



IBM Software Group

WebSphere Portal: Basic Administration

Lotus software



ON DEMAND BUSINESS™

IBM Proof of Technology

IBM Product Introduction + Exploration

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Agenda

- Portal Application Administration
- Page Layout and Design
- User and Group Management
- Access Control Administration

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WebSphere Portal v5 Administration

My Portal **Administration** Edit my profile ? Log out

WebSphere Portal Portal User Interface Manage Pages Themes and Skins Portlet Management Access Portal Settings Portal Analysis Virtual Portals Portal Content	WebSphere Portal Portal User Interface Portlet Management Web Modules Applications Portlets Web Services Web Clipping	WebSphere Portal Portal User Interface Portlet Management Access Users and Groups Resource Permissions User and Group Permissions Credential Vault	WebSphere Portal Portal User Interface Portlet Management Access Portal Settings Global Settings URL Mapping Custom Unique Name Supported Markups Search Administration Import XML	WebSphere Portal Portal User Interface Portlet Management Access Portal Settings Portal Analysis Frequent Users Enable Tracing Virtual Portals Manage Virtual Portals Portal Content	WebSphere Portal Portal User Interface Portlet Management Access Portal Settings Portal Analysis Frequent Users Enable Tracing Virtual Portals Manage Virtual Portals Portal Content
---	---	--	---	---	---


PI+E P1-1 Basic Administration 3

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Basic Administration Overview

.war


Install Portlet Applications



Create Page Layouts



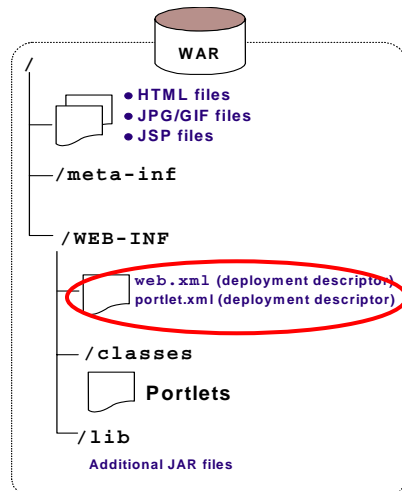
Work with Users



Set Access Control

PI+E P1-1 Basic Administration 4

Portlet Application provided in WAR file



- Web ARchive (WAR) file is part of J2EE specification and contains Portlets.
- Portlet applications are one or more portlets installed by Admin.
- Deployment descriptors may be changed by Administrator.

Install Portlets

Manage Web Modules

Installing a Web module, Step 1: Select WAR file.

Click the Browse button to specify the location of the WAR file. Click the Next button to go back to the Web module page.

Directory: C:\WebSphere\c2\stlServer\installableApp Browse...

Next Cancel

Manage Web Modules

Installing a Web module, Step 2: View WAR file contents.

The selected WAR file contents are displayed below. Select the Finish button to install the WAR file or the Cancel button to return to the Web module page.

Portlet applications	Portlets
Shipping Application Demo - C2A Version	OrderDetailC2A
	OrderMonthC2A
	CustomerC2A
	TrackingC2A
	AccountsC2A

Finish Cancel

- Select directory with WAR file.
- Review portlets within WAR file.
- Install portlets and check status

Manage Web Modules

EJPAQ1332I: Web module was successfully installed.

Managing Portlet Applications

- Portlet applications are existing installed web modules (WAR file) that consist of one or more portlets
- Selected Web modules display the portlet(s) contained within the portlet application
- The Manage Portlet Administration Application supports commands on the web module as well as individual portlets within a web module.

Manage Portlet Applications

The screenshot displays the 'Manage Applications' page in the IBM WebSphere Portal. The left navigation pane shows 'Applications' under 'Portlet Management'. The main content area lists various portlet applications. Red callouts highlight the 'Copy', 'Edit', 'Delete', and 'Assign Access' buttons for each application row.

Title	Copy	Edit	Delete	Assign Access
portletWinnWeb_Application				
Portlet Manager Application				
Manage Web Services Application				
Themes And Skins Manager Web Application				
Edit page content and layout				
Generate Properties Web App				
Manage Pages and Favorites App				
Frequent Users Web Application				
Welcome				
Credential Administration				

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Manage Portlets

Manage Portlets

Search by: Title starts with

Search:

Search

Portlets Click Copy to create a duplicate of the portlet. Click Configure to set titles, descriptions and parameters. Click Delete to remove the portlet from your portal. Click Assign Access to allow others to work with the portlet.

Title	Provided	Remote portlet	Status	
Portlet Wiring Tool				
Manage Web Modules				
Manage Portlets	✓			
Manage Applications				
Web Service Configuration				
Themes and Skins				
Edit Layout				
Page Properties				
Manage Pages				
Organize Favorites				

Page 1 of 11

Jump to page: 1

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P1-1 Basic Administration

9

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Portlet Application Administration

- WebSphere Portal Administrator
 - Install, modify, and delete Portlet Applications
 - Install, modify, and delete Portlets
 - Can manage the preferences for all Portal users
- WebSphere Portal Users
 - Manage preferences for an application

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P1-1 Basic Administration

10

Page Layout and Design

- Understand portal structure (e.g., Content root, pages, labels, URLs)
- Determine portal layout. Need to work with Portal Sponsor as well as Security Administration
- Portal is composed of a hierarchical structure of nodes that can be represented in a parent-child relationship, starting from the content root of the portal
- A node is an addressable element in the portal navigation tree belonging to one of the following types:
 - **Page** – Displays content in form of portlets
 - **Label** – Does NOT display content, used to group nodes
 - **URL** – Launch any URL formatted resource internal or external to portal.

Nodes – Labels, Pages and URLs

Manage Pages

Use the controls below to work with your pages. Browse or search for pages to work with. Click New to create new pages, labels and urls. Activate and deactivate pages, re-order, edit properties and layout, move pages, assign permissions and delete. For more information, click Help.

Search by: Title starts with Search:

[Content Root](#) > [My Portal](#)

Pages in My Portal Add, Edit, Delete, and Reorder pages

Page 1 of 2 Jump to page: 1

Title	Unique name	Status	
Welcome	6_0_1S	Active	
Human Resources	HR	Active	
Sales	6_0_IQ	Active	

Node Hierarchy Levels

Content Root

wps - default

Root Node

My Portal

Top Level Node

Welcome

Sub Nodes

My Page

Root Nodes

- **My Portal**
 - All user top level nodes are defined under this label
- **Administration**
 - Label containing pages with portlets to manage administration of the Portal
- **Page Customizer**
 - Contains portlets for managing page content & layout
- **Page Properties**
 - Editing page properties
- **Organize Favorites**
 - Bookmark for favorite pages

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Default Node Layout

My Portal. Administration Show Tools

WebSphere Portal My Portal Administration Edit my profile ? Log out

Toggle New Page Edit Page Assign Permissions

Welcome Documents My Work My Finances My Newsroom Content Publishing My Favorites

My Page My Applications

Sub Nodes Upper Level Nodes Page Layout & Page Properties My Favorites

PI+E P1-1 Basic Administration 15

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Page Layout

Theme

Navigation Row Container

Column Container Column Container

Control Control

Portlet Portlet

Control Control

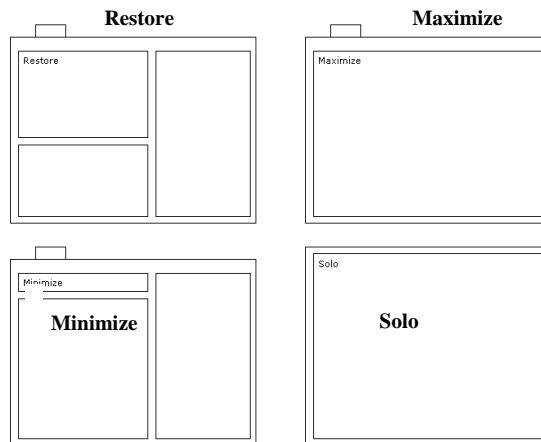
Portlet Portlet

Screen

Skin

PI+E P1-1 Basic Administration 16

Portlet States



Adding A New Page

Manage Pages

Use the controls below to work with your pages. Browse or search for pages to work with. Click New to create new pages, labels and urls. Activate and deactivate pages, re-order, edit properties and layout, move pages, assign permissions and delete. For more information, click Help.

Search by: Search:

[Content Root](#) [My Portal](#)

Pages in My Portal Add, Edit, Delete, and Reorder pages

Page 1 of 2			Jump to page: 1		
Title	Unique name	Status			
Welcome	6_0_IS	Active			
Human Resources	HR	Active			
Sales	6_0_IQ	Active			


WordPress Portal

Page Properties

New page: My Portal

Use the controls below to work with your pages to specify your

Title:

Theme:
 

☐ I want to make this page my private page

☒ **Page Properties**

☒ This page can be added to a user's My favorites list.
☐ Other pages can share the contents of this page.

☒ **Type of Page**

☒ A content page with these properties:

☐ ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

This page supports (at least one must be selected):
☒ HTML ☐ cHTML ☐ WML

☐ A page that uses content from a shared page:

☒ **Page Cache Options**

☒ OK ☐ Cancel

The diagram illustrates a 'Root Composition (Layered Container)'. It features a 'Navigation' pane on the left. The main area is a 'Row Container' which contains two 'Column Container's. Each 'Column Container' contains two 'Portlet's, for a total of four portlets arranged in a 2x2 grid.

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Edit Layout

WebSphere Portal

ContentAppearanceLocksWires

Edit Layout

Edit Layout and Content allows you to add and arrange portlets, columns and rows. You can also remove portlets, columns and rows. Modifications occur as you make them.

Page title: Retirement Planning

Currency Calculator

Retirement Planner

+ Add portlets

Done **Edit properties**

Configure

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21

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Edit Layout ..

WebSphere Portal

ContentAppearanceLocksWires

Edit Layout

☒ Users can switch page layout

Allowed layouts (only applies if switching page layouts is allowed)

☒ ☒ ☒ ☒ ☒ ☒

☒ Show toggle link for "Show layout tools/hide layout tools"

☐ Check portlets width before adding or moving portlets to a column

When user clicks "Add portlets":

Number of items per page:

Never show more than this number of items:

Also display the following information in the search results

☐ Supported Markups

OK **Cancel**

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22

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Edit Layout ..

WebSphere Portal

Content | Appearance | Locks | Wires

Log out

Edit Layout

Edit Layout and Content allows you to add and arrange portlets, columns and rows. You can also remove portlets, columns and rows. Modifications occur as you make them.

Page title: My NewPage

Show layout tools

+ Add portlets

+ Add portlets

Done

Edit properties

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23

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Advanced Edit Layout

WebSphere Portal

Content | Appearance | Locks | Wires

Log out

Edit Layout

Edit Layout and Content allows you to add and arrange portlets, columns and rows. You can also remove portlets, columns and rows. Modifications occur as you make them.

Page title: My NewPage

Hide layout tools

Not set

+ Add portlets

+ Add portlets

Done

Edit properties

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P1-1 Basic Administration

24

Manage Pages

Manage Pages

Use the controls below to work with your pages. Browse or search for pages to work with. Click [New](#) to create new pages, labels and urls. Activate and deactivate pages, re-order, edit properties and layout, move, mark permissions and delete. For more information, click [Help](#).

Search by: Title starts with Search:

[Content Root](#) > [My Portal](#)

Pages in My Portal Add, Edit, Delete, and Reorder pages

Page 1 of 2

Title	Unique name	Status	
Welcome	6_0_IS	Active	<input type="button" value="Edit Page Properties"/> <input type="button" value="Edit Page Layout"/> <input type="button" value="Mark"/> <input type="button" value="Delete"/> <input type="button" value="Export"/>
Human Resources	HR	Active	<input type="button" value="Move Up And Down"/> <input type="button" value="Edit Page Properties"/> <input type="button" value="Edit Page Layout"/> <input type="button" value="Mark"/> <input type="button" value="Delete"/> <input type="button" value="Export"/>
Sales	6_0_Q	Active	<input type="button" value="Move Up And Down"/> <input type="button" value="Edit Page Properties"/> <input type="button" value="Edit Page Layout"/> <input type="button" value="Mark"/> <input type="button" value="Delete"/> <input type="button" value="Export"/>
My Workplace	com.ibm.lotus.wfd.start	Active	<input type="button" value="Move Up And Down"/> <input type="button" value="Edit Page Properties"/> <input type="button" value="Edit Page Layout"/> <input type="button" value="Mark"/> <input type="button" value="Delete"/> <input type="button" value="Export"/>
Documents	pdmWorkspace	Active	<input type="button" value="Move Up And Down"/> <input type="button" value="Edit Page Properties"/> <input type="button" value="Edit Page Layout"/> <input type="button" value="Mark"/> <input type="button" value="Delete"/> <input type="button" value="Export"/>
Web Content Management	ILWWCM.workspace	Active	<input type="button" value="Move Up And Down"/> <input type="button" value="Edit Page Properties"/> <input type="button" value="Edit Page Layout"/> <input type="button" value="Mark"/> <input type="button" value="Delete"/> <input type="button" value="Export"/>

Move Pages Option

- Available through Administrative Portlets
- Administration – Portal User Interface – Manage Pages
- Move pages to a new location in the portal hierarchy – Like “Cut” and “Paste”

Move Pages Option (..)

Manage Pages

Use the controls below to work with your pages. Browse or search for pages to work with. Click New to create new pages, labels and urls. Activate and deactivate pages, re-order, edit properties and layout, move pages, assign permissions and delete. For more information, click Help.

Search by: Title starts with Search:

[Content Root](#) > [My Portal](#)

Pages in My Portal Add, Edit, Delete, and Reorder pages

			Page 2 of 2	Jump to page: 2	
Title	Unique name	Status			
 AJRSToys_Templates	6_0_FL	Active			
 IT	IT	Active			
			Page 2 of 2	Jump to page: 2	

Move Pages Option (..)

Manage Pages


 EJPJ0033I: AJRSToys_Templates and its sub pages are ready to be moved.

Use the controls below to work with your pages. Browse or search for pages to work with. Click New to create new pages, labels and urls. Activate and deactivate pages, re-order, edit properties and layout, move pages, assign permissions and delete. For more information, click Help.

Search by: Title starts with Search:

[Content Root](#) > [My Portal](#)

Pages in My Portal Add, Edit, Delete, and Reorder pages

			Page 2 of 2	Jump to page: 2	
Title	Unique name	Status			
 AJRSToys_Templates	6_0_FL	Active			
 IT	IT	Active			
			Page 2 of 2	Jump to page: 2	

Move Pages Option (..)

Manage Pages

Use the controls below to work with your pages. Browse or search for pages to work with. Click New to create new pages, labels and urls. Activate and deactivate pages, re-order, edit properties and layout, move pages, assign permissions and delete. For more information, click Help.

Search by: Title starts with Search: Search

Content Root My Portal Human Resources

Pages in Human Resources Add, Edit, Delete, and Reorder pages

New page	New label	New url	Move
Page 1 of 1			
Title	Unique name	Status	
HR Applications	HR Applications	Active	
HR News	HR News	Active	
Page 1 of 1			

Move Pages Option (..)

Manage Pages

Use the controls below to work with your pages. Browse or search for pages to work with. Click New to create new pages, labels and urls. Activate and deactivate pages, re-order, edit properties and layout, move pages, assign permissions and delete. For more information, click Help.

Search by: Title starts with Search: Search

Content Root My Portal Human Resources

Pages in

Microsoft Internet Explorer

Are you sure you want to move AJRSToys_Templates to this location?

OK Cancel

Page 1 of 1

Page 1 of 1

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Import XML

WebSphere Portal

My Portal Administration Edit n

Portal User Interface

Portlet Management

Access

Portal Settings

Global Settings

URL Mapping

Custom Unique Names

Supported Markups

Supported Clients

Search Administration

Import XML

Import XML

Import XML Step 1 of 1: Browse for XML File

Click the Browse button to specify the location of the XML file to import. Click to import the specified XML file. For more information, click Help.

Directory: C:\WebSphere\WSPOT51_Development

Browse...

Import

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P1-1 Basic Administration

31

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Import XML (..)

WebSphere Portal

My Portal Administration Edit my profile ? Log out

Portal User Interface

Portlet Management

Access

Portal Settings

Global Settings

URL Mapping

Custom Unique Names

Supported Markups

Supported Clients

Search Administration

Import XML

Portal Analysis

Virtual Portals

Import XML

EJ5AG1008I: The XMLAccess ran successfully please click the View Details link to view the details. View Details

Import XML Step 1 of 1: Browse for XML File

Click the Browse button to specify the location of the XML file to import. Click the Import button to import the specified XML file. For more information, click Help.

Directory:

Browse...

Import

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P1-1 Basic Administration

32

Export Option

My Portal Administration Edit my profile

Manage Pages

Use the controls below to work with your pages. Browse or search for pages to work with. Click New to create new pages, labels and urls, and deactivate pages, re-order, edit properties and layout, move pages, assign permissions and delete. For more information, click Help.

Search by: Title starts with Search: Search

Content Root

My pages Add, Edit, Delete, and Reorder pages

New page New label

Page 1 of 2 Jump to page:

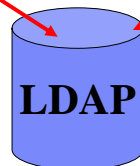
Title	Unique name	Status	
My Portal	wps.My Portal	Active	
Administration	wps.Administration	Active	
Hidden Page for Workplace Directory Search	lotus.workplace.hiddenpage.PeoplePicker	Active	
Page Customizer	wps.Page Customizer	Active	
sunil	6_0_6C	Active	
	wps.Page Properties	Active	

User and Group Management

All Users and Groups in
LDAP are available to Portal



LDAP Administrator



User Registry



Portal Administrator

Portal User and Group Management

- WebSphere Portal provides centralized administration of users and user groups
 - ▶ Provided through the Member Management component
 - ▶ They help to create Users and Groups without using the LDAP interface directly
- Users can register and manage their own account information, or an administrator can provision and manage users
- Administrators can also create groups and maintain group membership
- A user group (sometimes called "member group") is a related collection of members

All Portal Users Are A Member Of A Group

User

New users are added to "All Authenticated Users Group"



New users may be created as part of being added to an existing group



Existing users and groups may be added to an existing group

New groups are reflected in "All User Groups"

Removing (Deleting) Users Or Groups

User



Group Member



Removing user or group from an existing group does not delete user or group from Portal

Users removed from “All Authenticated Users Group” are deleted from Portal

From existing “Group List”, removing group deletes it from Portal but does not delete any of the users or groups within the Group

New Group

Manage Users and Groups
Search:

Search by:

Users and Groups

ID:

[All Portal User Groups](#)
[All Authenticated Portal Users](#)

Manage Users and Groups
New group
ID:

Manage Users and Groups
 EJPAL01101: User group created successfully!

Manage Users and Groups
 EJPAL01091: Sorry, no user or user group was found!

Search:

Search by:

Users and Groups > [All Portal User Groups](#) > [Portal Test Group](#)
 Members of [Portal Test Group](#) - add, edit and delete user groups and users

ID:

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Add User To Group

Edit My Profile

Change the information below and click OK

* User ID:
pteam201

* Password:

* Confirm Password:

* First Name:
P201

* Last Name:
Team

Email:

Preferred language:
- Nothing Selected -

* Required Field

OK

Cancel

Manage Users and Groups

EJPAL01001: User created successfully!

Search: User groups

Search by: All available

Search

Users and Groups > All Portal User Groups > Portal Test Group

Members of CN=Portal Test Group - add, edit and delete user groups and users

New group

New user

Add member

pteam201

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P1-1 Basic Administration

39

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Managing User Group

Manage Users and Groups

Search: User groups

Search by: All available

Search

Users and Groups

New group

New user

Page 1 of 2

Jump to page: 1

ID
All Portal User Groups
All Authenticated Portal Users
wcmadmins
Portal Lab Users
OtherDomainServers
DOTnetnet

View Membership

Duplicate Role Assignments

Duplicate Group Assignments

Delete

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P1-1 Basic Administration

40

20

Self Registration

The screenshot displays the WebSphere Portal self-registration interface. On the left, a navigation bar contains links for 'I forgot my password', 'Sign up', and 'Log in'. The 'Sign up' link is circled in red. On the right, the 'Edit My Profile' form is shown, titled 'New user enrollment. Provide the information'. The form includes the following fields:

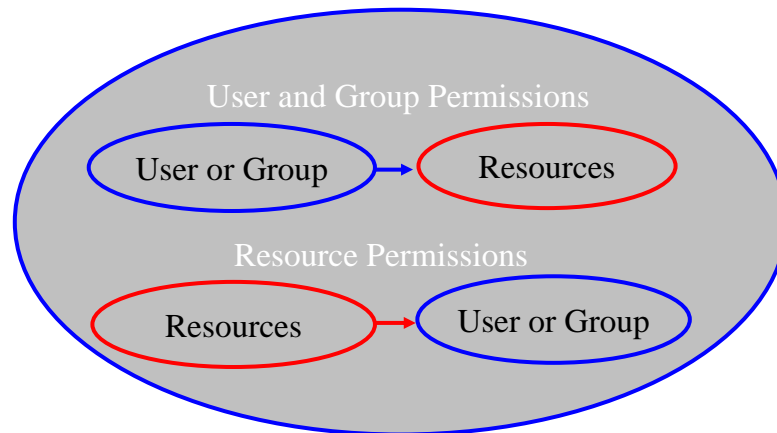
- * User ID:
- * Password:
- * Confirm Password:
- * First Name:
- * Last Name:
- Email:
- Preferred language:

At the bottom of the form, there is a section for '* Required Field' with two buttons: 'OK' (circled in red) and 'Cancel'.

User and Group Management

- WebSphere Portal Administrator
 - ▶ Create, modify, and delete users
 - ▶ Create, modify, and delete groups
 - ▶ Assign users to groups
- Existing LDAP users and groups are used
- WebSphere Portal Users
 - ▶ Self-register
 - ▶ Self-care (e.g., change password, preferences, etc.)

Role Based Access Control



Set ACL Using User and Group Permissions Portlet

User and Group Permissions Principal Types

Users and User Groups
Users
User Groups

User and Group Permissions

Search by: All available

Search

Principal Types > User Groups

Users and User Groups	Select Resource Type
All Authenticated Portal Users	<input checked="" type="checkbox"/>
All Portal User Groups	<input checked="" type="checkbox"/>

User and Group Permissions

Search by: All available

Search

Principal Types > User Groups

Users and User Groups	Select R
All Authenticated Portal Users	<input checked="" type="checkbox"/>
All Portal User Groups	<input checked="" type="checkbox"/>
HRGroup	<input checked="" type="checkbox"/>
Portal Lab users	<input checked="" type="checkbox"/>

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Select Resource Type

User and Group Permissions

[Principal Types](#) > [User Groups](#) > HRGroup

Page 1 of 1

Resource Types
Pages
PSE_SOURCE
Portlet Applications
Portlets
URL Mapping Contexts
User Groups
Virtual Resources
WSRP_PRODUCER
Web Modules

Page 1 of 1

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P1-1 Basic Administration

45

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Select Resource Type ...

Resource Permissions

Search by: Search:

[Select Resource Type](#) > [Pages](#)

Page 1

Resources	Assign Access	Unique name
Content Root		wps.content.root

Page 1

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P1-1 Basic Administration

46

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Select Access Control on Resource

User and Group Permissions

Search by: Title starts with Search: Sales Search

Principal Types > User Groups > HRGroup > Pages > Content Root > My Portal

Page 1 of 2 Jump

Resources	Roles	Assign Access	Unique name
Welcome			
Human Resources	<input checked="" type="checkbox"/> Privileged User <input checked="" type="checkbox"/> User		HR
Sales			
My Workplace			com.ibm.lotus.
Documents			pdmWorkspace
Web Content Management			ILWWCM.works
Personalization			personalization
My Finances			wps.My Portal.h
My Work			wps.My Portal.h
My Tasks			wps.MyTasks

Page 1 of 2 Jump

☒ = Explicitly Assigned

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P1-1 Basic Administration
47

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Explicitly Assigned Permissions

User and Group Permissions

Principal Types > User Groups > HRGroup > Pages > Content Root > My Portal > Sales

Page 1 of 1

Roles	Explicitly Assigned	Inherited/Group Member
Administrator	<input type="checkbox"/>	
Security Administrator	<input type="checkbox"/>	
Delegator	<input type="checkbox"/>	
Manager	<input type="checkbox"/>	
Editor	<input type="checkbox"/>	
Privileged User	<input type="checkbox"/>	
User	<input type="checkbox"/>	

Page 1 of 1

Ok Cancel

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P1-1 Basic Administration
48

Setting ACL Using Resource Permissions Portlet

Resource Permissions Select Resource Type

Page 1 of 1

Resource Types
Pages
PSE SOURCE
Portlet Applications
Portlets
URL Mapping Contexts
User Groups
Virtual Resources
WSRP PRODUCER
Web Modules

Page 1 of 1

Selecting Propagation, Inheritance or Explicit

Resource Permissions

Select Resource Type > [Pages](#) > [Content Root](#) > [My Portal](#) > [Sales](#)

Page 1 of 1

Roles	Allow Propagation	Allow Inheritance	Edit Role
Administrator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Security Administrator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Delegator	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Manager	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Editor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Privileged User	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
User	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Page 1 of 1

Display/Modify Owner

[Apply](#)

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Adding User Group To Role

Resource Permissions

E1PAO4008W: No members found in the role.

 Add

Select Resource Type > Pages > Sales > Privileged User


Members in the Role	Delete Member from Role


Resource Permissions

E1PAO4003I: Members successfully added to the role.

 Add

Select Resource Type > Pages > Sales > Privileged User

Members in the Role	Delete Member from Role
SalesGroup	

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P1-1 Basic Administration
51


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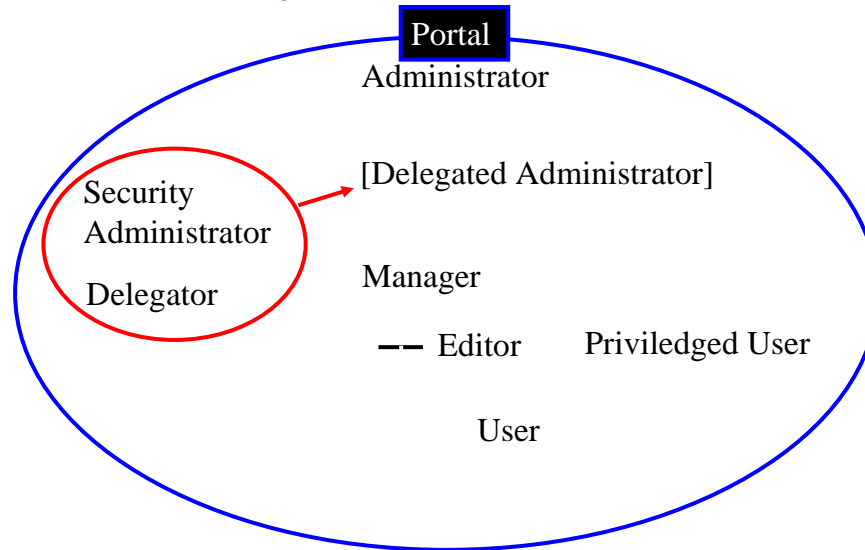
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Dedicated and Private Access Control

- Dedicated owner
 - Owner of resource protected by portal access control
 - Creator of new portal resource
 - Can delete the resource
 - Same permission as Manage role
 - Ownership cannot be inherited
 - Ownership can be changed
- Private Pages
 - Accessed only by the owner of the page
 - Privileged Users can create private pages by customizing non-private pages (results in a private copy of the page only accessible by the Privileged User)

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P1-1 Basic Administration
52

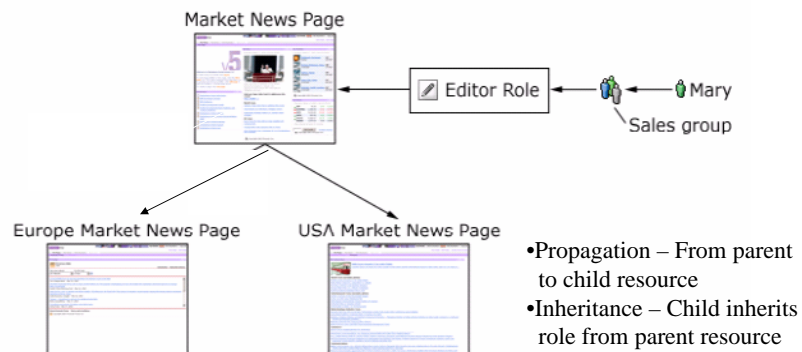
Roles Heirarchy



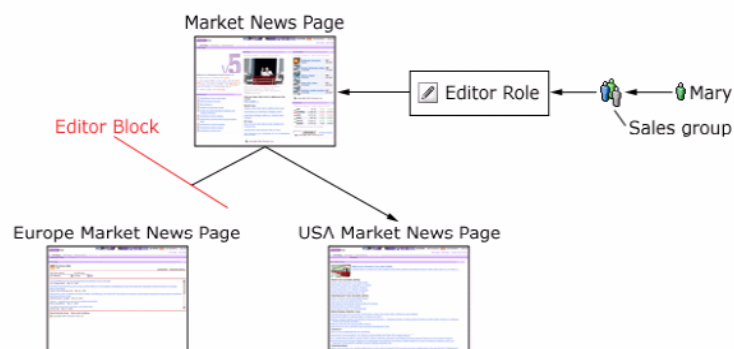
Predefined Roles

- ▶ **Administrator** – All actions
- ▶ **Security Administrator** - VIEW, GRANT_ACCESS, DELEGATE
- ▶ **Delegator** - VIEW, DELEGATE
- ▶ **Manager** - VIEW, MODIFY, ADD_CHILD, DELETE
- ▶ **Editor** - VIEW, MODIFY, ADD_CHILD
- ▶ **Privileged User** - VIEW, PERSONALIZE, ADD_PRIVATE CHILD
- ▶ **User** - VIEW

Role Propagation And Inheritance



Role Blocking



Role Based Access Control Considerations

- Access control is based on roles
 - A role defines the permissions that a user group has on a resource
- Roles are always tied to a specific resource
 - Combination of user group set of permissions with one specific resource
- Explicit roles can be assigned to user groups
- Inheritance allows permissions contained in a role propagate along a resource hierarchy automatically
- Role Blocking
 - Inheritance Blocks shield a resource from inheriting from parent resources
 - Propagation Blocks prohibit inheritance from the resource to its child resources

Basic Administration Summary

- Planning the Portal Hierarchy Requires Understanding of Portal Nodes - Pages, Labels and URLs.
- Installing and Managing Portlet Applications.
- Creating Page Layouts using Row and Column Containers and Adding Portlets to a Page.
- Working with Users and User Groups in the User Repository.
- Setting Access Control for a User or User Group to have Permissions to Access Specific Resources.

Lab 1.2 - Basic Administration

- Exercise 1 - Portal Application Management
 - ▶ Install a new application
- Exercise 2 - Portal Layout and Design
 - ▶ Create a new page and define page properties
 - ▶ Add portlet application to page
- Exercise 3 – User and Group Management
 - ▶ Add user to existing group
 - ▶ Self register a new user
- Exercise 4 - Access Control Administration
 - ▶ Give users access control to new page and application