



HCL Digital Experience

HDX-ADM-200 Deployment Lab

HCLSoftware U

Creating a new generation of experts

Edition September 2024

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Introduction

In this lab, you will discover how to manage additional steps of your DX deployment. You will use the Configuration Wizard to simplify the URLs of your public website. This will also introduce you to how to update the DX configuration services in two ways, using the DXClient and access to the IBM WebSphere Solution Console. And you learn how to use XMLAccess to make modifications to your DX server.

In this DX administrator lab, you play the role of Harry, an administrator for the fictitious Woodburn Studio company.



Harry Pappus, Administrator, based in Chicago (USA)

As a DX Administrator, you will experience how you may use the Configuration Wizard to remove the navigational state of the Woodburn Studio page URLs.

Prerequisites

1. Completion of [HDX-INTRO](#) and [HDX-BU-100](#) courses, as well as the previous lessons under [HDX-ADM-100](#) course, including the labs
2. Have a running DX instance on CF221 or newer. The lab is using the DX Solution Modules in HCL SoFy (<https://hclsofy.com/catalog/dx-solution-modules>).
3. Access to download the Lab Resources. In the same place where you have found this lab, you will find corresponding resources which you may download and unzip in your Desktop. This helps you to run the lab more easily, and you may later replace it by your own ones.

You will be using the following user IDs and passwords:

Purpose	User	Password
DX Login	hpappus (or wpsadmin)	HCL-Dem0 (or wpsadmin)
Integrated Solution Console Login	wpsadmin	wpsadmin
Configuration Wizard	wpsadmin	wpsadmin

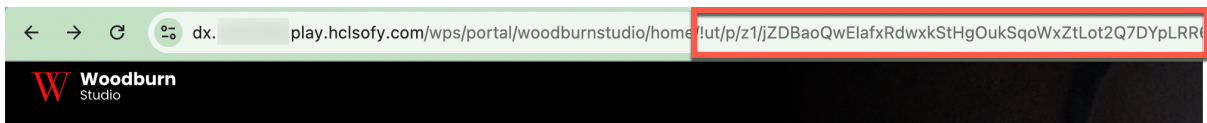
Lab Overview

In this lab, you will discover how to run the Configuration Wizard to remove the navigational state of the Woodburn Studio page URLs.

In this lab, there is only one part.

Part 1: Remove the navigational state of URLs for Woodburn Studio

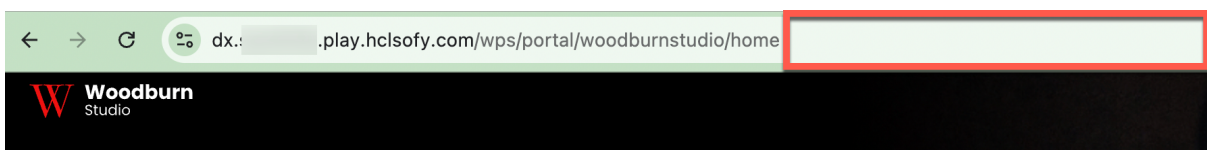
First, you will connect to the Configuration to remove the navigational state for Woodburn Studio page URLs.



You will use the automated and manual steps (using DXClient and XMLAccess import) of the Configuration Wizard for this process.

Step	Task	Status
1	Remove navigational state information from your friendly URL. View Step Command Run Step Skip Step	Complete View Result
2	Optional manual step: Disable friendly URL redirects. Instructions for Step 2 Mark Step Complete	Complete
3	Optional manual step: If you are using a custom theme, then run manual steps for enabling hasBaseURL. Instructions for Step 3 Mark Step Complete	Pending...
4	Restart the Digital Experience Portal server. View Step Command	Not Started

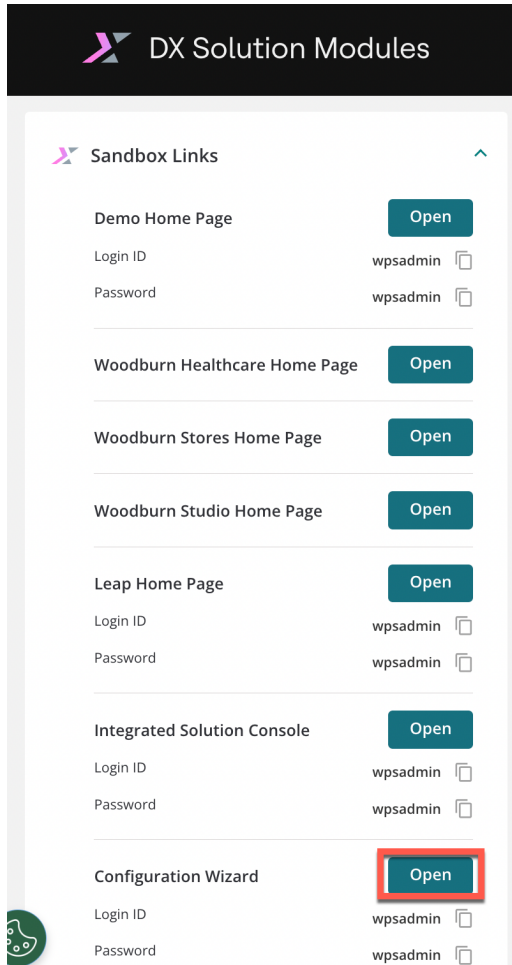
Once completed, it shows the page URLs without the navigational state.



Part 1: Remove the navigational state of URLs for Woodburn Studio

First, you will connect to the Configuration to remove the navigational state for Woodburn Studio page URLs. You will use the automated and manual steps (using DXClient and XMLAccess import) of the Configuration Wizard for this process. Once completed, it shows the page URLs without the navigational state.

1. Open the Configuration Wizard first. On the server where the DX Solution Modules has been installed, next to **Configuration Wizard**, click **Open**. Check the Configuration Wizard admin user and password.



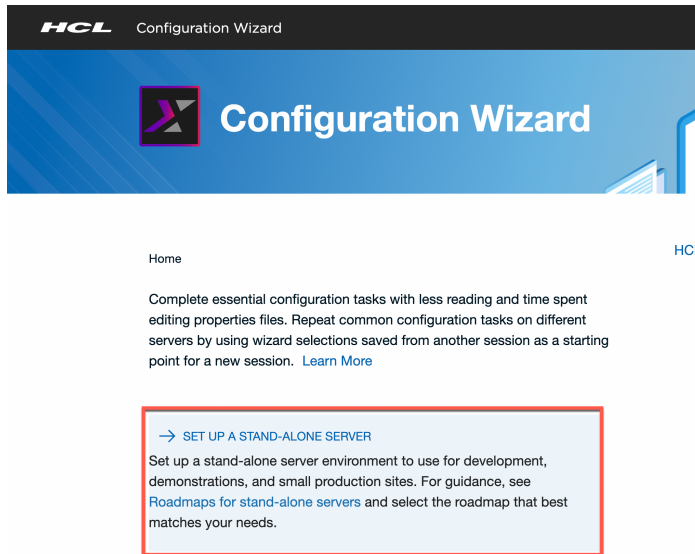
2. This opens a URL that looks like <your host>/hcl/wizard. Now login as the Configuration Wizard administrator, **wpsadmin** with password **wpsadmin**. Click on **Log In**.

Log in with the Configuration Wizard administrator credentials

User ID:

Password:

- Have a look around at the different options. You want to remove the navigational state. The DX deployment on HCL SoFy is using Kubernetes. Hence, you need use the stand-alone option. Click **SET UP A STANDALONE SERVER**.



- Then click **MODIFY SITE URLS FOR SEARCH ENGINE OPTIMIZATION**.

Home / Set Up a Stand-alone Server

Set Up a Stand-alone Server

Set up a stand-alone server environment to use for development, demonstrations, and small production sites. For guidance, see [Roadmaps for stand-alone servers](#) and select the roadmap that best matches your needs. [Learn More](#)

→ DATABASE TRANSFER

Select this option to transfer data from Apache Derby to any of the database types that are supported by Digital Experience Portal.

→ ENABLE FEDERATED SECURITY

Add an LDAP user registry to the default federated repository to store user account information for authorization.

→ MODIFY SITE URLS FOR SEARCH ENGINE OPTIMIZATION

Change or remove /wps/portal (context root and default home values) to create shorter, human-readable URLs. Select an option to remove navigational state information from site URLs. For example, you can change the URL as follows:

Original URL:

`http://www.example.com:port/wps/portal/products/[!ut/p/encoded_portal_suffix]`

Modified URL:

`http://www.example.com:port/products/`

5. Check the values, that should be correct and click >.

Home / Set Up a Stand-alone Server / Modify Site URLs for Search Engine Optimization

Modify Site URLs for Search Engine Optimization

1 Answer Questions *In progress* **2** Customize Values **3** Configure

Answer questions about your environment so that the wizard can determine which fields you must complete. Then, you can run the configuration, save your settings, or download the instruction and script files to run later. If you saved your settings from a previous session, you can upload the settings now. [Learn More](#)

[Upload Saved Selections](#)

System Information **Environment Settings** **URL Settings**

Target operating system: Linux

Target portal profile name: wp_profile
Example: wp_profile

Target portal profile home directory: /opt/HCL/wp_profile

< >

6. With your Kubernetes deployment on HCL SoFy, you are not using an external web server. Select **No** and click >.

Home / Set Up a Stand-alone Server / Modify Site URLs for Search Engine Optimization

Modify Site URLs for Search Engine Optimization

1 Answer Questions *In progress* **2** Customize Values **3** Configure

Answer questions about your environment so that the wizard can determine which fields you must complete. Then, you can run the configuration, save your settings, or download the instruction and script files to run later. If you saved your settings from a previous session, you can upload the settings now. [Learn More](#)

[Upload Saved Selections](#)

System Information **Environment Settings** **URL Settings**

Do you use an external web server: ☐ Yes ☒ No

Do you use HCL Web Content Manager: ☒ Yes ☐ No

< >

7. As you only want to remove the navigational state and keep the portal context wps/portal, change the **Do you want your portal URL to contain navigational information** and **Do you want to modify or remove your content root** to **No** and click **>**.

Home / Set Up a Stand-alone Server / Modify Site URLs for Search Engine Optimization

Modify Site URLs for Search Engine Optimization

1 Answer Questions
In progress

2 Customize Values
In progress

3 Configure

Answer questions about your environment so that the wizard can determine which fields you must complete. Then, you can run the configuration, save your settings, or download the instruction and script files to run later. If you saved your settings from a previous session, you can upload the settings now. [Learn More](#)

[Upload Saved Selections](#)

System Information	Environment Settings	URL Settings
Do you want your portal URL to contain navigational state information : <div> <input type="radio"/> Yes <input checked="" type="radio"/> No </div>		
Do you want to modify or remove your context root: <div> <input type="radio"/> Yes <input checked="" type="radio"/> No </div>		
Connect to the portal server to validate settings: <div> <input checked="" type="radio"/> Yes <input type="radio"/> No </div>		

8. Set the passwords for the WebSphere Application Server administrator and Digital Experience Portal administrator to **wpsadmin** and click **>**.

Home / Set Up a Stand-alone Server / Modify Site URLs for Search Engine Optimization

Modify Site URLs for Search Engine Optimization

1 Answer Questions
Complete

2 Customize Values
In progress

3 Configure

Site Information		
*WebSphere Application Server administrator ID:	wpsadmin	?
*WebSphere Application Server administrator password:	*****	?
*Re-enter the password	*****	?
*Digital Experience Portal administrator ID:	wpsadmin	?
*Digital Experience Portal administrator password:	*****	?
*Re-enter the password	*****	?
Context root:	wps Example: wps	?
Default home:	portal Example: portal	?
*Personalized home:	myportal Example: myportal	?
*WSRP context home:	wrsp Example: wrsp	?

9. Now you see the list of configuration tasks needed to remove the navigational state. Some are part of the process, some steps are manual and/or optional. Notice you may download the wizard selections and configuration scripts. Have a look at the first step command that removes the navigational state information from your friendly URL. Click its **View Step Command**.

Home / Set Up a Stand-alone Server / Modify Site URLs for Search Engine Optimization

Modify Site URLs for Search Engine Optimization

1 Answer Questions
Complete

2 Customize Values
Complete

3 Configure
In progress

Optional

Download Wizard Selections

Download your selections in case you need to run the configuration again. You can also use your selections as a starting point to set up another server. [Learn More](#)

Download Configuration Scripts

If you plan to run scripts to set up the configuration instead of running the steps from the wizard, then download an archive of the scripts. The archive is named WorkflowInstanceScriptsAll.zip. [Learn More](#)

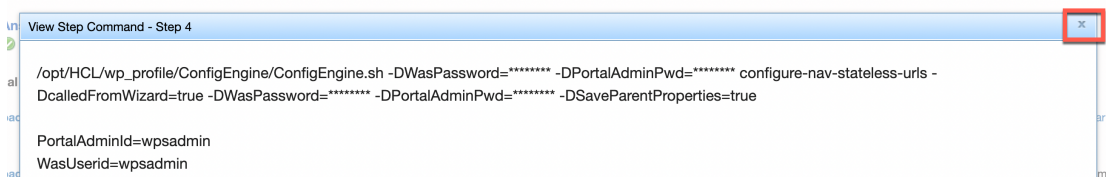
Click **Start Configuration** to begin. When the wizard reaches a manual step, it pauses the process until you can complete the manual step. You cannot cancel a running configuration. If you leave the page or lose your connection, the configuration continues to run. Log back in to return to a configuration that is in progress. [Learn More](#)

Start Configuration

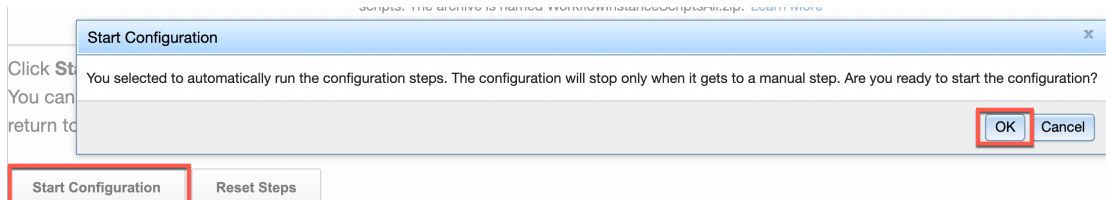
Reset Steps

Step	Task	Status
1	Remove navigational state information from your friendly URL. View Step Command Run Step Skip Step	Not Started
2	Optional manual step: Disable friendly URL redirects. Instructions for Step 2 Mark Step Complete	Not Started
3	Optional manual step: If you are using a custom theme, then run manual steps for enabling hasBaseUrl. Instructions for Step 3 Mark Step Complete	Not Started
4	Restart the Digital Experience Portal server. View Step Command Run Step Skip Step	Not Started

10. You see it runs a ConfigEngine configure-nav-stateless-urls task. Now close this.



11. Then start the configuration. Click **Start Configuration** and **OK**.



12. During the configuration you are able to view the command, its progress and results of each step. Step 2 requires a manual process. To view the instructions, click **Instructions for Step 2**.

Step	Task	Status
1	Remove navigational state information from your friendly URL. View Step Command Run Step Skip Step	Running... View Progress
2	Optional manual step: Disable friendly URL redirects. Instructions for Step 2 Mark Step Complete	Not Started

13. It shows you need to disable URL redirects. You may do this with the DXClient or WebSphere Integrated Solution Console.

Instructions for Step 2

If the incoming URL does not contain the friendly URL prefix of the addressed page, a URL redirect adds state information to the URL. Use the following steps to disable URL redirects:

1. Log in to the WebSphere Integrated Solutions Console.
2. Click **Resources > Resource Environment > Resource Environment Providers**.
3. Find the WP ConfigService Resource Environment Provider.
4. Select **WP ConfigService > Custom properties**.
5. Find the property friendly.redirect.enabled and set the value to false. If this property does not exist, add it as a new custom property and set the value to false.
6. Apply the changes and save them to the Master Configuration.

14. Once the first step is completed, it is paused and requires you to act on the manual step 2. You are guided with instructions. Click **OK**.

Paused

Configuration paused. You must complete "Optional manual step: Disable friendly URL redirects." to continue. After you complete the step, click **Mark Step Complete** to continue with the configuration.

OK

15. Now disable the URL redirect. Use the following DXClient command
 dxclient resource-env-provider update-property -providerName "WP ConfigService" -propertyName friendly.redirect.enabled -propertyValue false
 Use dxProfileName wp_profile, dxWASUsername and dxWASPassword wpsadmin.

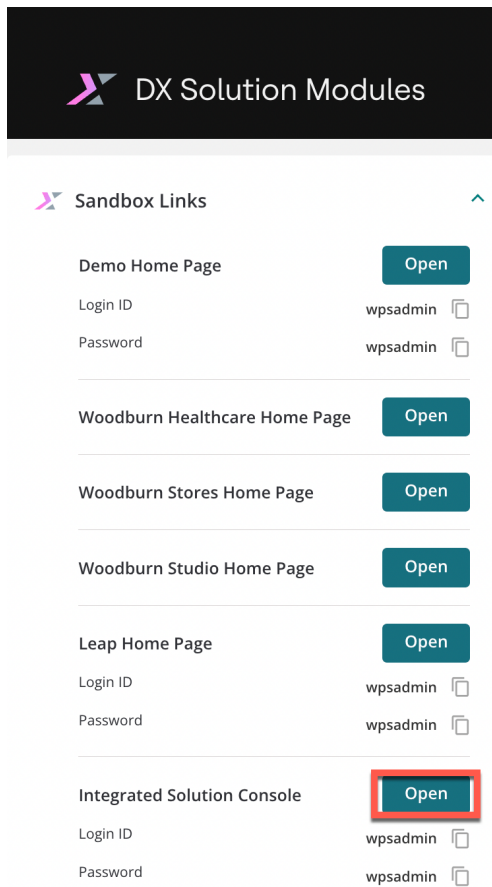
```
herberthilhorst@dxclient % dxclient resource-env-provider update-property -providerName "WP ConfigService" -propertyName friendly.redirect.enabled -propertyValue false

(node:6073) Warning: Setting the NODE_TLS_REJECT_UNAUTHORIZED environment variable to '0' makes TLS connections and HTTPS requests insecure by disabling certificate verification.
(Use 'node --trace-warnings ...' to show where the warning was created)
2024-09-03 16:30:06 : Updated Resource Environment Provider property successfully.
2024-09-03 16:30:06 : You must restart the server for the changes to take full effect.
To restart, you can run either the 'restart-core-pods' command (Kubernetes deployment) or the 'restart-dx-server' command (non-Kubernetes deployment).
For more information see: https://opensource.hcltechsw.com/digital-experience/latest/extend_dx/development_tools/dxclient/dxclient_artifact_types/dxcoreserver/
herberthilhorst@dxclient %
```

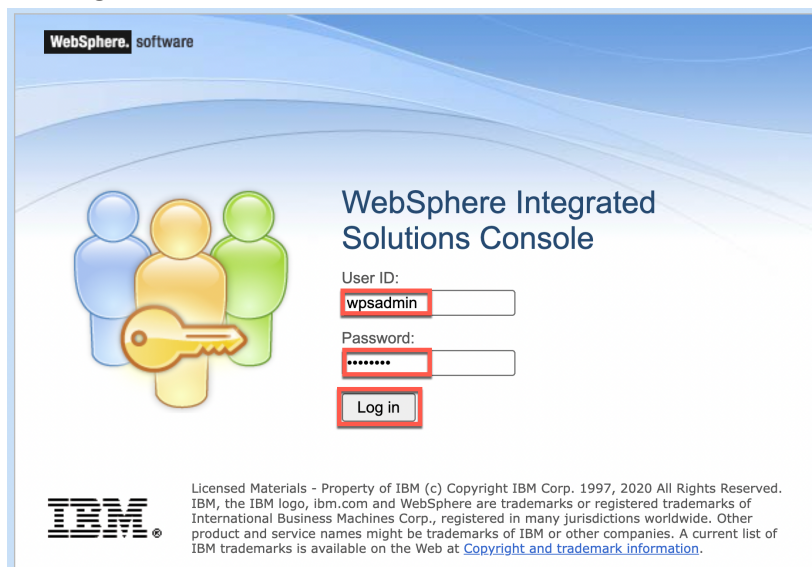
16. Notice you need to restart using DXClient restart-core-pods. Run this now. You may add the dxWASUsername and dxWASPassword parameters set to wpsadmin.

```
herberthilhorst@dxclient % dxclient restart-core-pods -dxWASUsername wpsadmin -dxWASPassword wpsadmin
2024-09-03 16:47:39 : Sending DX Core Pods restart request.
(node:15232) Warning: Setting the NODE_TLS_REJECT_UNAUTHORIZED environment variable to '0' makes TLS connections and HTTPS requests insecure by disabling certificate verification.
(Use 'node --trace-warnings ...' to show where the warning was created)
2024-09-03 16:48:13 : DX Core Pods restart initiated successfully.
herberthilhorst@dxclient %
```

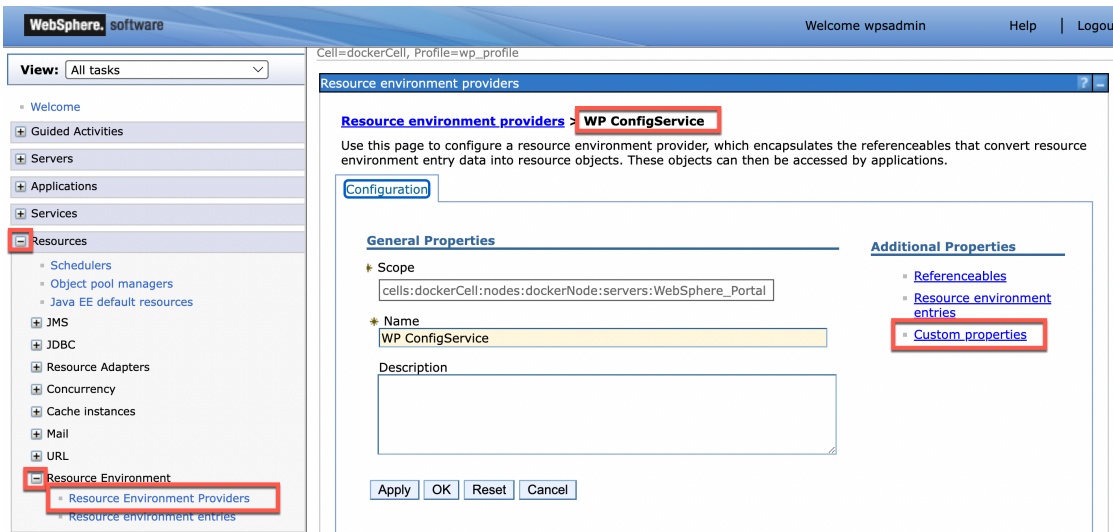

17. Alternatively, you may use the Integrated Solution Console from your SoFy DX Solution Modules. You may now also use to check if the property is available and properly set. Click **Open**.



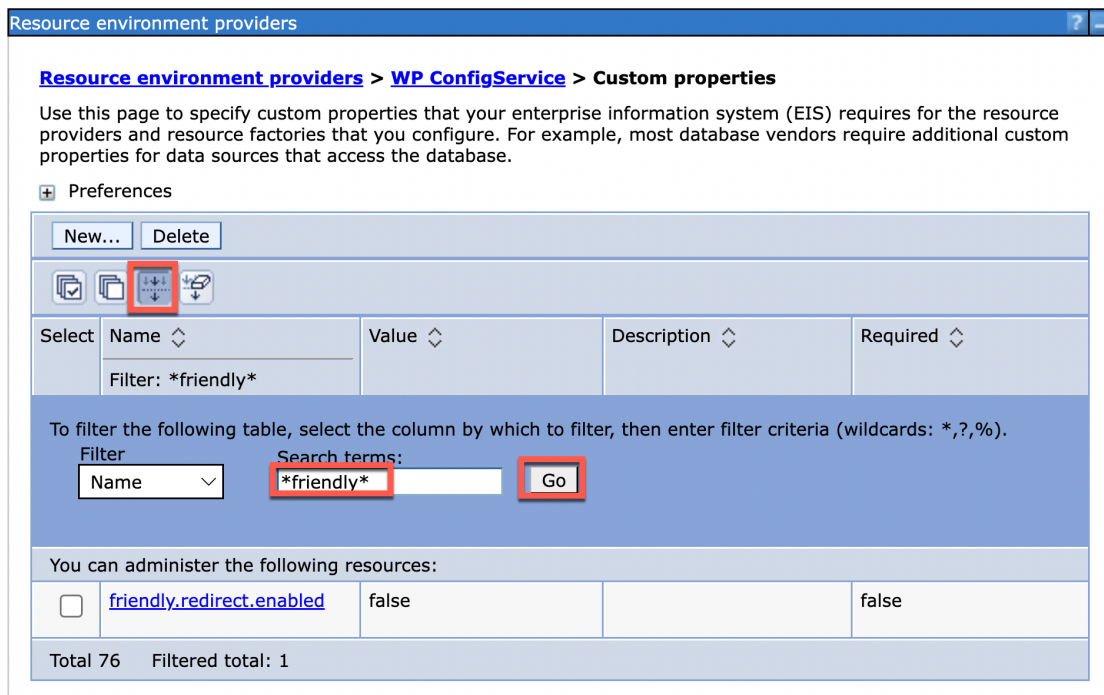
18. Use the login ID and password on this URL, which looks like <your host>/ibm/console, and click **Log In**.



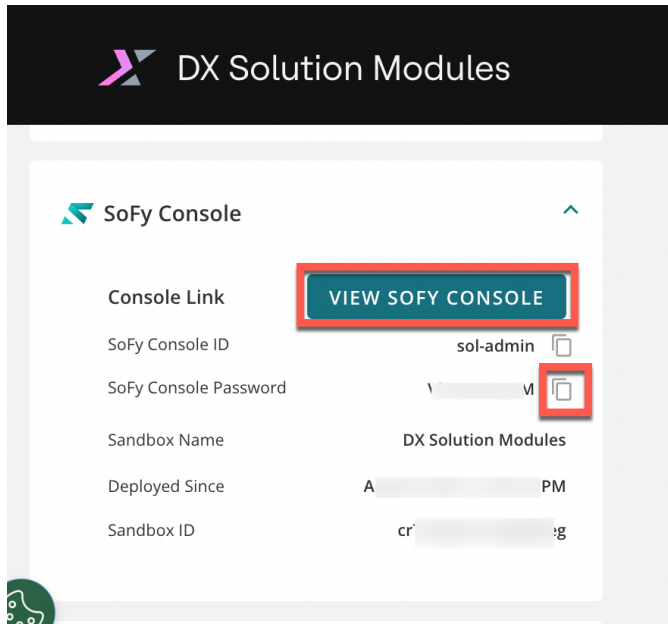
19. Then navigate to **Resources – Resource Environment – Resource Environment Providers – WP ConfigService** and click **Custom properties**.



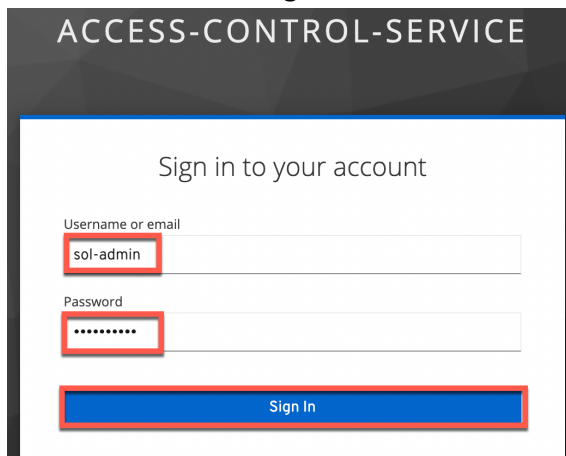
20. Then search for the `friendly.redirect.enabled` property. Click the **filter** icon, set the **Search terms** to `*friendly*` and click **Go**. You see it now exists and is correctly set to false (initially it was not there). You could have selected and updated it, or added using the New... icon.



21. Another option of restarting the DX server on SoFy, is by using the Solution Console. Go to your DX Solution Modules instance, open the **SoFy Console** section, copy the **SoFy Console Password** and click the **VIEW SOFY CONSOLE**.



22. Then log in with **Username or email sol-admin** and paste the copied password under **Password**. Then click **Sign In**.



23. This gives you access to your instance. Click on **Pods**.

The screenshot shows the Solution Console Dashboard for 'sofy-dx-demo-pack'. The dashboard includes a sidebar with navigation options like Dashboard, Solution Content, Kubernetes Resources, and Logs Viewer. The main content area displays 'Solution Content (3)' with cards for DX Solution Modules, HCL Digital Experience, Solution-Controller, and SoFy Common Services. Below this, the 'Kubernetes Resources & Utilization' section shows metrics for Deployments, PVCs, Statefulsets, and CPU usage. A red box highlights the 'Pods' section, which shows a donut chart indicating 24 Pods, all in a 'Ready' state.

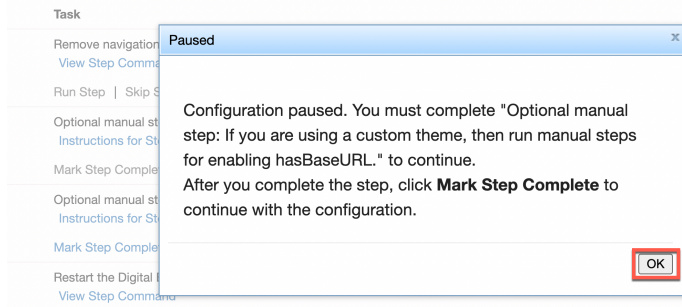
24. To restart the DX server, you need to select the pod that ends with **-core-0** and click the delete icon. It will ask you to confirm. If you have not yet restarted the server, then click **OK**. Otherwise, click **Cancel**.

The screenshot shows the 'Pods' list in the Solution Console. The table lists pods with columns for Name, Ready, Status, Restart(s), Containers, Init Container(s), Age, and Action. A pod named 'cr7fntg1fco7g2860eg-core-0' is highlighted with a red box. A delete icon (trash can) is also highlighted with a red box. A confirmation dialog box is shown, asking 'Delete pod cr7fntg1fco7g2860eg-core-0?' with 'CANCEL' and 'OK' buttons.

25. Then go back to the Configuration Wizard. As you have completed step 2, click **Mark Step Complete**.

Step	Task	Status
1	Remove navigational state information from your friendly URL. View Step Command Run Step Skip Step	Complete
2	Optional manual step: Disable friendly URL redirects. Instructions for Step 2 Mark Step Complete	Pending...
3	Optional manual step: If you are using a custom theme, then run manual steps for enabling hasBaseURL. Instructions for Step 3 Mark Step Complete	Not Started

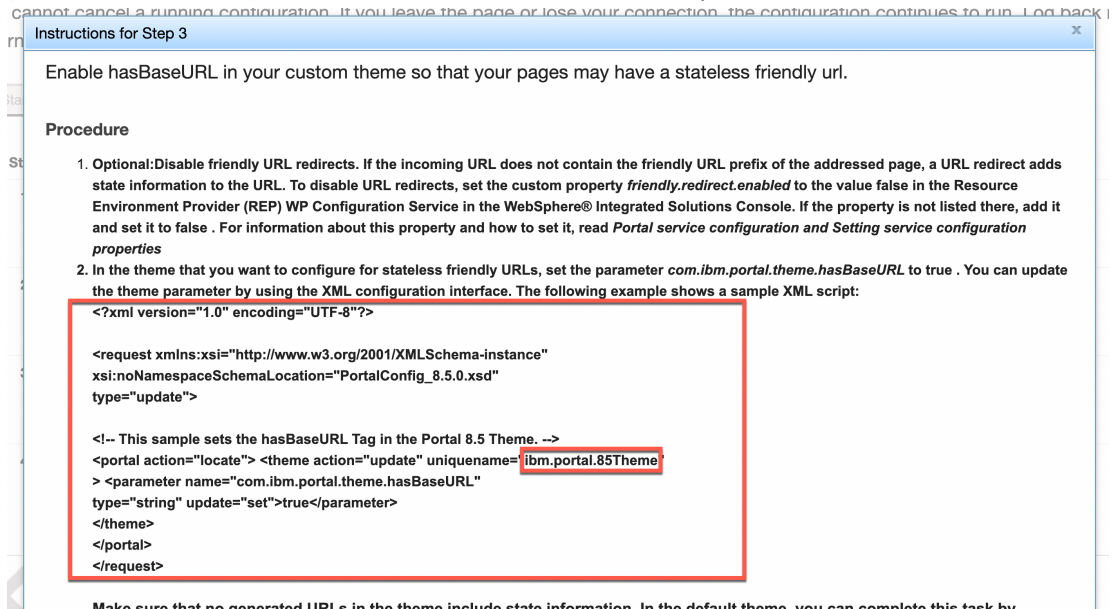
26. Again it pauses. Click **OK**.



27. Then take a look at the instructions of step 3. Click **Instructions for Step 3**.

Step	Task	Status
1	Remove navigational state information from your friendly URL. View Step Command Run Step Skip Step	Complete
2	Optional manual step: Disable friendly URL redirects. Instructions for Step 2 Mark Step Complete	Complete
3	Optional manual step: If you are using a custom theme, then run manual steps for enabling hasBaseURL. Instructions for Step 3 Mark Step Complete	Pending...
4	Restart the Digital Experience Portal server. View Step Command	Not Started

28. You should also disable friendly URL redirects. Configure this for Woodburn Studio. The uniqueness for the theme it uses is **hcl.portal.WSTheme**. You need the XMLAccess file (with XML extension) that has the content of the selected part below.



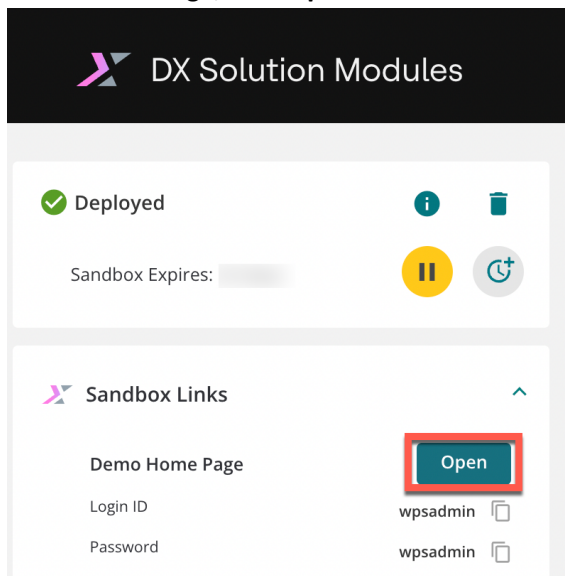
29. Update this XMLAccess file with the right uniquenessname.

```
<?xml version="1.0" encoding="UTF-8"?>

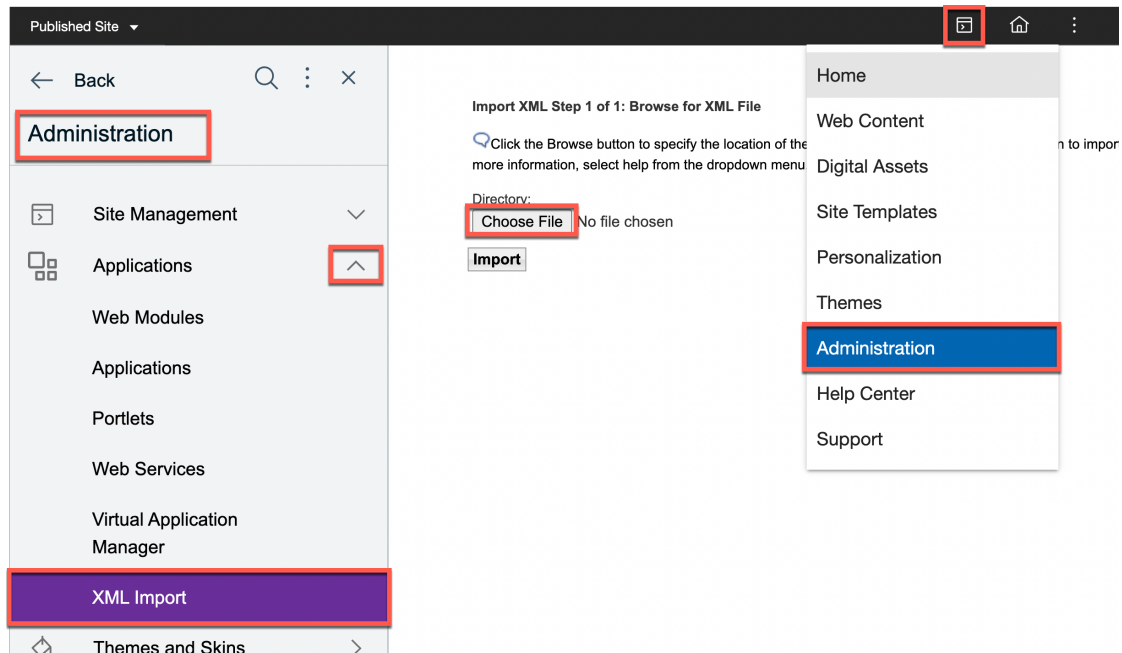
<request xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="PortalConfig_8.5.0.xsd"
type="update">

<!-- This sample sets the hasBaseUrl Tag in the Portal 8.5 Theme. -->
<portal action="locate"> <theme action="update" uniquenessname="hcl.portal.WSTheme"
> <parameter name="com.ibm.portal.theme.hasBaseUrl"
type="string" update="set">true</parameter>
</theme>
</portal>
</request>
```

30. Then run it in the **Administration** under your **Practitioner Studio**. Connect to the Demo Home of your DX server. Open the Sandbox Links on your DX Solution Modules and next to Demo Home Page, click **Open**.



31. You should be connected with the user **wpsadmin**. Then open the **applications menu**, click **Administration - Applications – XML Import** and click **Choose File**. Choose your XMLAccess file or use the file **Update Woodburn Studio theme with hasBaseURL.xml** from your downloaded files.



32. Then click **Import**.

Import XML Step 1 of 1: Browse for XML File

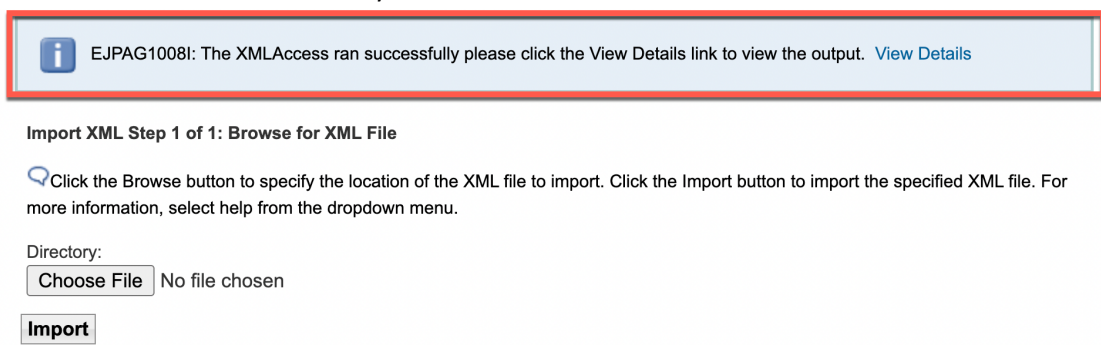
Click the Browse button to specify the location of the XML file to import. Click the Import button to import the specified XML file. For more information, select help from the dropdown menu.

Directory:

Choose File Update Woo...aseURL.xml

Import

33. It should show it run successfully.



34. Then go back to the Configuration Wizard and for step click **Mark Step Complete**. This will automatically initiate the DX server restart.

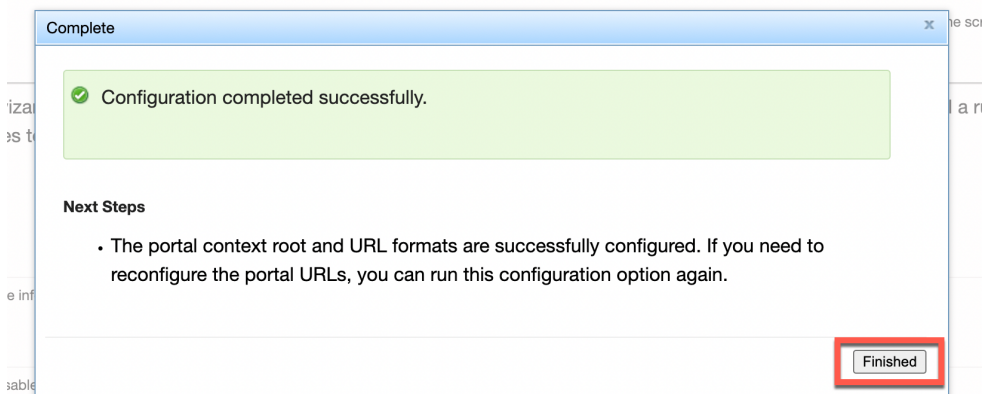
Step	Task	Status
1	Remove navigational state information from your friendly URL. View Step Command Run Step Skip Step	Complete
2	Optional manual step: Disable friendly URL redirects. Instructions for Step 2 Mark Step Complete	Complete
3	Optional manual step: If you are using a custom theme, then run manual steps for enabling hasBaseURL. Instructions for Step 3 Mark Step Complete	Pending...
4	Restart the Digital Experience Portal server. View Step Command Run Step Skip Step	Not Started

35. After a while the last step should show complete. Click **Finished**.

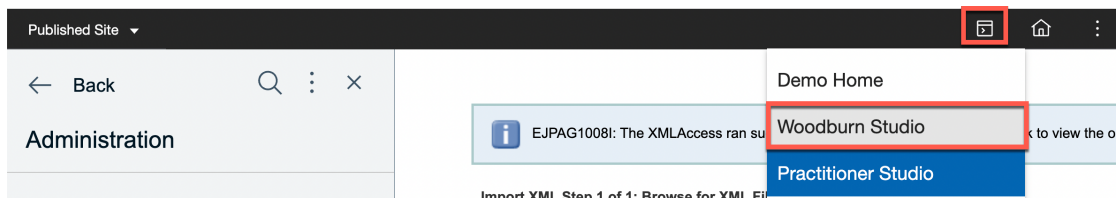
Mark Step Complete		
15	Restart the Digital Experience Portal server. View Step Command Run Step Skip Step	Complete
		View Result

Finished

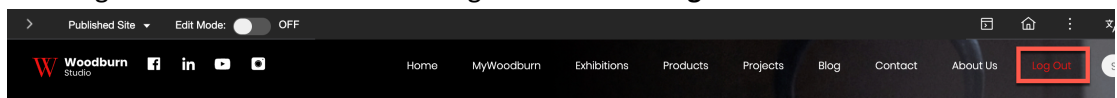
36. And you see the summary. Click **Finished** again and it brings you back to the home page of the Configuration Wizard.



37. Now check if the navigational state is no longer showing. Go to your Woodburn Studio site.



38. Then log out. Zoom out to see the navigation and click **Log Out**.



39. It may still use the existing navigational state, as it comes from a page that was still using it. Remove it from the URL and refresh the page.



40. Notice that the URLs now no longer have the navigational state. If you go to other pages, it also will not show it.



Congratulations! You successfully used the Configuration Wizard to remove the navigational state, using automated and manual steps (using DXClient and XMLAccess import).

Conclusion

Using this tutorial, you learned how to use the Configuration Wizard to make easy changes to your DX deployment. You learned how to remove the navigational state of the Woodburn Studio site.

Resources

Refer to the following resources to learn more:

HCL Digital Experience Home - <https://hclsw.co/dx>

HCL Digital Experience on HCL Solutions Factory (SoFy) - <https://hclsofy.com/>

HCL Software - <https://hclsw.co/software>

HCL Product Support - <https://hclsw.co/product-support>

HCL DX Product Documentation - <https://hclsw.co/dx-product-documentation>

HCL DX Support Q&A Forum - <https://hclsw.co/dx-support-forum>

HCL DX Video Playlist on YouTube - <https://hclsw.co/dx-video-playlist>

HCL DX Product Ideas - <https://hclsw.co/dx-ideas>

HCL DX Product Demos - <https://hclsw.co/dx-product-demo>

HCL DX Did You Know? Videos - <https://hclsw.co/dx-dyk-videos>

HCL DX GitHub - <https://hclsw.co/dx-github>

HCL DX Web Developer Toolkit - <https://github.com/HCL-TECH-SOFTWARE/WebDevToolkitForDx>

Legal statements

This edition applies to version 9.5, release 221 of HCL Digital Experience and to all subsequent releases and modifications until otherwise indicated in new editions. It uses the DX Solution Modules with additional resources in HCL SoFy.

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