

6

Using the Administration Console

Objectives

After completing this lesson, you should be able to:

- Access the WebLogic Server administration console
- Create and configure servers by using the administration console

Accessing the Administration Console

After starting the administration server, you can access the administration console in a web browser.

```
http://hostname:port/console
```

```
https://hostname:secureport/console
```

hostname = The host name or IP address of the administration server

port = The port number of the administration server

secureport = The secure sockets layer (SSL) port number of the admin server

```
http://localhost:7001/console
```

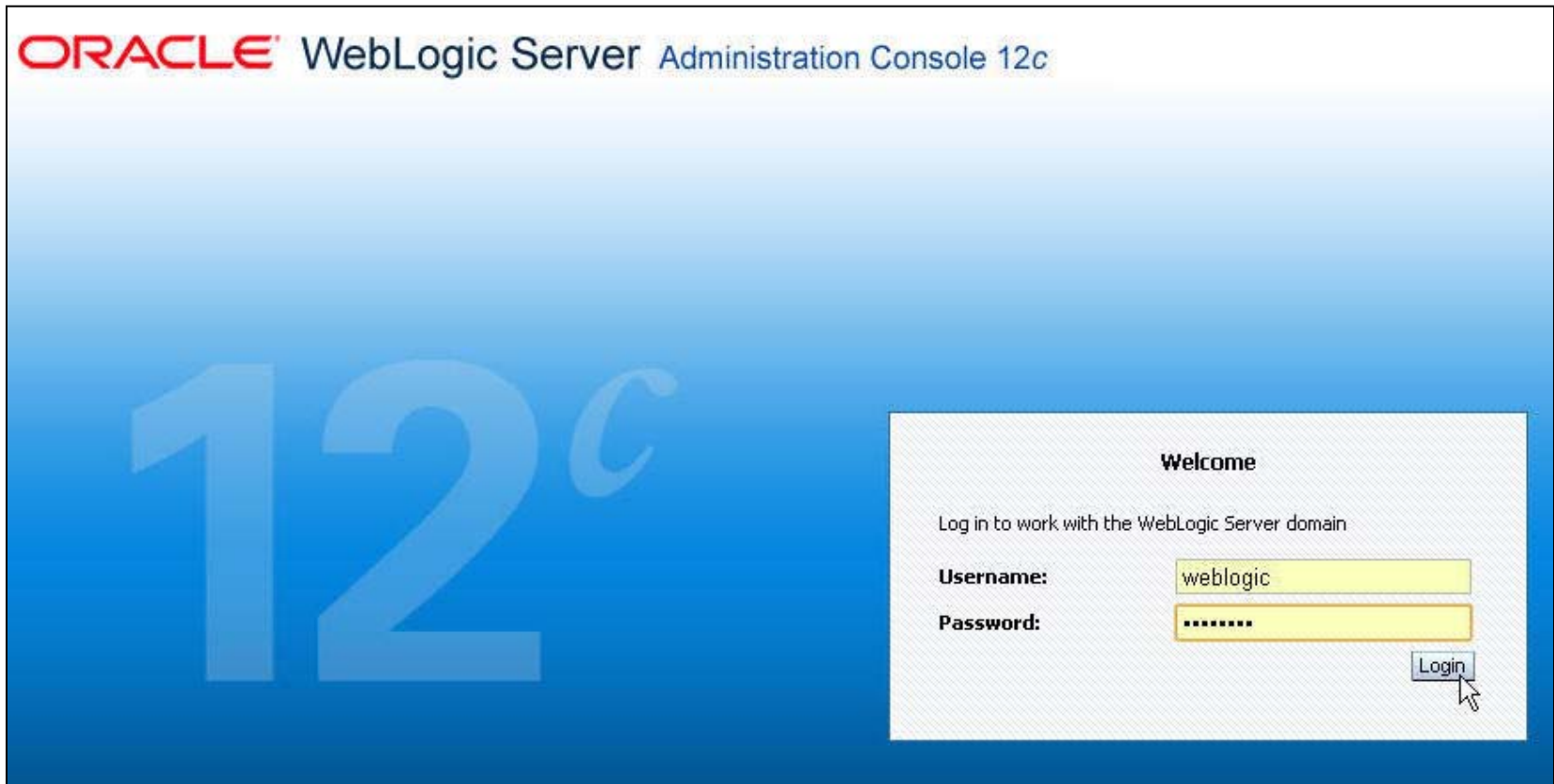
```
http://adminDNSName:7001/console
```

```
https://127.0.0.1:7002/console
```

SSL on a different port

Administration Console Login

Enter the username and password that you set when creating your domain. The password is not displayed.



The screenshot shows the Oracle WebLogic Server Administration Console 12c login page. The background is a blue gradient with a large, faint "12c" watermark. The top left corner displays the Oracle logo and the text "WebLogic Server Administration Console 12c". On the right side, there is a white login box with a light gray border. Inside this box, the word "Welcome" is centered at the top. Below it, the text "Log in to work with the WebLogic Server domain" is displayed. The login form consists of two fields: "Username:" with the value "weblogic" entered, and "Password:" with a masked password represented by seven asterisks. A "Login" button is located at the bottom right of the login box, with a mouse cursor pointing at it.

ORACLE WebLogic Server Administration Console 12c

Welcome

Log in to work with the WebLogic Server domain

Username: weblogic

Password:

Login

Basic Navigation

The screenshot displays the Oracle WebLogic Administration Console 12c interface. The top navigation bar includes links for Home, Log Out, Preferences, Record, and Help. The breadcrumb trail shows the path: Home > Summary of Servers > AdminServer. The main content area is titled 'Settings for AdminServer' and features a series of tabs for Configuration, Protocols, Logging, Debug, Monitoring, Control, Deployments, Services, Security, and Notes. The 'Configuration' tab is active, showing sub-tabs for General, Cluster, Services, Keystores, SSL, Federation Services, Deployment, Migration, and Tuning. The 'Deployment' sub-tab is selected, displaying a 'Staging Mode' dropdown set to 'nostage'. On the left, the 'Domain Structure' tree shows the hierarchy: wlsadmin > Environment > Servers > Clusters > Coherence Clusters. The 'Change Center' on the left includes a 'Lock & Edit' button and a 'Release Configuration' button. A 'Help system' icon is located in the top right corner.

Lock the configuration to make changes.

Help system

Breadcrumbs

Domain resources

Lock & Edit button in the Change Center to modify the configuration.

Tabs help organize information about the selected resource (Configuration > Deployment)

Information about the selected resource, based on the tabs selected


Tabular Data

Often, information in the admin console is displayed in a table. You can customize the columns that are displayed.

Summary of Servers

Configuration

Control



[Customize this table](#) **1**

Servers (Filtered - More Columns Exist)



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

New

Clone

Delete

Showing 1 to 3 of 3 [Previous](#) | [Next](#)

<input type="checkbox"/>	Name 	Type	Cluster	Machine	State	Health	Listen Port
<input type="checkbox"/>	AdminServer(admin)	Configured		machine1	RUNNING	 OK	7001
<input type="checkbox"/>	server1	Configured	cluster1	machine1	SHUTDOWN		7011

Customizing a Table

Filter

Filter by Column: 2 Name Sort by this attribute. Criteria:

View

Column Display:

Available:

- ☒ Heap Size Current
- ☐ IIOP Enabled
- ☐ Invalid Login Attempts Total
- ☐ Invalid Login Users High
- ☐ JACC Enabled
- ☐ Java Version
- ☐ Listen Address

Chosen:

- ☐ Name
- ☐ Type
- ☐ Cluster
- ☐ Machine
- ☐ State

3 Move selected attributes from Available to Chosen.

Move all attributes from Available to Chosen.

4 Select a Chosen attribute and use these arrows to change its order in the table.

Number of rows displayed per page: 10 5 Maximum Results Returned: All

6

7

	Name	Type	Cluster	Machine	State	Health	Listen Port	Heap Size Current
<input type="checkbox"/>	AdminServer(admin)	Configured		machine1	RUNNING	✓ OK	7001	327024640

Admin Console Preferences

The screenshot shows the Oracle Admin Console interface. At the top, a navigation bar contains links: Home (with a house icon), Log Out, Preferences (with a hand cursor icon and a green circle labeled '1'), Record (with a bar chart icon), and Help. Below this, the 'Preferences' section is active. It features four tabs: 'User Preferences' (selected), 'Shared Preferences', 'Extensions', and 'WLST Script Recording'. A 'Save' button is located at the top left of the main content area, marked with a green circle labeled '2'. The main content area contains the following text: 'You can configure some features of the Administration Console by setting preferences. Use this page to specify preferences that will be in effect only for your user account.' Below this is a section titled 'User Preferences' with a blue horizontal line. It includes a checkbox labeled 'Show Inline Help' which is checked. Further down is a 'File Browser Start:' label followed by a text input field containing a backslash character. At the bottom, there is another checkbox labeled 'Remember Last Used Path' which is also checked.

Home Log Out Preferences Record Help

Home

1

Preferences

User Preferences Shared Preferences Extensions WLST Script Recording

Save 2

You can configure some features of the Administration Console by setting preferences.
Use this page to specify preferences that will be in effect only for your user account.

— User Preferences —

☒ Show Inline Help

File Browser Start: \

☒ Remember Last Used Path

Advanced Console Options

In the *Advanced* section of a screen, the console hides the options that are not frequently used.

The image shows two overlapping screenshots of a web console interface. The left screenshot shows a basic settings view with fields for 'Java Compiler' (set to 'javac') and 'Diagnostic Volume' (set to 'Low'). At the bottom, there is a tab labeled 'Advanced' with a right-pointing arrow, and a 'Save' button. A green circle with the number '1' is placed over the 'Advanced' tab, with a hand cursor pointing to it. The right screenshot shows the 'Advanced' section expanded, indicated by a downward-pointing arrow next to the 'Advanced' header. This section contains fields for 'Virtual Machine Name' (set to 'wlsadmin_AdminServer'), 'WebLogic Plug-In Enabled' (set to 'default'), and 'Prepend to classpath' (with an empty text box). A green circle with the number '2' is placed over the 'Virtual Machine Name' field.

Java Compiler:

Diagnostic Volume:

▶ **Advanced** 1

Save

▼ **Advanced**

Virtual Machine Name: 2


WebLogic Plug-In Enabled:

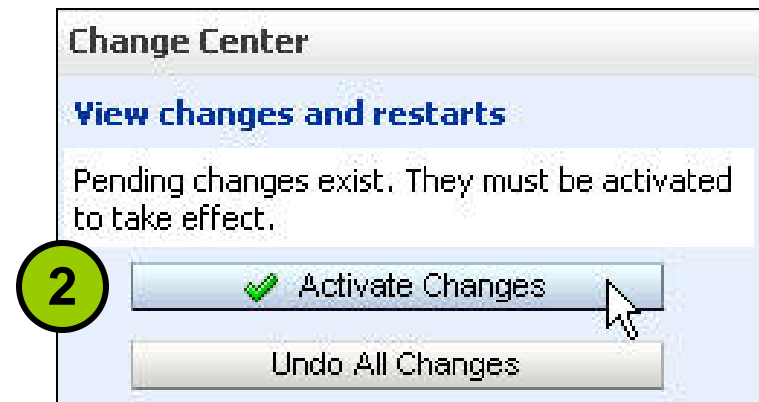
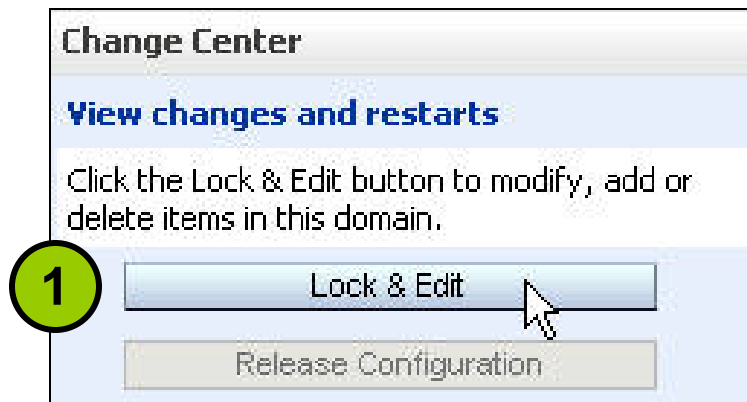
Prepend to classpath:

Administration Console Change Center

The domain configuration must be locked to change it.

1. Click the **Lock & Edit** button and make changes.
2. Click **Activate Changes** to commit those changes (or click **Undo All Changes** to undo them).

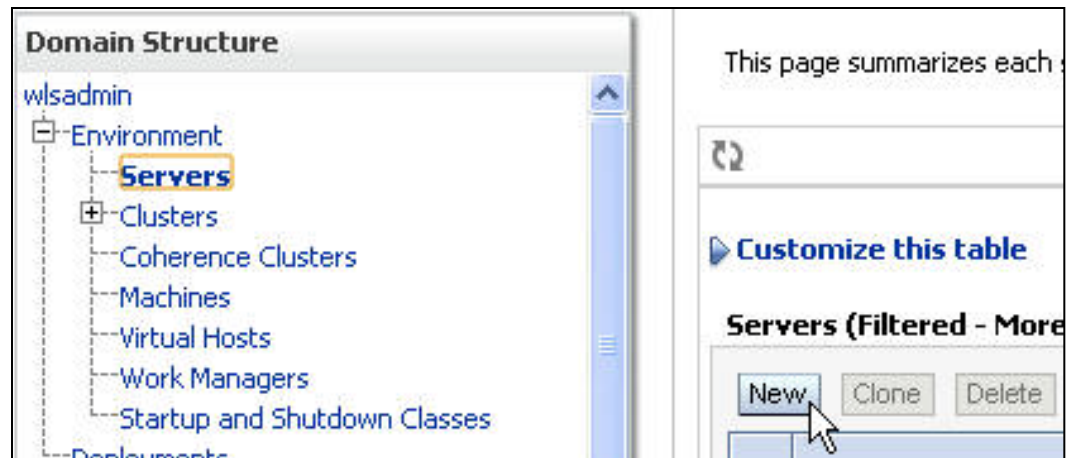
Some activated changes will not take effect until the server restarts. In the administration console, attributes that require a server restart are marked with this icon: 



Admin Console: Creating Domain Resources

The administration console can be used to create and configure:

- Servers
- Clusters
- Machines
- JMS servers
- JMS destinations
- JDBC data sources
- And more...



Find the type of resource under Domain Structure, click **Lock & Edit**, click the **New** button, enter the element's attributes, click **Save**, and then click **Activate Changes**.

Creating a Resource Example: New Server

To create a new server:

1 **Change Center**
View changes and restarts
Click the Lock & Edit button to modify, add or delete items in this domain.
Lock & Edit
Release Configuration

2 **Domain Structure**
wlsadmin
[-] Environment
[-] Servers
[-] Cluster

3 **Servers (Filtered - More)**
New Clone
Name
AdminServer(admin)
server1

4 **Create a New Server**
Back Next Finish Cancel
Server Properties
The following properties will be used to identify your new server.
* Indicates required fields
What would you like to name your new server?
* **Server Name:** server3
Where will this server listen for incoming connections?
Server Listen Address: host2.example.com
* **Server Listen Port:** 7003

Creating a Resource Example: New Server

To create a new server:

The screenshot illustrates the 'Create a New Server' wizard with three numbered steps:

- Step 5:** The 'Create a New Server' dialog box. It features a header bar with the title 'Create a New Server' and a green circle with the number '5'. Below the header are four buttons: 'Back', 'Next', 'Finish', and 'Cancel'. The 'Finish' button is highlighted with a mouse cursor. A horizontal dashed line separates the buttons from the main content area, which is titled 'Review choices'. Below this title, a message states: 'Review the selections. If these are correct, click Finish to create this server.' The main content area contains three labels and their corresponding values: 'Server Name:' followed by 'server3', 'Server Listen Address:' followed by 'host2.exe', and 'Server Listen Port:' followed by '7003'.
- Step 6:** The 'Change Center' dialog box. It has a header bar with the title 'Change Center' and a green circle with the number '6'. Below the header is a blue bar with the text 'View changes and restarts'. The main content area contains the text: 'Pending changes exist. They must be activated to take effect.' At the bottom are two buttons: 'Activate Changes' (with a green checkmark icon) and 'Undo All Changes'. A mouse cursor is pointing at the 'Activate Changes' button.
- Step 7:** The 'Messages' dialog box. It has a header bar with the title 'Messages' and a green circle with the number '7'. The main content area contains a green checkmark icon followed by the text: 'All changes have been activated. No restarts are necessary.'

Modifying a Resource Example: Server

To modify a server:

Change Center

View changes and restarts

Click the Lock & Edit button to modify, add or delete items in this domain.

1 Lock & Edit

Release Configuration

Domain Structure

wlsadmin

[-] Environment

2 Servers

[+] Cluster

Servers (Filtered - More)

New Clone Delete

<input type="checkbox"/>	Name ^
<input type="checkbox"/>	AdminServer(admin)
<input type="checkbox"/>	server1
<input type="checkbox"/>	server2
<input type="checkbox"/>	<u>server3</u>

New Clone Delete

3

Settings for server3

Configuration Protocols Logging

Security

4 General Cluster Services Keystore

Tuning Overload Health Monitoring

Name: server3

Template: (No value specified)

Machine: **5** (None) machine1 machine2

Cluster:

Modifying a Resource Example: Server

To modify a server:

Settings for server3

Configuration Protocols Logging Debug Monitor
Security Notes

General Cluster Services Keystores SSL Fe
Tuning Overload Health Monitoring Server Start

Save **6**

Use this page to configure general features of this server

Name: server3

Template: (No value specified) **Change**

Machine: machine2

Change Center

View changes and restarts

Pending changes exist. They must be activated to take effect.

7 **Activate Changes** **Undo All Changes**

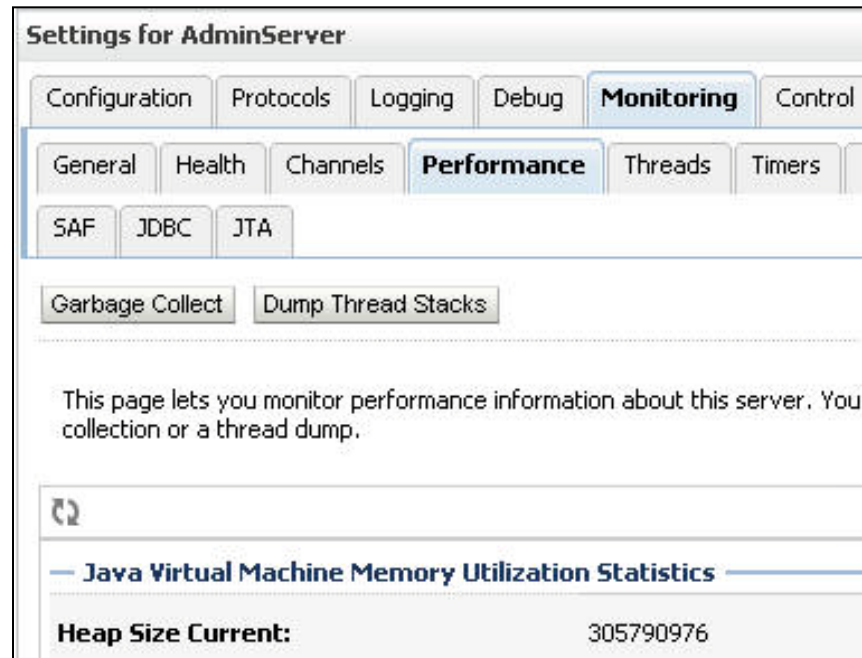
8 **Messages**

✓ All changes have been activated. No restarts are necessary.

Admin Console: Monitoring Domain Resources

The administration console can be used to monitor domain resources:

- Servers
- Clusters
- Machines
- Deployments
- JMS destinations
- JDBC data sources
- And more...



Find the type of resource under Domain Structure, select a particular resource, click the **Monitoring** tab (and perhaps a subtab).

Admin Console: Controlling Domain Resources

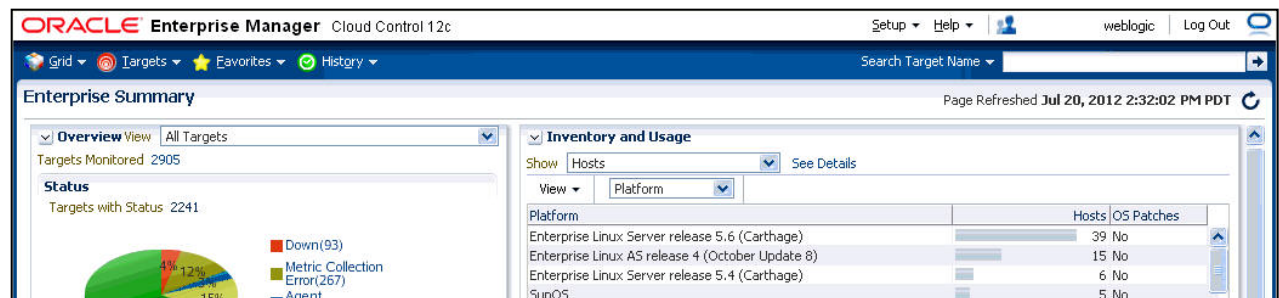
The administration console can also be used to control domain resources:

- Servers: Start, shut down, suspend, resume, and restart SSL
- Clusters: Control the servers in the cluster
- Deployments: Start or stop servicing requests
- JMS destinations: Pause or resume production, insertion, consumption
- JDBC data sources: Start, suspend, resume, shrink, reset, clear statement cache
- And so on

Find a resource type under Domain Structure, select a resource, click the **Control** tab, and select how to control it.

Enterprise Manager Cloud Control

- It is a tool for administering and monitoring your entire Oracle IT infrastructure, including FMW components.
- Cloud Control requires its own installation. (It is not installed as part of some other component.)
- Cloud Control supplies a web browser–based tool for administering and monitoring many Oracle components.
 - Unlike other WebLogic tools, Cloud Control allows you to administer multiple WebLogic domains.
- Cloud Control was called Enterprise Manager Grid Control in 11g.



Quiz

The default context path of the web application that is the administration console is: _____.

- a. admin
- b. em
- c. console
- d. weblogic

Quiz

In the administration console, to view information about a domain resource, first select that resource in the _____.

- a. Configuration tab
- b. Domain Structure
- c. Change Center
- d. Menu

Summary

In this lesson, you should have learned how to:

- Access the WebLogic Server administration console
- Create and configure servers by using the administration console

Practice 6-1 Overview: Using the Administration Console for Configuration

This practice covers the following topics:

- Accessing the administration console
- Using the admin console to configure domain resources
- Setting some admin console preferences