Oracle Fusion Middleware 14c on SLES 12 SP5

Oracle Fusion Middleware - WebLogic Server 14c (14.1.1.0.0) on SUSE Linux Enterprise Server 12 (SP5) for x86-64



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Introduction

This document provides details on installing Oracle WebLogic Server 14c on SUSE Linux Enterprise Server 12 SP5. Details are provided for Intel(x86-64) versions of both Oracle WebLogic Server 14c and SUSE Linux Enterprise Server 12 SP5. Similar steps apply to other platforms (x86, ia64, System z, etc.).

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 SP5 (x86-64) (<u>http://download.suse.de/install</u>)

Oracle

• WebLogic Server 14c (14.1.1.0.0) (fmw_14.1.1.0.0_wls_Disk1_1of1.zip) (<u>https://www.oracle.com/middleware/technologies/fusionmiddleware-downloads.html</u>)

• Java SE Development Kit 8 (jdk-8u221-linux-x64.tar.gz) (<u>https://www.oracle.com/technetwork/java/javase/downloads/index.html</u>)

Testing Machine Information

Dell Laptop Precision 5530 CPU: 6 * Intel(R) Core(TM) i7-8850H CPU @ 2.60GHz RAM: 32 GB NIC: 2 Local HDD: 1TB + 512GB OS: SUSE Linux Enterprise Server 12 SP5 (x86-64) - Kernel version: 4.12.14-120-default

Prerequisites

1. Installing SUSE Linux Enterprise Server 12 SP5

1-1. Install SUSE Linux Enterprise Server 12 SP5 on your testing machine. To do so, follow the instructions in the official SUSE Linux Enterprise Server documentation at https://www.suse.com/documentation/.

Figure 1-1 Software Installed as shown below

				YaST2	_ • ×
	<u>F</u> ile	<u>P</u> ack	age Configuration <u>D</u> ependencies	s <u>O</u> ptions E <u>x</u> tras <u>H</u> elp	
	<u>V</u> iew	•	Search <u>R</u> PM Groups Installation	1 Summary Patter <u>n</u> s	
			Pattern -		
	-		Documentation	 Package Summary Installed (Available) 	Size
			Help and Support Documentat	FirmwareUpdateKit Assist with DOS-base 1.6-5.14	182.7 KiB
				☑ OpenIPMI Provides access to ser 2.0.21-10.6.24	3.0 MiB
	-		Base Technologies	SuSEfirewall2 Stateful Packet Filter 3.6.312.333-3.13.1	291.1 KiB
	✓	طلک	Base System	☑ acl Commands for Manipu 2.2.52-7.3.1	193.4 KiB
		4 7 50	AppArmor	■ at A Job Manager 3.1.14-8.6.1	112.8 KiB
	-		, pp, inter	Commands for Manipu 2.4.47-3.143	124.7 KIB
	~		32-Bit Runtime Environment	autors A Kernel-Based Autom 5.1.3-1.17	3.2 MIB
			XEN Virtualization Host and to	duloyasiz fast2 - Autoinated In 3.2.36-1.25	682.1 KiB
			KVM Virtualization Host and t	autovastz-installation rasi z - Auto installati 5.2.50-1.25	694.8 KiB
			KVPP VII tuatization nost and t	Substitution and the completion of the completio	253.7 KiB
	~	ر ک ے	Minimal System (Appliances)	bind-utils Utilities to guery and t 9.11.2-3.10.1	1.1 MiB
	-	طبكم	YaST2 configuration packages	E binutils GNU Binutils 2.32-9.36.1	46.8 MiB
	_		Graphical Environm	E blktrace Block IO tracer 1.0.5-7.3	867.2 KiB
11,	_			Description Technical Data Dependencies Versions File List Change Log	
	~	9	GNOME Desktop Environment]
	•	X	X Window System	FirmwareUpdateKit - Assist with DOS-based firmware updates	
[-		Development	Create a bootable mini-DOS system and add files to it. Useful if you have to do firmw	vare updates
		.		from DOS.	
				Supportability: Level 3	
[-	,	Primary Functions		
		7	FIPS 140-2 specific packages		
		P	File Server		
			Printina	<u>C</u> ancel	Accept
A	pplicat	tions	Places 🛛 🖉 oracle@Dell5530:/opt	t/oracle 1 Wed 22:	09 🐠 🛃

In Yast, select the patterns you need. Make sure you select the patterns and packages required to run Oracle products.

									YaST2						-	• ×
<u>F</u> ile	<u>P</u> ack	age Co	onfiguration	Dependent	ies	<u>O</u> p	tions	E <u>x</u> tras	<u>H</u> elp							
Vie	w 🔻	S <u>e</u> arch	<u>R</u> PM Groups	s <u>I</u> nstallat	ion S	Sumn	nary P	atter <u>n</u> s								
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	2	C/C++ (• Compiler and "	Tools			orarun			An Environm	ent for Rur	nning Orac	le Produ	2.0-14.	11.1 73	B.6 KiB
		Prima	arv Funct	ions			pattern	s-sles-N	1inimal	Minimal Syst	em (Applia	inces)		12-10.1	_	53 B 50 B
	9		0-2 specific p:	ackages			pattern	s-sles-d	racle_serv	er Oracle Serve	r Base			12-10.1	-	59 B
			o-z specific pe	ackages												
		File Serv	/er													
		Printing														
	-2	Mail and	l News Server	r												
		Web and	d LAMP Serve	r												
		Infinibar	nd (OFED)													
		Internet	Gateway													
	- 🔬	DHCP a	nd DNS Serve	er.				<u></u>				·	r			
		Director	y Server (LDA	AP)		Des	scription	<u>T</u> ech	nical Data	Dependencies	<u>V</u> ersions	File List	Change L	og		
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	2	Oracle S	Server Base			Thi	s packag	je create	es the user	and the groups	for Oracle,	sets the C	Dracle envi	ronment	variable	s,
		KVM Ho	st Server			set	s кегnei p of Ora	parame Icle com	ponents at	ues recommende : system start an	d stop time	e, and pro e. It also in	cludes dep	utomateo endencie	start ar s for otl	her
		Xen Virt	ual Machine H	lost Server		sof	tware pa er packa	ackages	needed to	install and use (Dracle, so t	hat when tall via Ya	you select	this pack	age the	. "
	Ř	Web-Ba	sed Enterprise	e Manage		rem	inded to	o install	them (whe	en installing via t	he rpm cor	nmand). Th	nis package	e is not re	equired f	or
		Subscrip	tion Manager	nent Tool		run	ning Ora	acle but	it simplifie	s things significa	ntly.					
														<u>C</u> ancel	Acc	ept
Applic	ations	Places	💴 oracle@	Dell5530:/4	opt/o	racle		🞧 Ya	aST2				1 \	Wed 22:0	8	40) F

Figure 1-2 Software Installed as shown below

After the installation of SUSE Linux Enterprise Server, the following information about the operating system and the kernel version is displayed.

Figure 1-3 OS release information and kernel version



1-2. Special Startup Requirements.

1). To set the SHMMAX kernel parameter.

Change the value of SHMMAX to 4294967295 by including the following line in /etc/sysctl.conf:

kernel.shmmax = 4294967295

Activate the new SHMMAX setting by running the command:

/sbin/sysctl -p

2). Checking the Open File Limit and Maximum Stack Size.

ulimit -a

To change the open file limits, login as root and edit the /etc/security/limits.conf file. Look for the following lines:

- * soft nofile 4096 * hard nofile 65536 * soft nproc 2047
- * hard nproc 16384

To change the maximum stack size, login as root and edit the /etc/security/limits.conf file. Add the following line:

oracle soft stack 10240

then reboot the machine.

2. Installing Java

2-1. Log in to the target system (SUSE Linux Enterprise Server 12 SP5 64-bit OS) as a non-admin user. Download Java SE Development Kit 8 (jdk-8u221-linux-x64.tar.gz) from https://www.oracle.com/technetwork/java/javase/downloads/index.html.

(Note: The classes in com.oracle.weblogic.management.tools.migration.jar are built with JDK8 and must be run with JDK8. For 14c(14.1.1.0.0), the certified JDK was jdk1.8.0_191 and later.)

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

, 12						ora	acle@Dell5530:~		-		×
File	Edit	View Searc	h Termi	nal Tab	5 Help						
	oracle@Dell5530:~ ×				×		oracle@Dell5530:~	×	۵	•	
orad orad java Java Java orad	cle@Del cle@Del cle@Del a versi a(TM) S a HotSp cle@Del	15530:~> 15530:~> 15530:~> 15530:~> 15530:~> 15530:~>	export export java -\ _221" Envirc -Bit Se	JAVA_H PATH=\$ version onment erver V	DME=/hd JAVA_H((build (bui)	ome/ORACLE_SW, OME/bin:\$PATH 1.8.0_221-b1 ld 25.221-b11	/Java/jdk1.8.0_: 1) , mixed mode)	221/			

Oracle WebLogic Server 14c Installation

1. Installing Oracle WebLogic Server software

1-1. Log in to the target system (SUSE Linux Enterprise Server 12 SP5 64-bit OS) as a non-admin user. Download the Oracle WebLogic Server 14c (14.1.1.0.0) from https://www.oracle.com/middleware/technologies/fusionmiddleware-downloads.html.

(**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_14.1.1.0.0_wls_Disk1_1of1.zip) file and launch the installation program by running 'java -jar fmw_14.1.1.0.0_wls.jar'

Install Flow:

1). Installation Inventory Setup.

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.

Central Inventory Directory Enter the Central inventory direct			
Enter the Central inventory direc			
inventory directory if it does not	ctory for all your oracle instal t exist.	lations.The installer will create a ne	ew central
Inventory Directory:	home/oracle/oralnventory		Browse
E	inter the fu <mark>ll</mark> path for the direc	ctory.	
Operating System Group :	pinstall		1
S	pecify a group with write perr	mission to the inventory directory	- -
Central Inventory Pointer File			
Click OK to create a script (cre	eateCentralInventory.sh) in the	e inventory directory. Run this script	t to create a

Help OK Cancel

2). Welcome.

Oracle Fusion Middleware 14.1.1 WebLogic Server and Coherence Installation - Step 1 of 8 🚬 🗙				
Welcome				
🥥 Welcome				
<u>Auto Updates</u>	Welcome to the Oracle Fusion Middleware 14.1.1 WebLogic Server and Coherence Installer.			
Installation Location	Use this installer to create a new Oracle home that contains the Oracle WebLogic Server and Oracle			
Installation Type	of Java applications.			
Prerequisite Checks	For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.			
Installation Summary	Context-sensitive online help is available from the Help button.			
Installation Progress				
	Copyright © 1996, 2020, Oracle and/or its affiliates. All rights reserved.			
<u>H</u> elp	< 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 Fusion Middleware 14.1.1 WebLogic Server and Coherence Installation - Step 2 of 8 🛛 🗛 🗙				
Auto Updates	200			
Welcome	Skin Auto Undates			
Auto Updates	Select patches from directory			
Installation Type	Location:	Browse		
Prerequisite Checks	Search My Oracle Support for Updates			
Installation Summary	<u>U</u> sername:			
Installation Progress	Password:			
 Installation complete 	Proxy Settings	Test Connection		
	<u>S</u> earch			
Help		< Back Next > Einish Cancel		

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

4). Installation Location.

Oracle Fusion	Middleware 14.1.1 WebLogic Server and Coherence Installation - Step 3 of 8 ×
Installation Location	
<u>Welcome</u>	Oracle Home:
Auto Updates	/home/oracle/Oracle/Middleware/Oracle_Home
Installation Location	Feature Sets Installed At Selected Oracle Home: View
Installation Type	No Features are installed at selected Oracle Home.
Prerequisite Checks	
Installation Summary	
↓ └── Installation Progress	
Unstallation Complete	
\sim	
	The Oracle Home /home/oracle/Oracle/Middleware/Oracle_Home will be used for all Oracle Feature Sets in this
e 🕺	Installation.
	This page only shows Feature Sets installed at the selected Oracle Home. It does not show Feature Sets installed anywhere else.
<u>H</u> elp	< <u>Back</u> <u>Next</u> > <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 Fusion	Middleware 14.1.1 WebLogic Server and Coherence Installation - Step 4 of 8	_ ×
Installation Type		
<u>Welcome</u> <u>Auto Updates</u>	● <u>W</u> ebLogic Server	
Installation Location Installation Type		
Prerequisite Checks Installation Summary	○ Complete with Examples	
Installation Complete	 Core Server Core Application Server 14.1.1.0.0 Coherence Product Files 14.1.1.0.0 Web 2.0 HTTP Pub-Sub Server 14.1.1.0.0 WebLogic SCA 14.1.1.0.0 WebLogic Client Jars 14.1.1.0.0 Administrative Tools Administration Console Additional Language Help Files 14.1.1.0.0 Clie WLS Config 14.1.1.0.0 Database Support Third party JDBC Drivers 14.1.1.0.0 WebLogic Evaluation Database 14.1.1.0.0 	
	 Open Source Components Fusion Middleware Maven Support 14.1.1.0.0 Oracle Installation Infrastructure OPatch 13.9.4.2.3 	✓
Help	< Back Next > Einis	h Cancel

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

6). Prerequisite Checks.

Oracle Fusion N	liddlew	are 14.1.1 WebLogic Server and Coherence Installation - Step 5 of	8 _	×
Prerequisite Checks	5-24			
Welcome				
Auto Updates		100%		
Installation Location	v	Checking operating system certification		1
Installation Type	v	Checking Java version used to launch the installer		
Prerequisite Checks				
Installation Summary				
Unstallation Progress				
Unstallation Complete				
	Stop	Rerun Skip View Successful Tasks	View Log	-
	⊡… ∕ <mark>⊘</mark> Che	ecking operating system certification		
	Ð	opected result: One of oracle-6, oracle-7, redhat-7, redhat-6, SuSE-11, SuSE-12, SuSE-15		
	CI	ctual Result: SUSE-12SPS heck complete. The overall result of this check is: Passed		
	🖻 🖤 🏈 Che	ecking Java version used to launch the installer		
	A	ctual Result: 1.8.0_221		
	CI	heck complete. The overall result of this check is: Passed		
Help		< Back Next > Ein	ish Canr	el

Prerequisite Checks results will be shown as above, Oracle Fusion Middleware 14c is certified on SLES 12 SP5, click **Next** to continue.

7). Installation Summary.

Oracle Fusion Middleware 14.1.1 WebLogic Server and Coherence Installation - Step 6 of 8 🚬 🗙				
Installation Summary				
Welcome	Install Oracle Fusion Middleware 14.1.1 WebLogic Server and Coherence			
Auto Updates	Installation Location			
Installation Location	Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home			
	Log File Location: /tmp/OraInstall2020-05-14_08-00-39PM/install2020-05-14_08-00-39PM.log			
Installation Type	Disk Space			
Prerequisite Checks	Required: 976 MB			
Installation Summary	Available: 202127 MB			
	Feature Sets to Install			
	Administration Console Additional Language Help Files 14.1.1.0.0			
 Installation Complete 	CIE WLS Config 14.1.1.0.0			
	Fusion Middleware Maven Support 14.1.1.0.0			
	Third party JDBC Drivers 14.1.1.0.0			
	WebLogic Evaluation Database 14.1.1.0.0			
	Core Application Server 14.1.1.0.0			
	Coherence Product Files 14.1.1.0.0			
	Web 2.0 HTTP Pub-Sub Server 14.1.1.0.0			
	WebLogic SCA 14.1.1.0.0			
	WebLogic Client Jars 14.1.1.U.U			
	UPatch 13.9.4.2.3			
No.				
	Save Response File			
	Select Install to accept the above options and start the installation.			
	To change the above options before starting the installation, select the option to change in the left pane or use the			
	Dack Dutton.			
<u>H</u> elp	< Back Next > Install Cancel			

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.

8). Installation Progress.

Oracle Fusion Mi	ddlew	are 14.1.1 Webl	Logic Server a	nd Coherenc	e Installation - Step 7 of	8 _ ×
Installation Progress	8					
V Welcome Auto Updates				100%		
V Installation Type	V	Prepare				
Prerequisite Checks	<i>«</i>	Copy	_			
unstallation Summary	Ž	Performing String	s Substitutions			
Installation Progress	V	Linking				
Installation Complete	V	Setup				
	 	Saving the inventor	у			
	V	Post install scripts	i			
	View	<u>M</u> essages		✓ <u>V</u> iew Succe	ssful Tasks	View <u>L</u> og
	-			5 7 7 7	Hardware and So Engineered to Work	<mark>ftware</mark> Together
<u>H</u> elp					< <u>Back</u> <u>N</u> ext > <u>F</u> in	ish Cancel

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

9). Installation Complete.

Oracle Fusion	Middleware 14.1.1 WebLogic Server and Coherence Installation - Step 8 of 8 ×
Installation Complete	
Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Progress Installation Complete	 Install Oracle Fusion Middleware 14.1.1 WebLogic Server and Coherence Installation Location Oracle Home Location: /home/oracle/Oracle/Middleware/Oracle_Home Log File Location: /tmp/OraInstall2020-05-14_08-00-39PM/install2020-05-14_08-00-39PM.log Feature Sets Installed Successfully Administration Console Additional Language Help Files 14.1.1.0.0 Cle WLS Config 14.1.1.0.0 Fusion Middleware Maven Support 14.1.1.0.0 Third party JDBC Drivers 14.1.1.0.0 WebLogic Evaluation Database 14.1.1.0.0 Coherence Product Files 14.1.1.0.0 WebLogic SCA 14.1.1.0.0 WebLogic Client Jars 14.1.1.0.0 WebLogic Client Jars 14.1.1.0.0
	Next Step(s): Automatically Launch the Configuration Wizard Oracle Fusion Middleware 14.1.1 WebLogic Server and Coherence installation completed successfully
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.

	Fusion Middleware Configuration Wizard - Page 1 of 8	- ×
Configuration Type		
👰 Create Domain	•	
🔍 <u>Templates</u>		
Administrator Account		
Domain Mode and JDK		
Advanced Configuration		
Configuration Summary	What do you want to do?	
 Configuration Progress 		
 End Of Configuration 	Create a new domain	
	Update an existing domain	
	Domain Location: racle/Oracle/Middleware/Oracle_Home/user_projects/domains/base_domain Br	owse
	Create a new domain.	
<u>H</u> elp	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish C	ancel

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

2

2). Templates.

	Fusion Middleware Configuration Wizard - Page 2 of 8	- ×
Templates		
 Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration 	 	
Help	Create Domain Using Custom Template: Template location: /home/oracle/Oracle/Middleware/Oracle_Home E	Cancel

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.

r		Fusion Middle	ware Configuration Wizard - Page 3 of 8	-	×
4	dministrator Account	50			
平	Create Domain				
-	Templates				
0	Administrator Account				
	Domain Mode and JDK				
	Advanced Configuration				
	Configuration Summary				
ΙŲ	Configuration Progress				
5	End Of Configuration	Name	weblogic		
		Password			
		Confirm Password			
		. .			
		Must be the same as	s the password. Password must contain at least 8 alphanumeric characters with at leas	t one	÷
		number or special cr	aracter.		
	<u>H</u> elp		< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Ca	ance	

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.

	Fusion Middleware Configuration Wizard - Page 4 of 8	-	×
Domain Mode and JDK			
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Domain Mode		
		DTOWS	6
<u>H</u> elp	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Canc	el

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

5). Advanced Configuration.

Fusion Middleware Configuration Wizard - Page 5 of 8			
Advanced Configuration			
<u>Create Domain</u> <u>Templates</u> <u>Administrator Account</u> <u>Domain Mode and JDK</u> <u>Advanced Configuration</u> Configuration Summary	Administration Server Modify Settings Node <u>Manager</u> Configure Node Manager		
Configuration Progress	Topology Add, Delete or Modify Settings for Managed Servers, Clusters and Coherence		
Help	< Back Next > Finish	Cancel	

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

-

6). Configuration Summary.

	Fusion Middleware Configuration Wizard	- Page 6 of 8	_ ×
Configuration Summary	220		
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	View: Deployment	Name Basic WebLogic Server Do Description Create a basic WebLogic S Author Oracle Corporation Location /home/oracle/Oracle/Mid Name WebLogic Coherence Clust Description Extend an existing WebLog Author Oracle Corporation Location /home/oracle/Oracle/Mid	main Server domain v dleware/Oracle ter Extension pic Server doma dleware/Oracle dleware/Oracle the above left pane, or
Help		< Back Next > Create	Cancel

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

7

7). Configuration Progress.

	Fusion Middleware Configuration Wizard - F	Page 7 of 8	_ ×
Configuration Progress	22		
Y Create Domain			
Templates	100%	6	
Administrator Account	✓ Copy Unprocessed Artifacts		
↓ ♀ Domain Mode and JDK	Security Processing		
Advanced Configuration	Artifacts Generation String Substitution		
↓ ♀ Configuration Summary	Post Processing		
Configuration Progress			
End Of Configuration			
$\langle \langle \rangle \rangle$			
Help		< <u>B</u> ack <u>N</u> ext >	inish Cancel

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 through a terminal, go to the DOMAIN_HOME/bin directory and run the command ./startWebLogic.sh.

Figure 3-1-1 Starting the Administration Server through a terminal

-			oracle	@Dell55	30:/hom	e/oracle/	/Oracle/Middlev	ware/Oracle_Home/user_projects/domains/base_domain/bin _ □	×
File	Edit	View	Search	Termina	al Tabs	Help			
	oracle	@Dell	5530:/hor	ne/ORAC	LE_SW/	WebLog	ic/14.1.1.0 ×	oracle@Dell5530:/home/oracle/Oracle/Middleware/Oracl ×	•
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Figure 3-1-2 Checking the listening port(7001)

Dell553	:/opt/o	<pre>pracle # netstat -tupln grep 7001</pre>		
tcp	Θ	0 192.168.1.7:7001 :::*	LISTEN	28348/java
tcp	Θ	0 ::1:7001 :::*	LISTEN	28348/java
tcp	Θ	0 2408:8207:c54:6ed0:7001 :::*	LISTEN	28348/java
tcp	Θ	0 2408:8207:c54:6ed0:7001 :::*	LISTEN	28348/java
tcp	Θ	0 127.0.0.1:7001 :::*	LISTEN	28348/java
Del1553	θ:/opt/o	oracle #		

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

Figure 3-2-1 Access to WebLogic Server Admin Console - Login page

Oracle WebLogic Server Administration Console - Mozilla Firefox								
Oracle WebLogic Server Admi 🗙	+							
← → ♂ @ 0	🔏 http://dell5530:7001/console/login/LoginForm.jsp 🛛 💀 🖸 🔤		٢	≡				
ORACLE [®] Web	Logic Server Administration Console 14.1.1							
14	Welcome Log in to work with the WebLogic Server domain Username: webLogic Password: ••••••••	in						
WebLogic Server Version: 14.1.1.0.0 Copyright (c) 1996,2020, Oracle and/or its affi	iates, All rights reserved.							

Figure 3-2-2 Viewing WebLogic Server Admin Console - Home page

Home Page - base_domain - WLS Console - Mozilla Firefox						×
Home Page - base_domain - ` × 🕂						
← → C ŵ 0 ht	tp://dell5530:7001/console/console.por	tal?_nfpb=true&_pageLa 🔳 🖡	⊘ ☆		٢	≡
	ministration Console 14.1.1				Ģ	⊇ [
Change Center	🔒 Home Log Out Preferences 🔤 Record	Help	Welcome, weblogic Connected	to: base	e_dom	ain
View changes and restarts	Home					
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Home Page — Information and Resources					
Domain Structure	Helpful Tools	General Information				
base_domain ⊕-Environment Deployments ⊕-Services Security Realms ⊕-Interoperability	Configure applications Configure GridLink for RAC Data Source Configure a Dynamic Cluster Recent Task Status Set your console preferences	Common Administration Task Descriptions Read the documentation Ask a question on My Oracle Support				
Er-Diagnostics	— Domain Configurations —					-
	Domain	Interoperability				
	Domain	Deployments	WTC Servers			
	Environment	Services				
How do I	Servers	Messaging	Diagnostics			
Search the configuration	Clusters Server Templates	 JMS Servers Store-and-Forward Agents 	Log Files Disgnostic Modules			
Use the Change Center	 Migratable Targets 	 JMS Modules 	Built-in Diagnostic Modules			
Record WLST scripts	Coherence Clusters	Path Services	Diagnostic Images			
Change Console preferences	Machines	 Bridges 	 Request Performance 			- 11
Manage Console extensions	Virtual Hosts	Data Sources	Archives			- 11
Monitor servers	Work Managers	Persistent Stores	Context			
	Concurrent Templates	XML Registries	SNMP			
System Status	 Startup And Shutdown Classes 	XML Entity Caches	 Interceptors 			
Retrieving Health Data		 Foreign JNDI Providers 				

Figure 3-2-3 Viewing	WebLogic Server	Admin Console -	Summary of Servers
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	Su	immary of	f Servers - ba	ase_domain - WL	S Console	- Mozilla Fire	fox			- •	×
Summary of Servers - base_C × +											
	ttp://dell	15530:700	1/console/cor	nsole.portal?_nfpb	=true&_pag	geLa 🔳	⊠ ☆		lii\ 🗉) 🔮	≡
ORACLE WebLogic Server Administration Console 14.1.1							õ				
Change Center	h 🔒 🖌	Home Log O	ut Preferences [Necord Help		Q	Welcome,	weblogic Co	onnected to: I	oase_dor	main
View changes and restarts	Hon	Home >Summary of Servers									
Configuration editing is enabled. Future	Summ	mary of Serve	ers								
changes will automatically be activated as you modify, add or delete items in this domain.	Con	figuration	Control								
base_domain ⊕-Environment Deployments ⊕-Services Security Realms ⊕-Interoperability ⊕-Diagnostics	As Th Z	A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration. This page summarizes each server that has been configured in the current WebLogic Server domain.									
	Servers (Filtered - More Columns Exist)						is Next				
		Name 🔗	\$ \$	Туре	Cluster	Machine	State	Health	Listen Por	t	
		AdminSe	rver(admin)	Configured			RUNNING	🖋 ок	7001		
How do I • Create Managed Servers • Clone servers		New Clone	e Delete				s	howing 1 to 1	of 1 Previou	s Next	
Delete Managed Servers Delete the Administration Server											
Start and stop servers											
 View objects in the JNDI tree 											
System Status	้										
Health of Running Servers as of 8:12 PM											

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 15th, 2020 https://www.suse.com