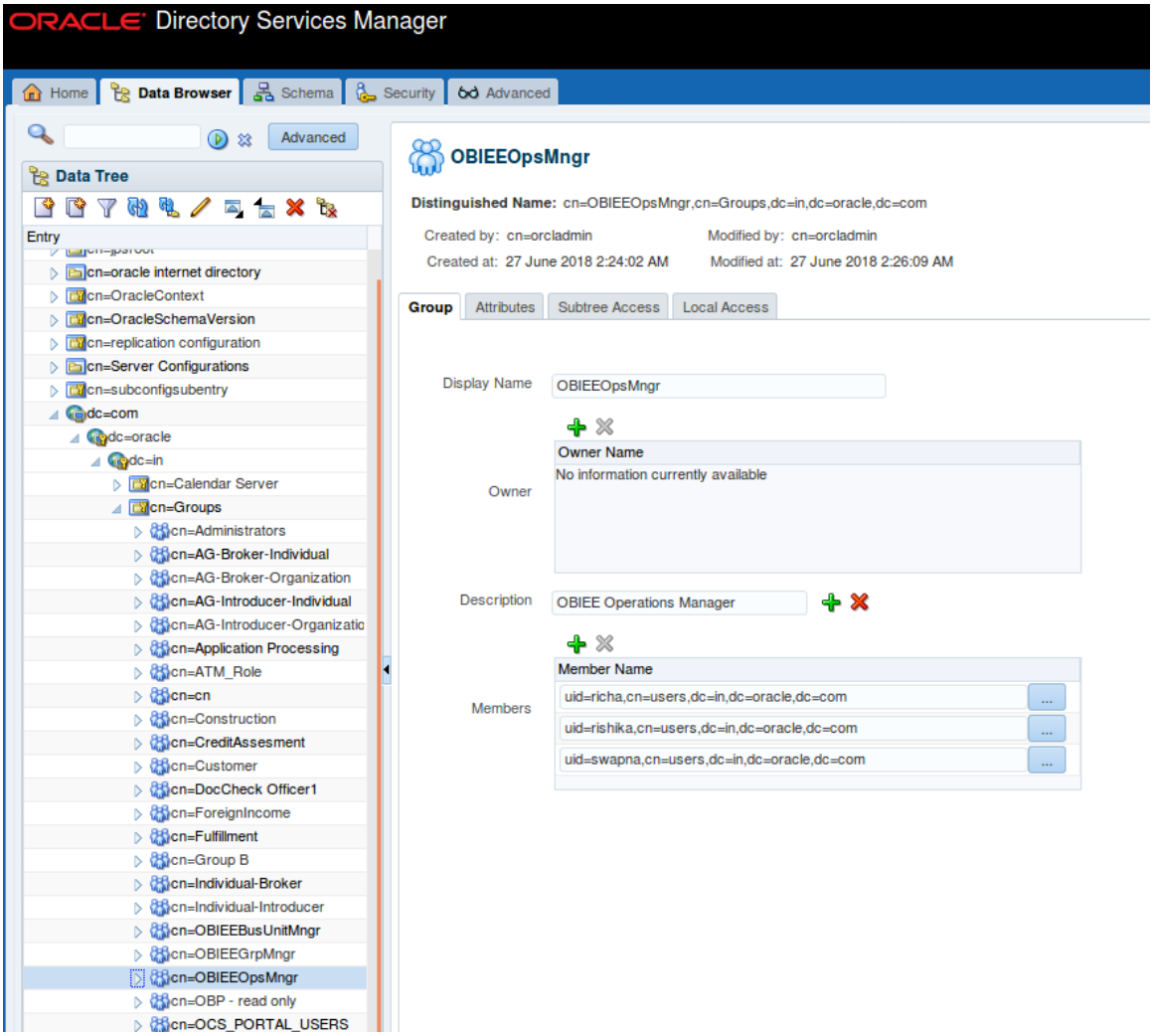
1. Branch (Level 1): This level includes Operation Managers. They can supervise the activities of other users who handle branch-specific activities. They report to the Group Manager of their respective regions.
2. Region (Level 2): This level includes Group Managers who handle the activities for a specific region where the bank operates. They supervise the activities of different Operations Managers coming under the same region and report to the Business Unit Manager.
3. Business Unit (Level 3): This level includes Business Unit Managers or General Managers who handle the activities of a business unit within a bank. They supervise the activities of different Group Managers and Operations Managers.

12.9.1 Setup Process

Since the access to specific dashboards or widgets is configured based the monitoring hierarchy, the bank needs to do the following:

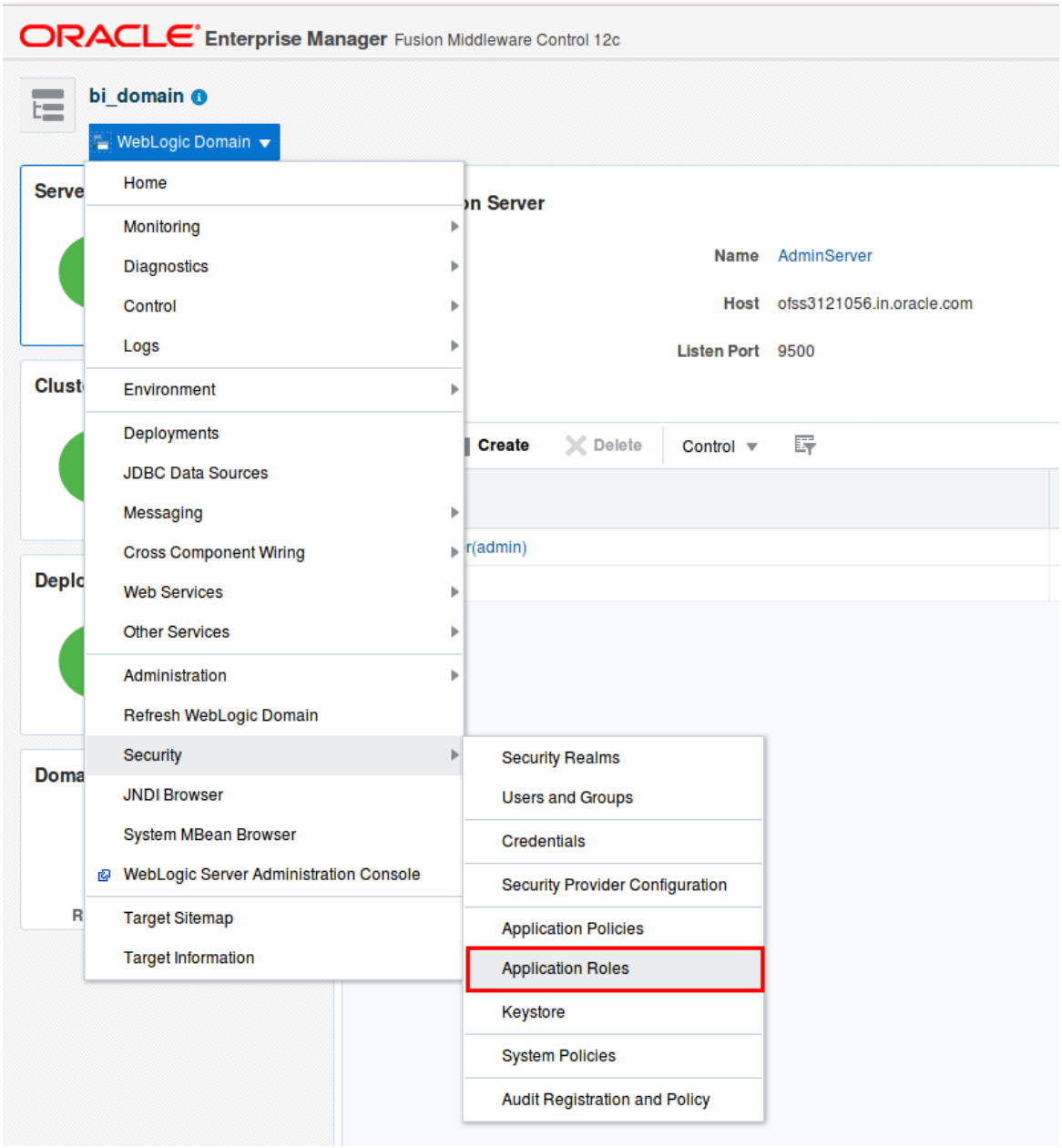
1. Identify the stakeholders or users who will access and use OBIEE dashboards.
2. In OID, create user IDs (similar to that in OBP) and user access groups, and add the required users to these groups. For example, OBIEEOpsMngr group.

Figure 12–20 Create User Groups



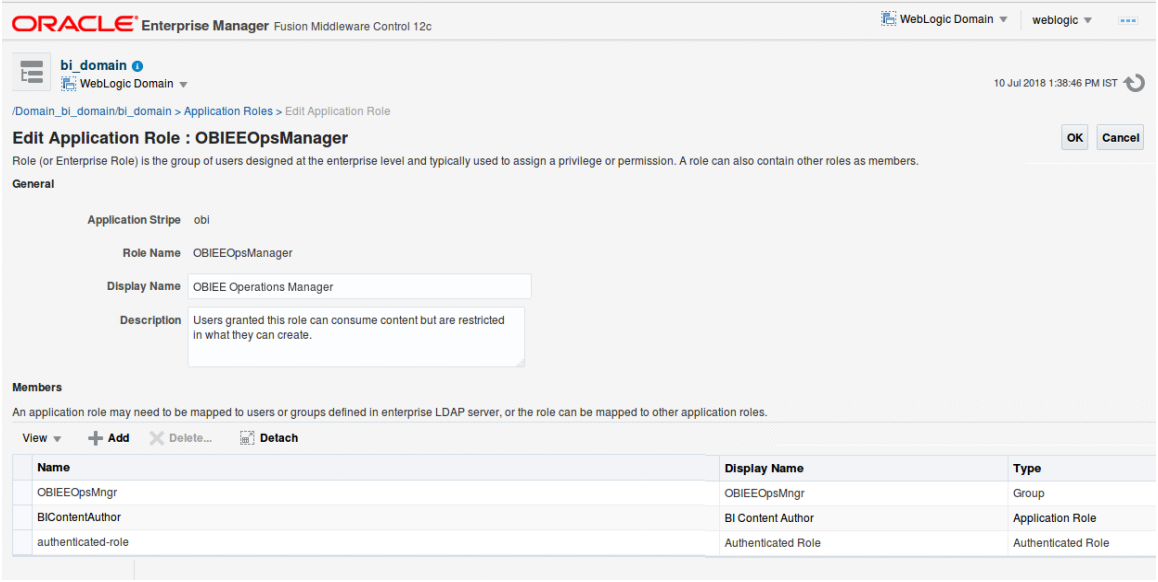
3. In OBIEE Server EM, go to WebLogic Domain > Security > Application Roles, and create the different roles that you need in OBIEE. For example, OBIEEOpsManager role.

Figure 12–21 Create Application Roles



4. For each role, add the relevant user group. For example, add the OBIEEOpsMngr group to the OBIEEOpsManager role.

Figure 12–22 Add User Groups to Application Role



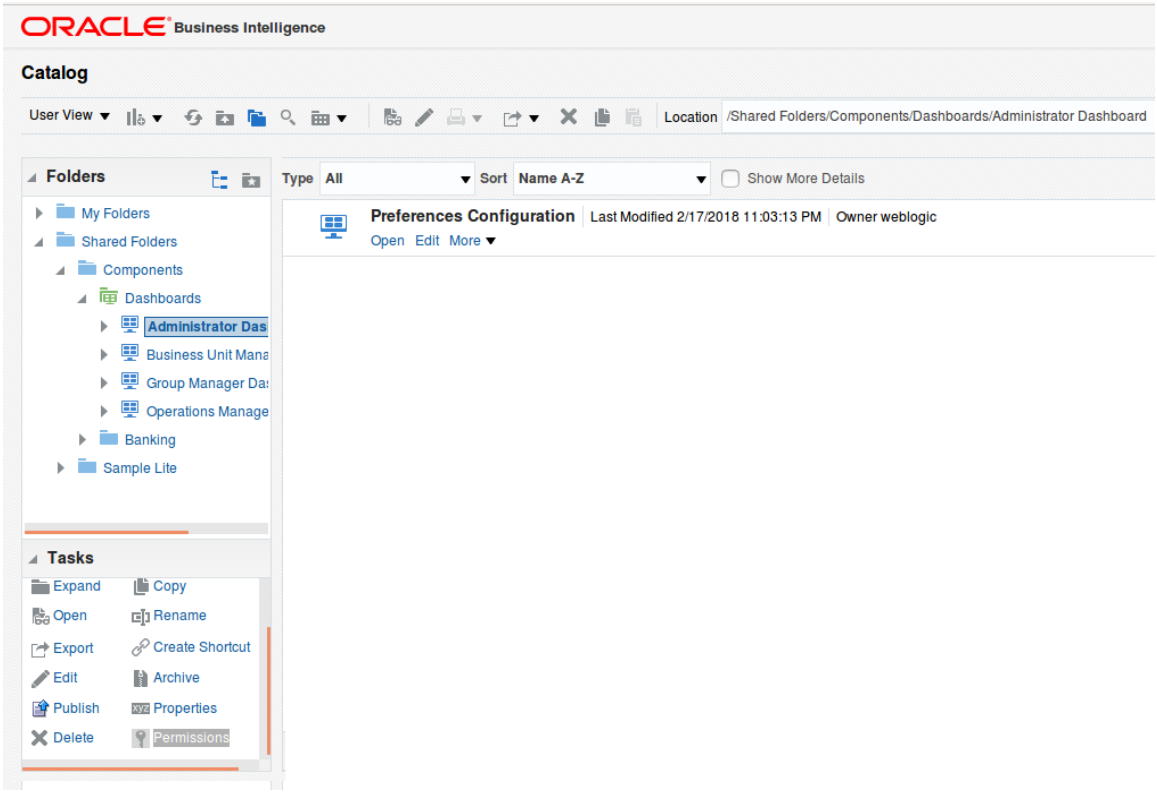
5. In flx_br_user_dim.sql, create a hierarchy by mapping users and user groups with the various hierarchy levels. For example, if you have three levels of monitoring hierarchy, the mapping can be done as seen in the below table. If you have more levels, you can add the respective levels in the mapping.

Table 12–2 Monitoring Hierarchy Example

Users	**Operations Manager** *(Monitoring Level 1)*	**Group Manager** *(Monitoring Level 2)*	**Business Unit Manager** *(Monitoring Level 3)*
Jane, Mary, Paul, William, Samantha	John Doe	David Williams	Mary Smith

6. Log in to BI Analytics as an Admin user and go to Catalog > Dashboards.

Figure 12–23 Access Dashboard from Catalog



7. For each dashboard, go to Permissions, add the relevant roles that you created and set the rights as Open. For example, for Operations Manager Dashboard, add the OBIEEOpsManager role.

Figure 12–24 Add Application Roles to Dashboards

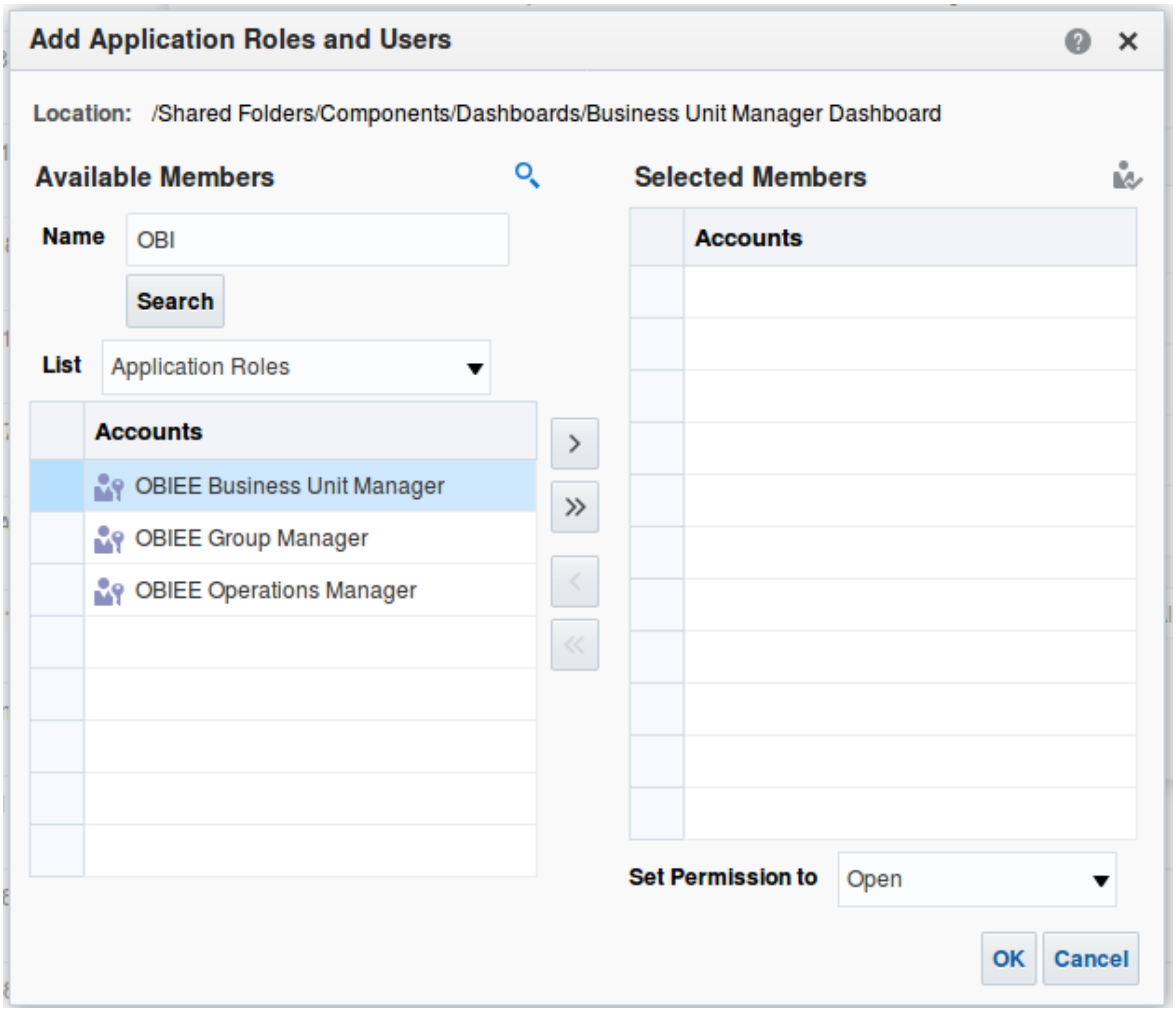
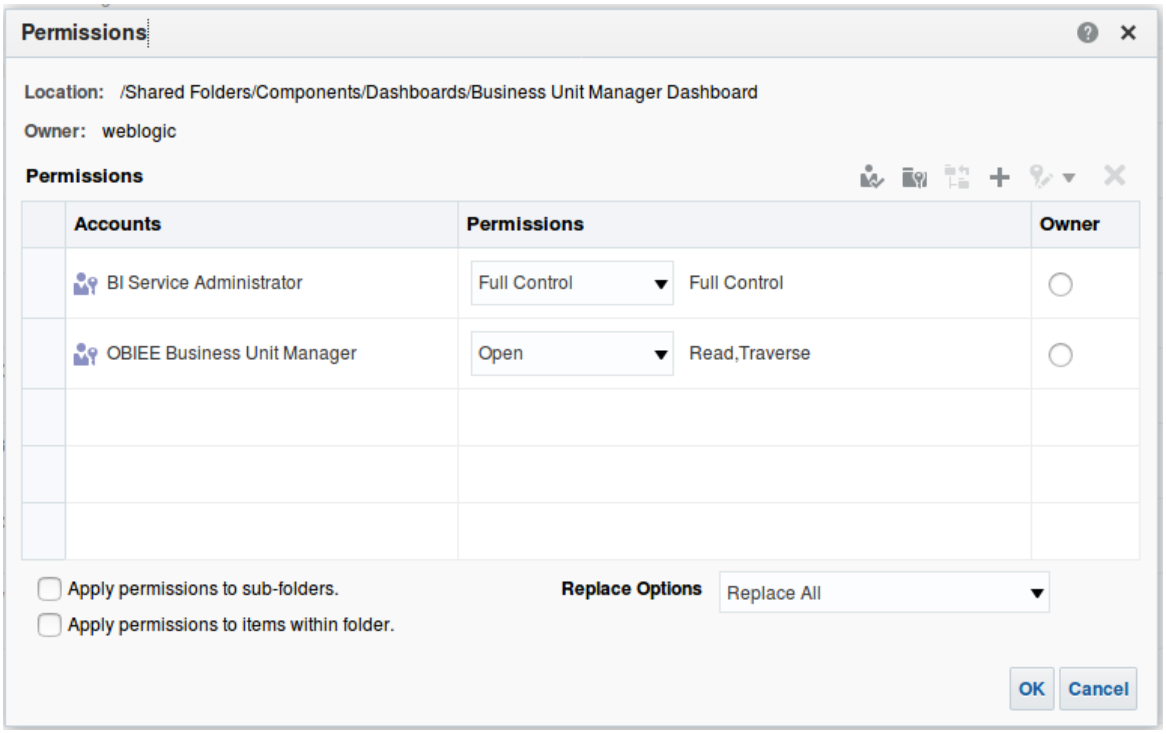


Figure 12–25 Provide Permissions



13 Post Installation Verification

This chapter lists the steps required to verify the Oracle Banking Enterprise Originations solution installation.

13.1 UI Domain Verification

To verify the UI domain installation:

1. Start the UI domain Admin and Managed servers.
2. In the WebLogic console (<UI_IP>:<UI_ADMIN_PORT>/console), navigate to the **Summary of Deployments** page.
3. Verify that the **Status** of the following OBEO libraries and applications is *Active*.
    - Shared Libraries
        - ob.app.client.coll
        - ob.app.client.communications
        - ob.app.client.cz
        - ob.app.client.deposit
        - ob.app.client.fw
        - ob.app.client.indirectlending
        - ob.app.client.lcm
        - ob.app.client.lending
        - ob.app.client.or
        - ob.app.client.party
        - ob.app.client.pm
        - ob.app.client.pricing
        - ob.app.client.sh
        - ob.ui.coll
        - ob.ui.communications
        - ob.ui.cz
        - ob.ui.deposit
        - ob.ui.fusion
        - ob.ui.lcm
        - ob.ui.indirectlending
        - ob.ui.lending
        - ob.ui.or

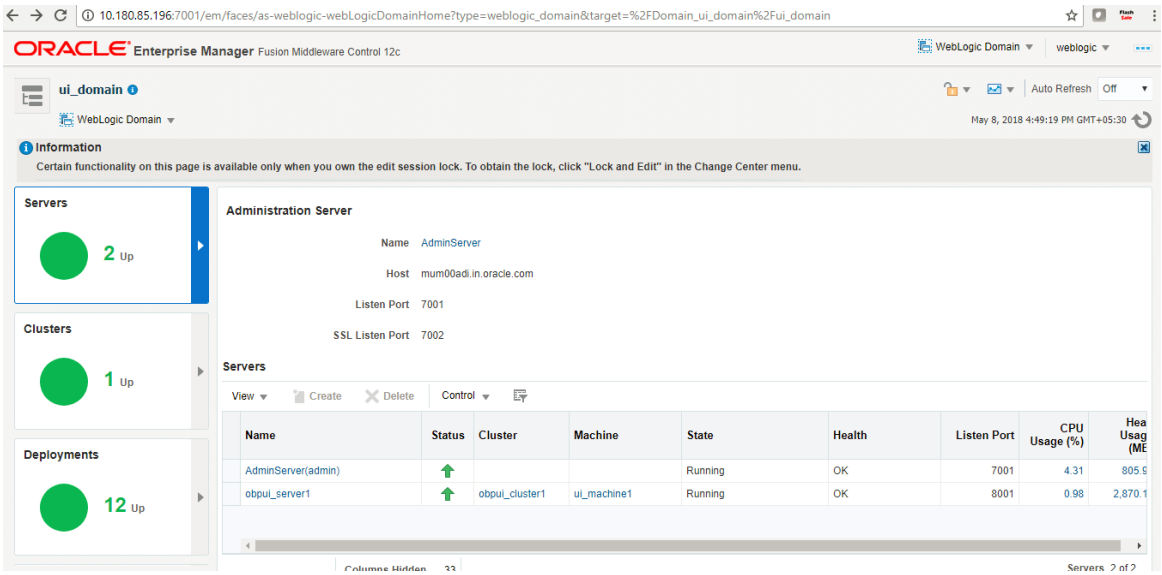
- ob.ui.party
- ob.ui.pm
- ob.ui.pricing
- ob.ui.sh
- ob.ui.tp
- ob.ui.tp.cz

■ Ears

- com.ofss.fc.app.monitoring
- com.ofss.fc.app.ui.connector
- com.ofss.fc.ui.view.obcm
- com.ofss.fc.ui.view.admin
- com.ofss.fc.ui.view.admin.dashboard
- com.ofss.fc.ui.view.developer
- com.ofss.fc.ui.view.mds
- com.ofss.fc.ui.view.obeo
- com.ofss.fc.ui.view.obepm
- com.ofss.fc.ui.view.qa

4. In EM console (<UI_IP>:<UI_ADMIN_PORT>/em), check the status of:
   - Cluster
   - Managed Servers
   - Applications

Figure 13–1 UI EM Console Status Check

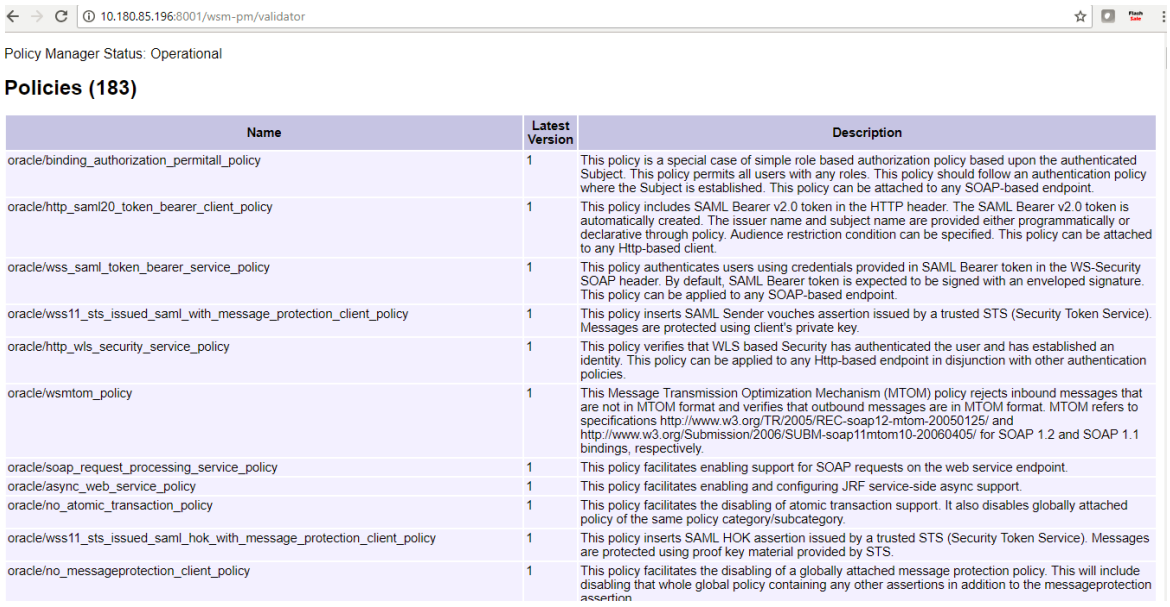


5. In (<UI_IP>:<UI_ADMIN_PORT>/wsm-pm/validator) and (<UI_IP>:<UI_MANAGED_PORT>/ wsm-pm/validator) screens, all policies must appear.

Figure 13–2 UI Admin wsm-pm Validator

		configuration. A SAML token, included in the SOAP message, is used in SAML-based authentication with sender vouches confirmation. These credentials are provided either programmatically or through the security configuration. This policy performs dynamic identity switching by propagating a different identity than the one based on authenticated Subject. This policy can be attached to any SOAP-based client.
oracle/wss_saml20_token_over_ssl_service_policy	1	This policy authenticates users using credentials provided in SAML V2.0 token in the WS-Security SOAP header. The credentials in the SAML V2.0 token are authenticated against a SAML V2.0 login module. The policy verifies that the transport protocol provides SSL message protection. This policy can be applied to any SOAP-based endpoint.
oracle/wss11_username_token_with_message_protection_wssc_client_policy	1	This policy provides message-level protection and authentication for outbound SOAP requests in accordance with the WS-Security 1.1 standard. Messages are protected using WS-Security's Basic 128 suite of symmetric key technologies, specifically RSA key mechanisms for message confidentiality, SHA-1 hashing algorithm for message integrity, and AES-128 bit encryption. The keystore on the client side is configured either on a per-request basis or through the security configuration. Credentials are included in the WS-Security UsernameToken header of outbound SOAP request messages. Only plain text mechanism is supported. Credentials are provided either programmatically through the current Java Authentication and Authorization Service (JAAS) subject or by a reference in the policy to the configured credential store. This policy has secure conversation enabled. This policy can be attached to any SOAP-based client.
oracle/wss11_x509_token_with_message_protection_wssc_client_policy	1	This policy provides message-level protection and certificate-based authentication for outbound SOAP requests in accordance with the WS-Security 1.1 standard. Messages are protected using WS-Security's Basic 128 suite of symmetric key technologies, specifically RSA key mechanisms for message confidentiality, SHA-1 hashing algorithm for message integrity, and AES-128 bit encryption. The keystore on the client side is configured either on a per-request basis or through the security configuration. Credentials are included in the WS-Security binary security token of the SOAP message. These credentials are provider either programmatically or through the security configuration. This policy has secure conversation enabled.
oracle/wss_saml_token_over_ssl_service_policy	1	This policy authenticates users using credentials provided in SAML tokens in the WS-Security SOAP header. The credentials in the SAML token are authenticated against a SAML login module. The policy verifies that the transport protocol provides SSL message protection. This policy can be applied to any SOAP-based endpoint.
oracle/wss11_saml_or_username_token_with_message_protection_service_policy	1	This policy authenticates users using credentials provided in SAML token or Username token or SAML token with confirmation method 'Bearer' in the WS-Security SOAP header or using credentials in the HTTP header against the configured identity store. Messages are protected either over transport layer using HTTPS or message level protection using WS-Security 1.1 standard . Message level protection(integrity, confidentiality) is done using WS-Security's Basic 128 suite of symmetric key technologies, specifically RSA key mechanisms for message confidentiality, SHA-1 hashing algorithm for message integrity, and AES-128 bit encryption.This policy can be attached to any SOAP based endpoint or any HTTP based endpoint

Figure 13–3 UI managed wsm-pm validator



Policy Manager Status: Operational

Policies (183)

Name	Latest Version	Description
oracle/binding_authorization_permitall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy permits all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/http_saml20_token_bearer_client_policy	1	This policy includes SAML Bearer v2.0 token in the HTTP header. The SAML Bearer v2.0 token is automatically created. The issuer name and subject name are provided either programmatically or declarative through policy. Audience restriction condition can be specified. This policy can be attached to any Http-based client.
oracle/wss_saml_token_bearer_service_policy	1	This policy authenticates users using credentials provided in SAML Bearer token in the WS-Security SOAP header. By default, SAML Bearer token is expected to be signed with an enveloped signature. This policy can be applied to any SOAP-based endpoint.
oracle/wss11_sts_issued_saml_with_message_protection_client_policy	1	This policy inserts SAML Sender vouches assertion issued by a trusted STS (Security Token Service). Messages are protected using client's private key.
oracle/http_wls_security_service_policy	1	This policy verifies that WLS based Security has authenticated the user and has established an identity. This policy can be applied to any Http-based endpoint in disjunction with other authentication policies.
oracle/wsmtom_policy	1	This Message Transmission Optimization Mechanism (MTOM) policy rejects inbound messages that are not in MTOM format and verifies that outbound messages are in MTOM format. MTOM refers to specifications http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/ and http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/ for SOAP 1.2 and SOAP 1.1 bindings, respectively.
oracle/soap_request_processing_service_policy	1	This policy facilitates enabling support for SOAP requests on the web service endpoint.
oracle/async_web_service_policy	1	This policy facilitates enabling and configuring JRF service-side async support.
oracle/no_atomic_transaction_policy	1	This policy facilitates the disabling of atomic transaction support. It also disables globally attached policy of the same policy category/subcategory.
oracle/wss11_sts_issued_saml_hok_with_message_protection_client_policy	1	This policy inserts SAML HOK assertion issued by a trusted STS (Security Token Service). Messages are protected using proof key material provided by STS.
oracle/no_messageprotection_client_policy	1	This policy facilitates the disabling of a globally attached message protection policy. This will include disabling that whole global policy containing any other assertions in addition to the messageprotection assertion

13.2 Host Domain Verification

To verify the Host domain installation:

1. Start the Host domain Admin and Managed servers.
2. Navigate to the **Summary of Deployments** page.
3. Verify that the **Status** of the following OBEO libraries and applications is *Active*. Following are the details of all XD components libraries and ears:

   batchhost Server deployments

   - Shared libraries
     - ob.app.client.coll
     - ob.app.client.communications
     - ob.app.client.cz
     - ob.app.client.deposit
     - ob.app.client.fw
     - ob.app.client.indirectlending
     - ob.app.client.lcm
     - ob.app.client.lending
     - ob.app.client.or
     - ob.app.client.party
     - ob.app.client.pm
     - ob.app.client.pricing
     - ob.app.client.sh
     - ob.app.host.communications
     - ob.app.host.cz
     - ob.app.host.fw
     - ob.app.host.lcm
     - ob.app.host.or
     - ob.app.host.party
     - ob.app.host.pm
     - ob.app.host.pricing
     - ob.app.host.sh
     - ob.app.host.tp
     - ob.app.host.tp.cz
     - ob.app.integration
     - ob.web.client.fw
     - com.ofss.ob.ui.common

        - com.ofss.ob.ui.components.content
        - com.ofss.ob.ui.core.components
    - Ears
        - com.ofss.fc.app.connector
        - com.ofss.fc.app.monitoring
        - com.ofss.fc.messaging
        - com.ofss.fc.middleware
        - com.ofss.fc.module.rest.ops
        - com.ofss.fc.reports.communications
        - com.ofss.fc.webservices
        - com.ofss.fc.ui.common
        - com.ofss.ob.ui.view.broker
        - com.ofss.ob.ui.view.origination
        - OBPAPI

OBPR Server deployments

- Shared libraries
    - ob.app.client.coll
    - ob.app.client.communications
    - ob.app.client.cz
    - ob.app.client.deposit
    - ob.app.client.fw
    - ob.app.client.lcm
    - ob.app.client.lending
    - ob.app.client.or
    - ob.app.client.party
    - ob.app.client.pm
    - ob.app.client.pricing
    - ob.app.client.sh
    - ob.app.host.cz
    - ob.app.host.fw
    - ob.app.host.pricing
    - ob.app.host.tp
    - ob.app.host.tp.cz

- Ears
  - com.ofss.fc.app.connector
  - com.ofss.fc.app.monitoring
  - com.ofss.fc.messaging.pricing
  - com.ofss.fc.middleware.pricing
  - com.ofss.fc.webservices.pricing

OBEPM Server deployments

- Shared libraries
  - ob.app.client.communications
  - ob.app.client.cz
  - ob.app.client.fw
  - ob.app.client.lcm
  - ob.app.client.party
  - ob.app.client.pm
  - ob.app.client.pricing
  - ob.app.client.sh
  - ob.app.host.communications
  - ob.app.host.cz
  - ob.app.host.fw
  - ob.app.host.lcm
  - ob.app.host.pm
  - ob.app.host.sh
  - ob.app.host.tp
  - ob.app.host.tp.cz
- Ears
  - com.ofss.fc.app.connector
  - com.ofss.fc.app.monitoring
  - com.ofss.fc.messaging.pm
  - com.ofss.fc.middleware.pm
  - com.ofss.fc.webservices.pm

OBEO Server deployments

- Shared libraries
  - ob.app.client.coll
  - ob.app.client.communications
  - ob.app.client.cz
  - ob.app.client.deposit
  - ob.app.client.fw
  - ob.app.client.lcm
  - ob.app.client.lending
  - ob.app.client.indirectlending
  - ob.app.client.or
  - ob.app.client.party
  - ob.app.client.pm
  - ob.app.client.pricing
  - ob.app.client.sh
  - ob.app.host.communications
  - ob.app.host.cz
  - ob.app.host.fw
  - ob.app.host.or
  - ob.app.host.sh
  - ob.app.host.tp
  - ob.app.host.tp.cz
  - ob.app.integration
- Ears
  - com.ofss.fc.app.connector
  - com.ofss.fc.app.monitoring
  - com.ofss.fc.messaging.or
  - com.ofss.fc.middleware.or
  - com.ofss.fc.webservices.or

OBPM Server deployments

- Shared libraries
  - ob.app.client.coll
  - ob.app.client.communications
  - ob.app.client.cz

- ob.app.client.deposit
- ob.app.client.fw
- ob.app.client.indirectlending
- ob.app.client.lcm
- ob.app.client.lending
- ob.app.client.or
- ob.app.client.party
- ob.app.client.pm
- ob.app.client.pricing
- ob.app.client.sh
- ob.app.host.cz
- ob.app.host.fw
- ob.app.host.communications
- ob.app.host.party
- ob.app.host.sh
- ob.app.host.tp
- ob.app.host.tp.cz
- ob.app.integration

- Ears
  - com.ofss.fc.app.connector
  - com.ofss.fc.app.monitoring
  - com.ofss.fc.messaging.party
  - com.ofss.fc.middleware.party
  - com.ofss.fc.webservices.party

OBCCM Server deployments

- Shared libraries
  - ob.app.client.coll
  - ob.app.client.communications
  - ob.app.client.cz
  - ob.app.client.deposit
  - ob.app.client.fw
  - ob.app.client.lcm
  - ob.app.client.indirectlending

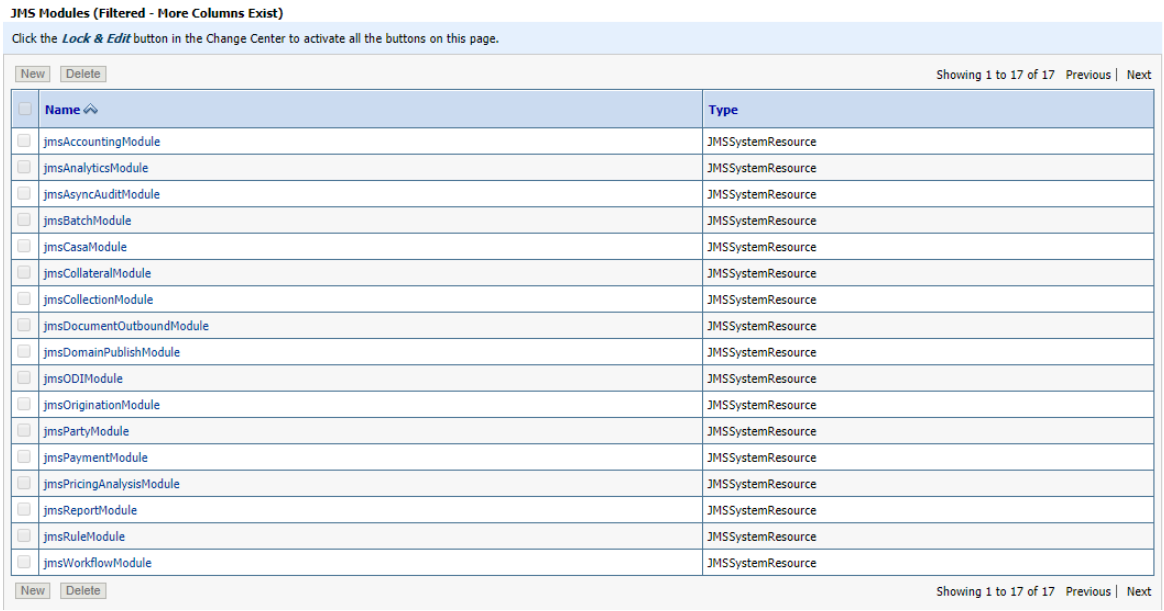
- ob.app.client.lending
- ob.app.client.or
- ob.app.client.party
- ob.app.client.pm
- ob.app.client.pricing
- ob.app.client.sh
- ob.app.host.communications
- ob.app.host.cz
- ob.app.host.fw
- ob.app.host.lcm
- ob.app.host.sh
- ob.app.host.tp
- ob.app.host.tp.cz

■ Ears

- com.ofss.fc.app.connector
- com.ofss.fc.app.monitoring
- com.ofss.fc.messaging.lcm
- com.ofss.fc.middleware.lcm
- com.ofss.fc.webservices.lcm

JMS Modules

JMS Modules for all XD host servers.



JMS Modules (Filtered - More Columns Exist)

Click the ***Lock & Edit*** button in the Change Center to activate all the buttons on this page.

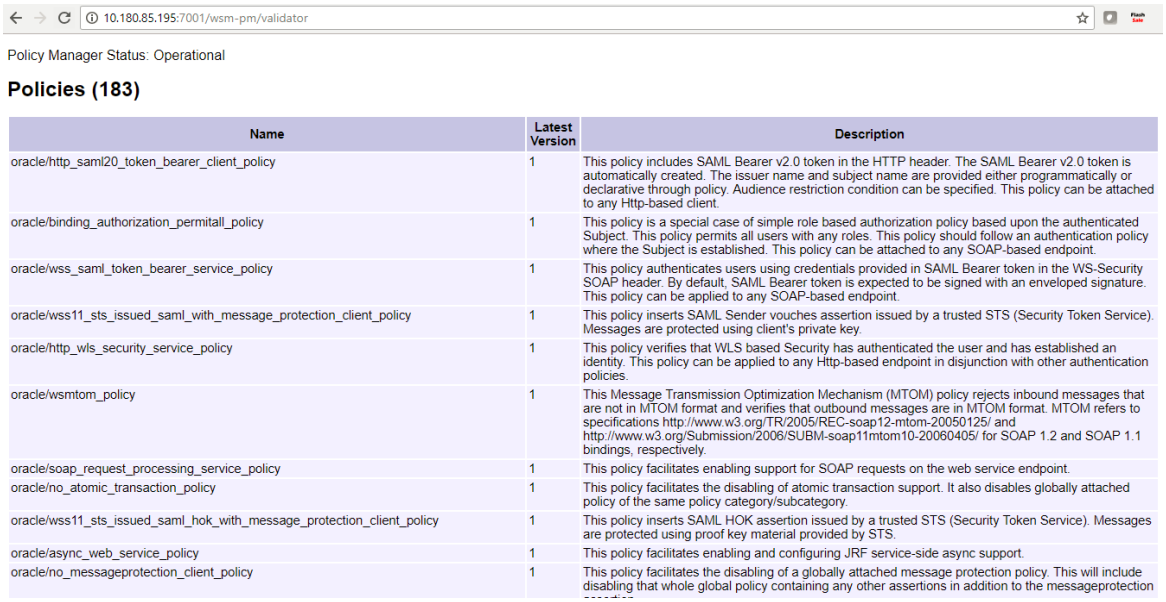
New | Delete — Showing 1 to 17 of 17 Previous | Next

Name	Type
jmsAccountingModule	JMSSystemResource
jmsAnalyticsModule	JMSSystemResource
jmsAsyncAuditModule	JMSSystemResource
jmsBatchModule	JMSSystemResource
jmsCasaModule	JMSSystemResource
jmsCollateralModule	JMSSystemResource
jmsCollectionModule	JMSSystemResource
jmsDocumentOutboundModule	JMSSystemResource
jmsDomainPublishModule	JMSSystemResource
jmsODIModule	JMSSystemResource
jmsOriginationModule	JMSSystemResource
jmsPartyModule	JMSSystemResource
jmsPaymentModule	JMSSystemResource
jmsPricingAnalysisModule	JMSSystemResource
jmsReportModule	JMSSystemResource
jmsRuleModule	JMSSystemResource
jmsWorkflowModule	JMSSystemResource

New | Delete — Showing 1 to 17 of 17 Previous | Next

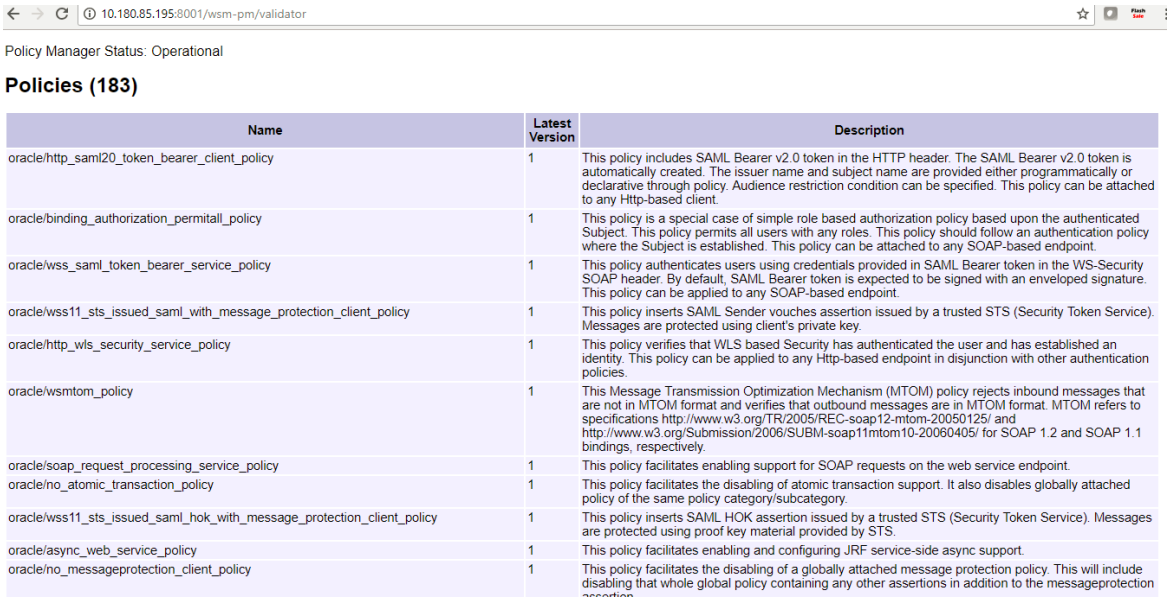
4. In (<HOST_IP>:<HOST_ADMIN_PORT>/wsm-pm/validator) and (<HOST_IP>:<HOST_ MANAGED_PORT>/ wsm-pm/validator) screens, all policies must appear.

Figure 13–4 HOST admin wsm-pm validator



Name	Latest Version	Description
oracle/http_saml20_token_bearer_client_policy	1	This policy includes SAML Bearer v2.0 token in the HTTP header. The SAML Bearer v2.0 token is automatically created. The issuer name and subject name are provided either programmatically or declarative through policy. Audience restriction condition can be specified. This policy can be attached to any Http-based client.
oracle/binding_authorization_permitall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy permits all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/wss_saml_token_bearer_service_policy	1	This policy authenticates users using credentials provided in SAML Bearer token in the WS-Security SOAP header. By default, SAML Bearer token is expected to be signed with an enveloped signature. This policy can be applied to any SOAP-based endpoint.
oracle/wss11_sts_issued_saml_with_message_protection_client_policy	1	This policy inserts SAML Sender vouches assertion issued by a trusted STS (Security Token Service). Messages are protected using client's private key.
oracle/http_wls_security_service_policy	1	This policy verifies that WLS based Security has authenticated the user and has established an identity. This policy can be applied to any Http-based endpoint in disjunction with other authentication policies.
oracle/wsmtom_policy	1	This Message Transmission Optimization Mechanism (MTOM) policy rejects inbound messages that are not in MTOM format and verifies that outbound messages are in MTOM format. MTOM refers to specifications http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/ and http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/ for SOAP 1.2 and SOAP 1.1 bindings, respectively.
oracle/soap_request_processing_service_policy	1	This policy facilitates enabling support for SOAP requests on the web service endpoint.
oracle/no_atomic_transaction_policy	1	This policy facilitates the disabling of atomic transaction support. It also disables globally attached policy of the same policy category/subcategory.
oracle/wss11_sts_issued_saml_hok_with_message_protection_client_policy	1	This policy inserts SAML HOK assertion issued by a trusted STS (Security Token Service). Messages are protected using proof key material provided by STS.
oracle/async_web_service_policy	1	This policy facilitates enabling and configuring JRF service-side async support.
oracle/no_messageprotection_client_policy	1	This policy facilitates the disabling of a globally attached message protection policy. This will include disabling that whole global policy containing any other assertions in addition to the messageprotection

Figure 13–5 HOST managed wsm-pm validator



Name	Latest Version	Description
oracle/http_saml20_token_bearer_client_policy	1	This policy includes SAML Bearer v2.0 token in the HTTP header. The SAML Bearer v2.0 token is automatically created. The issuer name and subject name are provided either programmatically or declarative through policy. Audience restriction condition can be specified. This policy can be attached to any Http-based client.
oracle/binding_authorization_permitall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy permits all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/wss_saml_token_bearer_service_policy	1	This policy authenticates users using credentials provided in SAML Bearer token in the WS-Security SOAP header. By default, SAML Bearer token is expected to be signed with an enveloped signature. This policy can be applied to any SOAP-based endpoint.
oracle/wss11_sts_issued_saml_with_message_protection_client_policy	1	This policy inserts SAML Sender vouches assertion issued by a trusted STS (Security Token Service). Messages are protected using client's private key.
oracle/http_wls_security_service_policy	1	This policy verifies that WLS based Security has authenticated the user and has established an identity. This policy can be applied to any Http-based endpoint in disjunction with other authentication policies.
oracle/wsmtom_policy	1	This Message Transmission Optimization Mechanism (MTOM) policy rejects inbound messages that are not in MTOM format and verifies that outbound messages are in MTOM format. MTOM refers to specifications http://www.w3.org/TR/2005/REC-soap12-mtom-20050125/ and http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/ for SOAP 1.2 and SOAP 1.1 bindings, respectively.
oracle/soap_request_processing_service_policy	1	This policy facilitates enabling support for SOAP requests on the web service endpoint.
oracle/no_atomic_transaction_policy	1	This policy facilitates the disabling of atomic transaction support. It also disables globally attached policy of the same policy category/subcategory.
oracle/wss11_sts_issued_saml_hok_with_message_protection_client_policy	1	This policy inserts SAML HOK assertion issued by a trusted STS (Security Token Service). Messages are protected using proof key material provided by STS.
oracle/async_web_service_policy	1	This policy facilitates enabling and configuring JRF service-side async support.
oracle/no_messageprotection_client_policy	1	This policy facilitates the disabling of a globally attached message protection policy. This will include disabling that whole global policy containing any other assertions in addition to the messageprotection

Additionally, the installer can verify the following:

- **JMS Resources and Security Credentials**
  - Verify the creation of JMS resources Using admin console.
  - Verify security credential mappings for resource adapter under obphost.

- **OID Integration**
  - Verify that the users and groups are created under **Security -->Myrealms --> Users And Groups**. This is one of the indicators of successful OID integration.
- **SMS Policy Seeding**
  - Verify from logs under ${HOST_FWM}/obpoidinstall/PolicyStoreSetup/logs to ensure policy seeding was complete.
  - EM and OWSM should also be verified in host as in UI.

13.3 SOA Domain Verification

To verify the SOA domain installation:

1. Start the SOA domain Admin and Managed servers (SOA and human task).
2. Navigate to the **Summary of Deployments** page.
3. Verify that the **Status** of the following OBEO libraries and human task files with .ear extension is *Active*.
   - Shared Libraries
     - ob.app.client.coll
     - ob.app.client.communications
     - ob.app.client.cz
     - ob.app.client.deposit
     - ob.app.client.fw
     - ob.app.client.lcm
     - ob.app.client.lending
     - ob.app.client.or
     - ob.app.client.party
     - ob.app.client.pm
     - ob.app.client.pricing
     - ob.app.client.sh
     - ob.ui.coll
     - ob.ui.communications
     - ob.ui.cz
     - ob.ui.deposit
     - ob.ui.fusion
     - ob.ui.lcm
     - ob.ui.lending
     - ob.ui.or

- ob.ui.party
- ob.ui.pm
- ob.ui.pricing
- ob.ui.sh
- ob.ui.tp
- ob.ui.tp.cz

- Ears
  - com.ofss.fc.app.ui.connector
  - com.ofss.fc.ui.view.mds
  - com.ofss.fc.workflow.ui.batchexceptionrecovery
  - com.ofss.fc.workflow.ui.brop
  - com.ofss.fc.workflow.ui.CapturePartyFinancialsHumanTask
  - com.ofss.fc.workflow.ui.common.approval
  - com.ofss.fc.workflow.ui.FeeNegotiationApprovalTask
  - com.ofss.fc.workflow.ui.hardshiprelief
  - com.ofss.fc.workflow.ui.lcm.PerformManualAllocationUITask
  - com.ofss.fc.workflow.ui.lcm.valuation
  - com.ofss.fc.workflow.ui.origination
  - com.ofss.fc.workflow.ui.PartyMerge
  - com.ofss.fc.workflow.ui.ProcessLoanRolloverHumanTask

4. Also verify that the standard SOA application soa-infra is in *Active* state.

13.4 BAM Installation Verification

To verify the BAM installation:

1. Bring up the Admin and Managed servers (bam_server1).
2. Go to the BAM Login Page Link: http: //<BAM_IP>:9003/bam/composer/faces/designer

Figure 13–6 BAM Composer

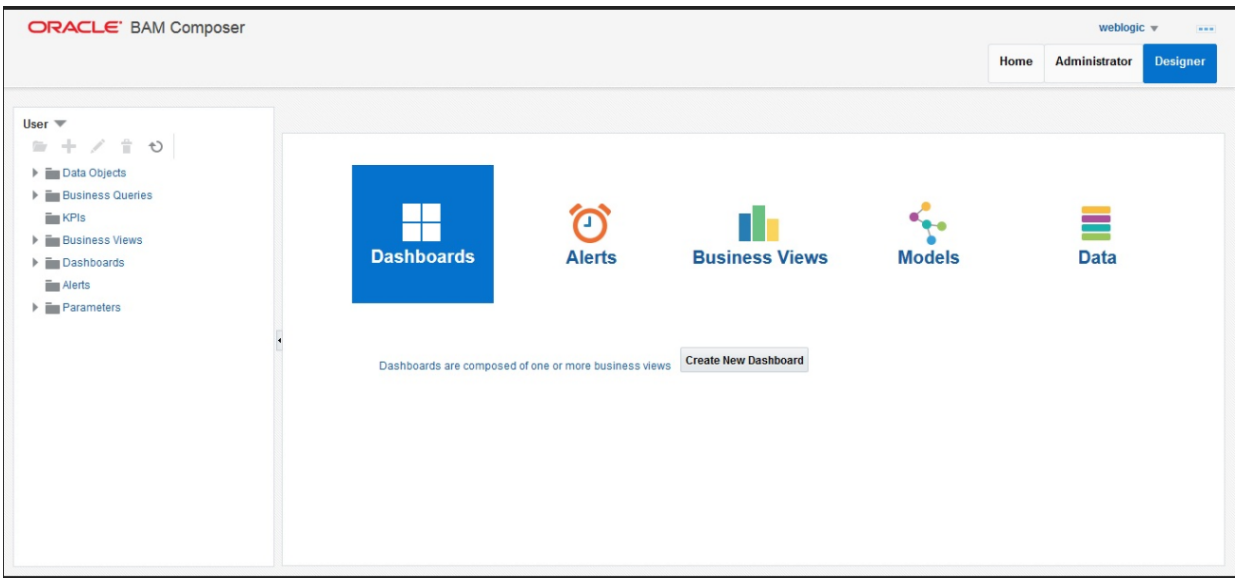


Figure 13–7 BAM Composer

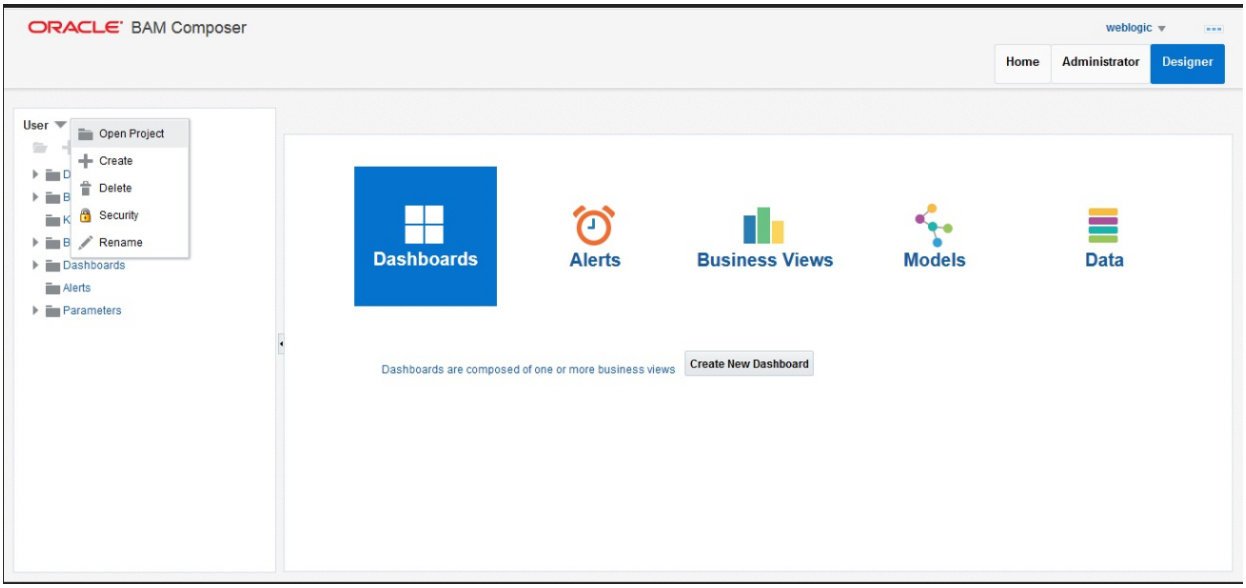
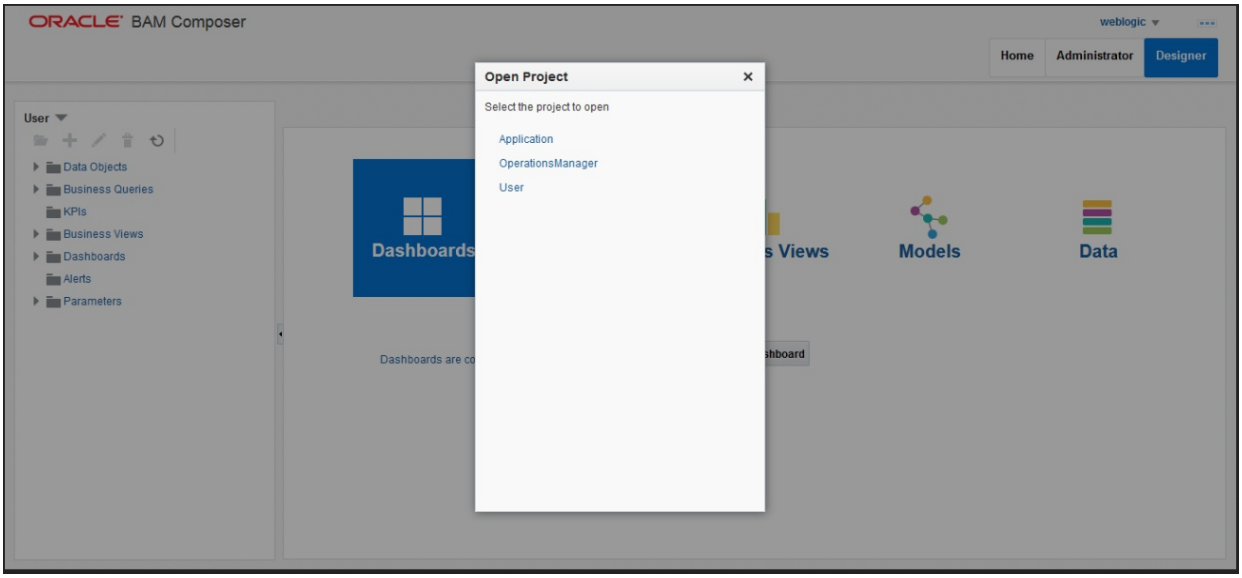


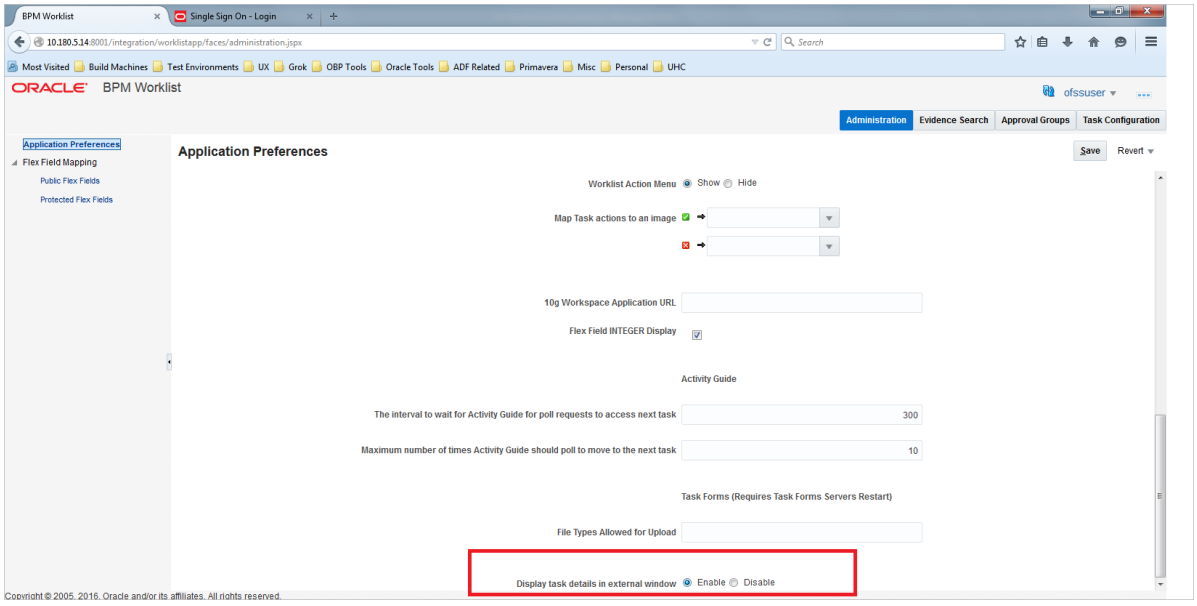
Figure 13–8 BAM Composer



13.5 BPM Worklist Window Setting

For BPM Worklist window setting, the option **Display task details in external window** must be set to enable mode. This option is present in administration mode of BPM Worklist as shown in Figure 13–9.

Figure 13–9 BPM Worklist Window Settings



14 Errors and Remedies

This chapter provides information on troubleshooting to help diagnose and remedy some of the problems encountered during installation of the Oracle Banking Enterprise Originations.

14.1 OBEO Domain Installation

In general, any environmental condition such as a network error that may lead to a halt in the installation is evident to you on the console itself. You can additionally inspect WLST logs created in logs directory under middleware for any anomalies.

While creating OBEO SOA domain, ignore the following error:

Error: No domain or domain template has been read.

Error: No domain or domain template has been read.

Figure 14–1 SOA Domain Error

The domain is created successfully. Also note that for recreation of SOA, Host, and UI domain, a new set of RCUs is required, otherwise the pre-installation of respective component fails.

14.2 OBEO Security Policy Seeding

For monitoring Oracle Banking Enterprise Originations application security policy seeding, you can check the logs generated in $HOST_FMW/obpoidinstall/PolicyStoreSetup/logs.

14.3 OBEO Domain Post Installation

This section lists various log files that assist in troubleshooting domain post installation as follows:

obp-* logs

During post installation in order to monitor errors, if any, you can check the obp-* logs created in the OBEO WebLogic domain. These logs contain adequate tracing information required to understand the current execution point of the script. This facilitates to determine the various configurations that were executed and those that need due action.

WebLogic Admin Server Logs and stderr file

The script does domain level configurations that require several automated reboots of admin server, which can be monitored by checking the WebLogic admin server logs and stderr file created under obp-domain-dir/servers/AdminServer/stderr.log.

For instance, consider a scenario of OBEO Host installation in which once the post install script for OBEO host has secured itself against a LDAP (OID/OVD) it proceeds to restart the OBEO Host domain admin server to produce these changes. During this if due to a momentary network failure the host machine is unable to make a connection to LDAP then the admin server would fail to start. This will result in the post install script to abruptly abort throwing a subsequent script error (again which might not conclusive enough to point out the root cause). The 'obp-*' logs created in the OBEO Host domain would indicate an incomplete attempt by post install script to start the admin server.

You can check the admin server logs (to find why the admin server could not start) which will ultimately yield out the actual reasons (in this case the reason being host machine was unable to connect to LDAP).

stderr log, WebLogic Domain Managed Server logs, OFSS logs

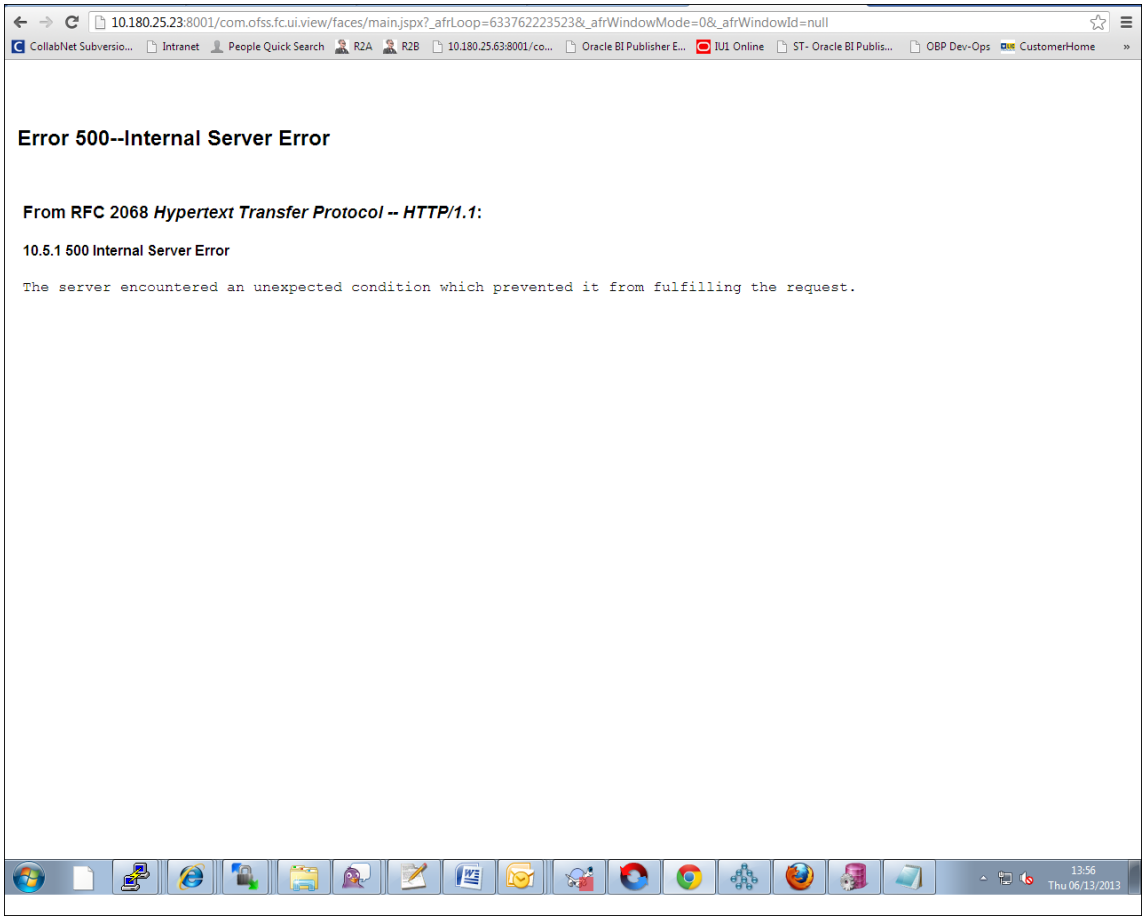
Once the post install script is completed successfully, you can start the domain servers and enter a dummy transaction to check the system correctness. If you face an error you can inspect the stderr log, the WebLogic domain managed server logs as well as the ofss logs under domain directory.

When you start the managed servers post installation, there may occur a lot of error printing in startup logs that you can ignore. However, ensure that the status of the applications deployed on the components is active and the server is in running mode. Even if there are errors during startup of the managed server, you can login to the application successfully.

14.4 Error on First Log in

In the first log in after installation, the following page may appear or blank page may appear:

Figure 14–2 Error on First Log In



In this case, remove the part of the url after '/main.jspx', and then hit the rest of the url (Example: https://10.180.25.23:8001/com.ofss.fc.ui.view/faces/main.jspx) again.

14.5 Log in Issues

If there is a problem during logging in the main page, you can check whether the home branch and business unit of the user in OID are the same with the Host DB table. Use the following query to verify it in database:

```
select * from flx_cs_branches_b;
select * from flx_me_business_unit_b;
```

If there is mismatch between the database and OID, make change in OID to match with the database.

14.6 SOA Setup in Cluster

This section explains the error that can be encountered in SOA setup in Cluster, and its resolution.

14.6.1 "COMPONENTTYPE": invalid identifier error

Due to one of the one-off patches for SOA applied during the OBEO installation, in SOA cluster environment, the following error might be seen in SOA server logs.

```
Internal Exception: java.sql.SQLSyntaxErrorException: ORA-00904:
```

```
"COMPONENTTYPE": invalid identifier
```

Though this is not a fatal kind of exception, it can be resolved by adding one more column **componenttype** of size **10** with **char** type in **soainfra** schema for table **cluster_master**.

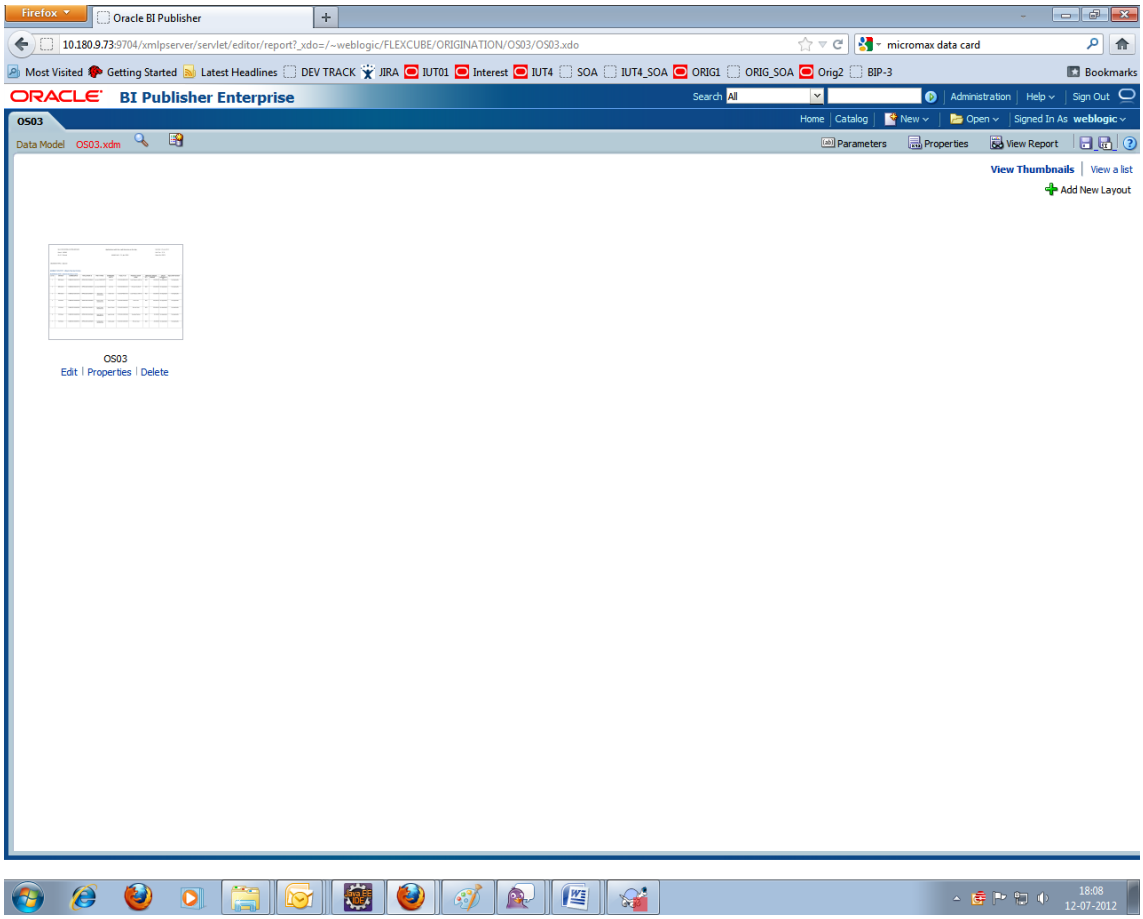
For example on Oracle database user needs to run the following command on soainfra schema:

```
alter table cluster_master add (componenttype varchar2(10));
```

14.7 BIP Report Data Model Linkage Problem after Host Post Installation Step

After editing a report, click the magnifying glass icon to select the data model associated with this report. (Here OS03.xdm in red indicates that the data model is not properly connected with the report or that the report is not able to find the model at the location that it is referring)

Figure 14–3 Selecting the Data model



Note

The above step is to be carried out in case the data model of a report has not correctly linked with a report, after reports are deployed in BIP server in Host Post Installation step.

14.8 Oracle BAM Command Utility Issue

This is not an issue. This occurs if Oracle BAM is installed for the second time on the same machine.

The following message appears:

Oracle BAM Command Utility [Build 19427, BAM Repository Version 2025] Copyright © 2002, 2015.

Oracle and/or its affiliates. All rights reserved.

java.lang.SecurityException: User: weblogic, failed to be authenticated.

[ErrorSource="javax.security.auth.login.LoginException: java.lang.SecurityException: User: weblogic, failed to be authenticated."]

The solution or pre-requisite before a second installation is to alter the following file:

<MIDDLEWARE_HOME>/soa/bam/config/BAMICommandConfig.xml

In this file, remove the following tags:

```
<ICommand_Default_User_Name>weblogic</ICommand_Default_User_Name>
<ICommand_Default_
Password>HkFBFDf0t65Kuw9/I70cnwXPYIXKz/OElhl0ID+qjdw=</ICommand_
Default_Password>
```

14.9 BPM Worklist Task Issue

If the BPM Task (human task) is not working after installation and you get a backend error indicating access denied, then:

1. Add the following parameters in setStartupEnv.sh for obphumantask_server1.

   -Djavax.xml.parsers.DocumentBuilderFactory=com.sun.org.apache.xerces.internal.jaxp.DocumentBuilderFactoryImp

   l -Djavax.xml.transform.TransformerFactory=com.sun.org.apache.xalan.internal.xsltc.trax.TransformerFactoryImpl

   -Djavax.xml.parsers.SAXParserFactory=com.sun.org.apache.xerces.internal.jaxp.SAXParserFactoryImpl

   And jps-config.xml

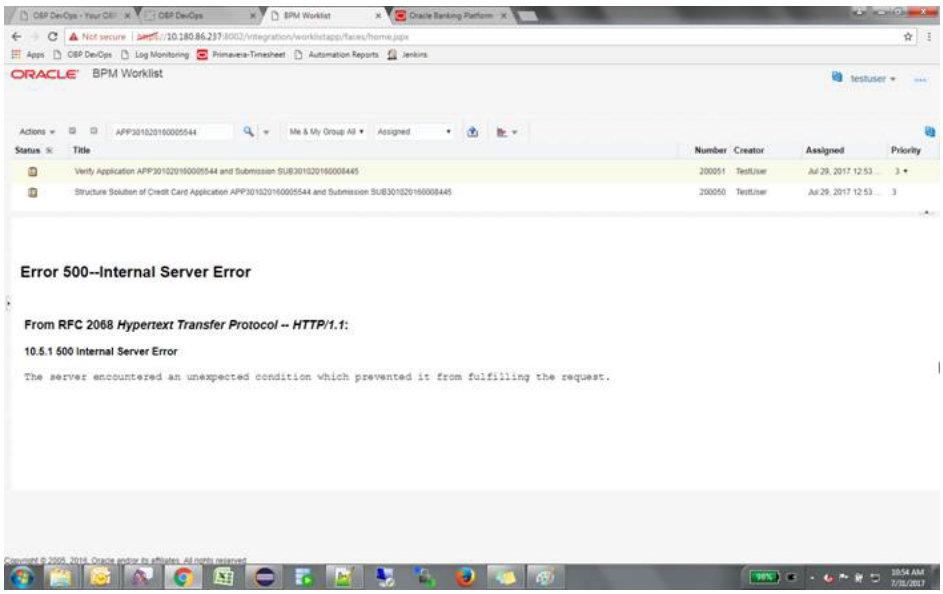
   <property name="trust.keystoreType" value="KSS"/>

   <property name="trust.keyStoreName" value="kss://opss/trustservice_ks"/>

   <property name="trust.trustStoreName" value="kss://opss/trustservice_ts"/>

2. Restart it.

Figure 14–4 BPM Worklist Task issue



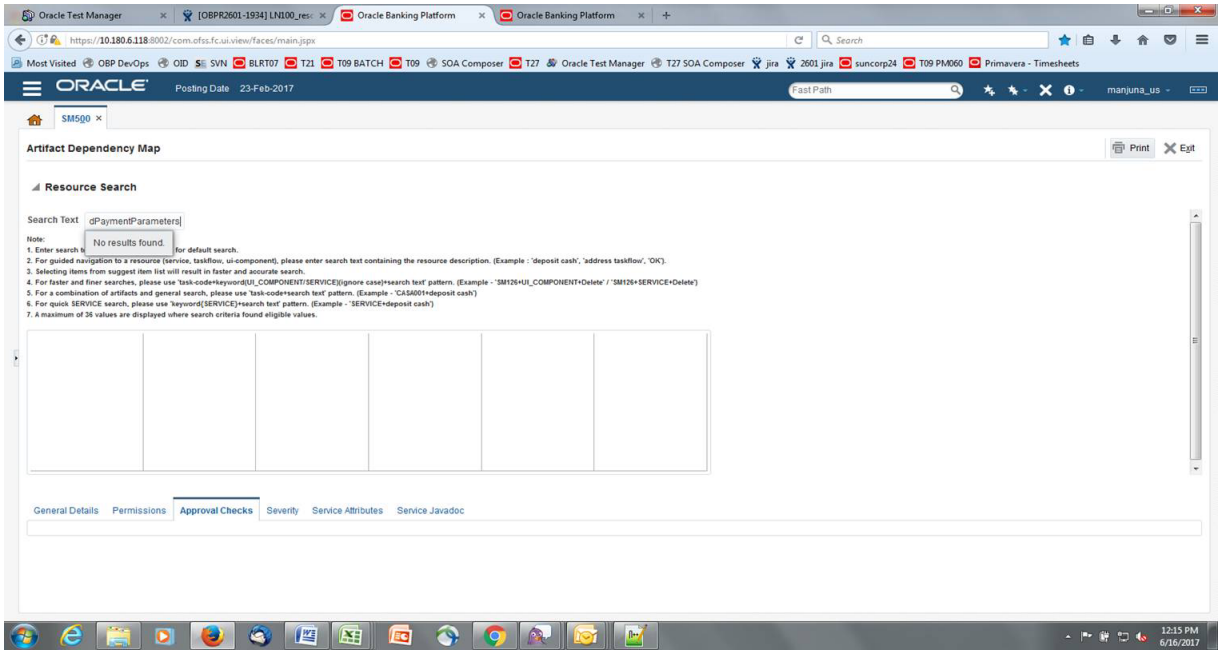
14.10 Artifacts Issue for SM500 page

If artifacts are not available for SM500, execute the load-artifacts.sh script present at the host installable path.

For example,

sh /scratch/install/ load-artifacts.sh

Figure 14–5 Artifacts Issue for SM500 page



14.11 ra/FCRJConnectorSOA connector issue

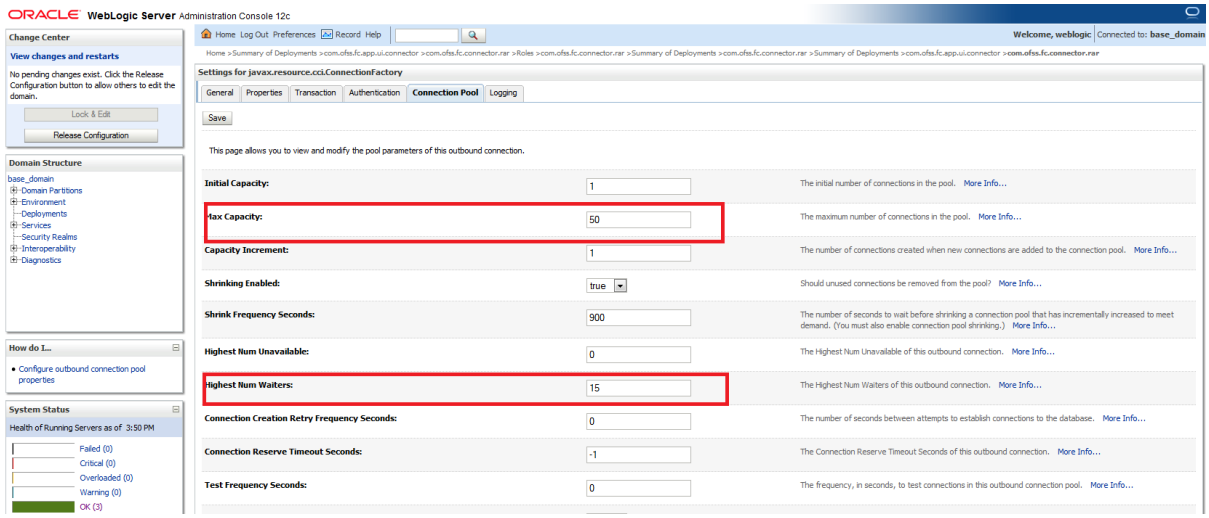
If below mentioned error is faced on Humantask server, configuration shown in the below figure has to be done to resolve issue.

Caused By: javax.resource.spi.ApplicationServerInternalException: Unable to get a connection for pool = "ra/FCRJConnectorSOA", weblogic.common.resourcepool.ResourceUnavailableException: No resources currently available in pool ra/FCRJConnectorSOA to allocate to applications. Either specify a time period to wait for resources to become available, or increase the size of the pool and retry.

at weblogic.connector.outbound.ConnectionManagerImpl.getConnectionInfo (ConnectionManagerImpl.java:458)

Set the Max Capacity size to 50 and Highest Num Waiters to 15 as shown in the below figure and redeploy the connector on Humantask server.

Figure 14–6 Settings for javax.resource.cci.ConnectionFactory page



14.12 Humantask Startup Issue

If Humantask server is not coming up in running mode after installation and if you face below mentioned error,

<Nov 21, 2017, 7:40:52,638 PM GMT+05:30> <Error> <Socket> <BEA-000403> <IOException occurred on socket: Socket[addr=/10.180.35.5,port=57761,localport=7001]

weblogic.socket.MaxMessageSizeExceededException: Incoming message of size: '10000080' bytes exceeds the configured maximum of: '10000000' bytes for protocol: 't3'.

weblogic.socket.MaxMessageSizeExceededException: Incoming message of size: '10000080' bytes exceeds the configured maximum of: '10000000' bytes for protocol: 't3'

at weblogic.socket.BaseAbstractMuxableSocket.incrementBufferOffset (BaseAbstractMuxableSocket.java:212)

at weblogic.socket.BaseAbstractMuxableSocket.incrementBufferOffset (BaseAbstractMuxableSocket.java:188)

at weblogic.rjvm.t3.MuxableSocketT3.incrementBufferOffset(MuxableSocketT3.java:675)

at weblogic.socket.SocketMuxer.readFromSocket(SocketMuxer.java:1004)

at weblogic.socket.NIOSocketMuxer.readFromSocket(NIOSocketMuxer.java:771)

Truncated. see log file for complete stacktrace

>

Update the setDomainEnv.sh configuration file by setting MaxMessageSize for server as,

EXTRA_JAVA_PROPERTIES="${EXTRA_JAVA_PROPERTIES} -
Dweblogic.MaxMessageSize=50000000"

export EXTRA_JAVA_PROPERTIES

14.13 Collection Mocking

By default collection is enabled in enterprise application. For mocking collection, perform the following steps:

1. Execute the following SQL queries in application database:

   ```
   update flx_fw_config_all_b set prop_value='false' where prop_
   id='collection.bootstrap' and category_id='root';
   ```

   ```
   update flx_fw_config_all_b set prop_value='false' where prop_
   id='collection.webservice.bootstrap' and category_id='root';
   ```

2. Update the setDomainEnv.sh configuration file on HOST server with the following parameters:

   EXTRA_JAVA_PROPERTIES="${EXTRA_JAVA_PROPERTIES} -

   DAdapterFactories:INS_COLLECTION_ADAPTER_MOCKED=true -

   DAdapterFactories:PARTY_COLLECTION_ADAPTER_MOCKED=true -

   DAdapterFactories:LN_COLLECTION_ADAPTER_MOCKED=true -

   DAdapterFactories:LCM_COLLECTION_ADAPTER_MOCKED=true -

   DAdapterFactories:ACCOUNT_COLLECTION_ADAPTER_MOCKED=true -

   DAdapterFactories:DDA_COLLECTION_ADAPTER_MOCKED=true -

   DAdapterFactories:AC_COLLECTION_ADAPTER_MOCKED=true -

   DAdapterFactories:CS_COLLECTION_ADAPTER_MOCKED=true"

   export EXTRA_JAVA_PROPERTIES

3. Restart the HOST managed server.

14.14 DDA, Party and LOAN Mocking for OBEO installer

For DDA, Party and LOAN Mocking, perform the following steps:

1. Update the setDomainEnv.sh configuration file on HOST server with the following parameters:

   EXTRA_JAVA_PROPERTIES="${EXTRA_JAVA_PROPERTIES} -

   DAdapterFactories:ACCOUNT_DDA_MOCKED=true -

   DAdapterFactories:ACCOUNT_LOAN_MOCKED=true -

   DAdapterFactories:PARTY_ENTITLEMENT_ADPT_MOCKED=true "

export EXTRA_JAVA_PROPERTIES

2. Restart the HOST managed server.

15 Uninstalling the Application

This chapter explains the process of uninstalling the Oracle Banking Enterprise Originations.

15.1 Manual Uninstall

Currently an installed OBEO WebLogic domain can be uninstalled manually by removing following directories:

- Manually delete WebLogic domain (Middleware_Home/user_projects/domains) created from obpinstall template.
- Clean up middleware directory for any files or folders containing obp in their names (simply run rm –rf *obp* under middleware directory).
- For uninstalling any of the Oracle Banking Enterprise Originations related database schemas run the RCU utility and choose the **Drop** option.