Creating Additional Administrative Users

Users and Groups

- WLS Embedded LDAP
- – Security Realms
- – Configuring Users, Groups, and Roles

Security Realms

- A security realm is a collection of system resources and security service providers.
- Only one security realm can be active at a given time.
- A single security policy is used in any realm.
- Users must be recognized by an authentication provider of the security realm.
- Admin tasks include creating security realms.

What Is LDAP?

- The Lightweight Directory Access Protocol
- It is derived from X.500.
- It provides a hierarchical lookup service.
- It supports sophisticated searching.
- It can be secured via SSL.

Embedded LDAP Server

- In WLS, users, groups, and authorization information is stored in an embedded LDAP server.
- Several properties can be set to manage the LDAP server, including:
 - Credentials
 - Backup settings
 - Cache settings
 - Replication settings

Users and Groups

- Users are entities that use WLS such as:
 - Application end users
 - Client applications
 - Other WebLogic Servers
- Groups are:
 - Logical sets of users
 - More efficient for managing a large number of users

Configuring New Users

dministration Console				
🔂 Home Log Out Preferences 🔤 Record Help				
Home >Summary of Servers >AdminServe	er >Summary of Clusters >Summary of Servers >AdminServer >Roles >Policies >Summary of			
Create a New User				
OK Cancel				
User Properties				
The following properties will be used to * Indicates required fields	identify your new User.			
What would you like to name your new l	Jser?			
*Name:	soauser			
How would you like to describe the new	User?			
Description:	soauser			
Please choose a provider for the user.				
Provider:	DefaultAuthenticator 💌			
The password is associated with the logi	n name for the new User.			
Password:	••••••			
Confirm Password:	••••••			
OK Cancel				

Groups

• WLS provides the flexibility to organize groups invarious ways:

- Groups can contain users.
- Groups can contain other groups.

Configuring New Groups

Iministration Console					
🙆 Home Log Out Preference	es 🔤 Record Help				
Home >Summary of Servers >	AdminServer >Summary of Clusters >Summary of Servers >AdminServer >Roles >Policies >Sum				
Create a New Group					
OK Cancel					
Group Properties The following properties will * Indicates required fields	be used to identify your new Group.				
What would you like to name	your new Group?				
* Name:	soagroup				
How would you like to describ	e the new Group?				
Description:	soagroup				
Please choose a provider for the group.					
Provider:	DefaultAuthenticator 💌				
OK Cancel					

Adding Groups to Users

ministration Console					
🙆 Home Log Out Prefe	erences 🔤 R	Record He	elp	Q	Welcome,
Home >Roles >Policies >! Groups > soauser	Summary of Se	curity Rea	alms >myrealm >Users and G	iroups >soagrou	o >Summary of Security Realms
Settings for soauser					
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Save					
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ose this page to configu	are group men	ibership i	ior ans aser.		
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Available			Chosen		groups. More Into
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AppTesters CrossDomainConnector	's	1			
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Roles

- A role refers to a set of users who have the same permissions.
- A role differs from a group; a group has static membership; a role is conditional.
- A user and group can be granted multiple roles.
- There are two types of roles: global-scoped roles and resourcescoped roles.
- These global roles are available by default: Admin, Operator, Deployer, and Monitor.
- Roles defined in deployment descriptors can be *inherited*.
 - Occurs at deployment time
 - Can be disabled
- You can manage role definitions and assignments without editing deployment descriptors or redeploying.

Migrating Security Data

- You can export users/groups, security policies, security roles, or credential maps between security realms or domains.
- It is useful, for example, in transitioning from development to QA to production.
- You can use migration constraints (key/value pairs) to specify the export/import options.
- Currently the system only supports migrating security data between WLS security providers.

Virtual Host

- Have one or more Web addresses associated with them(Domain name and IP address)
- Allow you to make one Web server behave as if it were multiple servers
- Virtual hosting can be used to allow one Web server to host multiple internal and external corporate sites.
- It is often convenient to have the same Web server respond to requests for more than one domain name.

Understanding Virual host



Configuring Virtual Hosts

- 1. Create the virtual host in the administration console.
- 2. Target the virtual host to a server.
- 3. Target applications to the virtual host.
- 4. Resolve DNS names in a system host file.

Creating a Virtual Host

	Administration Console
Change Center	🚹 Home Log Out Preferences 🖂 Record Help
View changes and restarts	Home >myrealm >Users and Groups >Realm Roles >Realm Policies >DMS Application(11.1.1.1.0) >S Groups >Summary of Deployments > Summary of Virtual Hosts
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Create a New Virtual Host OK Cancel
Domain Structure	
soa_domain Soa_do	Virtual Host Properties The following properties will be used to identify your new Virtual Host * Indicates required fields What would you like to name your new Virtual Host? * Name: focusthread
Startup & Shutdown ClassesDeploymentsServicesMessagingJDBCPersistent Stores	OK Cancel
How do I	
Create a new virtual host	

Cluster in Networks

- WebLogic Server clusters can be created in three different kinds of networks:
 - Local Area Networks (LAN)
 - Metropolitan Area Networks (MAN)
 - Wide Area Networks (WAN)
- When you are configuring your cluster, you will need to keep in mind the type of network you are using.

LAN

- A local area network serves a local set of computers.
 - They usually use high quality, high-speed communication links.
 - Typical data transmission speeds are 100 megabits/second.
- Most clusters exist within a single LAN.

Metropolitan Area Networks

- A MAN is a network that usually spans a campus or a city.
- You can have different clusters located reasonably close to each other within a MAN.
- When using clusters within a MAN, you could distribute your servers through the different locations within the MAN, or you could create separate clusters in different parts of the
 - MAN.

Wide Area Networks

- A WAN usually spans a wider geographical area and can be made up of smaller MANs and LANs.
- You can have different clusters located in different regions within a WAN.
 - A cluster can be located in different LANs within a MAN or within a WAN.

Configuring a Cluster

- Preparing for a Cluster
 - Cluster License
 - Cluster Architecture
 - Network and Security Topology
 - Machines
 - Names and Addresses
- Configuring a Cluster

Preparing Your Environment

- Before you can configure a cluster, there are steps you need to take to prepare your environment.
- Obtain a cluster license.
- Determine your cluster architecture.
- Understand your network and security topologies.
- Choose the machines for the cluster installation.
- Identify IP Addresses or DNS names, and port numbers for the server instances in the cluster.

Cluster Architecture

- Will you be using a single tier or a multi-tier architecture?
- How are you going to do your load balancing?

 Are you going to use basic WebLogic server load balancing?

- Will you use a third-party load balancer?
- Are you going to use demilitarized zones with firewalls?

Network and Security Topology

- Will your cluster exist in a single LAN?
- Will your cluster span a MAN or a WAN?
- Depending on the network topology you choose, your security requirements will change.

 Some network topologies can interfere with multicast communications.

Avoid deploying server instances in a cluster across a firewall.

Security Options for Cluster Architectures

- For proxy architectures you could have:
 - A single firewall between untrusted clients and the Web server layer
 - A firewall between the proxy layer and the cluster
- When using a load balancer, in addition to the security features provided with the load balancer, you may want to place a firewall between it and untrusted clients.
- When you use a single database supporting both internal and external data:
 - Place an additional firewall in front of the database server

Hardware

- You may set up a cluster on a single, non-multihomed computer for demonstration or development.
 This is not practical for production environments.
- The machine cannot have a dynamically assigned IP address.
- There is no built-in limit for the number of server instances in a cluster.
 - The only limitation is your license.
 - Large, multi-processor servers can host large clusters.
 - The recommendation is one WebLogic Server instance for every two CPUs.

Cluster Configuration

Fusion Middleware Configuration Wizard		
Assign Servers to Clusters		ORACLE [.]
Select a cluster in the right pane. Then select the managed server(s) in Server	the left pane	and assign them to the cluster by clicking the right arrow button. Cluster
	•	soa_cluster1
	→	
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	l	Previous Next

Configure Machines for Soa

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	Mach	nine	Unix Machine				
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	1	Machine1		hyder-server			5556
→	2	Machine2		hyder-server2			5556
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Map servers and Machines

Fusion Middleware Configuration Wizard	
Assign Servers to Machines	ORACLE'
Select a machine in the right pane. Then select the server(s) in the left	pane and assign them to the machine by clicking the right arrow button.
Server	Machine
AdminServer	Machine Machine2 Machine2 Soa_server2
E_it Help	Revious Next

Configure E-Biz Datasource

- Using Oracle E-Business Suite Data Sources: AppsDataSource
- E-Biz Release 12.1.1, No prereqs required.
- Download from My Oracle Support and unzip the patch zip file. The zip file contains:
 - fndext.jar
 - HelloWorld.war (with source code)
 - README.txt (please note that the README.txt in the jar file is obsolete and is replaced by this document)
- Copy the extracted fndext.jar file to a directory such as /tmp/work/ on the external application server machine.

Steps to create a apps datasource

- Applying Patch 8571001
 - No prereqs for 1211
- 1.copy fndext.jar to \tmp\work
- 2. Register the External Node and Generate the Desktop DBC File
- 3. Configuring AppsDataSource
- 4. Register the External Node and Generate the Desktop DBC File

Configure required E-Biz user b

User Name 🛃	DSTEST1		Person			
Password			Customer			
Description			Supplier			
Status			E-Mail			
Password Expl	ration		Fax			
	Days		Eff	ective Dates		
	Accesses			From 10	APR-2010	
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Users page in the User Management responsibility

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(acampia: 26-Mar-2012)		
Active To		
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Rebuilding the fndext.jar file and configure appsdatasource

- Rebuild fndext.jar using ant utility
- configure the data source from within the WebLogic Administration Console.
- Navigate to the Oracle WebLogic Administration Console for your application server: http:// < your host > : < your port > /console
- Log in.
- Navigate to Domain Structure-->Services-->JDBC-->Data Sources

- Enter values for:
 - Database Name: (SID of Oracle E-Business Suite database)
 - Hostname (DB hostname)
 - Port (DB port)
 - DB username Enter the valid Oracle E-Business Suite username (created in <u>Set Up Necessary</u> <u>Oracle E-Business Suite Users</u>) in UPPERCASE. The user should have the 'APPS_SCHEMA_CONNECT' permission or 'UMX|APPS_SCHEMA_CONNECT' role as described above. You do not use the APPS schema name here.
 - Password for the Oracle E-Business Suite user

- In the Properties field, add a new property: dbcFile= < full path of your adminDesktop dbc file ftp'd to WLS >
- Click the Test Configuration button. You will get a message indicating that the test has succeeded or failed.
- If the connection test succeeds, click Next.
 Check the check box for the appropriate server, and click Finish.

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How do I	11 0412	jdbc oracle thin @hyder to	
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