

# HDX-ADM-200 Web Application Bridge Lab



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## Introduction

In this lab, you will discover how to use Web Application Bridge for HCL Digital Experience to easily integrate external web applications into DX. The Web Application Bridge (or WAB) is a DX feature that uses reverse proxy technology to integrate web applications natively in your DX sites. This allows you to use DX as the single point entry to all your applications easily.

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 Web Application Bridge to integrate an external web application, the DX Help Center, easily into DX

## Prerequisites

- 1. Completion of <u>HDX-INTRO</u> and <u>HDX-BU-100</u> courses, as well as the previous lessons under <u>HDX-ADM-100</u> course, including the labs
- 2. Have a running DX instance on CF219 or newer. The lab is using the DX Solution Modules in HCL SoFy (<u>https://hclsofy.com/catalog/dx-solution-modules</u>).
- 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		
SoFy Login	Your official email id	Your password	
SoFy Solution Console Login	sol-admin	<from sofy="" solution=""></from>	
DX Login	hpappus (or wpsadmin)	HCL-Dem0 (or wpsadmin)	
Integrated Solution Console	wpsadmin	wpsadmin	
Login			

### Lab Overview

In this lab, you will discover how to use Web Application Bridge for HCL Digital Experience to integrate the external web application HCL Digital Experience Help Center, <u>https://opensource.hcltechsw.com/digital-experience/latest/</u>, into a DX page.

In this lab, there are several parts. These are shortly introduced now.

### Part 1: Configure the Web Application Bridge with DX Help Center

First, you will configure the Web Application Bridge with the HCL Digital Experience Help Center. You will create a content provider profile with a default policy.

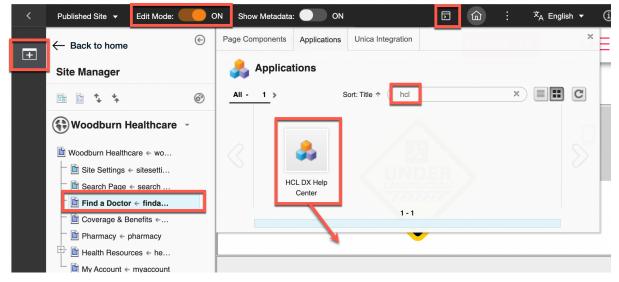
Virtual Web Application	n Manager		
Integrate web-based content from dif	ferent providers, such as Microsoft SharePoint,	into your portal site. The applications are rendered through the Web Dock Portlet usin	ng an iframe.
Content provider profiles store inform have multiple policies for each profile Learn More		cies store more information about what can and cannot be accessed from the host sil	te. You can
Content Provider Profiles			
Web Dock Applications  Content Provider Profiles	Success: Policy is created for profile		×
	Create Content Provider Profile		
	Sort by: Title 🛧 📔 👻		
	1 - 1 of 1	1	Previous Next
	HCL DX Help Center default	HCL DX Help Center Policy	
	https://opensource.hcltechsw.com		
		4/2024, 5:32:28 PM Modified On: 7/4/2024, 5:32:28 PM ProxyType: None	
	HCL Digital Experience Help Center Add Policy   Deactivate   Edit   Delete		
	Show: 2 all of the items	Jump to page 1 of 1	Previous Next

### And your HCL DX Help Center Web Dock application.

Veb Dock Applications		
Web Dock Applications	Create Web Dock Application	
Content Provider Profiles	Sort by: Title 🛧 📔 👻	
	1 - 1 of 1	1
	HCL DX Help Center Display	Client-side IPC Server-side IPC Plugins
	https://opensource.hcltechsw.com/o	
	HCL Digital Experience Help Center Web	2024, 5:47:36 PM   Modified On:7/4/2024, 5:47:36 PM Dock Application
	Edit   Delete	
	Show: 2   all of the items	Jump to page 1 of 1

### Part 2: Add the DX Help Center Web Dock Application Portlet to your Site

Then, you will add the HCL Digital Experience Help Center Web Dock Application Portlet to a DX page using the Site Manager



and using Manage Pages under the Practitioner Studio, and test it.

Publish	ned Site 🔻					-	⊡ 🖬	: X <sub>A</sub> English	- HCL (Ì
	Harry Pappus	Q:X				Home			
			<b>HCLSoftware</b>			Web Content			Resources -
命	Home	>	≡ HCL Digital Experie	ance Heln Center	CF220 -	Digital Assets			H-SOFTWARE/digi ☆5 ♀16
>	Sites	$\sim$		ence help center	01220	Site Templates		S ■ Ocf217 £	75 ¥16
ß	Web Content	>	December o Di	sital Eva aria		Themes			
_		ĺ.	Become a Dig	gital Experie	ence experi	Personalization			10000
	Digital Assets	>				Administration		2000	
	Site Templates	>	Get to know DX and learn	how to leverage its fe	atures to build your no	HCL DX Help C	enter		
$\diamond$	Themes	>	Access our product docur	mentation and stay up	-to-date with the prod	Help Center			11000
0	Personalization	>	Getting Started	What's New?	Early Access	Support			
Ē.	Administration	>							(({{}})))
Ē	HCL DX Help Cent	ter >					• • • • • • •		
?	Help Center		Designed for	YOU					

### **Optional Part 3: Update the Web Application Bridge Servlet Context Root**

Optionally, you may learn how to enable the Web Application Bridge to work as a proxy with a portal context root, the context root of the wp.vwat.servlet.ear application needs to be updated to /.

Enterprise Applications		
Enterprise Applications > wp.vwat.	<u>servlet.ear</u> > Context Root For Web Modu	lles
Context Root For Web Modules		
Configure values for context roots in v	web modules.	
Web module	URI	Context Root
Virtual Web Application Servlet	wp.vwat.servlet.war,WEB-INF/web.xml	

### **Optional Part 4: Import DX Help Center SSL Certificate**

To integrate a protected site, using https, into DX, you need to import its SSL certificate.

<u>SSL certificate and key management</u> > <u>Key stores and certificates</u> > <u>NodeDefaultTrustStore</u> > Signer certificates Manages signer certificates in key stores.

🛨 Pre	ferences			
Add	Delete Extract Retrieve from port	]		
	6 # #			
Select	Alias 🛟	Issued to 🗘	Fingerprint (SHA Digest) 👙	Expiration 🗘
You o	an administer the following resources:			
	<u>cvs</u>			
	hd	CN=ISRG Root X1, O=Internet Security Research Group, C=US	93:3C:6D:DE:E9:5C:9C:41:A4:0F:9F:50:49:3D:82:BE:03:AD:87:BF	Valid from Jan 20, 2021 to Sep 30, 2024.
	maps.googleapis.com			
	root			
	<u>root 1</u>			
	root 2			
Total	6			

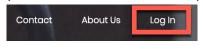
## Part 1: Configure the Web Application Bridge with DX Help Center

First, you will configure the Web Application Bridge with the HCL Digital Experience Help Center. You will create a content provider profile with a default policy. You need to have enabled your Web Application Bridge, as explained in optional part 3, and if your site is protected, using https, you should ensure you have imported the SSL certificate, as explained in optional part 4. In DX Solution Modules, this has already been done for you.

1. First connect to your server, e.g. to the home page of Woodburn Studio first. On the server where the DX Solution Modules has been installed, next to **Woodburn Studio Home Page**, click **Open**.

DX Solution Modules		HCL Digital Experience
Sandbox Expires	<b>Î</b> ()	Business Solution Examples
X Sandbox Links	^	HCL Digital Exp Solution Modul
<b>Demo Home Page</b> Login ID Password	Open wpsadmin	HCL Digital Experience (DX) is the fast Digital Experiences with any Content, Ap and deliver engaging omnichannel digita targeted offers, seamlessly integrated ap
Woodburn Healthcare Home Page 	Open Open	mobile, hybrid mobile/web applications, It is a web content manager and web pou complex online sites. Customers use it to combination of applications and content
Woodburn Studio Home Page	Open	DX Solution Modules [

Now login as an administrator, Harry. Click on Log In. You may use CRTL + and CRTL – to zoom in and out. You may need to zoom out to see the navigation on the top. Otherwise, you'll find it under a on the top right.



 Use the credentials of Harry (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).

Login	
User ID hpappus	
Password	
LOG IN Not yet registered? Create an account	

 Then go to the Web Application Bridge configuration. This is called the Virtual Application Manager. Open the applications menu and click Administration – Virtual Application Manager.

Published Site 🔻		E G	〕 : <sup>‡</sup> A English → <b>HCL</b> (j
$\leftarrow$ Back Q : X		Home	
Administration	Virtual Web Application Ma Integrate web-based content from different		nto your portal site. The applications are rendered th
➢ Site Management ∨	Content provider profiles store information thave multiple policies for each profile. Learn More	Digital Assets Site Templates	ies store more information about what can and cann
Applications	Content Provider Profiles	Themes	
Web Modules		Personalization	
Applications	Web Dock Applications	Administration	
Portlets	<ul> <li>Content Provider Profiles</li> </ul>	Help Center	
Poruets		Support	
Web Services			_
Virtual Application Manager			
XML Import			

5. And create the content provider profile for the DX Help Center. Click **Create Content Provider Profile**.

### Virtual Web Application Manager

Integrate web-based content from different providers, such as Microsoft SharePoint, into your portal site. The applications are rendered through the Web Dock Portlet using an iframe.

Content provider profiles store information that is needed to connect to the host. Policies store more information about what can and cannot be accessed from the host site. You can have multiple policies for each profile. Learn More...

Content Provider Profiles			
Web Dock Applications  Content Provider Profiles	Create Content Provider Profile		

6. And configure it for the HCL Digital Experience Help Center. Give it a unique profile title, like HCL DX Help Center and optionally set the localization, set the host name to https://opensource.hcltechsw.com, provide a description, like HCL Digital Experience Help Center, keep the option to create a default policy, keep None with Profile Proxy and click Save.

Profile Host	Profile Proxy
Enter info	rmation about the host that is required to connect to the content provider. Learn More
	profile title: Help Center
Localizati	
	me or IP address: http://www.test.com
https://op	bensource.hcltechsw.com
Descriptio	on:
HCL Digi	tal Experience Help Center
	e default policy
* Required	
Save	Cancel

7. Then configure a simple policy. Click **Add Policy**.

Web Dock Applications  Content Provider Profiles	Success: Content provider profile is	created	×
Contain Provider Provides	Create Content Provider Profile		
	1 - 1 of 1	1	Previous Next
	HCL DX Help Center defau	It	
	https://opensource.hcltechsw.		
	Created By: Harry Pappus Created Created HCL Digital Experience Help Center	Dn: 7/4/2024, 5:32:28 PM   Modified On: 7/4/2024, 5:32:28 PM   ProxyType: None	
	Add Policy Deactivate   Edit   Dele	te	
	Show: 2 all of the items	Jump to page 1 of 1	Previous Next

8. A policy controls what site visitors can access. You can allow or block content based on URL patterns. Check out all options you may configure for this policy, like Connection, Request, Response and Single Sign-On. You may use the Learn More... to learn more on these option. Then give it a unique policy title, like HCL DX Help Center Policy, a description, like Policy to integrate the HCL Digital Experience Help Center and click Save.

neral	Connection	Request	Response	Single Sign-On			
A							
A polic	y controis wha	It site visitors	s can access.	You can allow or b	OCK CONTENT DASED	d on URL pattern . Lear	n More
* Uniqu	e policy title:						
HCL D	X Help Cente	r Policy					
IIRI	pattern:						
	attern can be a	iava regular e	expression.				
	ultiple URL patt			st.			
Examp	ole: /[a-zA-Z]*, /t	test1					
•							
<b>O</b> A	llow all, except	t:	Ac	44			
ОВ	lock all, excep	t.					
0.5	ioon an, oncop						
Descri	ption:						
	to integrate th	ne HCL Digit	al Experience	e Help			
Cente	r						
* Requi	red						
ave	Cancel						

9. You see it is now configured with your new policy. Then configure the Web Dock Application for this web application. Click **Web Dock Applications**.

#### Virtual Web Application Manager

Integrate web-based content from different providers, such as Microsoft SharePoint, into your portal site. The applications are rendered through the Web Dock Portlet using an iframe			et using an iframe.
Content provider profiles store inform have multiple policies for each profil Learn More		olicies store more information about what can and cannot be accessed from the ho	ost site. You can
Content Provider Profiles			
Web Dock Applications    Content Provider Profiles	Success: Policy is created for profile Create Content Provider Profile Sort by: Title +		×
	1 - 1 of 1	1	Previous Next
	HCL DX Help Center         default           https://opensource.hcltechsw.co         Greated By: Harry Pappus         Created on:           HCL Digital Experience Help Center         Add Policy         Desetivate         Edit         Delete	HCL DX Help Center Policy m 7/4/2024, 5:32:28 PM   Modified On: 7/4/2024, 5:32:28 PM   ProxyType: None	
	Show: 2   all of the items	Jump to page 1 of 1	Previous Next

### 10. And create your web dock application. Click **Create Web Dock Application**.

Virtual Web Application	n Manager ifferent providers, such as Microsoft SharePoint, into your portal site. The applications are rendered through the Web Dock Portlet using an iframe.
	ent from the provider on a web page. Content authors add web dock applications to pages from the site toolbar. You can configure how the content rs can also modify the display configuration after they add the application to the page.
Web Dock Applications	
Web Dock Applications     Content Provider Profiles	Create Web Dock Application

Enter the details of your HCL DX Help Center web application. As a reminder, the full URL of your DX Help Center is: <a href="https://opensource.hcltechsw.com/digital-experience/latest/">https://opensource.hcltechsw.com/digital-experience/latest/</a>. Use HCL DX Help Center for the unique web dock application title, select the HCL DX Help Center content provider profile you just created, add /digital-experience/latest as the Resource path, and give it a description, like HCL Digital Experience Help Center Web Dock Application and click Save.

Web Dock Applications	Basic
Content Provider Profiles	
	Web Dock Application
	Provide a meaningful title for content authors to select in the site toolbar. Then, configure the content resource to display in the web dock application. Learn More
	* Unique web dock application title:
	HCL DX Help Center
	Localization
	* Content provider profile:
	HCL DX Help Center
	* Resource path:
	Example: /us/en/home.aspx
	/digital-experience/latest
	Content provider resource:
	https://opensource.hcltechsw.com/digital-experience/latest
	Description:
	HCL Digital Experience Help Center Web Dock
	Application
	* Required
	Save Cancel

12. Your new Web Dock Application is now created and ready to be used in your sites.

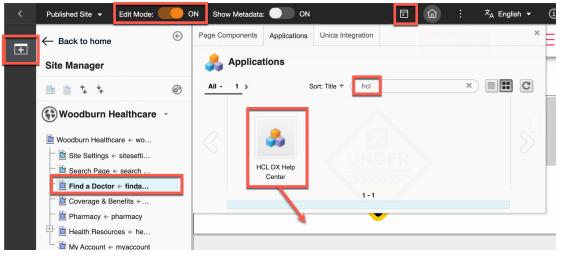
Web Dock Applications	Create Web Dock Application	
Content Provider Profiles	Sort by: Title 🛧 🛛 👻	
	1 - 1 of 1	1
	HCL DX Help Center Displa	ay Client-side IPC Server-side IPC Plugins
	https://opensource.hcltechsw.c Created By: Harry Pappus   Created C HCL Digital Experience Help Center Edit   Delete	Dn:7/4/2024, 5:47:36 PM   Modified On:7/4/2024, 5:47:36 PM
	Show: 2 all of the items	Jump to page 1 of 1

Congratulations! You successfully configured the Web Application Bridge with your DX Help Center web application.

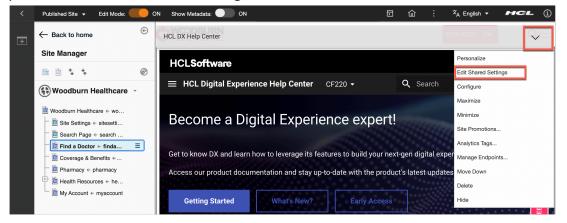
# Part 2: Add the DX Help Center Web Dock Application Portlet to your Site

In this part, you will add the HCL Digital Experience Help Center Web Dock Application Portlet to a DX page using the Site Manager and Manage Pages portlet and test it.

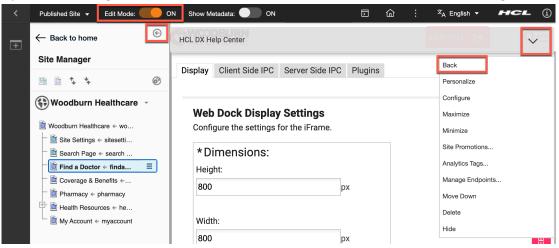
 First add it to your Woodburn Healthcare Find a Doctor page using the Site Manager. Open the site menu, click Woodburn Healthcare, enable the Edit Mode, select the Find a Doctor page, click Add page components and applications, click the Applications tab, search for HCL and drag and drop your HCL DX Help Center application to the top of the page.



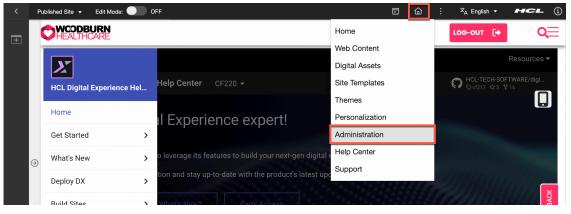
2. And it nicely shows in your page. You may test it. Notice the different options under the portlet menu. Click **Edit Shared Settings**,



3. This allows you to update the Web Dock settings again. Leave the settings and edit mode. Open the menu again and click **Back**, disable the edit mode and close the Site Manager.



4. You may further test it, like doing a search or navigating. Then add the same application to the Practitioner Studio. Adding pages under the Practitioner Studio can only be done using the Manage Pages portlet. Open the application menu and click **Administration**.



5. Open **Site Management**, click **Pages**, under Manage Pages, navigate to the **Practitioner Studio** label and click **New Page**.

Adm	inistration	Manage Pages
	Site Management	Use the controls below to work with your pages. Browse or search for pages to work with. Click New to crea edit properties and layout, move, export, assign permissions and delete pages. For more information, click Help Search by: Title starts with Search: Search Search Content Root Practitioner Studio
	Pages	Pages in Practitioner Studio Add, Edit, Delete, and Reorder pages
	Virtual Portal	New Page         New Label         New VRL         New Page from
	Page Templates	
	01	Title Unique name or Identifier
	Sitemap	Home hcl.portal.home
	Applications	Sites hcl.portal.sites

6. Enter HCL DX Help Center for the title, dx-helpcenter as the Unique Name, dx-helpcenter for the Friendly URL name, enter document.svg for the Icon (which controls what icon to show in the navigation) and click OK.

New page: Practitioner Studio
QUse the controls below to work with your pages to specify your page properties. Expand Options to choose page properties, page type, page layout, or page cache options.
Title:
HCL DX Help Center
Unique Name:
dx-helpcenter
Friendly URL name:
dx-helpcenter
Theme:
Inherit Parent Theme V
lcon:
document.svg
I want to make this page my private page
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
O Server Side Aggregation - Rendering
Page Properties
Type of Page     Type of Page
Page Cache Options
OK Cancel

7. You may move your page up. Then add your HCL DX Help Center Web Dock Application to your new page. Click on the pencil icon to **edit page layout**.

	ages. Browse or search for pages to work with. Click New to create no n permissions and delete pages. For more information, click Help.	ew pages, labels and urls. Activate and dea	ctivate pages, re-order,
Search by: Title starts with V Search	h: Search		
Select Page  Content Root  Practitioner	Studio		
Pages in Practitioner Studio Add, Edit, Dele	te, and Reorder pages		
* New Page * New Label * New I	URL * New Page from		
			Page 1 of 1
Title	Unique name or Identifier	Status	-
Home	hcl.portal.home	Active	000000
Sites	hcl.portal.sites	Active	D. 🗹 🔎
Web Content	hcl.portal.webcontent	Active	L 🗹 🔎
Digital Assets	hcl.portal.mediaLibrary	Active	000000
Site Templates	ibm.portal.sitebuilder	Active	000000
Themes	hcl.portal.themes	Active	
Personalization	hcl.portal.Personalization	Active	) L V P
	hcl.portal.administration	Active	000000
Administration			
Administration	ibm.portal.Search Center	Active 🔺 🔽 🗎	) 🖉 🖉 🕒 🗹 🖉

### 8. Then click Add portlets.

Content	Appearance	Locks	Wires	
Ed	it Layout			D
the conta reflect ho	iners will be position w or where the con	ned on the pag tent is rendere	and arrange portlets. Modifications occur as you make them. This page is rendered by a layout template, which specifies e. The containers displayed below are a flat list of the containers used by the template, so the visual representation may i d on the page.	
Page title	: HCL DX Help Cen	iter	Show Portlet Rule Map	ppings
+ Ad	dd portlets			

 Your Web Dock Application is available under the name you have set. Search by title starts with for the word hcl. Click Search, check the box next to your HCL DX Help Center Application and click OK.

earch by: Title start	with V Search hcl	Search
		Page 1 of 1
Portlet Title	Description	Unique name Remote portle
🗹 HCL DX Help C	enter HCL Digital Experience Help Cen	er Web Dock Application
		Page 1 of 1

### 10. And click Done.

Edit Layout
EJPAE0115I: New portlets are added successfully.
C Edit Layout allows you to add, remove and arrange portlets. Modifications occur as you make them. This page is rendered by a layout template, which specifies how the containers will be positioned on the page. The containers displayed below are a flat list of the containers used by the template, so the visual representation may not reflect how or where the content is rendered on the page.
Page title: HCL DX Help Center
Show Portlet Rule Mappings
HCL DX Help Center 🧅
+ Add portlets
Done

11. Now check out your new page. Open the **applications menu** and click **HCL DX Help Center**. The HCL Digital Experience Help Center is displayed directly on the page.

Publish	ed Site 👻				D	奋		☆ <sub>A</sub> English ▼	HCL	í
	Harry Pappus	Q:×			Home					
			HCLSoftware		Web Content				Resources	-
命	Home	>		r CF220 <del>-</del>	Digital Assets			R HCL-TECH-SC	DFTWARE/digi	
>	Sites	$\sim$		01220	Site Templates			N ♥ ©cf217 ☆5	¥ 16	
Ē	Web Content	>	Bacama a Digital Evo		Themes					
_		(	Become a Digital Expe	lence experi	Personalization					
~	Digital Assets	>			Administration		-			
	Site Templates	>	Get to know DX and learn how to leverage its	features to build your ne	HCL DX Help Cente	r				
$\diamond$	Themes	>	Access our product documentation and stay	up-to-date with the prod	Help Center					
0	Personalization	>	Getting Started What's New?	Early Access	Support			2200		
6	Administration	>							(U))	
Ē	HCL DX Help Cente	er >				• • • •				
?	Help Center		Designed for YOU							

Congratulations, you have successfully added the DX Help Center Web Dock application to the Woodburn Healthcare page using the Site Manager and the Practitioner Studio using the Manage Pages.

## Optional Part 3: Update the Web Application Bridge Servlet Context Root

To enable the Web Application Bridge to work as a proxy with a portal context root, the context root of the wp.vwat.servlet.ear application needs to be updated to /.

 To change the context root, you must access the Integrated Solution Console. Log into the Integrated Solution Console. If you use HCL SoFy, from the Sandbox Links of your DX Solution Modules, click Open next to the Integrated Solution Console. Note the 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.

HCLSoftware HCL SoFy	Sandboxes	<b>Q</b> Search the cata
Sandbox Links Demo Home Page Login ID Password	Open wpsadmin 📋	HCL Digit Business
Woodburn Healthcare Home	Page Open	HCL Dig
Woodburn Stores Home Pag	Open	Modules
Woodburn Studio Home Pag	e Open	HCL Digital Experier Content, Applications to virtually all audien
Leap Home Page	Open	across channels (web
Login ID Password	wpsadmin 📋	It is a web content m Customers use it to s targeted to individua
Integrated Solution Console	Open	DX Solution
Login ID	wpsadmin 📋	The DX Solution Mod
Password	wpsadmin 📋	more easily. It provid
		Woodburn

2. Then enter your admin credentials from the Solution Console and click Log in.



3. Then navigate to the wp.vwat.servlet.ear WebSphere enterprise application. Open **Applications** - **Application Types** and click **WebSphere enterprise applications**.

WebSphere. software
View: All tasks
= Welcome
Guided Activities
± Servers
Applications
<ul> <li>New Application</li> </ul>
Application Types
WebSphere enterprise applications
<ul> <li>Business-level applications</li> </ul>
<ul> <li>Assets</li> </ul>
<ul> <li>Global deployment settings</li> </ul>

4. Click the filter button, and filter by **Name**, and for the search terms enter **\*vwat\***. Click enter or **Go**. Then click the link for **wp.vwat.servlet.ear**.

Enterprise Applications		
Enterprise Applications Use this page to manage installed applications. A Preferences	single application can be deployed onto m	nultiple servers.
Start Stop Install Uninstall Update	Rollout Update Remove File Export	Export DDL Export
Select Name Filter: *vwat*	Application Status ሷ	Liberty Report ሷ
To filter the following table, select the column b Filter Search terms: Name V *vwat*	y which to filter, then enter filter criteria (v	vildcards: *,?,%).
You can administer the following resources:		
PA_wp.vwat.manager	€	Ø
wp.vwat.servlet.ear	€	Ø
Total 133 Filtered total: 2		

5. Under Web Module Properties, click Context Root for Web Modules.

rise Applications	
terprise Applications > wp.vwat.servlet.ear	
e this page to configure an enterprise application. Clic modules.	k the links to access pages for further configuring of the application
nfiguration	
General Properties	Modules
⊧ Name	Manage Modules
wp.vwat.servlet.ear	Display module build Ids
Application reference validation Issue warnings	Web Module Properties
Detail Properties	Session management     Context Root For Web Modules
Target specific application status	Initialize parameters for se Context Root For Web Modules
Startup behavior	JSP and JSF options
Application binaries	Virtual hosts
Class loading and update detection	
<ul> <li>Request dispatcher properties</li> </ul>	Enterprise Java Bean Properties

6. For the **Context Root**, replace the value with / and click **OK**.

	Enterprise Applications > wp.vwat.servlet.ear > Context Root For Web Modules					
(	Context Root For Web Modules Configure values for context roots in	web modules.				
	Web module	URI	Context Root			
	Virtual Web Application Servlet	wp.vwat.servlet.war,WEB-INF/web.xml				
	OK Cancel					

7. Save the changes.

Enterprise Applications

iterprise A	Applications
	Messages
	<ul> <li>Changes have been made to your local configuration. You can:</li> <li>Save directly to the master configuration.</li> </ul>
	<ul> <li><u>Review</u> changes before saving or discarding.</li> </ul>
	The server may need to be restarted for these changes to take effect.

8. Then restart your application. Filter to the **\*vwat\*** again if necessary, click the checkbox next to **wp.vwat.servlet.ear** and click **Stop**.

interprise Applications		
Enterprise Applications Use this page to manage installed applications. A	single application can be deployed onto m Rollout Update Remove File Export	
Select Name C Filter: *vwat*	Application Status 🙅	Liberty Report 位
To filter the following table, select the column by Filter Search terms: Name $\checkmark$ *vwat*	y which to filter, then enter filter criteria (v	vildcards: *,?,%).
You can administer the following resources:		
PA_wp.vwat.manager	€)	Ø
wp.vwat.servlet.ear	€	0
Total 133 Filtered total: 2		

9. Once the application has stopped, start it again. Repeat the process to select the application and click **Start**.

Enterprise Applications							
Enterprise Applications Use this page to manage installed applications. A Preferences	single application can be deployed onto m	nultiple servers.					
Start Stop Install Uninstall Update	Start Stop Install Uninstall Update Rollout Update Remove File Export Export DDL Export F						
Select Name  Filter: *vwat*	Application Status 🖄	Liberty Report 👲					
To filter the following table, select the column b Filter Search terms: Name     Name	y which to filter, then enter filter criteria (v Go	vildcards: *,?,%).					
You can administer the following resources:							
PA_wp.vwat.manager	◆	$\oslash$					
wp.vwat.servlet.ear	☑         wp.vwat.servlet.ear         ✿         ∅						
Total 133 Filtered total: 2							

Congratulations, you have successfully enabled the Web Application Bridge by changing the context root of the application.

## Optional Part 4: Import DX Help Center SSL Certificate

To integrate a protected site, using https, into DX, you need to import its SSL certificate.

 You import it in the Integrated Solution Console. Log into this Integrated Solution Console. If you use HCL SoFy, from the Sandbox Links of your **DX Solution Modules**, click **Open** next to the Integrated Solution Console. Note the 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.

HCLSoftware HCLSoFy Sa	indboxes	<b>Q</b> Search the cata
Sandbox Links Demo Home Page Login ID Password	Open wpsadmin 📋 wpsadmin 📋	HCL Digit Business
Woodburn Healthcare Home Pag	ge Open	HCL Dig
Woodburn Stores Home Page	Open	Modules
Woodburn Studio Home Page	Open	HCL Digital Experier Content, Applications to virtually all audien
Leap Home Page	Open	across channels (web
Login ID	wpsadmin	It is a web content m Customers use it to s
Password	wpsadmin 📋	targeted to individua
Integrated Solution Console	Open	DX Solution
Login ID	wpsadmin 📋	The DX Solution Mod
Password	wpsadmin 📋	more easily. It provid <ul> <li>Woodburn</li> </ul>

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

WebSphere. software	
	WebSphere Integrated Solutions Console

2. 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.

	Cell=docke	erCell, Profile:	wp_profile=			Close pa	
View: All tasks	SSL certi	ficate and ke	y manager	nent		2 =	
= Welcome							
± Guided Activities					stores and certificates > NodeDefaultTrustStore > Signer certif	licates	
+ Servers		Manages signer certificates in key stores.					
+ Applications		eferences					
+ Services	Add	d Delete	Extract	Retrieve from port			
+ Resources	Ð	Ē # 4	2				
Security	Select	: Alias 🛟		Issued to $\diamondsuit$	Fingerprint (SHA Digest) 🗇	Expiration 🗘	
<ul> <li>Global security</li> <li>Security domains</li> </ul>	You can administer the following resources:						
SSL certificate and key management     SSL certificate and key management     Security auoung     Bus security		maps.goog	<u>leapis.com</u>	CN=GTS Root R1, O=Google Trust Services LLC, C=US	08:74:54:87:E8:91:C1:9E:30:78:C1:F2:A0:7E:45:29:50:EF:36:F6	Valid from Jun 19, 2020 to Jan 28, 2028.	
+ Environment		root		CN=localhost,	34:87:E5:29:FA:BC:CD:63:9B:59:4A:66:30:43:7B:7B:FD:44:4D:64	Valid from	

 As Host, enter the host of HCL Digital Experience Help Center, opensource.hcltechsw.com, enter 443 (for https) in the Port field, and an Alias name to distinguish this certification, e.g. HCL. Then click Retrieve signer information.

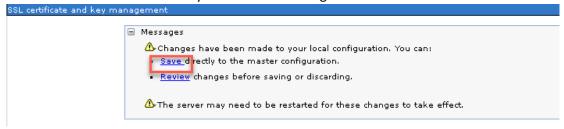


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4. Verify that the certificate information is for a certificate that you can trust and click **Apply**.

st certificate and key management					
<u>SSL certificate and key management &gt; Key stores and certificates &gt; NodeDefaultTrustStore &gt; Signer certificates</u> > Retrieve from port					
Makes a test connection to a Secure Sockets Layer (SSL) port and retrieves the signer from the server during the handshake.					
General Properties					
* Host					
opensource.hdtechsw.com					
* Port					
443					
<u>SSL configuration for outbound</u> connection					
NodeDefaultSSLSettings 🗸					
* Alias					
HCL					
Retrieve signer information					
Retrieved signer information					
Serial number					
85078200265644417569109389142156118711					
Issued to					
CN=ISRG Root X1, O=Internet Security Research Group, C=US					
Issued by					
CN=DST Root CA X3, O=Digital Signature Trust Co.					
Fingerprint (SHA digest)					
93:3C:6D:DE:E9:5C:9C:41:A4:0F:9F:50:49:3D:82:BE:03:AD:87:BF					
Validity period					
Sep 30, 2024					
Apply OK Reset Cancel					

5. Then click **Save** to save it directly to the master configuration.



### 6. You should see it added to your signer certificates.

<u>SSL certificate and key management &gt; Key stores and certificates &gt; NodeDefaultTrustStore</u> > Signer certificates							
Manages signer certificates in key stores.							
😥 Preferences							
Add Delete Extract Retrieve from port							
Select	Alias 🗘	Issued to $\Diamond$	Fingerprint (SHA Digest) 🗘	Expiration 🗇			
You can administer the following resources:							
	cvs						
	hd	CN=ISRG Root X1, O=Internet Security	93:3C:6D:DE:E9:5C:9C:41:A4:0F:9F:50:49:3D:82:BE:03:AD:87:BF	Valid from Jan 20, 2021 to Sep 30,			
	_	Research Group, C=US		2024.			
	maps.googleapis.com						
	root						
				_			
	root 1						
	root 2						
Total 6							

Congratulations, you have added the SSL signer certificate for the HCL Digital Experience Help Center to your DX server.

## Conclusion

Using this tutorial, you learned how the Web Application Bridge allows you to easily and securely configure the integration of a web application, in this case the DX Help Center, and then add this to DX site.

### **Resources**

Refer to the following resources to learn more:

- HCL Digital Experience Home <u>https://hclsw.co/dx</u>
- HCL Digital Experience on HCL Solutions Factory (SoFy) https://hclsofy.com/
- HCL Software https://hclsw.co/software
- HCL Product Support <u>https://hclsw.co/product-support</u>
- HCL DX Product Documentation https://hclsw.co/dx-product-documentation
- HCL DX Support Q&A Forum <u>https://hclsw.co/dx-support-forum</u>
- HCL DX Video Playlist on YouTube https://hclsw.co/dx-video-playlist
- HCL DX Product Ideas <u>https://hclsw.co/dx-ideas</u>
- 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 <u>https://hclsw.co/dx-github</u>
- HCL DX Web Developer Toolkit https://github.com/HCL-TECH-SOFTWARE/WebDevToolkitForDx

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