Oracle WebLogic Server 12cR2 on SUSE Linux Enterprise Server 12 (SP1) for x86-64



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Introduction

This document provides details on installing Oracle WebLogic Server 12cR2 on SUSE Linux Enterprise Server 12 (SP1). Details are provided for Intel x86-64 versions of both Oracle WebLogic Server 12cR2 and SUSE Linux Enterprise Server 12. Similar steps apply to other platforms (x86, ia64, System z, etc.). If you encounter issues or have general questions, please post your query to <u>suse-oracle@listx.novell.com</u>.

Official Oracle product documentation is available at: http://docs.oracle.com/en/

System Requirements and Specifications

Hardware Requirements

Requirement	Minimum
CPU	1-GHz CPU
Physical Memory	4 GB
Swap space	Approx. twice the size of RAM
Disk space in /tmp	2 GB
Disk space for software files	2 GB

Software Requirements

SUSE • SUSE Linux Enterprise Server 12 SP1 (x86-64) (http://download.suse.de/install)

Oracle • WebLogic Server 12cR2 (12.2.1) (fmw_12.2.1.0.0_wls_Disk1_1of1.zip) (http://www.oracle.com/technetwork/middleware/fusion-middleware/downloads/index.html)

• Java SE Development Kit 8 (jdk-8u91-linux-x64.tar.gz) (http://www.oracle.com/technetwork/indexes/downloads/index.html#java)

Testing machine information

HP DL388 Gen9 Server CPU: 2 * Intel(R) Xeon(R) CPU E5-2630 v3 @ 2.40GHz RAM: 64 GB NIC: 8 Local HDD: 2TB OS: SUSE Linux Enterprise Server 12 SP1 (x86-64) - Kernel version: 3.12.49-11-default

Prerequisites

1. Installing SUSE Linux Enterprise Server 12

Follow the installation document (URL:<u>https://www.suse.com/documentation/sles-12/</u>) to Install SLES 12 (x86-64) on the test machine.



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~	AppArmor								
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	KVM Virtualization Host and tools								
	Minimal System (Appliances)	<							
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	C/C++ Compiler and Tools								
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		File Server		patterns-sle	s-base	Base System	inces/	12-64.3	50 B
		Printing		patterns-sle	s-oracle_server	Oracle Server Base		12-64.3	59 B
	-	Mail and News Server							
		Web and LAMP Server							
		Infiniband (OFED)							
		Internet Gateway							
	-0	DHCP and DNS Server							
	-	Directory Server (LDAP)			nan an				
	8	SAP Application Server Base	De	scription <u>T</u> e	chnical Data D	ependencies <u>V</u> ersions	File List Chang	e Log	
	8	Oracle Server Base	ora	arun - An Envi	ronment for Rur	nning Oracle Products			Î
	R	KVM Host Server	Thi	is package cre	ates the user a	nd the groups for Oracle	, sets the Oracle e	environmer	nt
	X	Xen Virtual Machine Host Server	aut	riables, sets k tomated start	and stop of Ora	rs to values recommend acle components at syst	ed by Oracle, and em start and stop	time. It als	or io
	9	Web-Based Enterprise Manage	inc	ludes depende	encies for other	software packages need	ded to install and u	use Oracle,	so that
	4	Subscription Management Tool	ins	tall via YaST2	this package th	e otner packages are in e at least reminded to in	istall them (when	installing v	ia the ≚
			U U				Ca	incel	Accept

Figure 1-3 OS release information and kernel version



2. Installing Java

2-1. Oracle WebLogic Server 12cR2 (12.2.1) requires JDK 1.8 version. Log in to the target system (SLES 12 64-bit OS) as a non-admin user. Download Java SE Development Kit 8 (jdk-8u91-linux-x64.tar.gz) from http://www.oracle.com/technetwork/indexes/downloads/index.html#java

2-2. Set environment variables JAVA_HOME and PATH to ensure the proper JDK version is installed and ready for use.

Figure 2-1 Java information

						c	oracle@h	pgen9-01:/				×
File	Edit	View	Search	Terminal	Tabs	Help						
ora	cle@hp	gen9-	01:/	×	oracle(@hpgen9-01:~	×	oracle@hpgen9-01:	~	×	oracle@hpgen9-01:~/Oracle	×
orac orac java Java Java orac	le@hpq le@hpq vers: (TM) { HotSp le@hpq	gen9-(gen9-(_on ": E Rur oot (TI gen9-(01:/> e 01:/> e 01:/> j 1.8.0_9 ntime E M) 64-E 01:/>	export J export P ava -ve 01" Environm Bit Serv	AVA_HC ATH=\$J rsion ent (b er VM	ME=/opt/oracle AVA_HOME/bin:\$ puild 1.8.0_91- (build 25.91-b	/Oracle PATH b14) 14, mi)	e_SW/Java/jdk1.8 ked mode)	.0_91			

Oracle WebLogic Server 12cR2 Installation

1. Installing Oracle WebLogic Server software

1-1. Log in to the target system (SLES 12 64-bit OS) as a non-admin user. Download the Oracle WebLogic Server 12cR2 (12.2.1) from <u>http://www.oracle.com/technetwork/middleware/fusion-middleware/downloads/index.html</u>.

(**Note:** Please ensure the installation user has the proper permissions to install and configure the software.)

1-2. Go to the directory where you downloaded the installation program. Extract the contents of this .zip (fmw_12.2.1.0.0_wls_Disk1_1of1.zip) file and launch the installation program by running 'java -jar fmw.xxxx.jar'

Install Flow:

1). Installation Inventory Setup.

	oracle@hpgen9-01:	Oracle_SW/WebLogic		
File Edit View Search Terminal Tabs	Help			
oracle@hpgen9-01:Oracle × oracle@	hpgen9-01:~ ×	oracle@hpgen9-01:~	× oracle@hpgen9-	01:~/Oracle ×
oracle@hpgen9-01:~/Oracle_SW/WebLog Launcher log file is /tmp/OraInstal Extracting files Starting Oracle Universal Installer	ic> java -jar fmw_12 l2016-05-03_04-20-09	.2.1.0.0_wls.jar PM/launcher2016-05-0	03_04-20-09PM.log.	
Checking monitor: mu	le Fusion Middleware 12c I	nstallation Inventory Setup	Passe	ed
Checking swap space: Checking if this pla Installation Checking temp space:	Inventory Setup		uired)	
Central Inventory Preparing to launch new central invento	Directory ventory directory for all your ora y directory if it does not exist.	cle installations.The installer w	ill create a)-09PM	
Inventory <u>D</u> irectory:	/home/oracle/orainventor	M	Browse	
Operating <u>S</u> ystem (Enter the full path for the roup : oinstall Specify a group with write directory	directory. permission to the inventory	1	
Central Inventory	Pointer File			
Click OK to create a to create a pointer installations and ac	script (createCentralInventory.s file, which is used to identity the ministrative operations, such as	sh) in the inventory directory. Ri location of the central inventor s patching and upgrade.	un this script ry for future	
Help		ок	Cancel	

If this is your first Oracle installation on a host that is running SLES, please use this screen to specify the location of the Oracle central inventory directory and Operating System Group Name, then click **OK** to continue.

2). Welcome.

		oracle@hpgen9-01:Oracle_SW/WebLogic ×
File Edit Vi	Oracle Fusion	Middleware 12c WebLogic Server and Coherence Installation - Step 1 of 8 ×
oracle@hpge oracle@hpge Launcher lo	Welcome	
Extracting	Welcome	
Starting Ŏr	Auto Updates	Welcome to the Oracle Fusion Middleware 12c (12.2.1.0.0) WebLogic Server and Coherence Installer.
Checking if	Installation Location	Use this installer to create a new Oracle home that contains the Oracle WebLogic Server and
Checking mo Checking sw	Installation Type	Oracle Coherence software. You can use this software to configure a WebLogic Server domain for the deployment of Java applications.
Checking if	Prerequisite Checks	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware
Checking te	Installation Summary	documentation library.
	O Installation Progress	Context-sensitive online help is available from the Help button.
Preparing t	o Installation Complete	
Log: /tmp/0		
		Copyright © 1996, 2015, Oracle and/or its affiliates. All rights reserved.
	Help	< Back Next > Finish Cancel

Review the information on this screen carefully to be sure you have performed all the necessary prerequisites, then click **Next** to continue.

3). Auto Updates.

	oracle@hpgen9-01:Oracle_SW/V	/ebLogic ×
File Edit Vi	sion Middleware 12c WebLogic Server and Coh	erence Installation - Step 2 of 8 ×
oracle@hpge oracle@hpge Launcher lo		
Extracting Y <u>Welcome</u> Starting On Auto Updates Checking if Y Installation Location	Skip <u>A</u> uto Updates Select patches from <u>d</u> irectory	
Checking mo Checking sw Checking if Checking ter Preparing t Log: /tmp/0	Location: Search My Oracle Support for Updates Username: Password: Proxy Settings Search	Browse
Help		< Back Next > Einish Cancel

Select option "Skip Auto Updates" to skip this screen, then click Next to continue.

4). Installation Location.

		oracle@hpgen9-01:Oracle_SW/WebLogic	×
File Edit Vi	Oracle Fusion	n Middleware 12c WebLogic Server and Coherence Installation - Step 3 of 8 X	
oracle@hpge oracle@hpge Launcher lo	Installation Location		.e ×
Extracting Starting Or	Welcome	<u>O</u> racle Home:	
orar eing on	Auto Updates	/home/oracle/Oracle/Middleware/Oracle_Home	
Checking if		Feature Sets Installed At Selected Oracle Home: View	
Checking mo	Prerequisite Checks		
Checking if	Installation Summary		
checking ter	Installation Progress		
Preparing to) O Installation Complete		
Log: /tmp/0			
		Oracle Home may only contain alphanumeric, underscore (_), hyphen (-) or dot(.) characters and it must begin with an alphanumeric character.	
	Help	< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel	

Type the full path of the directory in the Oracle Home field, then click **Next** to continue.

5). Installation Type.

		oracle@hpgen9-01:Oracle_SW/WebLogic	×
File Edit Vi	Oracle Fusion	Middleware 12c WebLogic Server and Coherence Installation - Step 4 of 9 ×	
oracle@hpge oracle@hpge Launcher lo	nstallation Type		:le ×
Checking if Checking if Checking mo Checking sw Checking if Checking te Preparing t Log: /tmp/0	Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Security Updates Installation Summary Installation Progress Installation Complete	 	
	Щеlp	 □ Database Support Thirdparty JDBC Drivers 12.2.1.0.0 □ Open Source Components Fusion Middleware Maven Support 12.2.1.0.0 □ Oracle Installation Infrastructure FMW Platform Generic 12.2.1.0.0 OPatch 13.3.0.0.0 < Back Next > Einish Cancel 	

Use this screen to determine the type of installation you want to perform, then click **Next** to continue.

6). Prerequisite Checks.

		oracle@hpgen9-01:Oracle_SW/WebLogic	×
File Edit Vi	Oracle Fusior	Middleware 12c WebLogic Server and Coherence Installation - Step 5 of 9 ×	
oracle@hpge oracle@hpge Launcher lo	Prerequisite Checks		:le ×
Extracting	<u>Welcome</u>		
Starting Or	Auto Updates	100%	
Checking if	Installation Location		
Checking more	Installation Type	Checking operating system certification	
Checking sw	Prerequisite Checks	Checking Java version used to launch the installer	
Checking if Checking to	 Security Updates 		
Checking ter	Installation Summary		
	Installation Progress		
Preparing to) Installation Complete		
		Stop Berun Skip View Successful Tasks View Log Checking operating system certification Checking Java version used to launch the installer	
	Help	< <u>B</u> ack <u>N</u> ext > Einish Cancel	

Prerequisite Checks results will be shown as above, click **Next** to continue.

7). Security Updates.



		oracle@hpgen9-01:Oracle_SW/WebLogic ×
File Edit Vi	Oracle Fusion	Middleware 12c WebLogic Server and Coherence Installation - Step 6 of 9
oracle@hpge oracle@hpge Launcher lo	ecurity Updates	
Checking if Checking if Checking sw Checking to Checking to Checki	Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Security Updates Installation Summary Installation Progress Installation Complete	Provide your email address to be informed of security issues, install the product and initiate configuration manager. <u>View details</u> . <u>Email</u> : <u>Easier for you if you use your My Oracle Support email address/username</u> . <u>My Oracle Support Username/Email Address Not Specified</u> You have not provided an email address. Do you wish to remain uninformed of critical security issues in your configuration? <u>Yes</u> <u>No</u>
	Help	< Back Next > Finish Cancel

If you wish to register your installation, enter your Email address and your My Oracle Support password. If you wish to decline registration, deselect "I wish to receive security updates via My Oracle Support" and confirm your choice.

8). Installation Summary.

		oracle@hpgen9-01:Oracle_SW/WebLogic	×		
File Edit Vir Oracle Fusion Middleware 12c WebLogic Server and Coherence Installation – Step 7 of 9 ×					
oracle@hpge oracle@hpge Launcher lo	Installation Summary		×		
Extracting Starting Or. Checking mon Checking sw. Checking if Checking te Preparing t. Log: /tmp/O	Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Security Updates Installation Progress Installation Complete	 Install Oracle Fusion Middleware 12c WebLogic Server and Coherence Installation Location Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /tmp/Oralnstall2016-05-03_04-20-09PM/install2016-05-03_04-20-09PM Disk Space			
	Help	< <u>Back</u> <u>Next</u> > <u>Install</u> <u>Cancel</u>			

This screen contains a list of the feature sets you selected for installation, along with the approximate amount of disk space to be used by the feature sets once installation is complete. Check the information, then click **Install** to continue.

9). Installation Progress.

		oracle@hpgen9-01:Oracle_SW/WebLogic ×				
File Edit Vi	Oracle Fusion	Middleware 12c WebLogic Server and Coherence Installation - Step 8 of 9 ×				
oracle@hpge oracle@hpge Launcher lo	Installation Progress					
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Checking sw Checking if	Prerequisite Checks	Copy				
Checking te	Security Updates	Generating Libraries				
	Installation Summary					
Preparing t	Installation Progress					
Log: /tmp/0	Log: /tmp/0 u Installation Complete					
Visit http:		Post install scripts				
		View Messages View Log				
		Hardware and Software Engineered to Work Together				
	Help	< <u>Back</u> <u>Next</u> <u>Finish</u> <u>Cancel</u>				

This screen shows the progress of the installation. When the progress bar reaches 100%, the installation is complete. Click **Finish** to continue.

10). Specify ASM Password.

oracle@hpgen9-01:Oracle_SW/WebLogic ×						
File Edit Vi Oracle Fusion Middleware 12c WebLogic Server and Coherence Installation – Step 9 of 9 ×						
oracle@hpge oracle@hpge Launcher lo	Installation Complete					
Extracting Starting Or. Checking mo Checking sw Checking if Checking te Preparing to Log: /tmp/O Visit http:	Launcher Lo Extracting Starting Or Checking if Checking mod Checking if Checking te Prerequisite Checks Checking te Preparing t Log: /tmp/O Visit http: Prevaluation Complete Visit http: Checking te Prevaluation Complete Prevaluation Com					
Next Steps:						
	Help	< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel				

This screen appears at the conclusion of the installation. Select option "Automatically Launch the Configuration Wizard", then click Finish to dismiss the installer.

2. Creating and Configuring the WebLogic Domain

2-1. To begin domain configuration, you can automatically launch the Configuration Wizard through the option "Automatically Launch the Configuration Wizard" on the last Installation complete screen. You can also navigate to the 'ORACLE_HOME/oracle_common/common/bin' directory and start the WebLogic Server Configuration Wizard by running: './config.sh'.

Starting configuration:

1). Configuration Type.



Select option "Create a New Domain" and specify the Domain home directory in the "Domain Location" field, then click Next to continue.

2). Templates.



On the Templates screen select "Basic WebLogic Server Domain (selected by default)" and "WebLogic Coherence Cluster Extension" for configuration, then click Next to continue.

3). Administrator Account.

	oracle@hpgen9-01:Oracle_SW/WebLogic ×
File Edit View Search Terminal Tabs	Help
oracle@hpgen Launcher log Extracting f	
Checking if Checking if Checking if Checking if Checking if Checking tem Preparing to Log: /tmp/Or Visit http:/ Logs success oracle@hpgen	Name weblogic Password Confirm Password
Help	< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel

Specify the user name and password for the default WebLogic Administrator account for the domain, then click **Next** to continue.

4). Domain Mode and JDK.



Select "Development" in the Domain Mode field, select the "Oracle HotSpot" in the JDK field. Then click Next to continue.

5). Advanced Configuration.



According to your requirements, select the desired options on the Advanced Configuration screen. Then click **Next** to continue.

6). Configuration Summary.



Review this screen to verify the information is correct, then click Create to continue.

7). Configuration Progress.



The Configuration Progress screen as shown above, once you see: "Domain Created successfully", click **Next** to continue.

8). End Of Configuration.



Once you see: "Oracle Weblogic Server Configuration Succeeded", record the "**Domain Location**" and "**Admin Server URL**", then click **Finish** to dismiss the Configuration Wizard.

3. Starting the Administration Server and verifying the Configuration

3-1.To start the Administration Server, go to the DOMAIN_HOME/bin directory and run ./startWebLogic.sh.

Figure 3-1 Starting the Administration Server through a terminal

oracle@hpgen9-01:ns/base_domain/bin	×
File Edit View Search Terminal Tabs Help	
oracle@hpgen9-01:ns/base × oracle@hpgen9-01:* × oracle@hpgen9-01:* × oracle@hpgen9-01:*	~/Oracle ×
TING.> <03-May-2016 17:12:16 o'clock GMT+08:00> <notice> <log management=""> <bea-170036> <the logging="" monito<="" td=""><td>oring servi</td></the></bea-170036></log></notice>	oring servi
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<03-May-2016 17:12:16 o'clock GMT+08:00> <notice> <server> <bea-002613> <channel "default[2]"="" is="" no<br="">g on 127.0.0.1:7001 for protocols iiop, t3, ldap, snmp, http.></channel></bea-002613></server></notice>	ow listenin
<03-May-2016 17:12:16 o'clock GMT+08:00> <notice> <server> <bea-002613> <channel "default"="" <sup="" is="" now="">- n 192.168.1.190:7001 for protocols iiop, t3, ldap, snmp, http.></channel></bea-002613></server></notice>	listening o 🗖
<03-May-2016 17:12:16 o'clock GMT+08:00> <notice> <weblogicserver> <bea-000331> <started p="" the="" weblog<=""> Administration Server "AdminServer" for domain "base domain" running in development mode.></started></bea-000331></weblogicserver></notice>	gic Server
<pre><d3-may-2016 17:12:16="" gmt+08:00="" o'clock=""> <notice> <server> <bea-002613> <channel "default[1]"="" is="" no<br="">a on 0:0:0:0:0:0:0:0:0:0:181o:7001 for protocols jion t3 lden some bttp ></channel></bea-002613></server></notice></d3-may-2016></pre>	ow listenin
<pre><03-May-2016 17:12:16 o'clock GMT+08:00> <notice> <server> <bea-002613> <channel "default[2]"="" and="" contact="" in="" is="" not="" server="" server<="" td="" the=""><td>ow listenin</td></channel></bea-002613></server></notice></pre>	ow listenin
<pre><03-May-2016 17:12:16 o'clock GMT+08:00> <notice> <server> <bea-002613> <channel "<="" "default"="" is="" now="" pre=""></channel></bea-002613></server></notice></pre>	listening o
n 192.168.1.190:/001 for protocols 110p, t3, ldap, snmp, nttp.> <03-May-2016 17:12:16 o'clock GMT+08:00> <notice> <server> <bea-002613> <channel "default[1]"="" is="" no<="" td=""><td>ow listenin</td></channel></bea-002613></server></notice>	ow listenin
g on 0:0:0:0:0:0:0:0:1%lo:7001 for protocols iiop, t3, ldap, snmp, http.> <03-May-2016 17:12:16 o'clock GMT+08:00> <notice> <weblogicserver> <bea-000360> <the server="" started<="" td=""><td>d in RUNNIN</td></the></bea-000360></weblogicserver></notice>	d in RUNNIN
G mode.> <03-May-2016 17:12:16 o'clock GMT+08:00> <notice> <weblogicserver> <bea-000365> <server chan<="" state="" td=""><td>ged to RUNN</td></server></bea-000365></weblogicserver></notice>	ged to RUNN
ING.>	

3-2. Access to Oracle WebLogic Server Administration Console.

Figure 3-2 Access to WebLogic Server 12cR2 Admin Console - Login page

Oracle WebLogic Server Administration Console – Mozilla Firefox				×
Oracle WebLogic Server X				
♦	✓ C Search	☆ 自 ♣	⋒	≡
🛅 Most Visited 🗸 🛅 SUSE 🗸 🌩 Getting Started 🔊 Latest Headlines 🎽 🎽 Mozilla	Firefox [∨]			
	2c Welcome Log in to work with the WebLogic Ser Username: WebLo Password: ••••	ver domain gic • • • •		

Figure 3-3 Viewing WebLogic Server 12cR2 Admin Console - Home page

	Home Page – base_domain	n – WLS Console – Mozilla Firefox	×
Home Page - base_doma × 💠			
🗲 🕙 http://hpgen9-01:7001/consc	le/console.portal?_nfpb=true&_pa	geLabel=Home Y C 🔍 Search	☆ 🖻 🖡 🏫 🚍
🔯 Most Visited 🗸 📋 SUSE 🗸 🌵 Ge	tting Started 🛛 Latest Headlines	👻 🛅 Mozilla Firefox 🗡	
	Administration Console 12c		Q
Change Center	🔒 Home Log Out Preferences 📐 Re	cord Help	Welcome, weblogic Connected to: base_domain
View changes and restarts	Home >base_domain		
Configuration editing is enabled. Future	Home Page		
changes will automatically be activated as you modify, add or delete items in this domain.	- Information and Resources		
Domain Structure	Helpful Tools	General Information	
base_domain base_	Configure applications Configure GridLink for RAC Data Source Configure a Dynamic Cluster Recent Task Status Set your console preferences Domain Configurations	Common Administration Task Descrip Read the documentation Ask a question on My Oracle Support	tions
	Domain	Resource Group Templates	Interoperability
	Domain	Resource Group Templates	WTC Servers Idit Connection Reals
	Domain Partitions	Resource Groups	• Jul Connector Pools
How do I	Domain Partitions	Resource Groups	Diagnostics
Search the configuration	Partition Work Managers		Log Files Discretic Modules
Use the Change Center	Environment	Deployed Resources	Built-in Diagnostic Modules
Record WLST Scripts		Deployments	Diagnostic Images
Change Console preferences Manage Console extensions	Glusters	Santicas	Request Performance
Monitor servers	 Server Templates 	Messaging	Archives
	 Migratable Targets 	 Incession JMS Servers 	Context
System Status	Coherence Clusters	Storwand-Forward Agents	SNMP

Additional Comments

This document shows how to create a standard installation topology for Oracle WebLogic Server. You can extend this topology to make it highly available and secure so it is suitable for a production system.

Thank you ! SUSE ISV Engineering Team May 6th, 2016

https://www.suse.com