

HDX-INT-ADM DX Integration with HCL Commerce for Administrators Lab

HCLSoftware Academy
for Digital Solutions

Creating a new generation of experts

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Table of Contents

Author(s) 3

Introduction 3

Prerequisites 4

Lab Overview 5

Part 1: Configure DX with HCL Commerce 6

Part 2: Configure HCL Commerce with DX 11

Optional Part 3: Integrate HCL Commerce in the Practitioner Studio 12

Conclusion 14

Resources 15

Legal statements 16

Disclaimers 17

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Introduction

This hands-on lab gets you started on the HCL Digital Experience (DX) platform and its integration with HCL Commerce. You will learn how to configure HCL Commerce and HCL DX to work nicely together. This gives you a simple way to manage your ecommerce shop in DX and use DX CMS and DAM in Commerce.

In this DX lab, you play the role of a Commerce administrator `wcsadmin`, and as Harry Pappus and `wpsadmin`, who are a DX administrators.

wcsadmin manages the integration of HCL Digital Experience in HCL Commerce

wpsadmin will trust the certificates of HCL Commerce in HCL Digital Experience



Harry Pappus, Administrator, based in Chicago (USA)

Harry will then import the Commerce web content library, set up the security for it and import a Personalization `isCommerceProductSelected` profiler rule.

Prerequisites

1. Completion [HDX-ADM-100](#) HCL Digital Experience for Administrators (Beginners) with corresponding labs. This allows you to have the DXClient setup locally and have knowledge on managing security for web content libraries.
2. To try the integration of HCL Commerce into HCL Digital Experience, access to an HCL SoFy sandbox solution with HCL DX (DX Solution Modules) & HCL Commerce deployed (DX Solution Modules is pre-integrated with a share HCL Commerce server).
3. To try the integration of HCL Digital Experience into HCL Commerce, access to an HCL SoFy sandbox solution with HCL Commerce Rich Content Management Business Solution (they have HCL Digital Experience setup to act as a CMS & DAM for HCL Commerce).
4. 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 them by your own ones.

You will be using the following user IDs and passwords:

Purpose	User	Password
SoFy Login	Your official email id	Your password
SoFy Solution Console Login	sol-admin	<from solution console>
DX Login	hpappus	HCL-Dem0
DX Login	wpsadmin	wpsadmin
Commerce Login	wcsadmin	wcs1admin

Lab Overview

In this lab, you will explore the integration of HCL Digital Experience with HCL Commerce for different use cases of the Woodburn Store site, such as managing what and how Commerce managed products to promote in a DX site. You will also learn how to configure HCL Commerce to use DX as a CMS and DAM. There are several parts in this lab, shortly introduced now.

Part 1: Configure DX with HCL Commerce

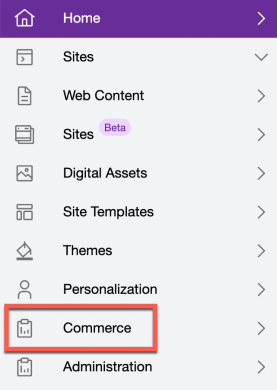
In this part you will configure HCL Digital Experience (DX) to work with HCL Commerce. As you have two servers that use both SSL, you need to manage certificates between the servers. To allow to use the Digital Data Connector, you need to set up the proxy. The integration is managed with a WCM library. You need to import a dedicated Commerce web content library in DX, setup security for it, and import an isCommerceProductSelected Personalization profiler rule.

Part 2: Configure HCL Commerce with DX

In this part you will configure HCL Commerce to work with Digital Experience (DX). It helps you finding the right resources in the Help Center.

Optional Part 3: Integrate HCL Commerce in the Practitioner Studio

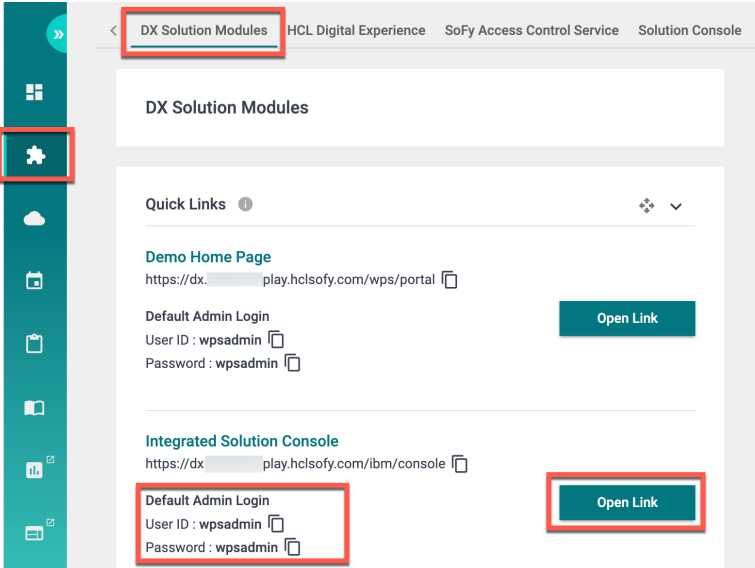
To allow practitioners to access the Commerce Management Center more easily, you may integrate access to it in the Practitioner Studio.



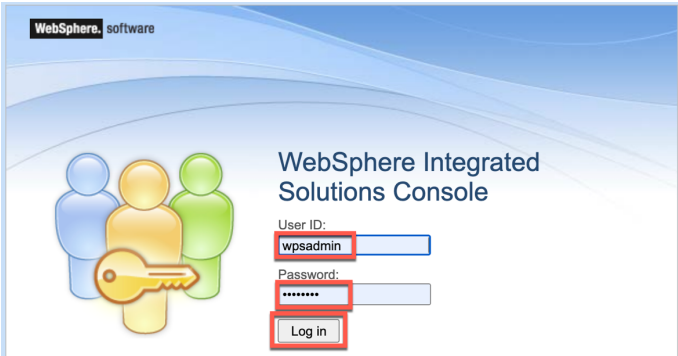
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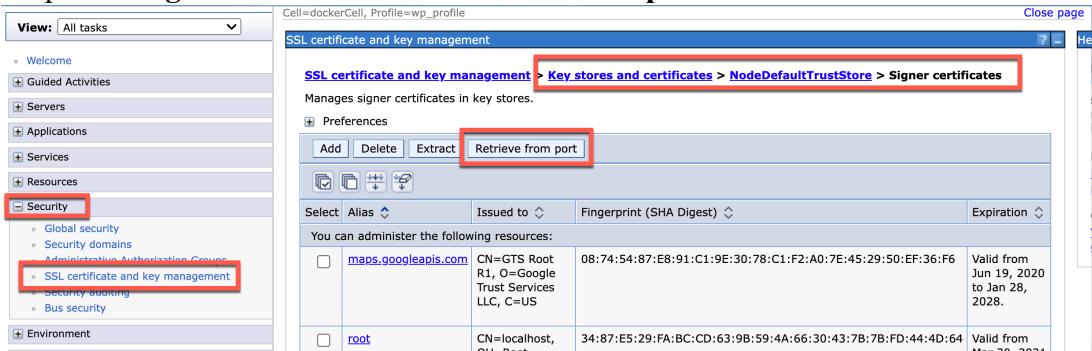
1. You need to configure the certificates. In SoFy DX Solution Modules, this is already set up for you. You may read the steps you would normally follow and then go to step 7. Log into the Integrated Solution Console. If you use HCL SoFy, go to the **Solution Content** and **DX Solution Modules** and then click **Open Link** under the Integrated Solution Console. Note default admin login User ID and Password you will need to log in. For other deployments, open a new browser tab or window and open <host>/ibm/console.



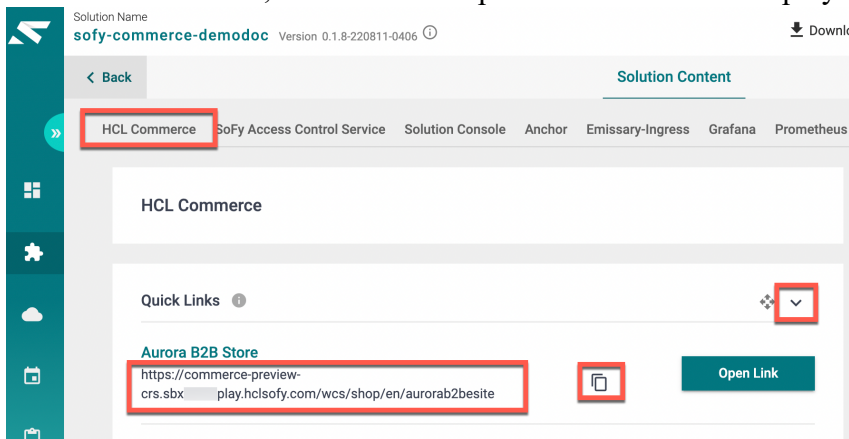
2. Then enter your admin credentials from the Solution Console: wpsadmin/wpsadmin and click **Log in**.



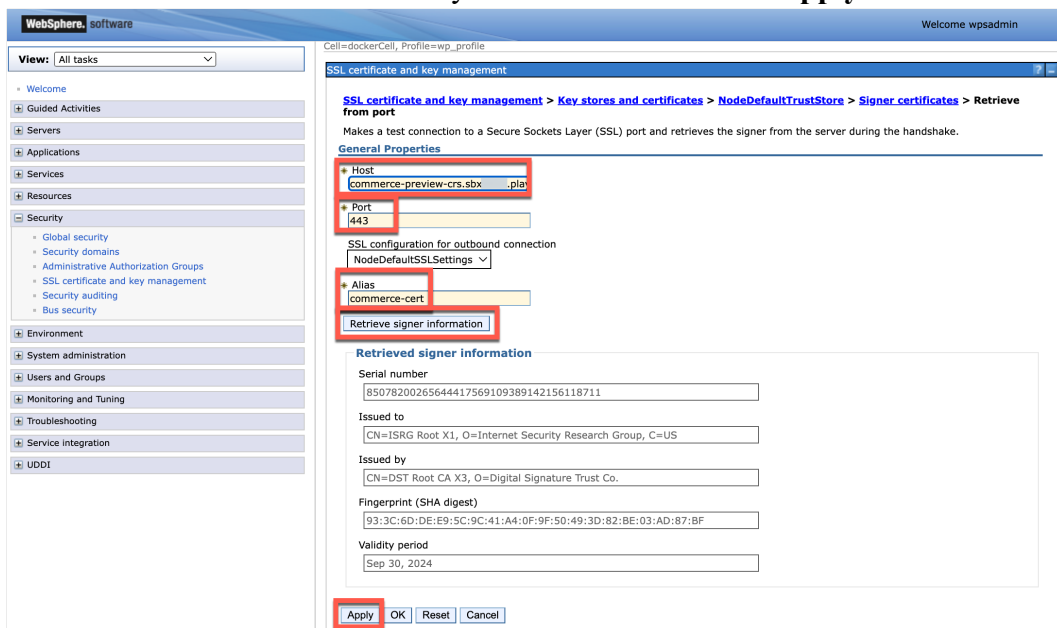
- Expand **Security** and click **SSL certificate and key management**, under Related Items **Key stores and certificates**, **NodeDefaultTrustStore**, under Additional Properties **Signer certificates** and **Retrieve from port**.



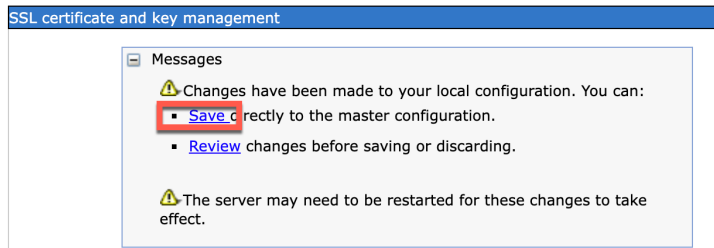
- In the **Host** field, enter your Commerce hostname, you may find from the SoFy console. In this case, it is `commerce-preview-crs.sbxXXXX.play.hclsofy.com`.



- Enter this host `commerce-preview-crs.sbxXXXX.play.hclsofy.com`, **443** (for https) in the **Port** field, and a name to distinguish this certification, e.g. `commerce-cert` in the **Alias** field. Then click **Retrieve signer information**. Verify that the certificate information is for a certificate that you can trust. Then click **Apply**.



6. And **Save** and check if your new signer certificate, commerce-cert, appears in the list. Then you may close this browser tab or window.



7. To allow to use the REST APIs from Commerce, you need to set up the outbound HTTP connection (proxy). This is also already set up for you in the DX Solution Modules. You may open a shell on a DX Core pod, as documented in https://opensource.hcltechsw.com/digital-experience/latest/deployment/manage/container_configuration/run_core_config_engine/ and then read and update the proxy-xml, using https://opensource.hcltechsw.com/digital-experience/latest/extend_dx/portlets_development/web2_ui/outbound_http_connection/cfg_outbound_http_connections/adm_tools_for_cfg_outbound_http_conn/cfg_outbound_http_using_cfgtsk/outbhttp_cfg_tsk_update/. You may use the commerce-policy.xml in the folder where you unzipped the lab resources, and then update the HCL Commerce host in the two lines for http and https:

```
<policy active="true" basic-auth-support="true" name="commerce_http_policy"
url="http://*.<commerce host>/*">
```

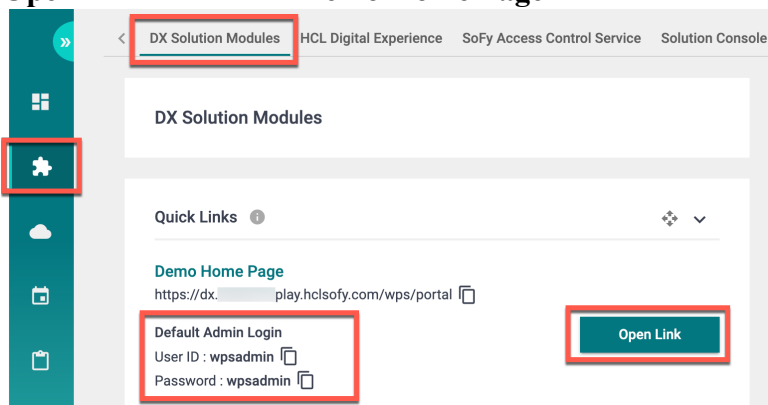
and

```
<policy active="true" basic-auth-support="true" name="commerce_https_policy"
url="https://*.<commerce host>/*">
```

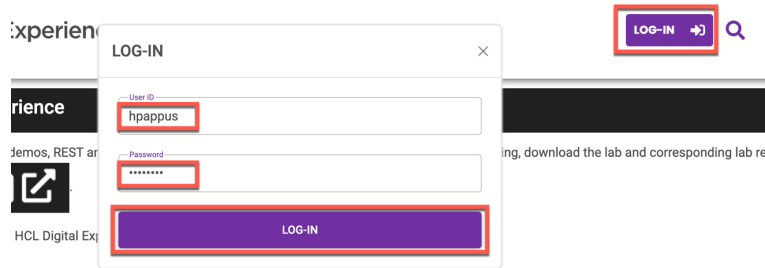
8. Then use the DXClient to import the Commerce web content library. This is library that shows how you may integrate Commerce into DX. Use the following command line.

```
dxclient wcm-library-import -libFilePath <folder where you unzipped the lab
resources>/commerce-wcm-library.zip -dxWASUsername wpsadmin -
dxWASPassword wpsadmin
```

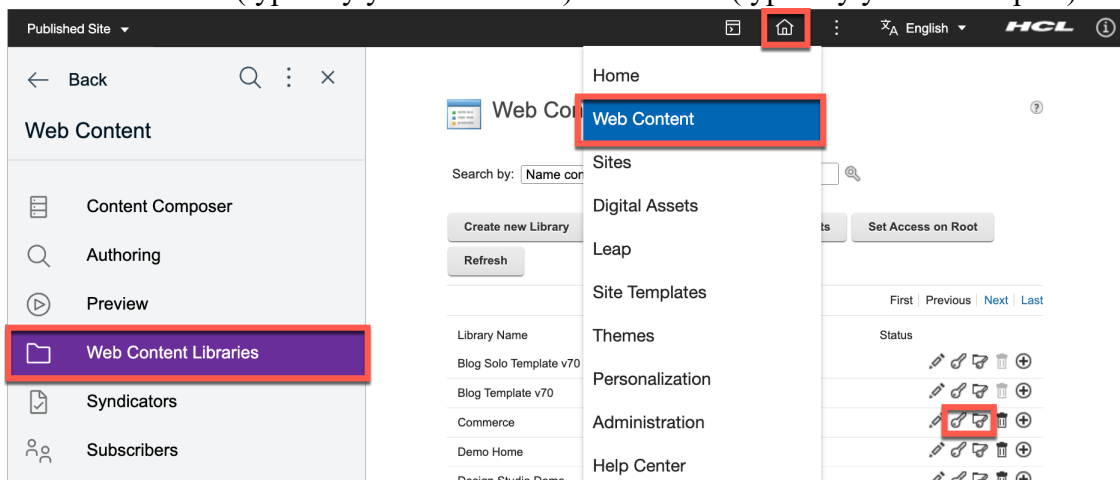
9. Then, setup the security for this library. Log in to the HCL DX server using the Solutions Console. Under **DX Solution Modules**, open the **Quick Links**, and click **Open Link** next to the **Demo Home Page**.



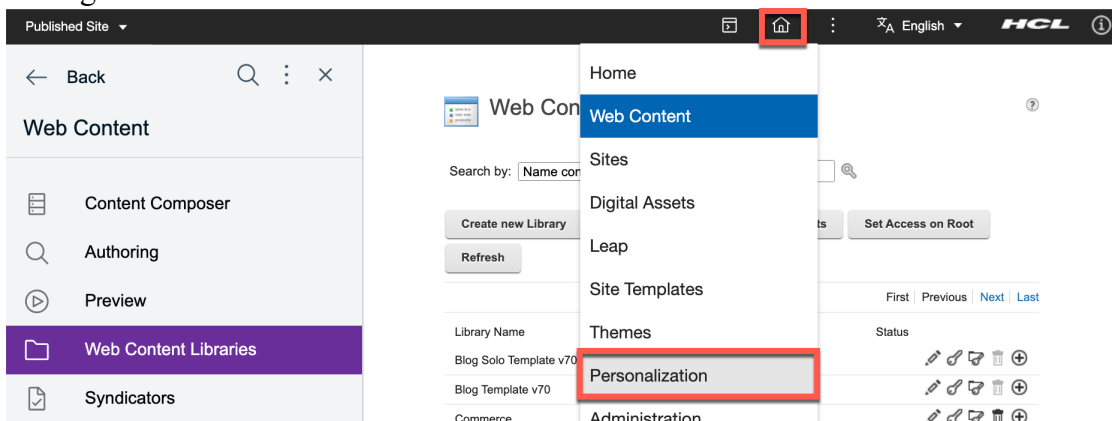
- Then log in as Harry Pappus (User ID: **hpappus**, Password: **HCL-Dem0** – if you do not have these, you may use the default administrator account with User ID: **wpsadmin**, Password: **wpsadmin**).



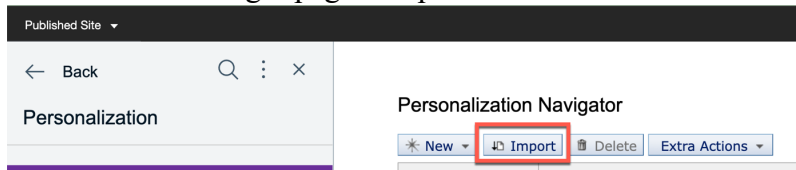
- Then open the **Practitioner Studio** and , go to **Web Content**, select **Web Content Libraries** and use the security icons for your imported Commerce library to define who are the users (typically your customers) and editors (typically your developers).



- Then go to **Personalization**.

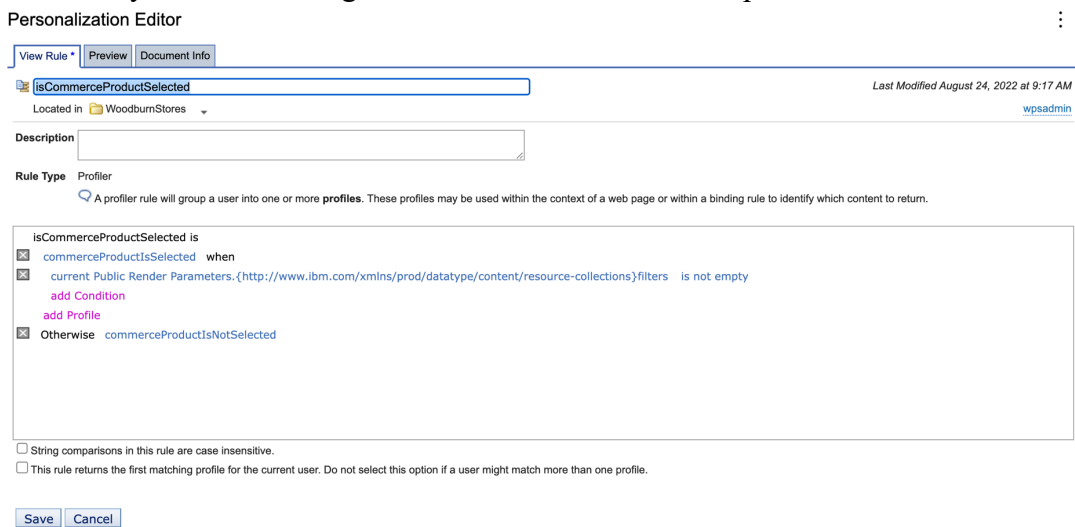


- Here you may import the isCommerceProductSelected Personalization rule that helps you understand if an HCL Commerce product is selected for the Shop page, and based on that show the right page components.



- You can also import this rule using the DXClient:
dxclient pzn-import rulesFilePath <path where you downloaded the resources>/isCommerceProductSelected.nodes

- This adds you the following isCommerceProductSelected profiler rule:



Congratulations! You have now learnt how configure HCL Digital Experience to work with HCL Commerce to manage commerce on HCL Digital Experience sites. Now your developers can complete the configuration of your site.

Part 2: Configure HCL Commerce with DX

In this part you will configure HCL Commerce to work with Digital Experience (DX). It helps you finding the right resources in the Help Center.

The HCL Commerce Help Center describes all details on the integration:

https://help.hcltechsw.com/commerce/9.1.0/integration/concepts/dx_introduction.html.

As an administrator, you are mostly concerned with Deploying HCL Digital Experience with HCL Commerce. Follow the steps, documented in

https://help.hcltechsw.com/commerce/9.1.0/integration/refs/dx_installtop.html.

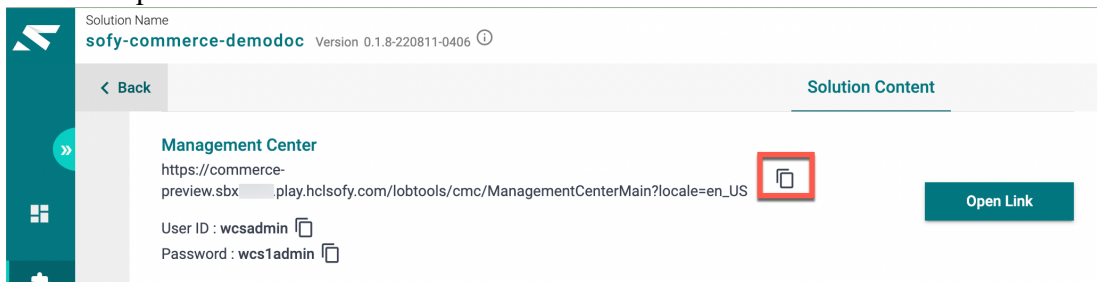
on these two parts

- [Deploying HCL Digital Experience with HCL Commerce](#)
- [Push to Live](#)

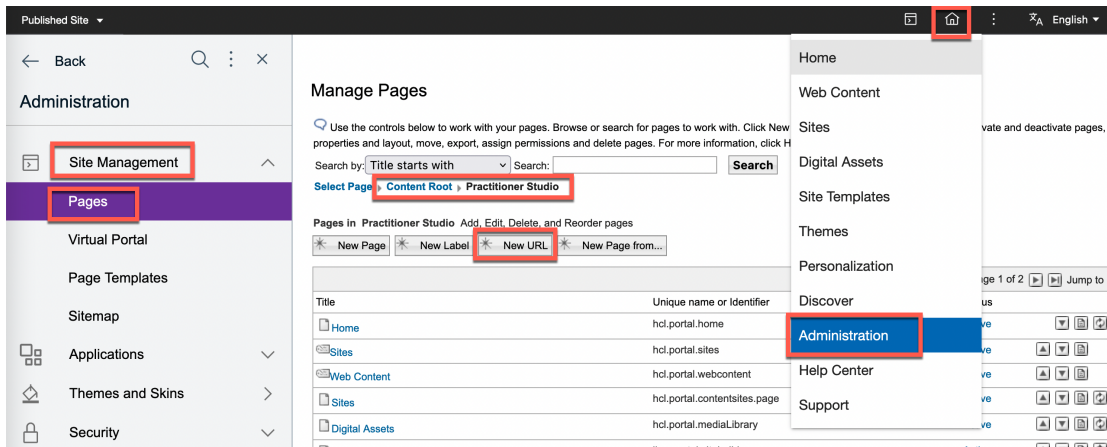
Optional Part 3: Integrate HCL Commerce in the Practitioner Studio

To allow practitioners to access the Commerce Management Center more easily, you may integrate access to it in the Practitioner Studio.

1. You first need to get the Management Center. From the Commerce SoFy Solution Console, open the **Solution Content** and under the **HCL Commerce** tab, copy the **Management Center** URL that gives you access to the Commerce Management Center. You can use the copy function for that. You may also open it, using the **Open Link** and then connect using the **User ID** and **Password** shown. Please note this, as it will be required to connect later on.



2. Then connect to your DX instance and add a new URL page to the Practitioner Studio, using this Commerce Market Center URL. Go to the **Practitioner Studio – Administration – Site Management – Pages** and select **Content Root, Practitioner Studio** and click **New URL**.



- Give it the name and friendly URL name **Commerce**, use an existing reporting icon **report_data.svg**, enter the Management Center URL you just copied in the link field and click **OK**.

New URL: Practitioner Studio

Title:

Friendly URL name:

Icon:

Aggregation - Render Mode:
 This setting will revert to SSA during runtime if the theme assigned with the page does not support CSA.

Inherit Parent Render Mode
 Client Side Aggregation - Rendering
 Server Side Aggregation - Rendering
 I want to make this page my private page

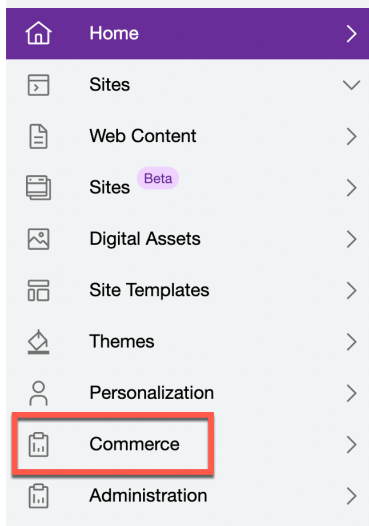
A link to the following portal page
 Select a top level page:

 Select a child page:

A link to a Web page with the following URL
 HTML

Page Cache Options

- And then you should see it integrated. You may move it up and if you click it, it will open the Commerce Management Center (using click right will open it in a different tab).



You have successfully integrated easy access to the Commerce Management Center in the Practitioner Studio.

Conclusion

Using this lab tutorial, you have learned how to configure HCL Digital Experience to integrate with HCL Commerce.

Resources

Refer to the following resources to learn more:

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

HCL Digital Experience on HCL 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>

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