

Prerequisites for Oracle FLEXCUBE Installer  
Oracle FLEXCUBE Investor Servicing  
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## Table of Contents

<b>1.</b>	<b>PREREQUISITES FOR ORACLE FLEXCUBE INSTALLER .....</b>	<b>1</b>
1.1	ENVIRONMENT SETUP.....	1
1.2	OPERATING SYSTEM SUPPORTED FOR DATABASE .....	1
1.3	OPERATING SYSTEM PREREQUISITE FOR DATABASE SETUP .....	1
1.3.1	<i>Sun Solaris Kernel Parameters.....</i>	<i>1</i>
1.3.2	<i>IBM AIX Kernel Parameters.....</i>	<i>2</i>
1.3.3	<i>HP UNIX Kernel Parameters .....</i>	<i>2</i>
1.3.4	<i>Linux Kernel Parameters .....</i>	<i>3</i>
1.4	DATABASE SETUP.....	4
1.5	APPLICATION SERVERS.....	4
1.5.1	<i>Third-Party Applications .....</i>	<i>4</i>
1.6	CLIENT BROWSERS SETTINGS.....	6
1.7	INSTALLER INSTALLATION PRE-REQUISITES .....	6

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# 1. Prerequisites for Oracle FLEXCUBE Installer

## 1.1 Environment Setup

This section helps you to configure various Operating system parameters and the setting to be prepared before Starting the Oracle FLEXCUBE installation. This chapter explains the various configurations that are required to be performed at OS and Application or DB serve level.

## 1.2 Operating System Supported for Database

FLEXCUBE is supported on following operating systems:

Component
HP Unix
IBM AIX
Sun Solaris
LINUX
Windows

## 1.3 Operating System Prerequisite for Database Setup

Following are the main kernel and database initialization parameters that you need to setup as part of the environment.

### 1.3.1 Sun Solaris Kernel Parameters

Kernel Parameter	Suggested Starting Value	Description
SHMMAX	4294967295 or 70% of physical memory (whichever is larger)	Maximum size of a single shared memory segment
SHMMIN	1	Minimum size of a single shared memory segment
SHMMNI	100	Maximum number of shared memory segments in entire system
SHMSEG	10	Maximum number of shared memory

Kernel Parameter	Suggested Starting Value	Description
		segments one process can attach
SEMMNS	2000	Maximum number of semaphores in entire system
SEMMSL	1000	Maximum number of semaphores per set
SEMMNI	100	Maximum number of semaphore sets in entire system
Swap Space	Twice the physical memory present	
Patches	Verify as per Oracle's platform specific release notes	

### 1.3.2 **IBM AIX Kernel Parameters**

Unlike other UNIX platforms, AIX does not have the ability to directly configure Kernel parameters. Instead, the AIX Kernel dynamically allocates and reallocates resources as they are needed, up to a predefined limit, making the traditional practice of tuning parameters unnecessary. The only tuneable Kernel parameter is 'maxuprc' (maximum number of processes per user ID) which can be modified via SMIT (AIX's menu-based system administration utility) or the command line utility.

Swap Space	Twice the Physical memory present
Patches	Verify as per Oracle's platform specific release notes

### 1.3.3 **HP UNIX Kernel Parameters**

Kernel Parameter	Suggested Starting Value	Description
aio_max_ops	2048	Maximum number of queued AIO ops
dbc_min_pct	2	Minimum percentage of system memory used for buffer cache
dbc_max_pct	ensure <= 128MB	Maximum percentage of system memory used for buffer cache
Fsync	0	Asynchronous i/o on file systems
max_async_ports	1024	Maximum ports for asynchronous I/O operations
maxdsiz64	1Gb	Shadow process heap size
Maxfiles	512	Soft limit number of open files per process

maxfiles_limit	1024	Hard limit number of open files per process
Maxusers	no of Oracle connections+64	Influences nproc, nfile, ninode and maxuprc
Maxuprc	maxusers*5	Number of processes per user ID
nfile	use SAM formula	Open files system wide
Nflocks	$\geq (200 + (\text{sum of db files}))$	File locks system wide
Nproc	use SAM formula	Processes system wide
Shmmax	4294967295	Maximum size of a single shared memory segment
Swap Space	Twice the physical memory present	
Patches	Verify as per Oracle's platform specific release notes	

### 1.3.4 Linux Kernel Parameters

Kernel Parameters	Recommended Value	Description
nproc (Soft)	2047	Shell Limits (/etc/security/limits.conf)
nproc (Hard)	16384	Shell Limits (/etc/security/limits.conf)
nfile (Soft)	1024	Shell Limits (/etc/security/limits.conf)
nfile (hard)	65536	Shell Limits (/etc/security/limits.conf)
fs.file-max	6815744	Kernel Parameter (/etc/sysctl.conf )
kernel.shmall	2097152	Kernel Parameter (/etc/sysctl.conf )
kernel.shmmax	2147483648	Kernel Parameter (/etc/sysctl.conf )
kernel.shmmni	4096	Kernel Parameter (/etc/sysctl.conf )
kernel.sem	250 32000 100 128	Kernel Parameter (/etc/sysctl.conf )
net.ipv4.ip_local_port_range	9000 65500	Kernel Parameter (/etc/sysctl.conf )
net.core.rmem_default	262144	Kernel Parameter (/etc/sysctl.conf )
net.core.rmem_max	4194304	Kernel Parameter (/etc/sysctl.conf )
net.core.wmem_default	262144	Kernel Parameter (/etc/sysctl.conf )

Kernel Parameters	Recommended Value	Description
net.core.wmem_max	1048576	Kernel Parameter (/etc/sysctl.conf )
SWAP Space RAM Between 1 GB and 2 GB Between 2 GB and 16 GB More than 16 GB	1.5 times the size of RAM Equal to the size of RAM 16Gb	SWAP space requirement
Patches	Verify as per Oracle's platform specific release notes	<a href="http://support.oracle.com/">http://support.oracle.com/</a>

## 1.4 Database Setup

For Database recommendations please refer the 1-7 section of [FCIS Database Practices](#) document.

## 1.5 Application Servers

Oracle FLEXCUBE is supported on the following Application servers

Component
Weblogic
WebSphere

Application server needs to be configured to user JDK1.7.

Component	Required for	Installation Details
JDK1.7	Oracle FLEXCUBE Installation	Download JDK and set it as the environmental variable JAVA_HOME and append PATH with {JAVA_HOME}\bin

For weblogic server recommendations refer the Document at [Weblogic Recommendations](#) and for websphere refer the document at [WebSphere Recommendations](#).

### 1.5.1 Third-Party Applications

This section explains the steps which has to be followed before the actual installation of Oracle FLEXCUBE Application, the following steps have to followed for setting up additional applications using installer.

Refer the 'Prerequisite' chapter of [Security Guide](#) user manual for further information on enforcing security for web.



For installing any third-party or pre-requests list is provided for generic information however for

detailed steps refer vendor install page.	
<b>Oracle BPEL</b>	This section explains the instructions for <a href="#">setting up BPEL</a> and it also explains the steps for integrating with various external enterprise solutions.
<b>Oracle IPM</b>	This section describes the steps for <a href="#">configuring Oracle IPM</a> .
<b>Oracle Web Service Manager</b>	This section describes the steps for configuring <a href="#">Oracle web service manager</a> . It explains about a policy framework to manage and secure Web services consistently across organization.
<b>Oracle Service Bus</b>	This section explains the detailed instructions for configuring <a href="#">Oracle Service Bus</a> (OSB) - An enterprise-class service bus that connects, manages, and mediates interactions between heterogeneous services are mentioned in the link.
<b>BIP Web Service Reports</b>	This section explains the instructions for setting up <a href="#">BIPWebService Reports</a> . It explains the process of setting up BIP Web Services Reports Server, deploying of reports , Creating Roles and Users in Oracle BI Publisher and setting up Server for Web Service Based BIP Reports.
<b>OBIEE Application</b>	This section explains the detailed guidelines for <a href="#">OBIEE Metadata Repository Deployment</a> . This explain the prerequisites required and also explains the steps for deploying in OBIEE10g and OBIEE 11g.
<b>Oracle Access Manager and LDAP</b>	FLEXCUBE supports single sign-on integration. The steps related to setting up the <a href="#">Oracle Access Manager and LDAP</a> are covered in this section.
<b>Oracle Identity Manager</b>	Oracle Identity Manager is an identity management product that automates user provisioning, identity administration, and password management, integrated in a comprehensive workflow engine. Steps related to configuring <a href="#">Oracle Identity Manager</a> covered.
<b>Oracle Service Registry</b>	The <a href="#">Oracle Service Registry</a> provides a UDDI v3-compliant platform for publishing, categorizing and discovering Web services and related resources across the enterprise. Steps for configuring same are mentioned.
<b>Oracle Business Activity Monitoring</b>	<p>This section describe about <a href="#">Oracle Business Activity monitoring</a> integration implementation. It explains about the step by step procedure to be followed for the following</p> <ul style="list-style-type: none"> <li>• Installation of Oracle BAM</li> <li>• Creating Data Objects &amp; Sample Reports</li> <li>• Integrating BAM with BPEL Process</li> <li>• Demo on FCIS Redemption Work Flow</li> </ul>

## 1.6 Client Browsers Settings

Following browsers are supported:

Component
Google Chrome
Microsoft Internet Explorer
Mozilla Firefox
Opera
Apple Safari

## 1.7 Installer Installation Pre-requisites

Component	Required for	Installation Details
JDK	Oracle FLEXCUBE Installation	Download JDK and set it as the environmental variable JAVA_HOME and append PATH with {JAVA_HOME}\bin
Weblogic	Oracle FLEXCUBE Installation	Installer home needs to be specified for using the Deployment feature of installer.
Oracle Client	Oracle FLEXCUBE Installation	Oracle client is required to install database objects of Oracle FLEXCUBE.





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