

Preface

The guide walks you through an installation of ALES 3.0 and demonstrates how ALES can be used to secure an application. It is organized as follows:

- [“Overview” on page 1-1](#) gives an overview of the tutorials, describes the use-case scenario, and lists preliminary requirements.
- [“Tutorial 1: Installing ALES” on page 2-1](#) describes how to install the Administration Server and launch the Entitlements Management Tool.
- [“Tutorial 2: Defining Application Resources” on page 3-1](#) demonstrates how to define application resources in ALES.
- [“Tutorial 3: Creating Identities” on page 4-1](#) shows how to model application users in ALES using Identities (Groups and Users) and Roles.
- [“Tutorial 4: Creating a Role with a Membership Rule” on page 5-1](#) shows how to create a Role and a Membership Rule.
- [“Tutorial 5: Creating Authorization Policies” on page 6-1](#) leads you through the creation of two Authorization policies.
- [“Tutorial 6: Generating Policy Reports” on page 7-1](#) shows how to generate policy reports to audit and verify the policies in place.

Preface

Overview

- This section contains the following topics:
- [“Scenario” on page 1-1](#)
- [“Requirements” on page 1-2](#)

Scenario

This document provides five tutorials that collectively demonstrate some of the basic steps involved in securing applications using ALES 3.0.

The tutorials address a simple, yet realistic use-case scenario. The Admissions Department at Parker Hospital maintains a web-based Patient Roster that provides information about currently admitted patients. Using ALES, the Patient Roster can be secured by policies that control who may access it, under what conditions, and what rights they have when they do so.

In successive steps the tutorials demonstrate how to install the Administration server, launch the Entitlements Management Tool, and use it to:

- Define the Patient Roster in ALES.
- Define Users and Groups that model who uses the Patient Roster.
- Define a Membership rule that assigns a Role used to secure the Patient Roster.
- Define Authorization policies that secure access to and privileges on the Patient Roster.
- Audit and monitor the policies in place.

Requirements

In order to follow the tutorials, you must first install a supported servlet container and database.

Servlet Containers:

- WebLogic Server 10.0 MP1, 9.2 MP2, or 8.1 SP5/SP6
- Apache Tomcat 5.5.23

Databases:

- Oracle 9.2.0.5, 10.1.2, 10.2.0.2
- Sybase 12.5.3, 15
- MS-SQL 2000 & 2005 (with MS-SQL 2005 driver)
Note: MS-SQL 2000 driver is not supported.
- PointBase 5.1
- IBM DB2 Universal DB Enterprise Server 9.1

For detailed information about supported products, see the [Administration Server Installation Guide](#).

Tutorial 1: Installing ALES

This section contains the following topics:

- [“Overview” on page 2-1](#)
- [“Obtain the Database Configuration Tool” on page 2-2](#)
- [“Run the Database Configuration Tool” on page 2-2](#)
- [“Install the Administration Server” on page 2-4](#)
- [“Start the Server and Launch the Entitlements Management Tool” on page 2-7](#)
- [“Summary” on page 2-8](#)

Overview

This tutorial walks you through installation of the ALES 3.0 Administration Server. At the completion of this task, you’ll be able to start the server and launch the Entitlements Management Tool.

Note: In order to follow the steps in this tutorial, you must have already installed the servlet container and the database.

After installing the database used as the policy store, you must add a user account that is needed to run the Administration Server installation program. This is performed with tool that is downloadable from a BEA web site.

Obtain the Database Configuration Tool

To obtain the program:

1. Open a browser and go to ALES 3.0 download site.
2. Click the [AquaLogic Enterprise Security 3.0](#) link.
3. On the next page, click the [AquaLogic Enterprise Security Database Configuration Tool](#) link.
4. On the ensuing pages, complete as required and download one of the following files:

Windows—ales300_DBConfigTool_Win32.zip

UNIX/Linux—ales300_DBConfigTool_unix.tar.gz

Run the Database Configuration Tool

After obtaining the file, unzip and run it as follows:

1. Open `DBConfig.bat|sh` in an editor and set the following properties:
 - `JAVA-HOME` — specify the fully-qualified path to a JDK.
 - `INSTALL_HOME` — specify the fully-qualified path to the directory where you unzipped `ales300_DBConfigTool_Win32.zip` or `ales300_DBConfigTool_unix.tar.gz`.
 - `DB_JDBC_DRIVER_LOC` — For Pointbase and MSSQL, specify the fully-qualified path to the JDBC driver. (This is not required for Oracle or Sybase databases.)

Examples:

(Pointbase) `C:\bea\weblogic92\common\eval\pointbase\lib\pbclient.jar`

(MS-SQL) `C:\Program Files\Microsoft SQL Server 2005 JDBC Driver\sqljdbc_1.2\enu\sqljdbc.jar`

2. Enter `dbconfig.bat` or `dbconfig.sh` on a command line. The program issues a number of prompts to answer.
3. Respond to the prompts as described in the table below:

Prompt	Description
Please input DB type<oracle sybase mssql pointbase>	Enter one of the database names listed.
Please input JDBC URL	Enter the JDBC URL for the database server. Oracle—jdbc:oracle:thin:@<server>:<port>:<sid> Sybase— jdbc:sybase:Tds:<server>:<port> Sql Server— jdbc:sqlserver://<server>:<port> Pointbase—jdbc:pointbase:server://<server>/ales <server>—name or IP address of database machine <port>—port where the database listener is running <sid>—database SID of Oracle database
Please input JDBC Driver	Enter the JDBC driver used to connect to the database. Oracle—oracle.jdbc.driver.OracleDriver Sybase—com.sybase.jdbc3.jdbc.SybDriver Sql—com.microsoft.jdbc.sqlserver.SQLServerDriver Pointbase—com.pointbase.jdbc.jdbcUniversalDriver
Please input new database user name	Enter a username for the account being created.
Please input new database user password	Enter a password for the new user.
Please input database admin username (not required for Pointbase)	Enter the database administrator user name.
Please input database admin password (not required for Pointbase)	Enter the database administrator password.

4. The script runs and displays messages like the following:

```
-- Configuring table space [ales_oracle]
** Tablespace [ales_oracle] exists in DB server. Continuing with
the same.
-- Creating new user [ales_db_admin] .....Done
-- Configuring ALES role [asi_role]
```

```
-- Assigning privs to ALES role .....Done
-- Assigning privs to new user [ales_db_admin].....Done
-- Closing down connection
-- Successfully created ALES Database Account --
```

At the completion of these steps, you may install the Administration Server. See the next section for instructions.

Install the Administration Server

1. Start the installation program using one of the options described below:

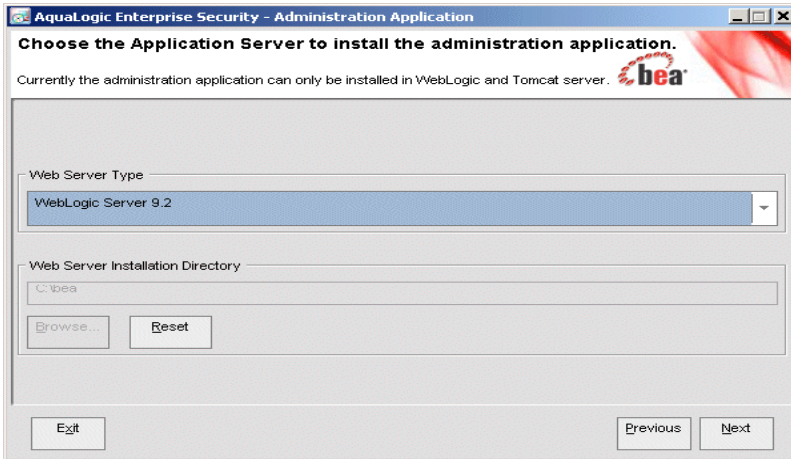
Platform	Command
Windows	<code>ales300admin_win32.exe</code>
Sun Solaris	<ol style="list-style-type: none">1. Change the protection on the install file by entering: <code>chmod u+x ales300admin_solaris32.bin</code>2. Enter: <code>./ales300admin_solaris32.bin</code>
Red Hat	<ol style="list-style-type: none">1. Change the protection on the install file by entering: <code>chmod u+x ales300admin_linux32.bin</code>2. Enter: <code>./ales300admin_linux32.bin</code>

2. On the **Welcome** window, click **Next**.



3. On the **BEA License Agreement** window, select **Yes** and click **Next**.
4. On the **Choose BEA Home Directory**, accept the default directory and click **Next**.
5. On the **Choose Product Installation Directories**, accept the default and click **Next**.
6. On the **Choose Service Control Manager Directory**, accept the default and click **Next**.
7. On the **Choose Application Server**, select the servlet container you are using (WebLogic or Tomcat) and then specify the web server directory and click **Next**.

WARNING: When using Tomcat, the directory name cannot contain spaces.



8. On the **Choose Network Interfaces** window, accept the default and click **Next**.
9. On the **Configure Administration Application** window, accept the default and click **Next**.
10. On the **Choose JDK** window, accept the default and click **Next**.
11. On the **Configure Database Connection**, select your database type from the **Database client** dropdown list. Then complete the following fields and click **Next**.

JDBC URL—Replace the bracketed values. These vary by database type:

- <**SERVER**>—name/IP address of the database machine
- <**PORT**>—port number where the database listener is running
- <**INSTANCE**>—instance name to connect to on <server>
- <**SID**>—database SID of Oracle database

JDBC driver—Accept the default

Driver location—If required, browse to and select the driver location.

Login ID—user created using the database setup script described in [“Run the Database Configuration Tool” on page 2-2](#).

12. On the **Key Protection Password Selection** window, select **Generate Random Password** and click **Next**.

The program takes several minutes to install the files and displays a status bar showing progress.

13. On the **Installation Complete** window, click **Done**. This page indicates the Administration Server completed successfully.

Start the Server and Launch the Entitlements Management Tool

To start the Administration Server on Windows:

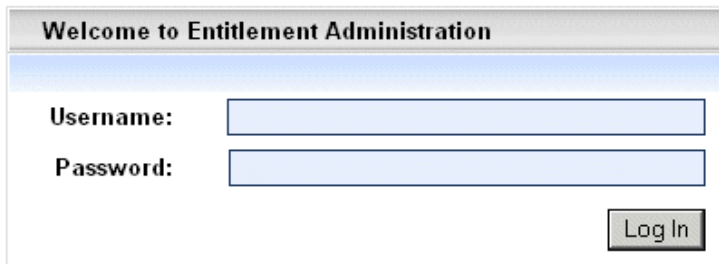
1. From the Windows Start Menu, select **Programs > BEA Aqualogic Enterprise Security > Administration Server > Start Server**.

This opens a DOS box that gives information about the start process, which can take several minutes. When the server starts, a message like the following appears:

```
The ALES WLS.<server_name> service was started successfully.
```

2. Open Internet Explorer and go to **https://localhost:7010/entitlementsadministration**.

When you see a message about the security certificate being used, click **Yes** to display the the log on window.



The screenshot shows a web browser window titled "Welcome to Entitlement Administration". It contains a login form with two text input fields. The first field is labeled "Username:" and the second is labeled "Password:". To the right of the "Password:" field is a button labeled "Log In".

3. In the **Username** field, enter `system`. Then enter `weblogic` in the **Password** field and click **Log In**. You'll then see Entitlement Management Tool's main window.

Tutorial 1: Installing ALES



Summary

This tutorial walked you through a basic installation of the Administration Server and showed how to start the server and launch the Entitlements Management Tool.

The next tutorial will demonstrate how to define application resources in ALES.

Tutorial 2: Defining Application Resources

This section contains the following sections:

- [“Overview” on page 3-1](#)
- [“Scenario” on page 3-1](#)
- [“Create the Resources” on page 3-3](#)
- [“Save the Resources” on page 3-5](#)
- [“Summary” on page 3-6](#)

Overview

In order to secure an application using ALES, the application’s resources must be defined in the ALES database. In many cases, application resources are defined using a hierarchical tree of Resources.

The Resource tree used to define application resources may be simple or quite detailed. This depends solely on the application being secured and policy model used to secure it.

Scenario

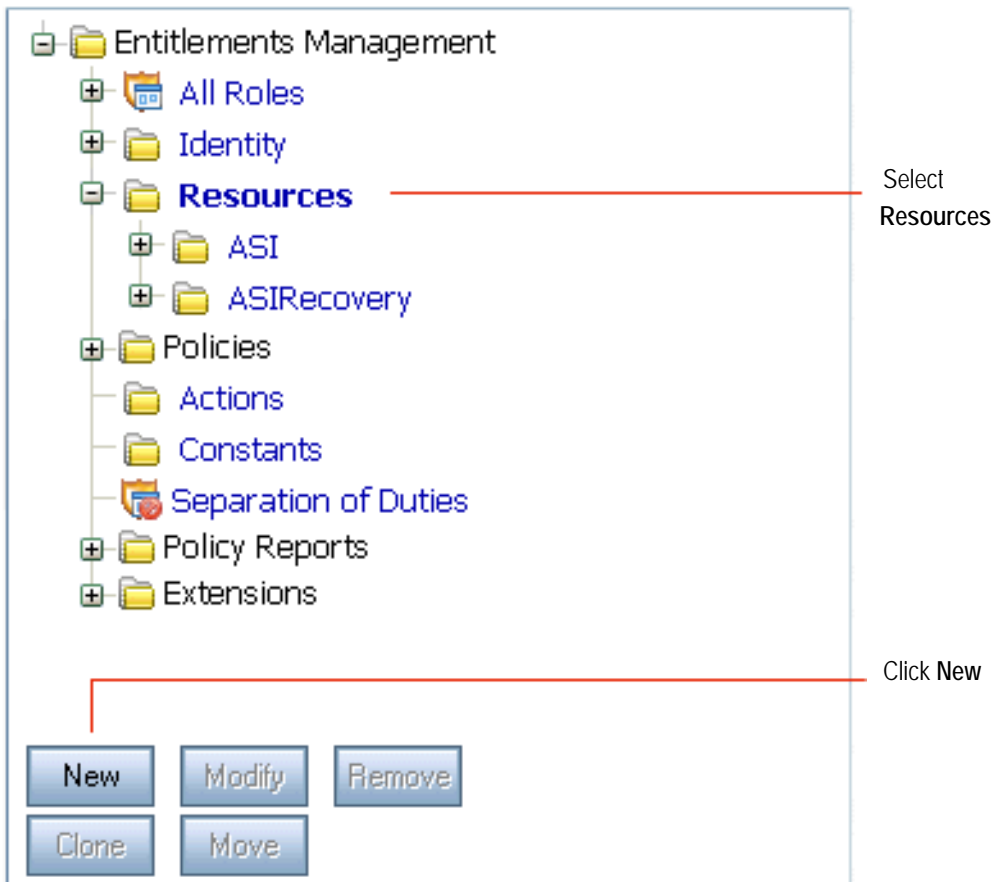
This tutorial leads you through the steps of creating a simple Resource tree to represent the Admission System’s patient roster as described in [“Scenario” on page 1-1](#).

Tutorial 2: Defining Application Resources

Resource	Description
ParkerHospital	Represents the entire hospital in ALES.
AdmissionsSystem	Represents the Admissions System in ALES.
roster_index.jsp	Represents the JSP page that provides the Patient Roster data.

Create the Resources

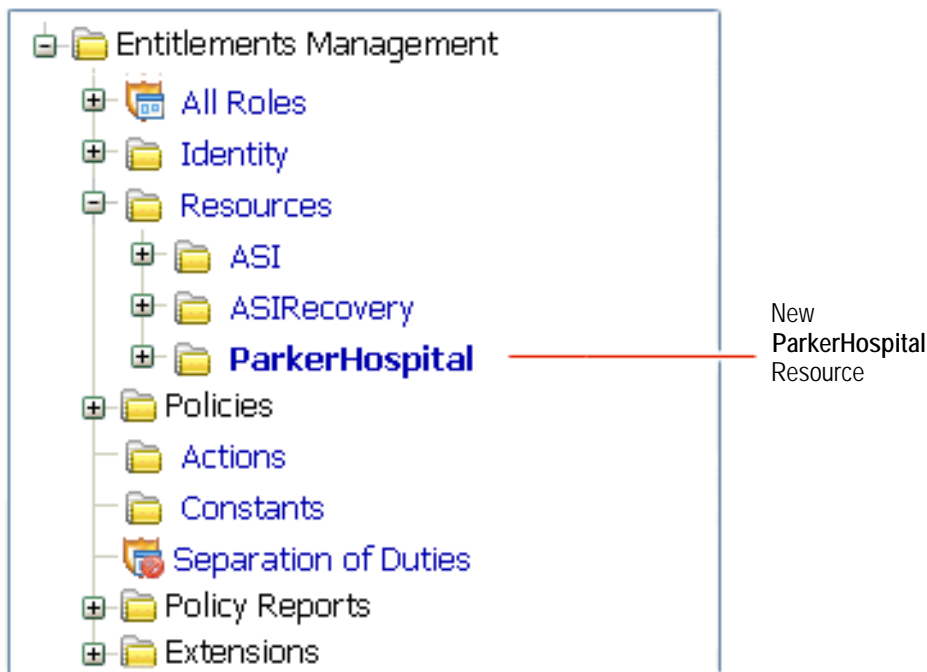
1. If you have not already done so, start the Administration Server and launch the Entitlements Management Tool.
2. In the left navigation pane, select the **Resources** node and click **New** at the bottom of the pane.



3. On the **New Child Node** window, enter `ParkerHospital` in the **Name** field and select the **Allow Virtual Resource** checkbox. Then click **OK**.

Tutorial 2: Defining Application Resources

This returns you to the main window where you'll see **ParkerHospital** appearing as a new resource under the **Resource** node.



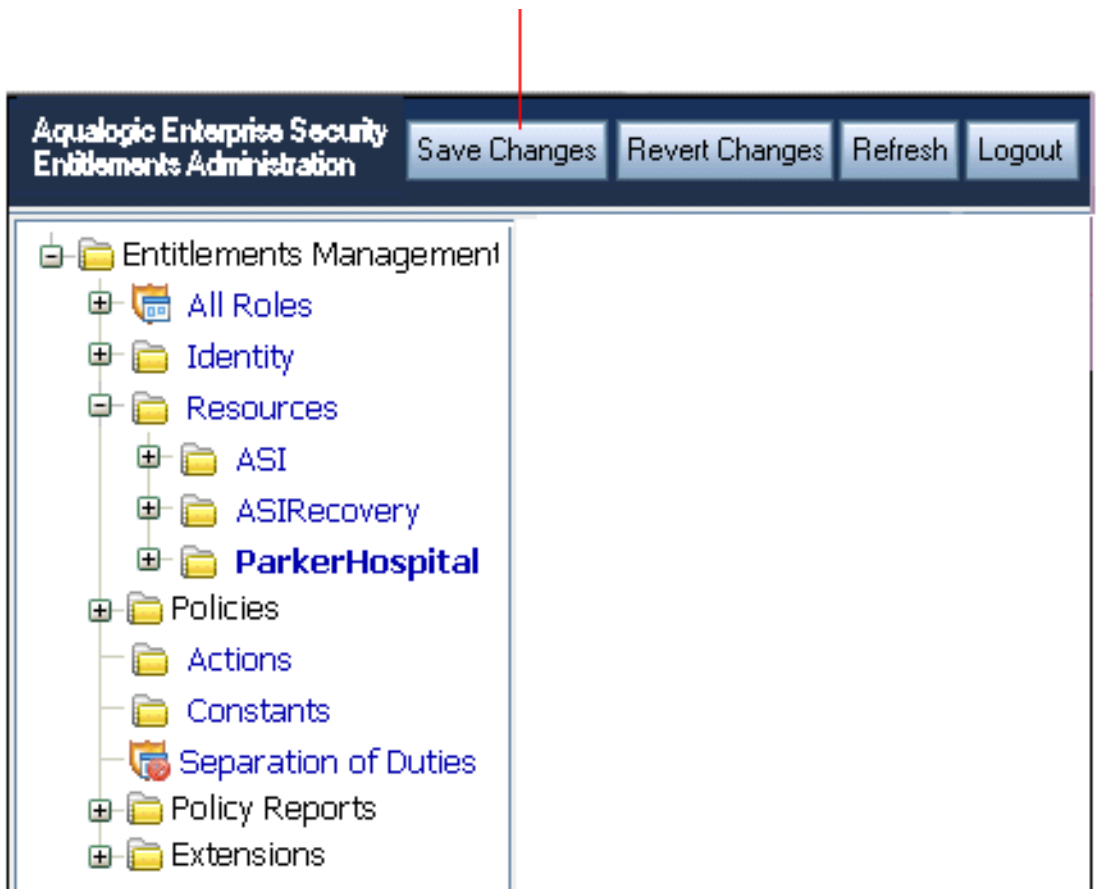
4. Returning to the left navigation pane, select the new **ParkerHospital** resource and click **New**.
5. On the **New Child Node** window, enter `AdmissionsSystem` in the **Name** field and check the **Allow Virtual Resource** checkbox. Then click **OK**.
6. Returning to the left navigation pane, select the new **AdmissionsSystem** resource and click **New**.
7. On the **New Child Node** window, enter `url` in the **Name** field and check the **Allow Virtual Resource** checkbox. Then click **OK**.
8. Returning to the left navigation pane, select the new **url** resource and click **New**.
9. On the **New Child Node** window, enter `roster_index.jsp` in the **Name** field and click **OK**.

Note that `roster_index.jsp` would be the actual name of the web page where users access the patient roster.

Save the Resources

After creating the Resources as described, return to the main window and click **Save Changes**.

Click Save Changes



Summary

This tutorial showed how to create the Resource tree needed to define the Admissions System's patient roster. When complete, the Resource tree should look like this:



The next tutorial demonstrates how to create Identities (Groups and Users) to represent the Patient Roster users.

Tutorial 3: Creating Identities

This section contains the following topics:

- [“Overview” on page 4-1](#)
- [“Scenario” on page 4-2](#)
- [“Create the Users” on page 4-2](#)
- [“Create the Groups” on page 4-6](#)
- [“Save the Identities” on page 4-8](#)
- [“Summary” on page 4-8](#)

Overview

In addition to defining the application resources in ALES, the users of the application must also be defined. Depending on the security model being used to secure the application, this may be as simple as defining an Anonymous user to represent anyone or it may involve defining of multiple roles or groups containing many users.

Scenario

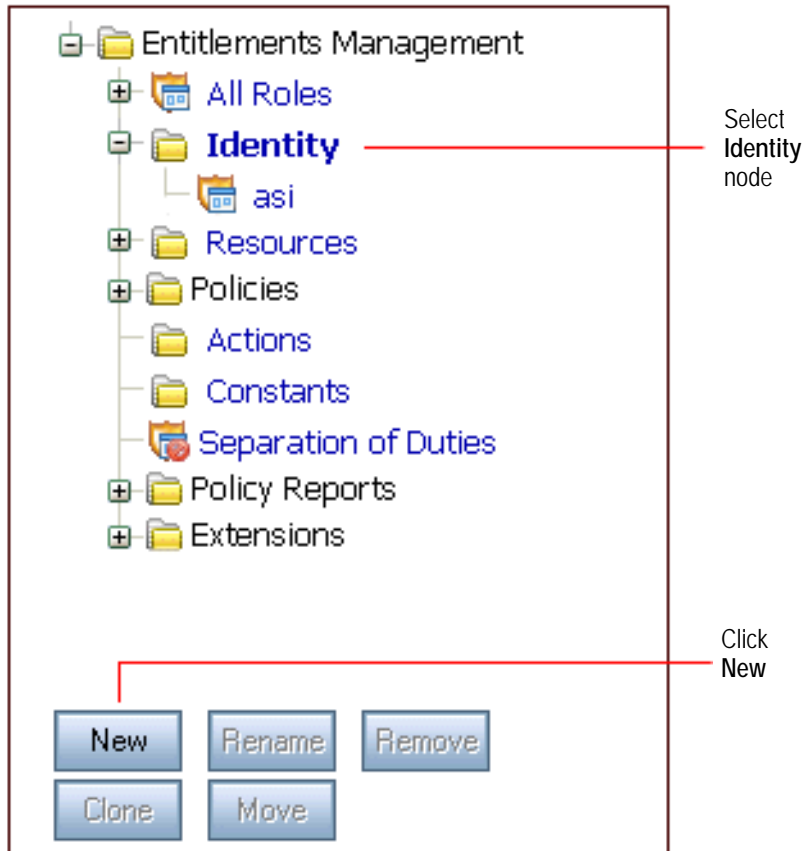
This section walks you through the steps of creating the Identities (Groups and Users) needed to represent users of the Admissions System's Patient Roster.

Type	Name	Description
Users	John Kildaire	A doctor who is a member of the Doctor's group. He requires <i>View</i> access to the Admissions System.
	Harold Hopkins	An Admissions System operator who is a member of the AdmissionsOperator group. To add and remove names from the Admissions System's patient roster, he requires <i>View</i> and <i>Edit</i> access.
Groups	Doctors	All doctors at Parker Hospital.
	AdmissionsOperators	All Admissions System operators.

Create the Users

1. If you have not already done so, start the Administration Server and launch the Entitlements Management Tool.

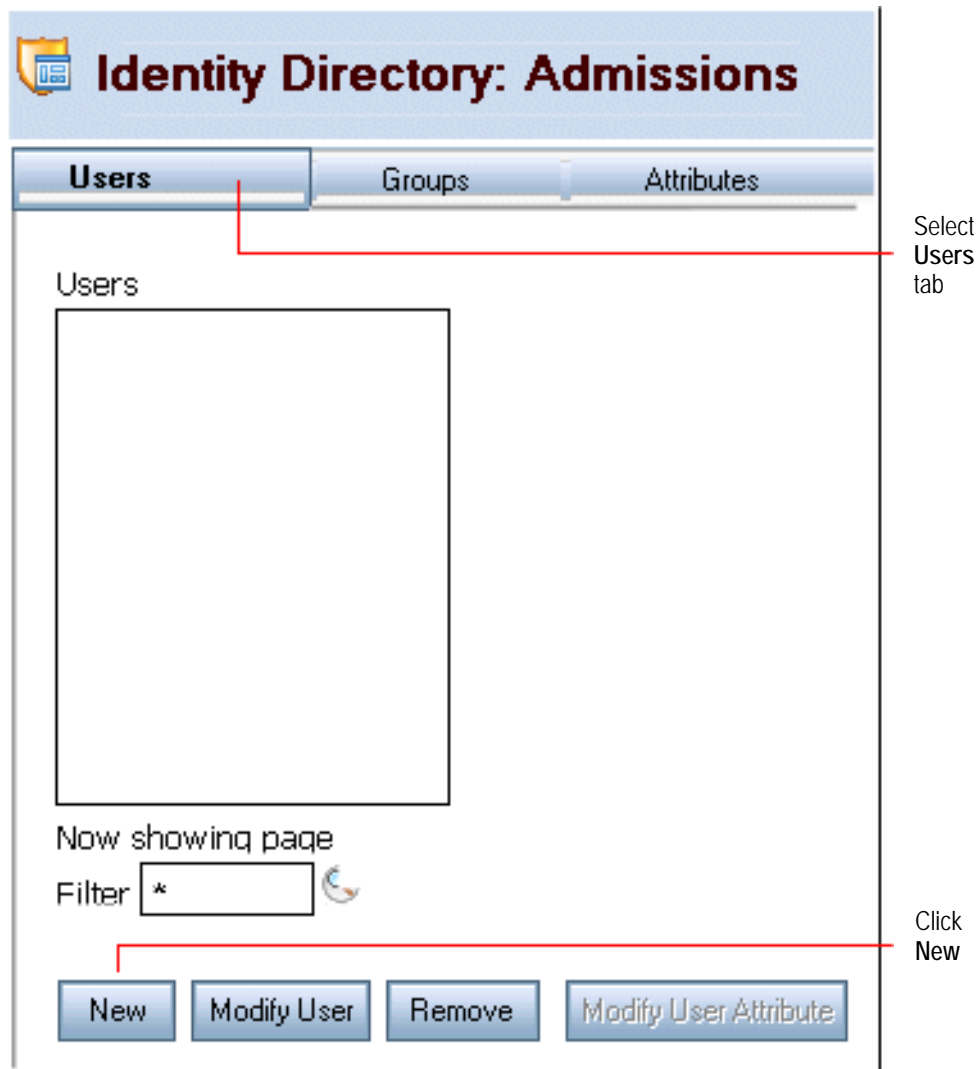
2. In the left navigation pane, select the **Identity** node and click **New** at the bottom of the pane.



3. On the **New Identity Directory** window, enter `Admissions` and click **OK**.

Note: In most cases, you should create a separate Identity directory for an organizational domain. In this example, the Admissions directory could be used for all Parker Hospital employees.

4. When you return to the main window, select the new **Admissions** directory in the left pane. Then select the **Users** tab in the right pane and click **New** at the bottom.

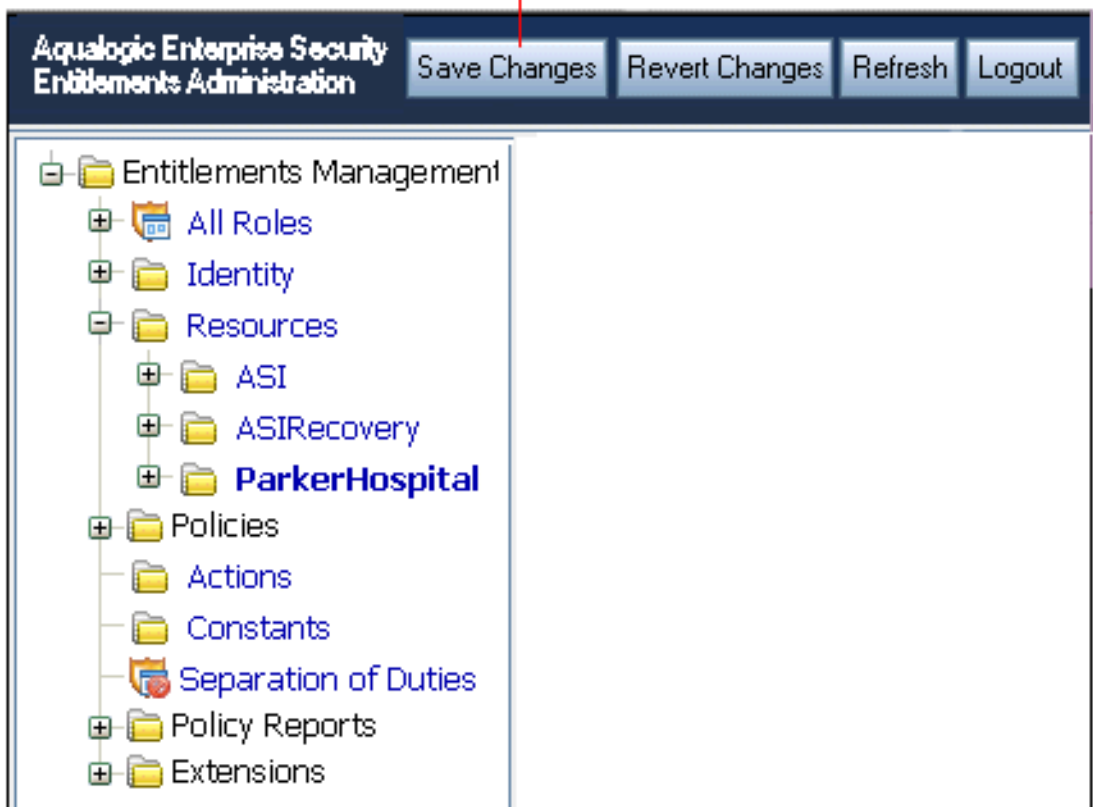


5. On the **New User** window, enter `John Kildaire` in the **User Name** field and complete the two password fields using any six-character string. Then click **OK**.

This returns you the **Admissions Identity** page and shows John Kildaire as a new user.

6. To create the Harry Hopkins user, click **New** in the right pane. Then enter `Harry Hopkins` and the passwords and click **OK**.
7. To save your work, click **Save Changes** at the top of the main window.

Click Save Changes

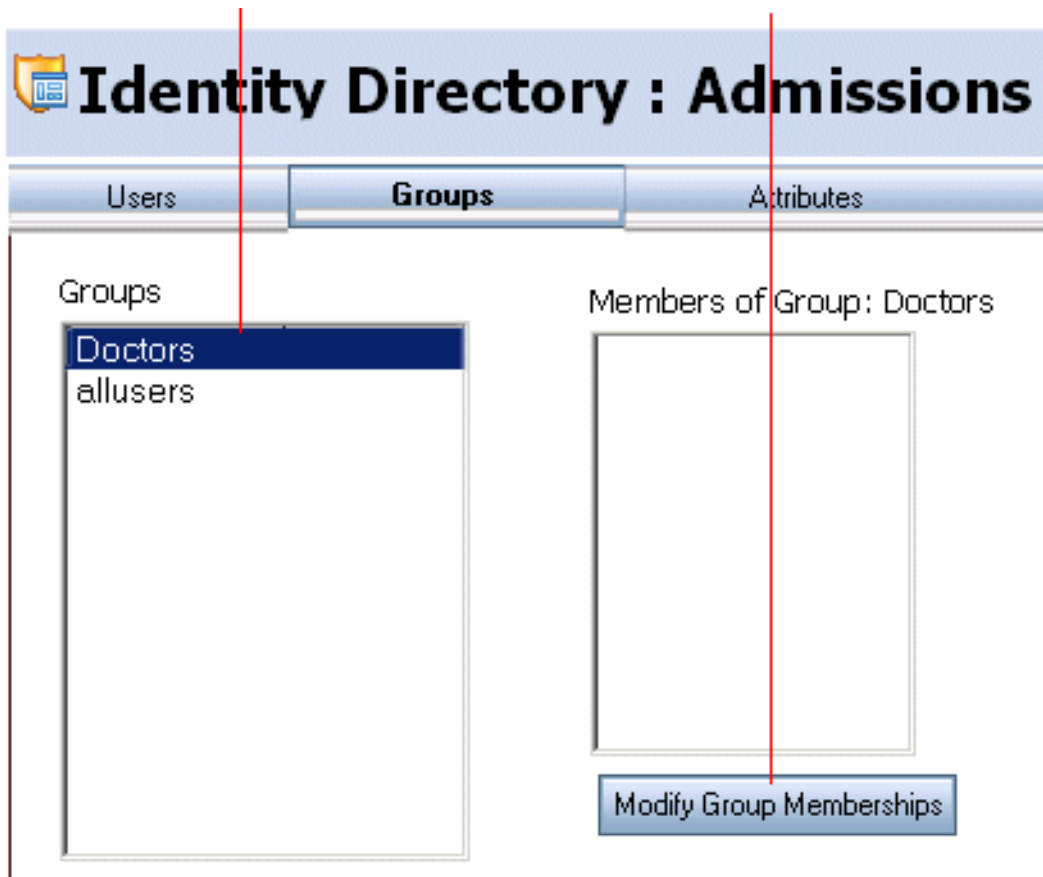


Create the Groups

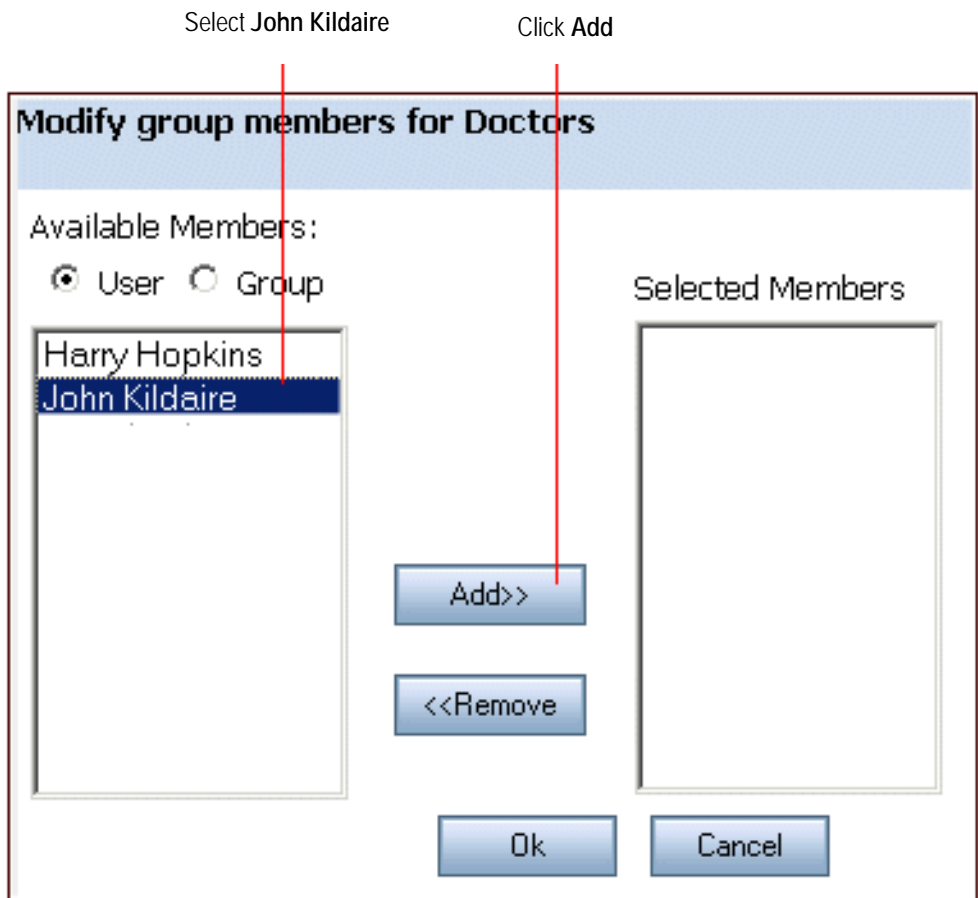
1. Returning to the left navigation pane, select the new **Admissions** directory in the left pane. Then select the **Groups** tab in the right pane and click **New** at the bottom.
2. On the **New Group** window, enter **Doctors** in the **Group Name** field and click **OK**.
3. To add John Kildaire to this Group, select **Doctors** in the Group list and then click **Modify Group Membership**.

Click
Modify Group Membership

Select
Doctors group



4. On the **Modify Group Members** window, select **John Kildaire** and click **Add**.



5. Then use the same steps to add Harold Hopkins to the **AdmissionsOperators** group.

Save the Identities

After creating the Users and Groups described, return to the main window and click **Save Changes**.

Summary

This tutorial showed how to create the Groups and Users needed to represent users who access the Admissions System Patient Roster.

In the next tutorial, you will learn how create a Role with a Membership Rule.

Tutorial 4: Creating a Role with a Membership Rule

This section contains the following sections:

- [“Overview” on page 5-1](#)
- [“Create the Role Using a Membership Policy” on page 5-2](#)
- [“Save the Role” on page 5-4](#)
- [“Summary” on page 5-5](#)

Overview

This section walks you through the steps of creating a Role using a Membership Rule. A Role is essentially a collection of permissions that are granted the Users who are assigned to it. It also defines how, when, and under what constraints the Role is assigned.

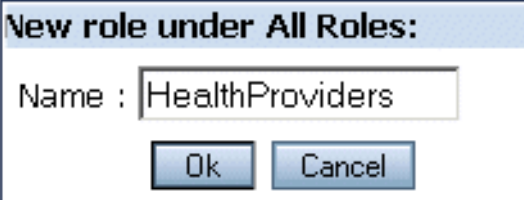
In ALES 3.0, the inheritance pattern of Roles can be configured so that a User assigned to a parent Role also inherits any child Roles (so long as this is not prohibited by other policies).

The Role created in this tutorial is named **HealthProviders**. The Membership Rule assigns all members of the **Doctors** group to this Role.

Create the Role Using a Membership Policy

You can create a Role and Membership Rule using either the **All Roles** or the **Membership Rules** node. In this example we use **All Roles**.

1. In the left navigation pane, select the **All Roles** node and click **New** at the bottom of the pane. This opens the **New Role** window.

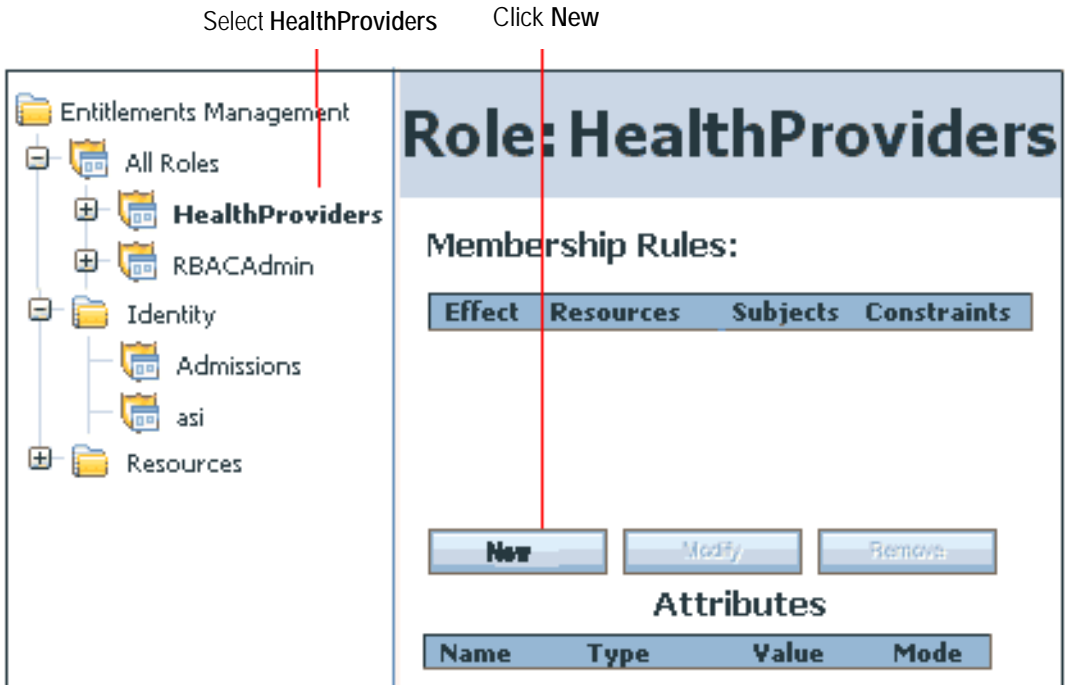


New role under All Roles:

Name : HealthProviders

Ok Cancel

2. On the **New Role** window, enter `HealthProviders` in the **Name** field and click **OK**.



3. To create the Membership Rule that assigns the **Doctors** group to this Role, select **HealthProviders** in the left pane so that it displays at the top of the right pane. Then click **New** under **Membership Rules** in the right pane. This opens the **New Membership Rule** window.

Tutorial 4: Creating a Role with a Membership Rule

Modify Membership Rule

Effect Grant Delegate Deny

Subjects Constraints Summary

Select Policy Subjects From:
GROUP

Choose the identity directory:
Admissions

Available Subjects
AdmissionsOper
Doctors
allusers

Selected Subjects:
GROUP:Admissi

Add>>
<<Remove

Ok Cancel

4. On the **New Membership Rule** window, select the **Grant** radio button. Make sure that **Group** displays in the **Select Policy Subjects From** field and that the **Admissions** group displays in the **Choose Identity Directory** field. Then select the **Doctors** group in the **Available Subjects** list and click **Add**.

For this tutorial, we won't add any more information to the Membership Rule. But if you want to, you can specify that this rule applies only to the Patient Roster. If you would like to do this, click **Show More** at the top of the **Modify Rule Membership** window. This adds the **Resources** tab to the window where you can drill down and select **roster_index.jsp**, the Resource representing the Patient Roster.

5. Click **OK** to save the Membership Rule.

Save the Role

After creating the Role as described, click **Save Changes** at the top of the main window.

Summary

This tutorial showed how to create a Role and define its membership using a Membership Rule. The next tutorial shows how to define Authorization policies. One of these policies will make use of the **HealthProviders** Role to grant access to the Patient Roster.

Tutorial 4: Creating a Role with a Membership Rule

Tutorial 5: Creating Authorization Policies

This section contains the following sections:

- [“Overview” on page 6-1](#)
- [“Scenario” on page 6-1](#)
- [“Create Authorization Policy 1” on page 6-3](#)
- [“Create Authorization Policy 2” on page 6-5](#)
- [“Save the Policies” on page 6-5](#)
- [“Summary” on page 6-6](#)

Overview

Once you define the necessary Resources, Roles, and Identities (Groups and Users), you can make use of them in the Authorization Policies. An Authorization Policy specifies who can access a resource and what rights they have when they do so.

Scenario

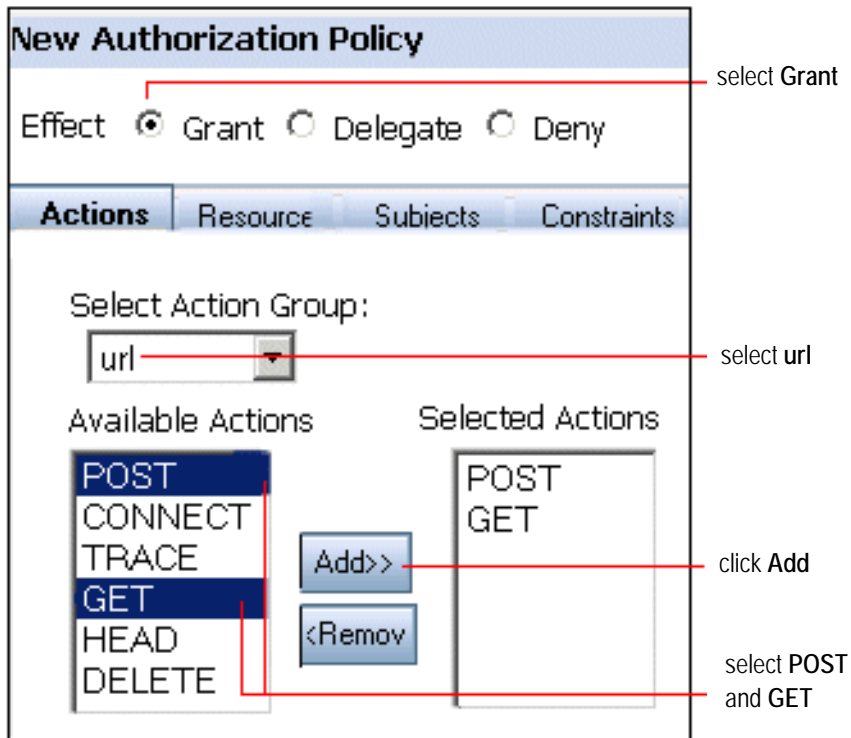
Two Authorization policies will be used to define access to the patient roster:

Tutorial 5: Creating Authorization Policies

Policy	Description
Authorization Policy 1	<p>This policy allows any user in the AdmissionsOperators group to view and edit the Patient Roster. Since the roster is a JSP page, required access rights are <i>POST</i> and <i>GET</i>.</p> <p>Effect: Grant</p> <p>Actions: GET, POST</p> <p>Subjects: AdmissionsOperators</p> <p>Resources: policy/ParkerHospital/Admissions/url/roster_index.jsp</p>
Authorization Policy 2	<p>This policy allows any user in the HealthProviders Role to view the roster.</p> <p>Effect: Grant</p> <p>Actions: GET</p> <p>Subjects: HealthProviders role</p> <p>Resources: policy/ParkerHospital/Admissions/url/roster_index.jsp</p>

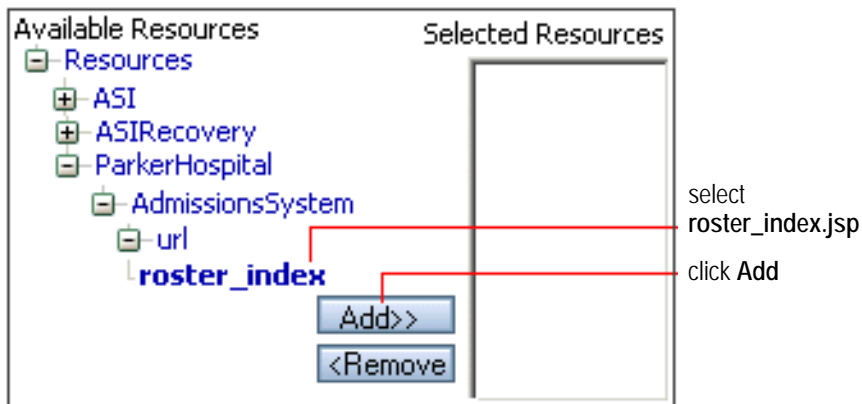
Create Authorization Policy 1

1. In the left navigation pane, expand the **Policies** node and select **Authorization Policies**. Then click **New** in the lower part of the right pane. This displays the **New Authorization Policy** window.

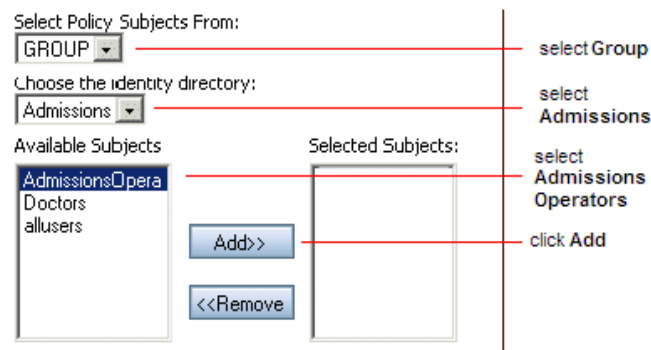


2. Select the **Grant** radio button.
3. On the **Actions** tab, select `url` in the **Select Action Group** field. Then select **POST** and **GET** in the **Available Actions** list and click **Add>>**.
4. Click on the **Resource** tab and expand the **Resources** tree under **Available Resources** until you see the `roster_index.jsp` Resource. Then select `roster_index.jsp` and click **Add>>**.

Tutorial 5: Creating Authorization Policies



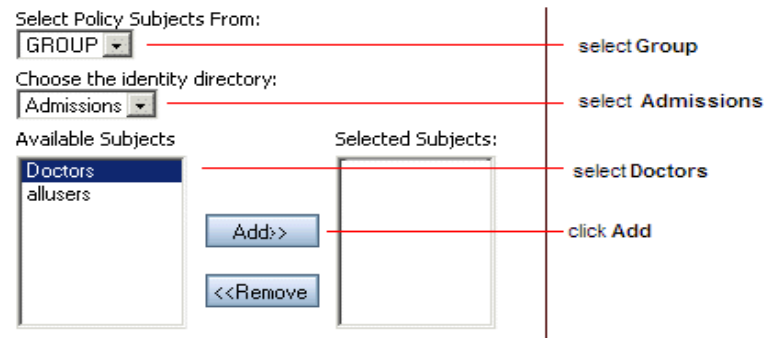
5. On the Subject tab, select **GROUP** in the **Select Policy Subjects** field and **Admissions** in the **Choose Identity Directory** field. Finally, select **AdmissionsOperators** in the **Available Subjects** list and click **Add>>**.



6. Click **Ok** at the bottom of the **New Authorization Policy** window.

Create Authorization Policy 2

1. In the left navigation pane, expand the **Policies** node and select **Authorization Policies**. Then click **New** in the lower part of the right pane. This displays the **New Authorization Policy** window.
2. In the **Effect** field, select the **Grant** radio button.
3. On the **Actions** tab, select `url` in the **Select Action Group** field. Then select `GET` in the **Available Actions** list and click **Add**.
4. On the **Resource** tab, expand the **Resources** tree under **Available Resources** until you see the `roster_index.jsp`. Then select it and click **Add**.
5. On the **Subject** tab, select `GROUP` in the **Select Policy Subjects** field and `Admissions` in the **Chose Identity Directory** field. Finally, select `Doctors` in the **Available Subjects** list and click **Add>>**.



6. Click **Ok** at the bottom of the **New Authorization Policy** window.

Save the Policies

After creating the Policies as described, return to the main window and click **Save Changes**.

Summary

In this tutorial you defined two Authorization policies that restrict access to the Patient Roster.

- Authorization Policy 1 allows users in the **AdmissionsOperators** group to view and edit the roster. Since Harry Hopkins is a member of this Group, he may view and edit the roster.
- Authorization Policy 2 allows the **HealthcareProviders** Role to view the roster. Since the **Doctors** group is assigned to **HealthProviders** and **John Kildaire** is a member of the **Doctors** group, he may view the roster.

Had an actual SSM been in place, the policies could have been distributed to the SSM and enforced immediately.

Note that these policies as defined allow *only* John Kildaire and Harry Hopkins to access the roster. Once a resource is secured by an ALES policy, users must be explicitly granted access to it. To grant other users access, they could be added to the **AdmissionsOperators** or **Doctors** group -- or additional policies could be created that grant access in some other way.

Tutorial 6: Generating Policy Reports

This section contains the following topics:

- [“Overview” on page 7-1](#)
- [“Generate Authorization Policy Report” on page 7-2](#)
- [“Generate Role Mapping Report” on page 7-6](#)

Overview

This section shows how to generate reports about the policies we’ve created to secure the Admissions System’s Patient Roster.

Report Type	Description
Authorization Policy	This report shows any rights granted users in the AdmissionOperators group. Effect: Any Subjects: AdmissionsOperators
Membership Rule	This report shows John Kildaire’s role assignments. Effect: Any Subjects: John Kildaire

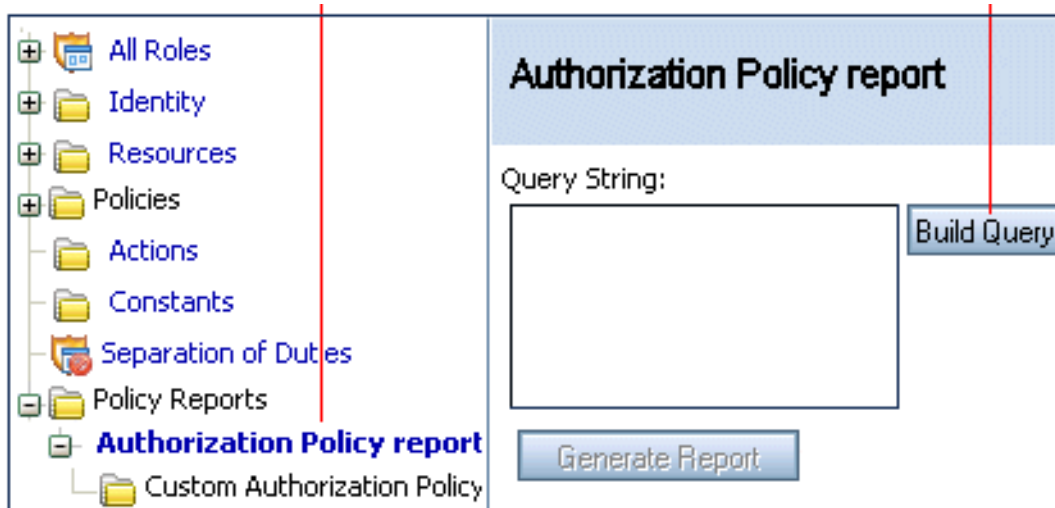
Generate Authorization Policy Report

This report will show what rights users in the **AdmissionOperators** group have on any application resource.

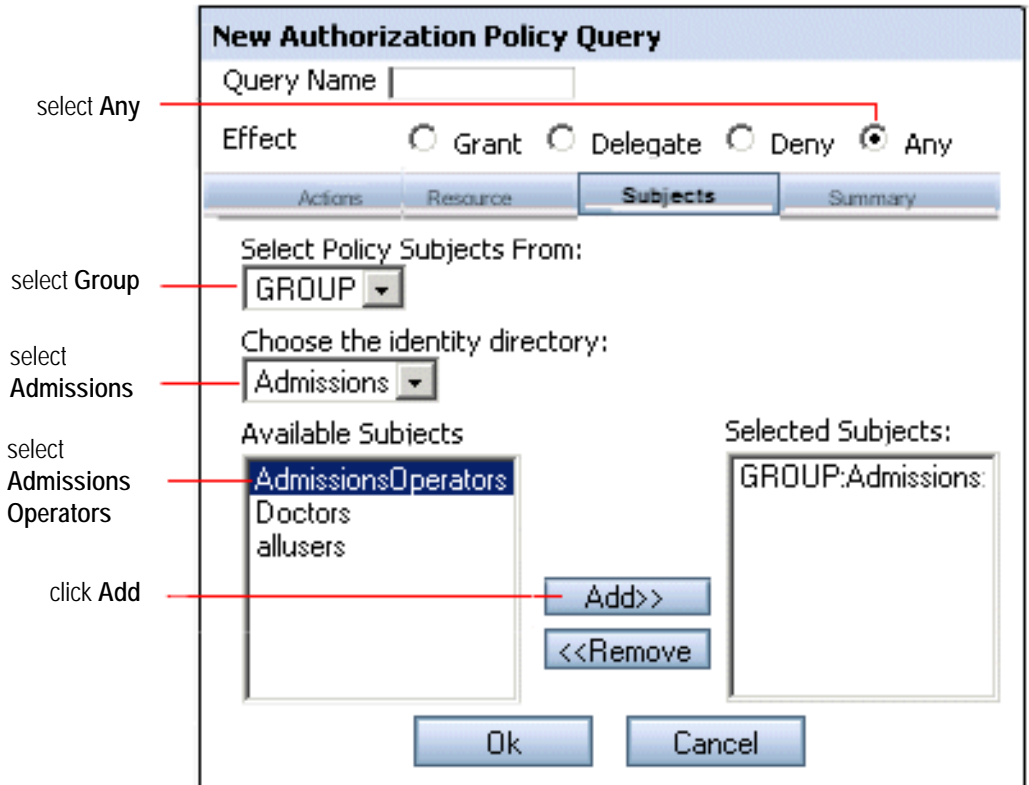
1. Under **Policy Reports** in the left pane, select **Authorization Policy report** and click **Build Query** in the right pane.

select **Authorization Policy report**

click **Build Query**



2. On the **New Authorization Policy Query** window, click the **Subjects** tab and select the options shown below. Then click **OK**.



3. On the main window, notice the query you specified and click **Generate Report**.

Tutorial 6: Generating Policy Reports

specified query

click Generate Report

Authorization Policy report

Query String:

Effect=any
Subject=GROUP:Admissions:AdmissionsOperators

Build Query.

Generate Report

4. The report results show that users in the **AdmissionsOperators** group have both GET and POST rights on the Patient Roster.

query results

Effect	Actions	Resource	Subject
grant	POST	//resources/ParkerHospital/AdmissionsSystem/url/roster_index.jsp	GROUP:Admissions:AdmissionsOperators
grant	GET	//resources/ParkerHospital/AdmissionsSystem/url/roster_index.jsp	GROUP:Admissions:AdmissionsOperators

Generate Role Mapping Report

This report will show John Kildaire's assigned roles.

1. Under **Policy Reports** in the left pane, select **Membership Rule report** and click **Build Query** in the right pane.
2. On the **Subjects** tab, select the options shown below and click **OK**.

The screenshot shows the 'Membership Rule Query' dialog box. The 'Subjects' tab is selected. The 'Effect' section has radio buttons for 'Grant', 'Delegate', 'Deny', and 'Any', with 'Any' selected. The 'Select Policy Subjects From:' dropdown is set to 'USER'. The 'Choose the identity directory:' dropdown is set to 'ParkerHospital'. The 'Available Subjects' list contains 'Harold Hopkins' and 'John Kildaire'. The 'Selected Subjects' list is empty. The 'Add>>' button is highlighted. Red lines connect text labels to these specific UI elements.

Role	Resource	Subjects	Summary
------	----------	----------	---------

Query Name

Effect Grant Delegate Deny Any

Select Policy Subjects From:

Choose the identity directory:

Available Subjects: Harold Hopkins, John Kildaire

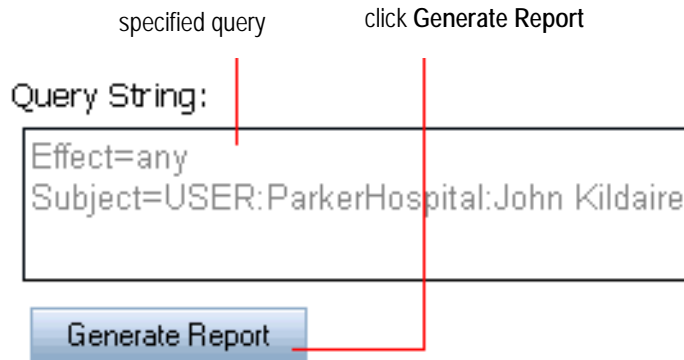
Selected Subjects:

Buttons: Add>>, <<Remove, Ok, Cancel

Annotations:

- select Any (points to the 'Any' radio button)
- select User (points to the 'USER' dropdown)
- select Parker Hospital (points to the 'ParkerHospital' dropdown)
- select John Kildaire (points to 'John Kildaire' in the 'Available Subjects' list)
- click Add (points to the 'Add>>' button)

3. On the main window, notice the query you specified and click **Generate Report**.



4. The report results show that HealthProviders is John Kildaire's only role assignment.

Query Result

Effect	Role	Resource	Subject
grant	HealthProviders	//resources	GROUP:ParkerHospital:Doctors

Tutorial 6: Generating Policy Reports