



IBM Software Group

## General Administration

*WebSphere Portal Server v5.1*

Lotus software



ON DEMAND BUSINESS™

## IBM Proof of Technology

IBM Product Introduction + Exploration

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## Session Objectives

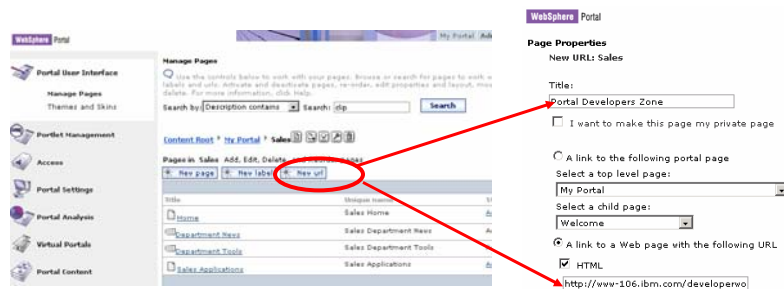
- After completing this session, you should understand how to:
  - ▶ How to include Web Pages
  - ▶ Configure Global Settings for the Portal
  - ▶ Create and Understand the importance of Custom Unique Names
  - ▶ Create user friendly URLs with URL Mapping
  - ▶ See how to incorporate Web Services into your Portal
  - ▶ Create and Manage Virtual Portals
  - ▶ Search Capabilities of Portal



## Including Web Pages

## URL Node

- A Portal Node, therefore is built into the Portal Navigation Hierarchy
- Reference External and Internal

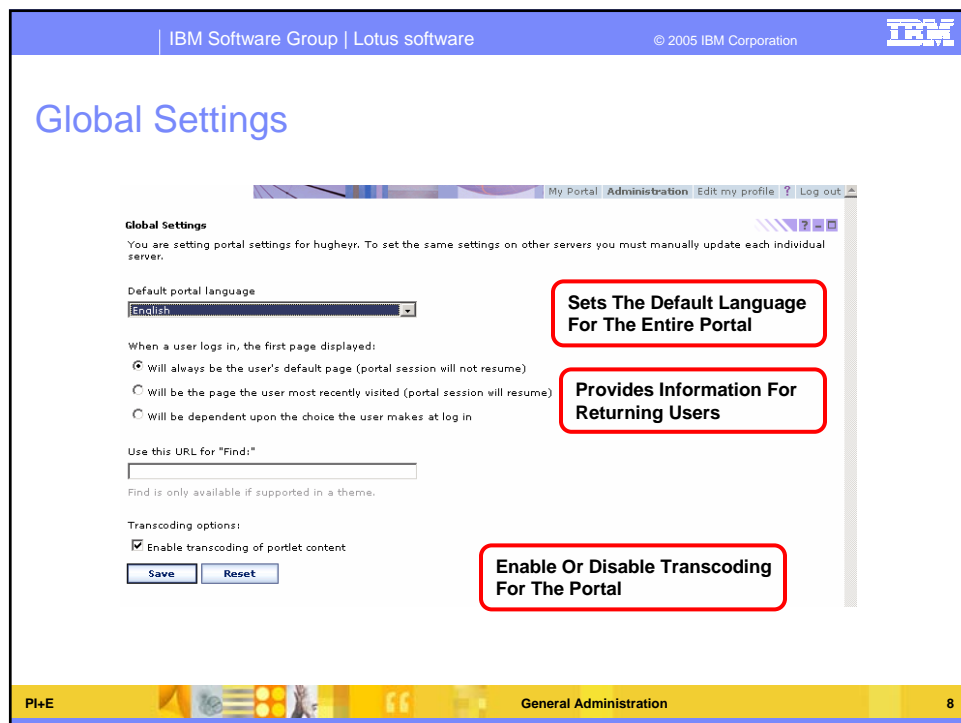
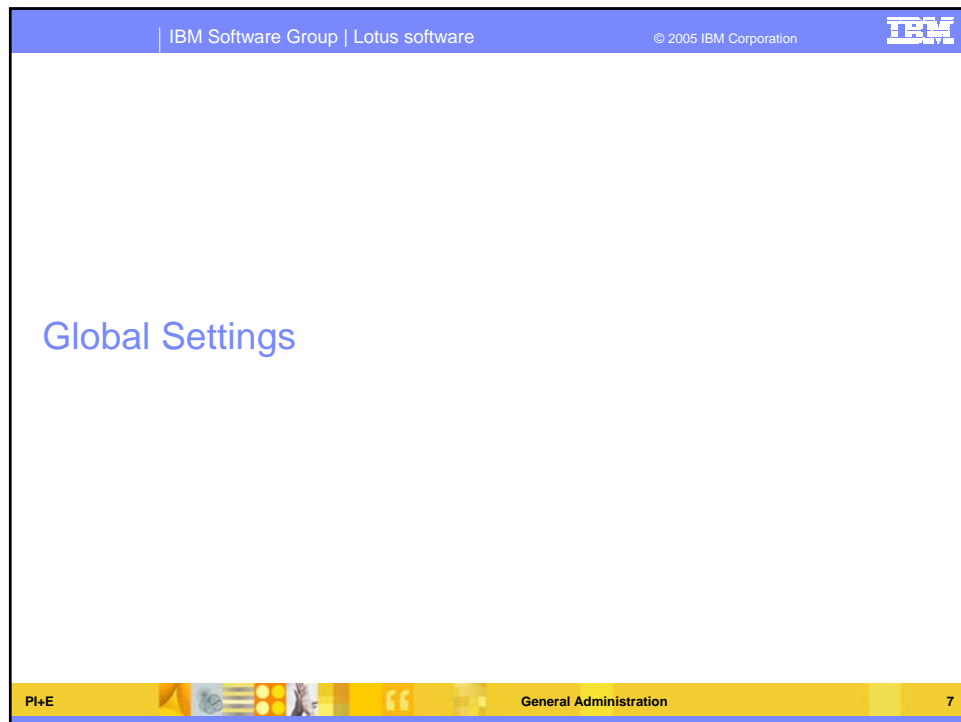


## Web Page Portlet

- webpage.war – will need to be installed
- Provide Authentication through HTTP or Form-based
- Can use a Credential Vault
- Acts as an <IFRAME>

## Web Clipping

- Clip only select contents from a web site (Frames)
- Authentication
- Preview capability



## Managing URLs

- The URL Mapping interface allows you to
  - ▶ Define user-friendly URLs
  - ▶ Map them to pages
- Forces authentication if required
- For example:
  - ▶ wps.portalpot.ibm.com/wps/myportal/HumanResources
  - ▶ wps.portalpot.ibm.com/wps/myportal/Sales
  - ▶ wps.portalpot.ibm.com/wps/myportal/IT
- Used in Virtual Portals to differentiate Virtual Portal

## Creating a New Context Label

The screenshot displays the IBM WebSphere Portal interface. On the left is a navigation menu with options like Portal User Interface, Portlet Management, Access, Portal Settings, and Portal Analysis. The main area shows the 'URL mapping portlet' with a 'Root contexts' section. A red circle highlights the 'New context' button. A red arrow points from this button to a modal dialog box titled 'URL mapping portlet'. The dialog shows 'Location: Root' and a 'Label:' field with the text 'Sales' entered. At the bottom of the dialog, the 'OK' button is circled in red.

Context Label	Mapped to
HumanResources	Human Resources
peoplefinder	lotus.workplace.hiddenpage.PeopleFinder
nonauthoring	Authoring
nonreview	Content Preview

## Mapping the Context to a Page

URL mapping portlet  
Location: Root/Sales

Search by: Title starts with Search: sales Search

Search results: Page 1 of 1

Select	Page Title	Unique name
<input checked="" type="checkbox"/>	Sales	Sales
<input type="checkbox"/>	Sales Applications	Sales Applications

OK Cancel

URL mapping portlet  
3/20/2005: Context Sales was updated successfully.

Root contexts: add new contexts, click map icon to create or edit mapping, click edit to edit context, or delete to delete context

new context

Context Label	Mapped to
Human Resources	Human Resources
Sales	lotus.worx.wa.Hiddenpage.PeopleFinder
Content Preview	Content Preview

<http://wps.portalpot.ibm.com/wps/myportal/Sales>

## Custom Unique Names

- WebSphere Portal uses object Ids to identify portal resources which are difficult to remember
- Use to assign unique names (human readable names) to portal resources
- Benefits
  - Easier to handle than the object IDs assigned by the portal
  - Make identification of portal resources easier in the following contexts
    - Export or import a portal configuration using the XMLAccess
    - Updating resources using XMLAccess
- **Must be unique within the portal**

## Resource Types

### Manage Custom Unique Names

Select type choose a type from the list below

Resource type
<a href="#">Pages</a>
<a href="#">Portlet Applications</a>
<a href="#">Portlets</a>
<a href="#">URL Mapping Contexts</a>
<a href="#">User Groups</a>
<a href="#">Web Modules</a>
<a href="#">WSRP Producers</a>


## Setting the Custom Unique Name

 EJPAX0001I: The custom name was changed successfully.

Search by:  Search:

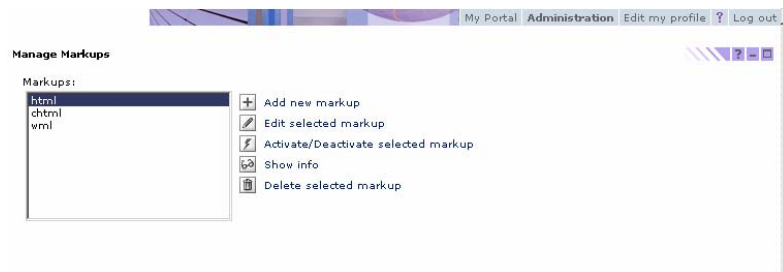
Select type > **Pages**

**My Pages and unique names** click the edit icon to assign, edit, or remove unique names for your Pages

Page 1 of 1			
Page Title	Unique Identifier	Unique Name	Description
IT	6_0_FN	IT	
Page 1 of 1			

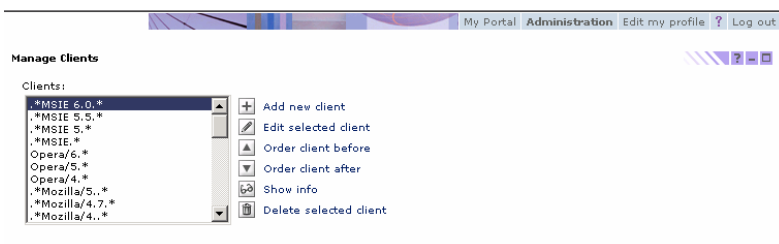
## Supported Markups

- Supported Markups Portlet will help you define the markup language that will be supported by the portal
  - Removing HTML will not allow the Portal to continue to function



## Supported Clients

- Portlets can be accessed across a web browser, mobile devices, personal digital assistants and other types
- Manage Client portlet helps to define devices for accessing portal information



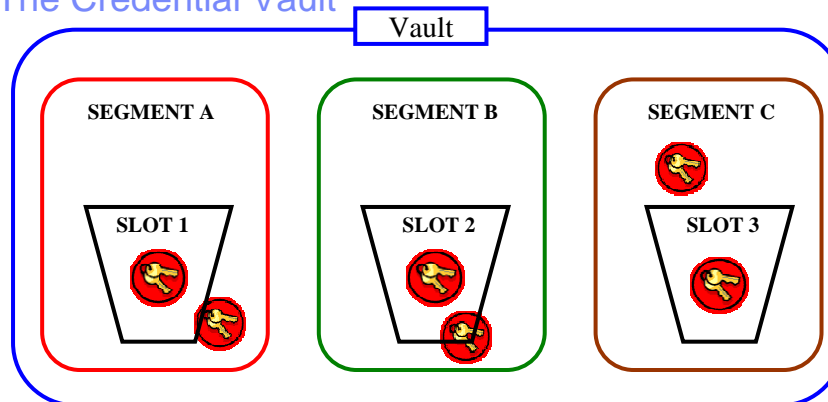


## Enable Tracing

- Enable Tracing Portlet lists all WebSphere Portal Trace Loggers
- The log files will be written in  
 \WebSphere\PortalServer\log directory
- Add trace loggers for the components that need to be traced
- The InfoCenter contains a list by component of the trace logger settings under "Using Logs"



## The Credential Vault



### Segments

- Administrator Managed
- User Managed

### Slots

- System
- Administrative
- Shared
- Private

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## Creating A Credential Vault

My PortalAdministration

Add a vault segment

create a partition in a vault to store credentials

Manage vault segments

view or delete a vault segment

Add a vault slot

create a slot in a vault segment, for storing credentials

Manage system vault slots

view or delete a system vault slot, or change t

Credential Vault

Vaults (number of vault segments):

Default (1)

Resources within selected vault:

ILLWCM,  
deployment.keystore,  
deployment.truststore,  
deployment.user, None

Create a new vault segment

Vault segment name:

PoTVaultSegment

Vault segment description:

New Vault Segment for  
PoT usage

OK

Cancel

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## Creating A Credential Slot

VAUL0008I: The vault segment was created successfully.

Add a vault segment

create a partition i

Manage vault segments

view or delete :

Add a vault slot

create a slot in a vault :

Manage system vault slots

view or delet

Credential Vault

Select Vault

Vault:

Default

Create a vault slot

Name:

PoTVaultSlot

Vault segment:

PoTVaultSegment

Vault slot is shared:

Shared userid:

PoTuser

Shared password:

\*\*\*\*\*

Confirm password:

\*\*\*\*\*

Description:

PoT Shared Slot

Set locale-specific descriptions

OK

Cancel

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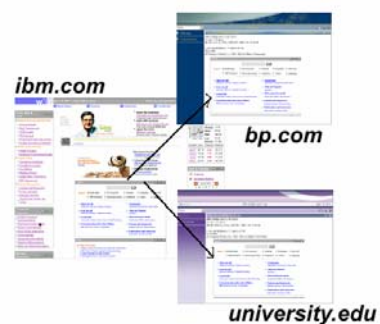
20

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## Web Services for Remote Portlets

## Web Services for Remote Portlets (WSRP)

- Consumers and Producers
- Producers deliver requested data as well as the presentation logic to the consumer
- Cost: Portlet code does not need to be stored locally – Scale up Portal machines and scale down portlet machines
- WebSphere Portal can consume all applications that are available through Web Services (i.e. .Net)
- End user sees no difference



## Providing a Portlet (Producer)

- Producer needs to provide “handle” information and “groupid” of the remote portlet.
- Consumer uses the “handle” to communicate with Portlets via the Producer

**Manage My Portlets**

Search on:  Time contains:  Search for:  class:

**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
ClassRegistration portlet	<input checked="" type="checkbox"/>		<input type="button" value="Copy"/> <input type="button" value="Configure"/> <input type="button" value="Delete"/> <input type="button" value="Assign Access"/>

Showing 1 - 1 of 1 Page 1 of 1

## List Producer Instances (Consumer)

**phere Portal - Microsoft Internet Explorer**

Address: [http://localhost/wps/myportal/lot/pl/cmd/csl/cc/7\\_0\\_A/s/7\\_0\\_139/\\_s7\\_0\\_A/7\\_0\\_139](http://localhost/wps/myportal/lot/pl/cmd/csl/cc/7_0_A/s/7_0_139/_s7_0_A/7_0_139)

My Portal Administration Edit my profile T Log out

**Portal User Interface**

**Portlets**

Install  
Manage Applications  
Web Clipping  
Portlet Manager  
Portlet Applications  
Portlets  
Web Services

**Access**

**Portal Settings**

**Portal Analysis**

**Manage Web Services**

Search on:  All available

**Producer:** Click New Producer to create a new Producer. Click Edit to edit the properties of the Producer. Click Delete to remove the Producer. Click Assign access to allow others to work with the Producer.

Title	Description	In use
Producer 1	Producer1 description	<input type="button" value="Copy"/> <input type="button" value="Configure"/> <input type="button" value="Delete"/> <input type="button" value="Assign Access"/>
Producer 2		<input type="button" value="Copy"/> <input type="button" value="Configure"/> <input type="button" value="Delete"/> <input type="button" value="Assign Access"/>
Producer 3		<input type="button" value="Copy"/> <input type="button" value="Configure"/> <input type="button" value="Delete"/> <input type="button" value="Assign Access"/>

Showing 1 - 3 of 3 Page 1 of 1

## Manage Producer Instances (Consumer)

IBM WebSphere Portal - Microsoft Internet Explorer

Address: http://localhost/wps/myportal/ut/pf\_s7\_0\_A/7\_0\_139/cmd/ad/ar/saspf\_ActionListener.c/6\_0\_V6/

**Manage Web Services**

**Edit Producer**

Title:

Description:

URL to WSDL service definitions:

Registration handle:

**Advanced options**

[I want to enter registration properties for this Producer.](#)  
[I want to specify the user attributes that should be passed to this Producer.](#)  
[I want to set titles and descriptions for other languages.](#)

OK Cancel

## Consuming a Remote Web Service

**Portlet Manager**

Search on:

Search

**Web module:** Click **Install** to install a Web module. Select a Web module to view its portlet applications and portlets. Click **Delete** to remove the Web module from your portal or click **Access** to access others to work with the Web module.

**Install** **Consume**

Showing 1 - 10 of 49 Page 1 of 5 Jump to page: 1

Name	Status
<a href="#">BOBuilderPortlet.war</a>	
<a href="#">BusinessObjectFrameworkStruts.war</a>	
<a href="#">DominoStruts.war</a>	
<a href="#">newsgroup.war</a>	
<a href="#">reminder.war</a>	
<a href="#">mylist.war</a>	
<a href="#">SearchPortlets.war</a>	
<a href="#">WebPortlets.war</a>	
<a href="#">Blurb.war</a>	
<a href="#">urlmapping.war</a>	

Showing 1 - 10 of 49 Page 1 of 5 Jump to page: 1

## Selecting the Producer Instance

### Portlet Manager

#### Consume Web Service, Step 1: Choose Producer.

Choose a Producer from the list below to view services to consume. Or, search for a Producer and choose one from the search results to view services.

Search on:

All available

Search

#### Web Service Producers

		Showing 1 - 3 of 3	Page 1 of 1
Title	Description		
Producer 2	&nbsp;		
Producer	&nbsp;		
WSRP Producer	&nbsp;		

Cancel

## Selecting the Portlet

### Portlet Manager

#### Consume Web Service, Step 2: Choose Web service.

Choose a Web service from this Producer to consume. Or, search for a service within this producer and choose one from the search results to consume.

Search on:

All available

Search

#### Web Service Producers > WSRP Producer

		Showing 1 - 1 of 1	Page 1
Select	Title	Group (Portlet Application)	Description
<input checked="" type="checkbox"/>	ClassRegistration portlet	WSRP Producer	

OK

Cancel

### Portlet Manager

APPM1801I: Web module(s) have been consumed.

Search on:

All available

Search

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Search

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## Latest Search Features in v5.1!

- Able to search more content sources including WCM
- Portal Search Box in Theme
  - Links to Search Center Portlet
  - Passes "search String" to Search Center Portlet to render results
- Extended Search Capabilities
  - Can tie into other Search Engines Internal or External
  - Links to IBM Extended Search
- Crawl the Portal Site for Portlets that it has access to
  - Only can find main portlet frame
  - Can search Anonymous pages both locally and remote
- Security on Portal Searches
  - Portal related resources and Document Libraries will only see what you can see
- Search can reside on another machine

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## Portal Search Engine

- A Portal Search Engine facilitates indexing and searching for information
- The Search Engine includes:
  - Overall search capabilities
  - Crawler
  - Indexer
  - Summarizer
  - Taxonomy and categorizer
- To enable the search services in the portal you need to perform the following administrative tasks:
  - Defining the content that you want to make available for search
  - Defining the properties of the full text index which allows for fast and efficient searches.

## Creating a New Search Collection

**Manage Search Collections**

**Search Collections:**

- PortalCollection

**Collection Status**

Last update completed: 2/2/05, 08:56  
Next update scheduled: 2/2/05, 08:56  
Number of Active documents: 0  
Collection location: PortalCollection  
Collection name: PortalCollection  
Collection language: English  
Categorizer used: None  
Summarizer used: None

**Defines the New Search Collection next we will add Content Locations**

**Manage Search Collections**

\* Location of Collection: ITCollection

Name or Collection: IT

Description of Collection: IT Documents

Specify Collection Language: English

Select Categorizer: None

Select Summarizer: None

☒ Remove common words from queries (e.g. in, of, on, etc.)

OK Cancel



## Adding Content Sources to a Collection

Content Source Update Schedule:

Status

Running: No

Number of documents collected: 0

Run time: 0

Looks for Documents in both locations  
Can Set specific search criteria for content sources

Manage Search Collections

Create a New Content Source

Collection: ITCollection Content Source: http://vps.portalpot.ibm.com:9003/portalpot/development

Crawl source type: Web site Portal site

General Parameters

Collect documents linked from this URL: (e.g. http://www.ibm.com/portal/)

Portal user id: ppadmin

Portal user password: \*\*\*\*\*

Stop collecting after (min): 10

Stop fetching a document after (sec): 5

Links expire after (days): Unlimited

Remove broken links after (days): 10

Manage Search Collections

Create a New Content Source

Collection: ITCollection Content Source: http://vps.portalpot.ibm.com:9003/portalpot/development

Crawl source type: Web site Portal site

General Parameters

Collect documents linked from this URL: (e.g. http://www.ibm.com/portal/)

Level of links to follow: 5 levels

Number of documents to collect: 200

Stop collecting after (min): 10

Stop fetching a document after (sec): 5

Links expire after (days): Unlimited

Remove broken links after (days): 10

Create Cancel

## Selecting Documents

- Have the option to turn off "auto-accept" of documents so that Search Admin can "Accept" or "Reject" documents into the Collection
- Can Also Edit "Metadata" on Documents

Manage Search Collections

Pending Documents in Collection - ITCollection, 28 documents

Accept All Reject All page 1

1 - 10

Documents: Who Is Here

Documents: People Finder

Welcome: Bookmarks

Domino Databases: Sametime Contact List

Mail: Sametime Contact List

Address Book: Sametime Contact List

Team Spaces: People Finder

My Workplace: Domino Extended Products Welcome

Calendar: Sametime Contact List

Welcome: Welcome to WebSphere Portal

1 - 10

Reset Apply Refresh Back

## Register the Collection with Portal

- This will allow all documents contained in this Collection to be accessible through the Search Center
- Also will see number of documents contained in the Collection
- There can be multiple Search Collections for the Portal (Virtual Portal example)

**Manage Search Collections**

Search Collections

PortalCollection	Create Collection Delete Collection Unregister Collection Refresh Import or Export Add Document Pending documents Browse Documents
IT	

Collection is registered to index catalog

**Collection Status**

Last update completed: 2/2/05, 15:06  
 Next update scheduled:  
 Number of Active documents: 228  
 Collection location: ITCollection  
 Collection name: IT  
 Collection description: IT Documents  
 Collection language: English  
 Categorizer used: None  
 Summarizer used: None

## Search Center Portlet

- Tabs for Document Libraries (PDM) as well as different registered Collections
- User selects Tab to display results
- Can customize this screen to suit their Searching needs

**Search Center**

Each tab represents a source that you can search. Click another tab to display results from that source.

Document Libraries PortalCollection

Search for: portal Search Clear Search

Results found for portal

100% **WebSphere Portal zone: New to WebSphere Portal**  
 This page provides new WebSphere users with documentation and resources that introduce them to the list.  
<http://www.ibm.com/developerworks/websphere/portal/> December 9, 2004

99% **IBM WebSphere Portal Family**  
 IBM WebSphere Portal for WebSphere provides a single point of interaction with dynamic information, so  
 user's access to personalized information and applications.  
<http://www.ibm.com/developerworks/websphere/portal/> February 2, 2005

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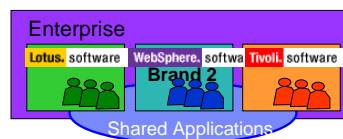
My Portal Administration **My Portal** **My Work** **My Tasks** **Sales** **HR** **IT**

Search

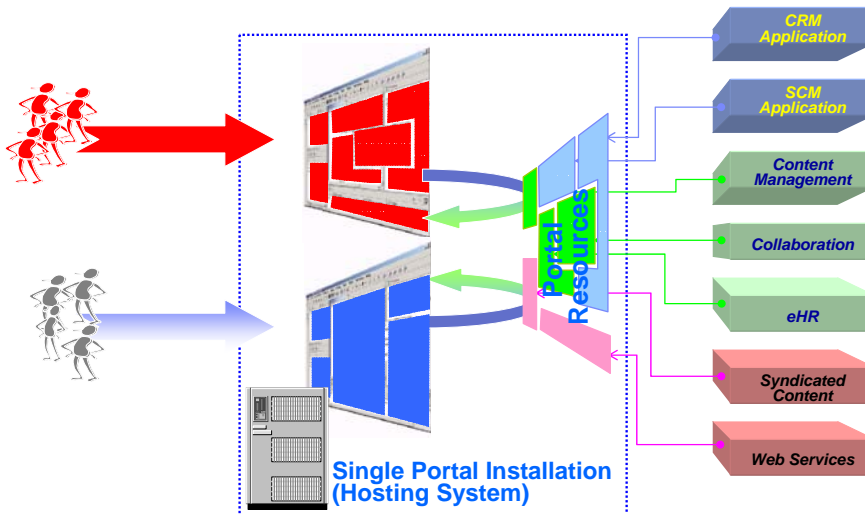
## Virtual Portals

## Overview

- Ability to create additional Portal instances ...
  - on the same hardware system
  - without repeating the software installation procedure
  - with separated/isolated resources and user population
  - by partitioning an existing Portal installation into „logical“ Portals
- These “logical” Portals can be leveraged by different usage scenarios e.g.
  - An Enterprise expose multiple Portal Sites for different organizational units, franchises, business partners (“Branding”)
- Virtual Portals can have different user populations
  - These user populations must be same LDAP Domain though
- These “logical” Portals are referred to as “Virtual Portals”



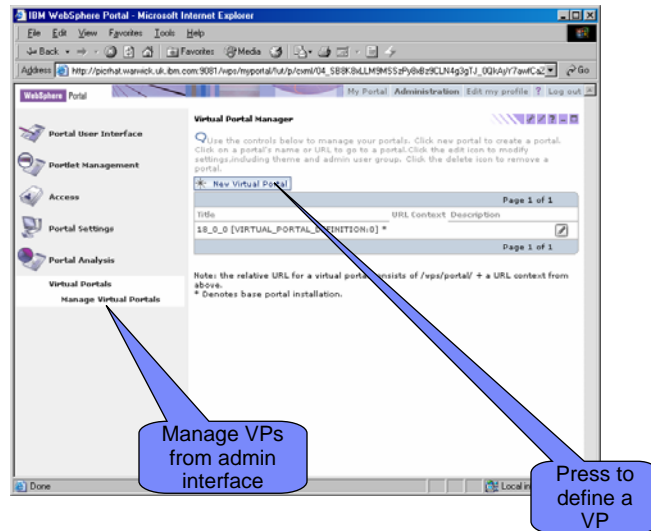
## Partitioning Portal into “Logical” Portals



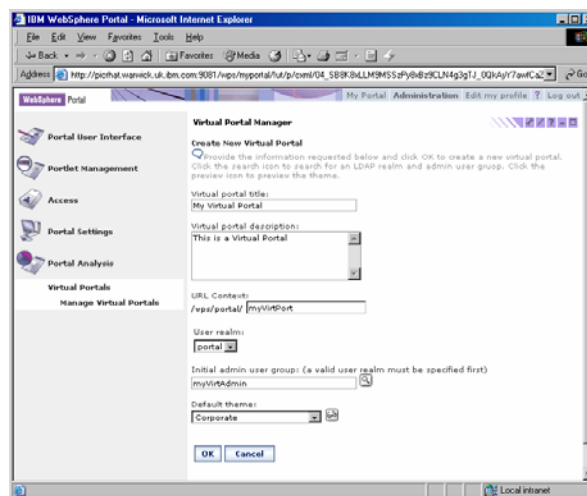
## User Realms

- Aggregate users of one or more subdomains of a single LDAP and expose them to WebSphere Portal
- A realm is mapped to a particular Virtual Portal
  - Each Virtual Portal uses exactly one realm, but a realm can be used by multiple Virtual Portals.
  - All Virtual Portals on one System can use a common realm
- WMM must be used for authentication
  - `enable-security-wmmur-ldap`
  - wmm.xml and wmmur.xml
- WAS LDAP can be configured as an alternative to WMM, but it does not support realms

## Administering Virtual Portals



## Administering Virtual Portals



## XMLAccess and Virtual Portals

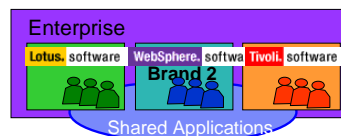
- Use the unique URL to update resources for a virtual portal

```
xmlaccess -user user -password password -url  
http://localhost:8081/wps/config/URL_mapping_context_of_the_VP -in XML_file -out result.xml
```

- Export/Import the contents for one virtual portal
- Limited to “master” Administrator of entire Portal
- Deploying a portlet makes it available to entire Portal

## Not recognized by Virtual Portals

- Search is common
  - ▶ Any document available to Search by the Portal will be return in the index
  - ▶ Different URLs for each virtual portal however will require maintaining multiple search indexes
- Document Manager and Personalization
  - ▶ A Document Library will be shared across all Virtual Portals if the Personalization and PDM portlets are available to the Virtual Portal
  - ▶ Different URL but points to the same resource
  - ▶ Create separate Document Libraries if you want document library unique to different Virtual Portals



## Session Summary

- Now that you have completed this session, you should be able to:
  - ▶ Include URLs into your Portal
  - ▶ Understand Global Settings for the Portal
  - ▶ See value in using Custom Unique Names
  - ▶ Create a URL Mapping to a Portal Page
  - ▶ Understand how to utilize Web Services in the Portal
  - ▶ Be able to create and Administer Virtual Portals
  - ▶ Create and manage Document Collections for Portal Search

## Lab Exercise 1.3

- Lab 1.3 – General Administration
  - ▶ Create a Custom Unique Names for Pages that were created in the Basic Admin Lab
  - ▶ Create a user friendly URL with URL Mapping.
  - ▶ Create a Document Collection and maneuver the Search Center portlet