

## ORACLE

**Introduction to WLS Console** 

## **Two-Phase Configuration Changes**

- Changes activated in batches:
  - Reliability, consistency:
    - Make (related) changes as a group
    - Validate before making the change
    - Activate or Roll back as a single unit (all changes on all servers)
- General process:
  - Get an edit lock
  - make changes
    - changes are stored in the pending directory
  - activate your changes (with implicit validation through the Admin Console or WLST)
    - changes are distributed to servers in the domain
    - Two phases: prepare and commit
    - Prepared on all servers; any failures will cause total rollback

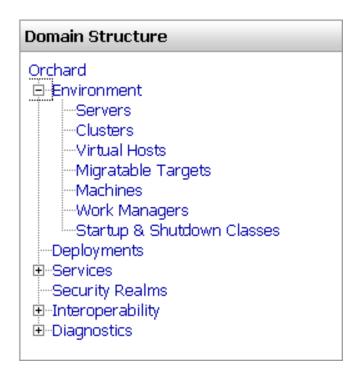
### **WLS Console**

- Deployed Lazily on Admin Server
  - http://adminserverHost:AdminServerPort/console
  - Manages a WebLogic Domain
    - Applications Deployment
    - Resource Management
    - Configuration Management
    - Lifecycle
    - Diagnostics



### **Change Center**

- Context sensitive
- Interact with Configuration Locks
- Optional in Development Mode



#### **Domain Structure**

- Navigation Tree
- Defined in jsp
- Supported by tag library
- Extensibility interface to extend



#### Context Sensitive Help

- Links to associated documentation for a console page
- Each portal page can define context key
- Serviced by help webapp

Welcome, weblogic Connected to: Orchard & Home Log Out Preferences 🔁 Record Help AskBEA

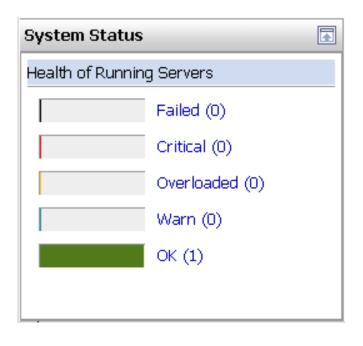
#### **Tool Bar**

- Identifies domain, user
- Links to common features
- Always present

Home > Summary of Servers > AdminServer > Summary of Migratable Targets

### **Breadcrumb Navigation**

- Trail of links to artifacts visited
- Only one entry created / artifact
- Last 10 artifacts
- Home page always present
- Not topology



### System Status

- Summary of current subsystem health
- Updated with each page refresh

#### Messages

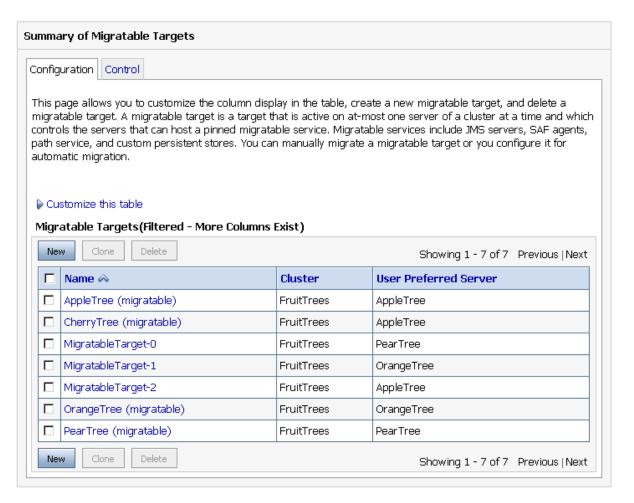
- A For server AdminServer, the Node Manager associated with machine Aldebaran is not reachable.
- A For server AppleTree, the Node Manager associated with machine Aldebaran is not reachable.
- A For server CherryTree, the Node Manager associated with machine Aldebaran is not reachable.
- All of the servers selected are currently in a state which is incompatible with this operation or are not associated with a running. Node Manager or you are not authorized to perform the action requested. No action will be performed.

### Message Portlet

- Messages resulting from an operation (ie, Start selected Servers)
- Consistent Feedback
- Only visible when messages present

#### Content Pane

- Table pages
- Configuration Pages
- Assistants



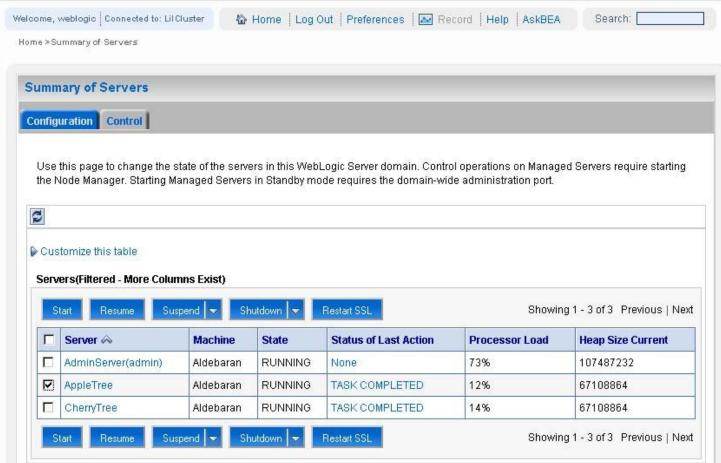


#### BEA WebLogic Server® Administration Console





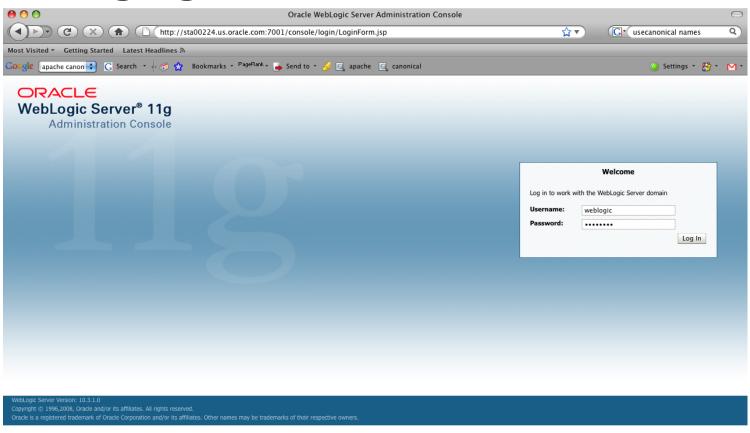




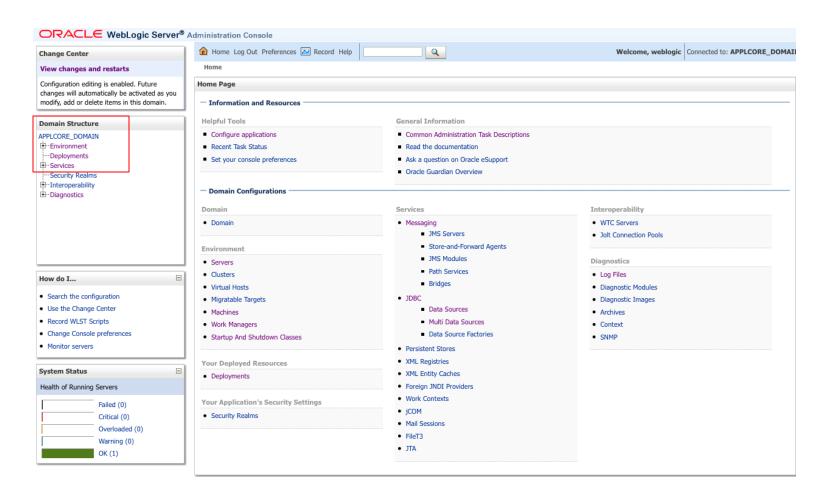
## **Examples**

• Examples 1: Changing a listen port

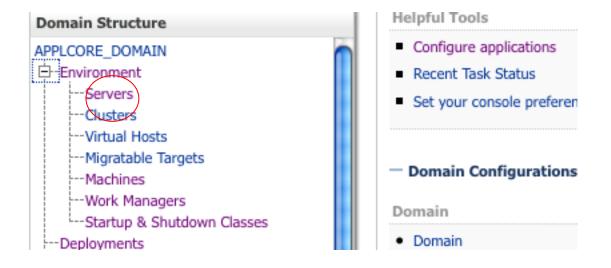
## **Changing Admin Server Listen Port**



## **Expand Environment Tree Node**



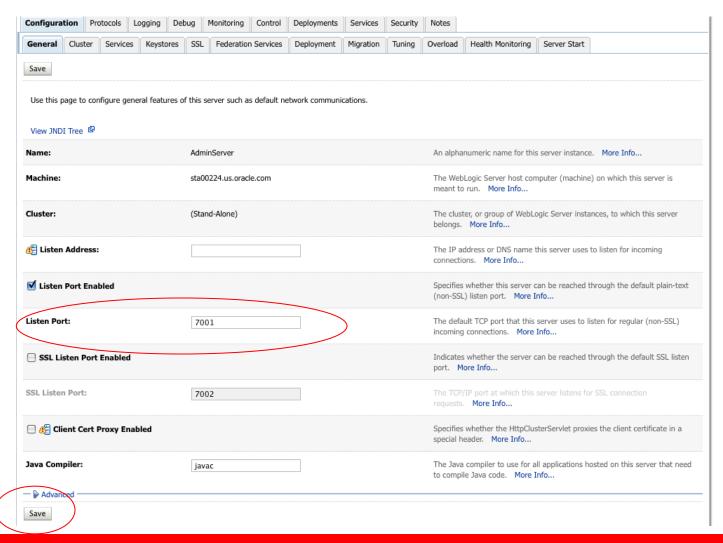
### **Click on Servers**



### Click on Admin Server Link



## **Change Listen Port Field and Save**



## Creating a machine via WLS Console

Home >Summary of Environment

#### Summary of Environment

WebLogic Server can host your applications on multiple server instances, each of which can run on a different computer and specify its own network address. You can also group servers into clusters to ensure that your applications are always available even if one server instance fails.

Use this section of the Administration Console to create, configure, and control servers and clusters.

Section	Description
Servers	A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.
Clusters	A cluster is a deployment in which multiple WebLogic Server instances (servers) run simultaneously and work together to provide increased scalability and reliability. A cluster appears to clients to be a single WebLogic Server instance. The servers that constitute a cluster can run on the same machine, or be located on different machines.
Virtual Hosts	A virtual host is a set of host names to which WebLogic Server instances (servers) or clusters respond. When you use virtual hosting, you use DNS to specify one or more host names that map to the IP address of a server or cluster. You also specify which Web applications are served by each virtual host.
Migratable Targets	A Migratable Target is a target that is active on at most one server of a cluster at a time.
Machines	A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). WebLogic Server uses configured machine names to determine the optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Administration Server uses the machine definition in conjunction with the Node Manager application to start remote servers.
Work Managers	A Work Manager defines a set of request classes and thread constraints that manage work performed by WebLogic Servers. J2EE Applications, Web Application Modules, EJBs, and RMI applications can specify a named work manager to use for managing their work requests.
Startup and Shutdown Classes	Startup and shutdown classes are Java programs that you create to provide custom, system-wide services for your applications. You add the classes to the WebLogic Server class path and then configure them to load and run when a server starts or shuts down.

## **Adding the New Machine**

New

Clone

Delete

Summary of Environment > Summary of Machines

A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). WebLogic Server uses configured machine names to determine the optimum server in a cluster to which certain tasks, such as HTTP session replication, are delegated. The Administration Server uses the machine definition in conjunction with Node Manager to start remote servers.

This page displays key information about each machine that has been configured in the current WebLogic Server domain.

Customize this table

Machines

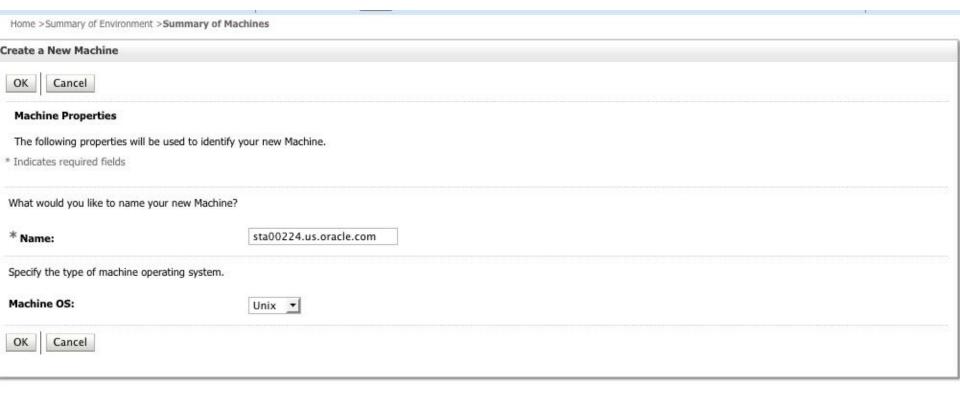
New Clone Delete Showing 0 to 0 of 0 Previous | Next |

Type

There are no items to display

Showing 0 to 0 of 0 Previous | Next

## **Inputting Machine Parameters**



### Completion

Home >Summary of Environment >Summary of Machines

#### Messages

- All changes have been activated. No restarts are necessary.
- Machine created successfully

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