HCL Digital Experience

HDX-ADM-100 DX Security for Beginners

HCLSoftware U

Creating a new generation of experts

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Introduction

This hands-on lab introduces you to security administration parts of HCL Digital Experience (DX).

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 manage certain DX security tasks using the Practitioner Studio.

You will first prevent users from registering themselves. Then prevent anonymous users to access the Woodburn Studio site. You will also promote a user with admin rights and finally manage access to the Web Content Library you have created in the previous lab.

Prerequisites

1. Completion of HDX-INTRO and HDX-BUS-100 courses, including the labs

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	pass
DX Login	hpappus (or wpsadmin)	HCL-Dem0 (or wpsadmin)

Lab Overview

In this lab there are several parts to get you started with some basic security aspects in DX. These are shortly introduced now.
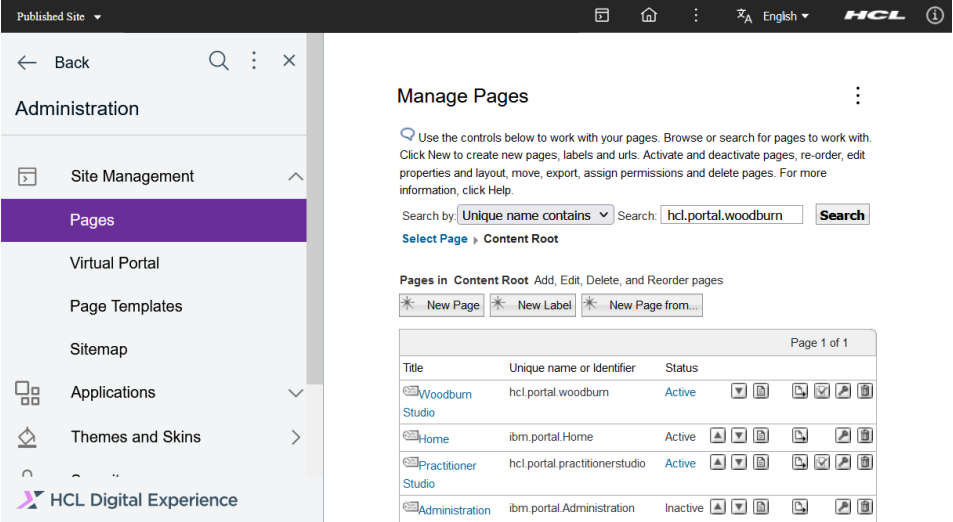
Part 1: Prevent users from registering themselves

You will first remove the option to allow a user to create an account on the log in page.
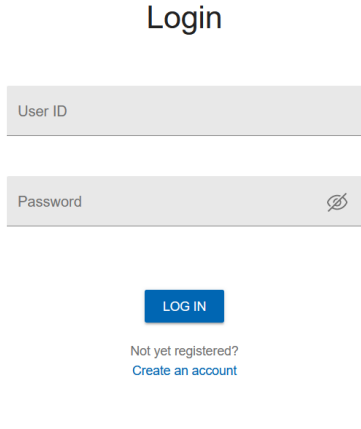
Part 2: Prevent users from accessing Woodburn Studio

You will learn how to change the site access rights and remove access of anonymous users from the Woodburn Studio site.

Part 3: Promote User with Admin Rights

You manage the user rights and promote a user, Gene Hayes, with administration rights.

Manage Users and Groups   ⋮

ℹ️ EJPAL0140I: User or user group has been successfully added to the selected group.

Search: [User groups ⌄]
Search by: [All available   ⌄]   **Search**

Users and Groups ▸ **dxAdministrators**

Members of cn=dxAdministrators,ou=groups,ou=dxdemo,dc=dx,dc=com - add, edit and delete
user groups and users

[✳ New Group] [✳ New User] [✳ Add Member]

	Page 1 of 1
ID	
hpappus	🖼 🖼 🖼 ✏ ➖
ghayes	🖼 🖼 🖼 ✏ ➖
	Page 1 of 1

Part 4: Manage Access of a new Web Content Library

You will manage the access control of a Web Content Library.

Web Content Libraries   ⑦

Search by: [Name contains ⌄] Search: [   ] 🔍

[Create new Library] [View locked items] [System reports] [Set Access on Root] [Refresh]

First | Previous | Next | Last

| Library Name	Description:	Status	
Blog Solo Template v70		✏ ✂ 🗐 🗑 ⊕
Blog Template v70		✏ ✂ 🗐 🗑 ⊕
ML Configuration	The Multilingual Solution configuration library contains the templates and work…	✏ ✂ 🗐 🗑 ⊕
My first library		✏ ✂ 🗐 🗑 ⊕

Part 1: Prevent users from registering themselves

You will first remove the option to allow a user to create an account on the log in page. You will first check that you can do this by default.
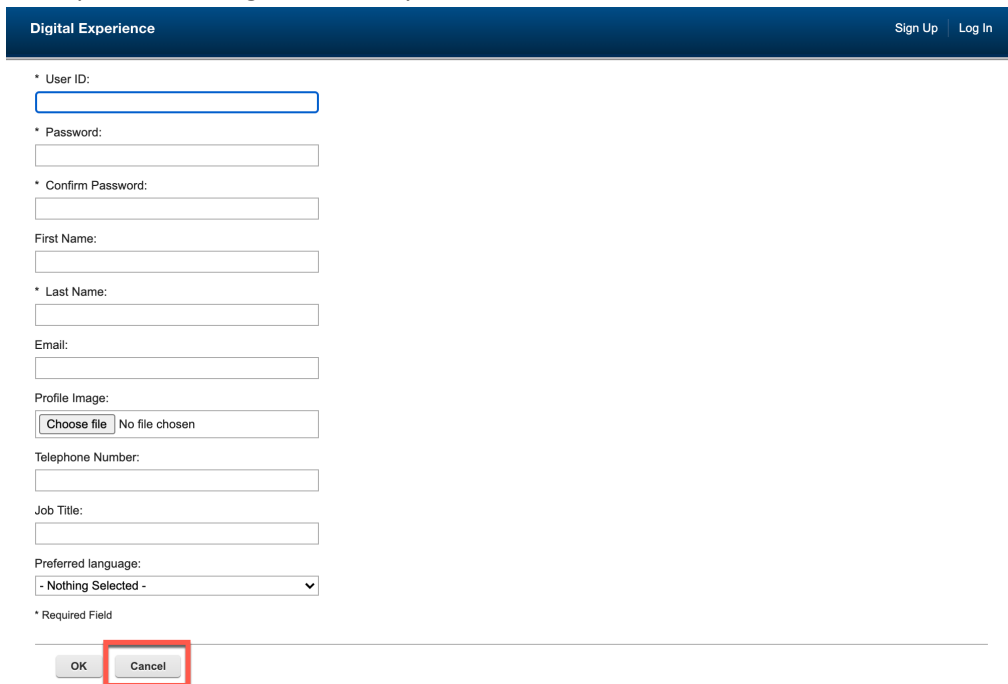
1. Connect to the DX server and login. Click **Log in**.
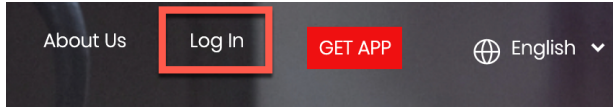
2. Then click on **Create an account**.
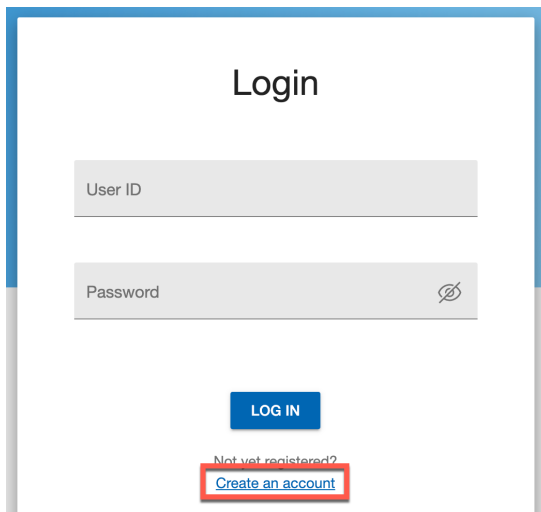
3. This opens the dialog that allows you to create a new account. Click **Cancel**.
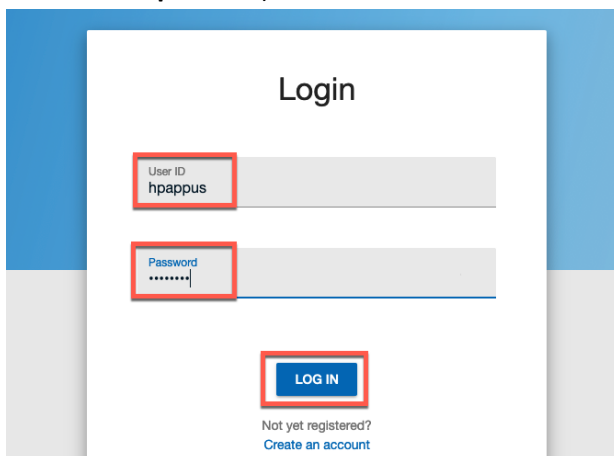
4. This brings you to the first page that is visible to anonymous users. Now you will remove this option. Log in as Harry Pappus, the DX administrator. Click **Log In**.
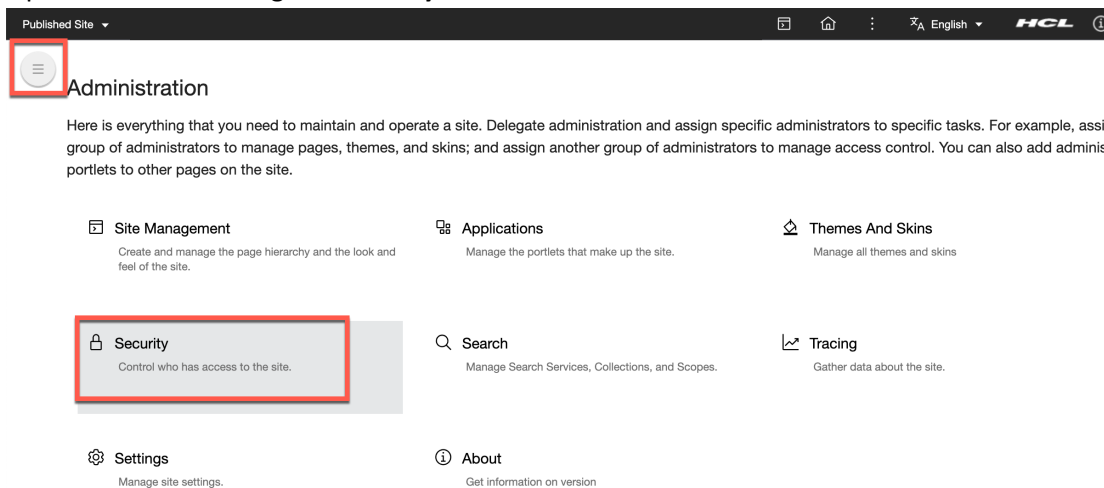

5. Then log in using the credentials of Harry (User ID: **hpappus**, Password: **HCL-Dem0** – if you do not have these, you may use the default administrator account with User ID: **wpsadmin,** Password: **wpsadmin**).
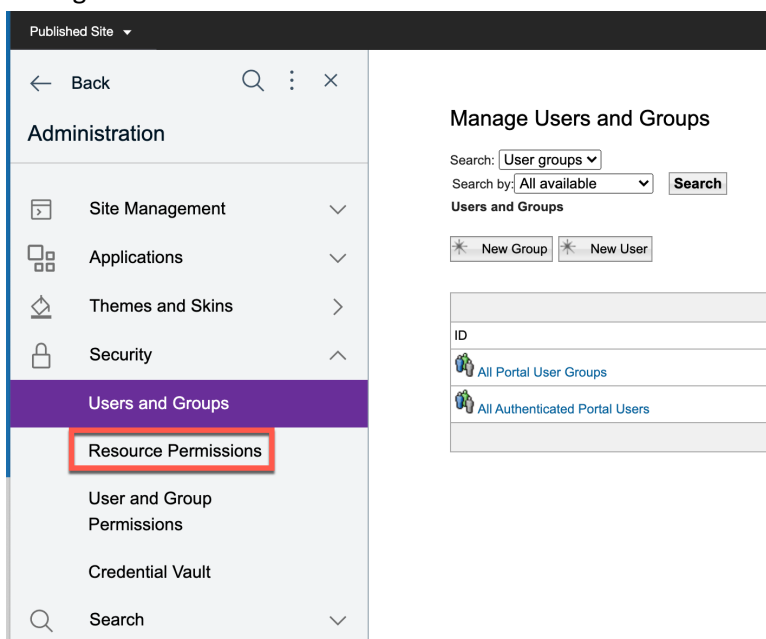
6. Then go the Practitioner Studio. Open the applications menu and click **Administration**.
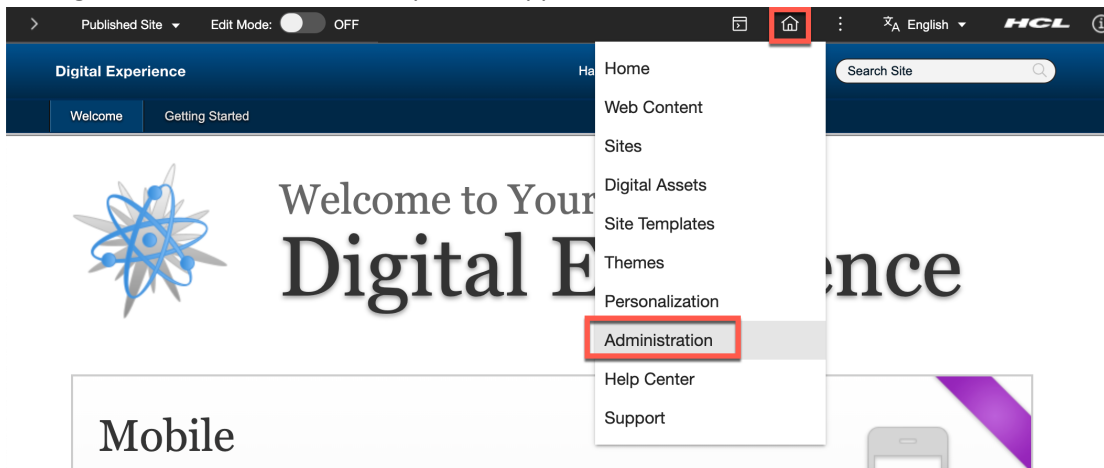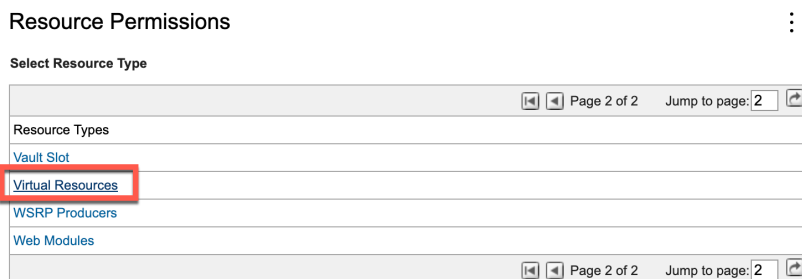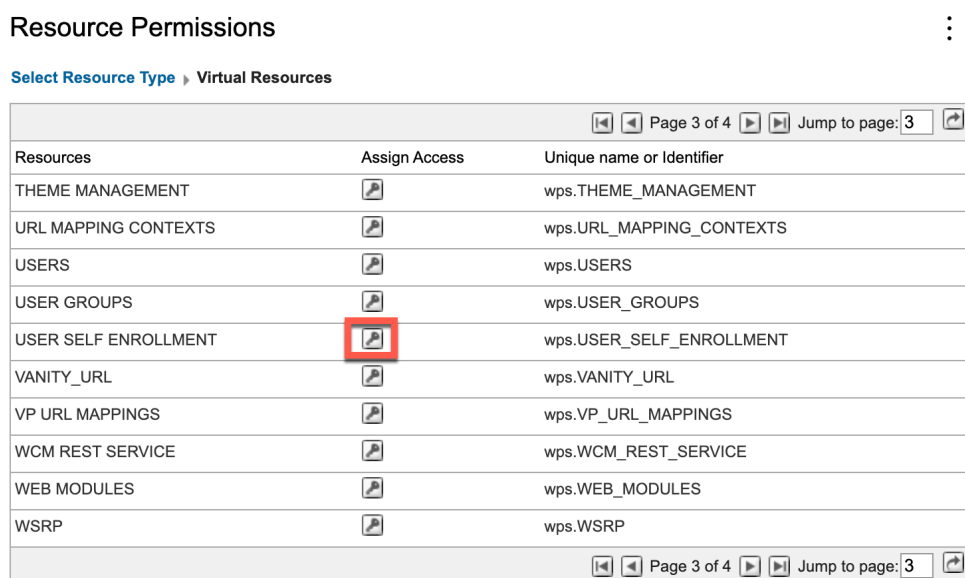

7. Open the sidebar and go to **Security**.

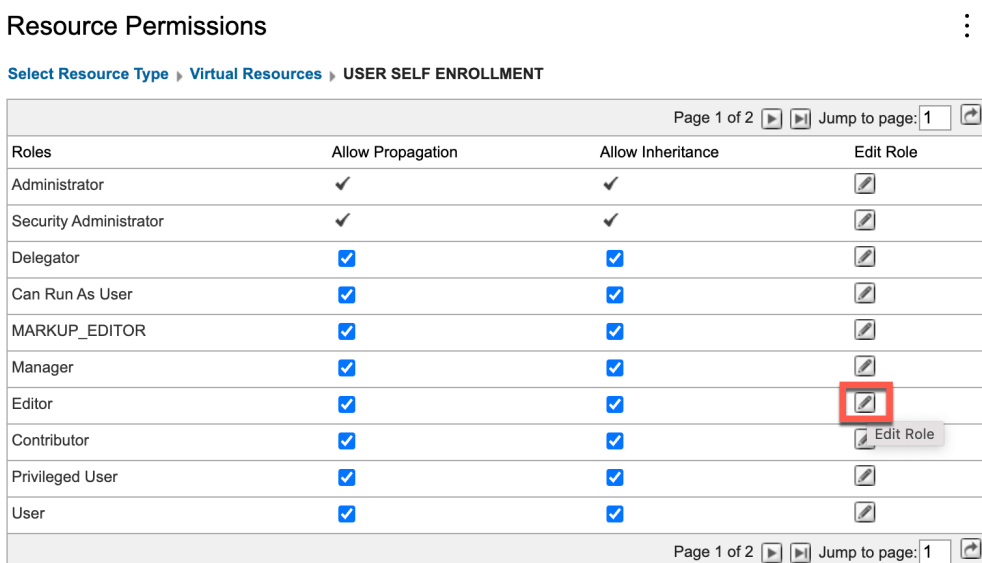8. Then go to **Resource Permissions**.

9. Here you have access to all resources. To prevent users from registering to the site, you need to remove Anonymous Portal User from the Editor role of the Virtual Resource: USER SELF ENROLLMENT, which is documented in https://help.hcltechsw.com/digital-experience/8.5/security/sec_resources.html. Open the Virtual Resources. Go to the next page and click **Virtual Resources**.

Resource Permissions

Select Resource Type

	Page 2 of 2 Jump to page: 2
Resource Types	
Vault Slot	
Virtual Resources	
WSRP Producers	
Web Modules	
	Page 2 of 2 Jump to page: 2

10. Go to the page where you will find the USER SELF ENROLLMENT and click Assign Access.

Resource Permissions

Select Resource Type ▸ Virtual Resources

		Page 3 of 4 ▶ ▶| Jump to page: 3	
Resources	Assign Access	Unique name or Identifier	
THEME MANAGEMENT	🔍	wps.THEME_MANAGEMENT	
URL MAPPING CONTEXTS	🔍	wps.URL_MAPPING_CONTEXTS	
USERS	🔍	wps.USERS	
USER GROUPS	🔍	wps.USER_GROUPS	
USER SELF ENROLLMENT	🔍	wps.USER_SELF_ENROLLMENT	
VANITY_URL	🔍	wps.VANITY_URL	
VP URL MAPPINGS	🔍	wps.VP_URL_MAPPINGS	
WCM REST SERVICE	🔍	wps.WCM_REST_SERVICE	
WEB MODULES	🔍	wps.WEB_MODULES	
WSRP	🔍	wps.WSRP	
		Page 3 of 4 ▶ ▶| Jump to page: 3	

11. Then edit the Editor role. Click **Edit Role**.

Resource Permissions

Select Resource Type ▸ Virtual Resources ▸ USER SELF ENROLLMENT

| Roles	Allow Propagation	Allow Inheritance	Edit Role
		Page 1 of 2 ▶ ▶| Jump to page: 1	
Administrator	✔	✔	✎
Security Administrator	✔	✔	✎
Delegator	☑	☑	✎
Can Run As User	☑	☑	✎
MARKUP_EDITOR	☑	☑	✎
Manager	☑	☑	✎
Editor	☑	☑	✎
Contributor	☑	☑	✎ Edit Role
Privileged User	☑	☑	✎
User	☑	☑	✎
		Page 1 of 2 ▶ ▶| Jump to page: 1	

12. You see that Anonymous Portal User has these rights. Now remove it. Delete this role. Click OK to confirm.
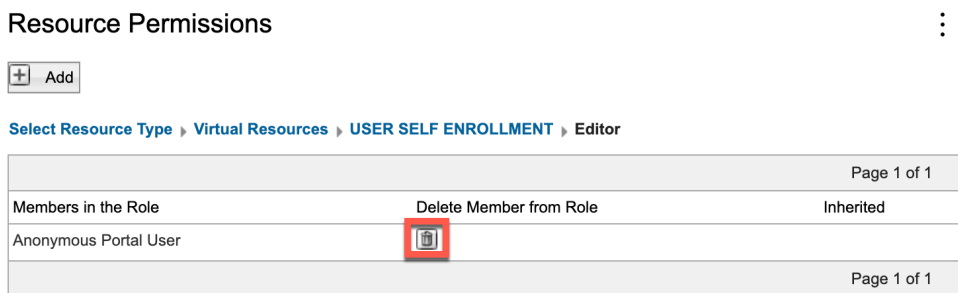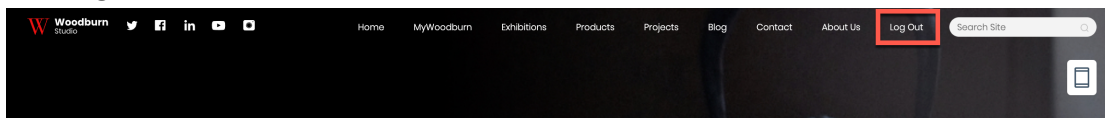

13. Then apply it. Click on **USER SELF ENROLLMENT**.
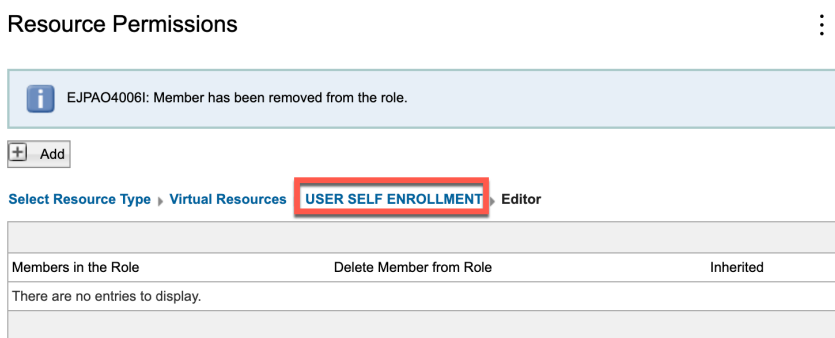
14. And click **Apply** and **OK** to confirm. Then log out and test it. Go first to the Woodburn Studio site. Open the site menu and select **Woodburn Studio**.
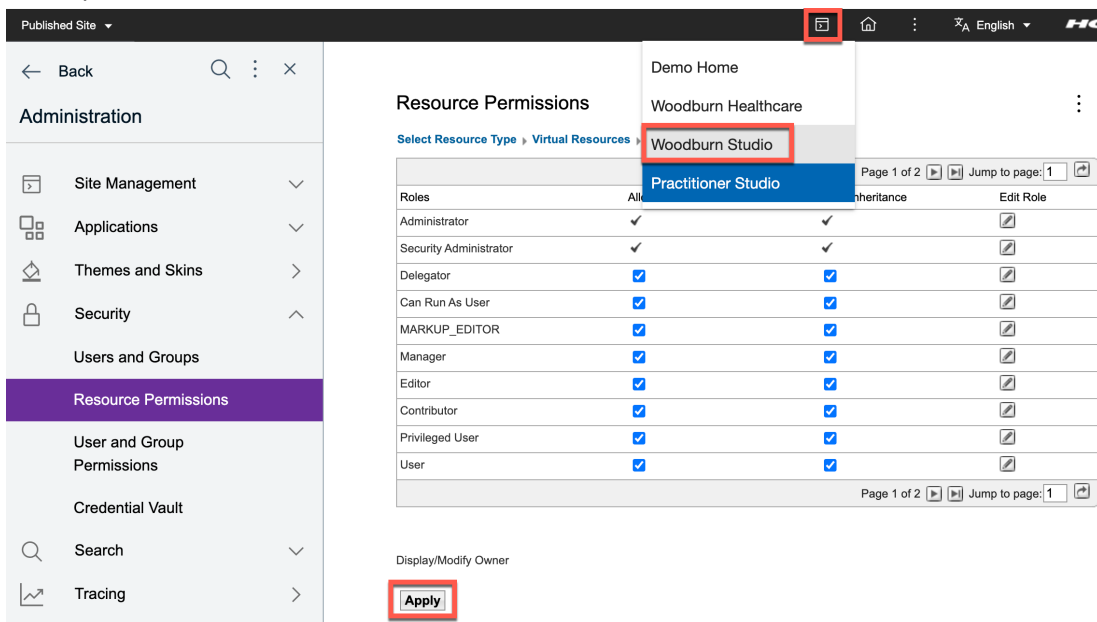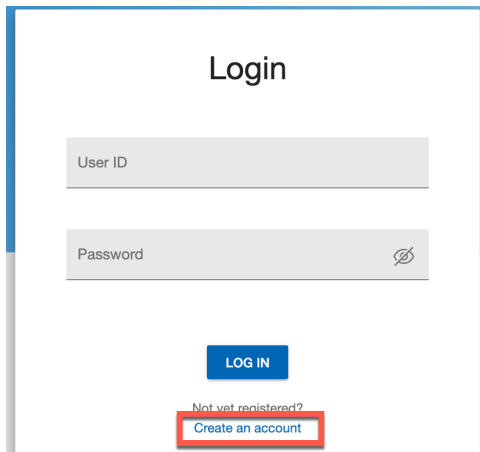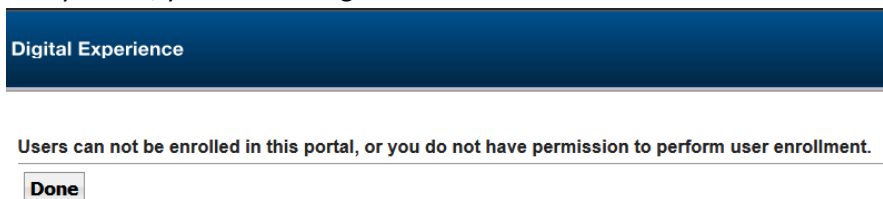

15. Click **Log Out**.

16. And **Log In** again.

17. And click **Create an account**.


18. And you see, you can no longer create an account.

You have successfully removed the option to allow a user to create an account on the log in page. You learned how to update some of the resource permissions.

Part 2: Prevent users from accessing Woodburn Studio

You will learn how to change the site access rights and remove access of anonymous users from the Woodburn Studio site.
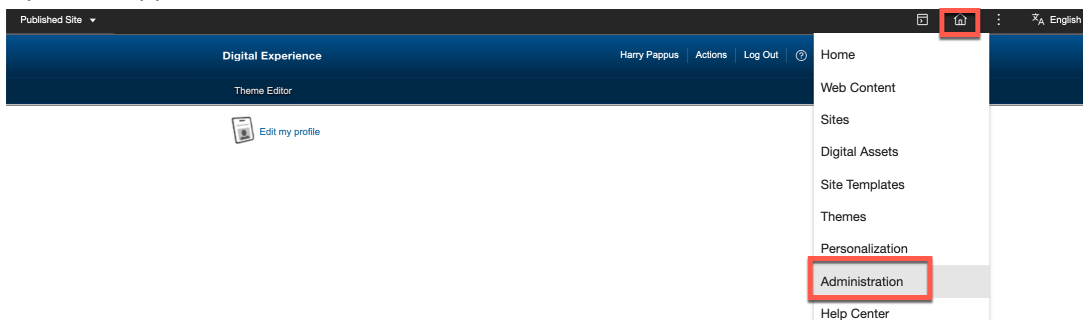
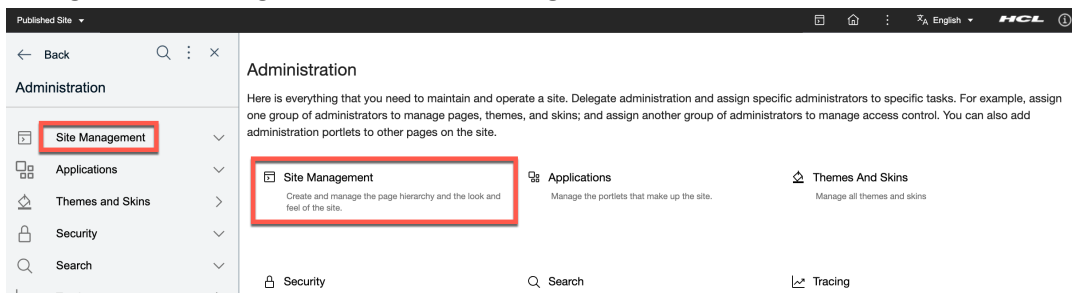1. Log in again. Click **Log in**.
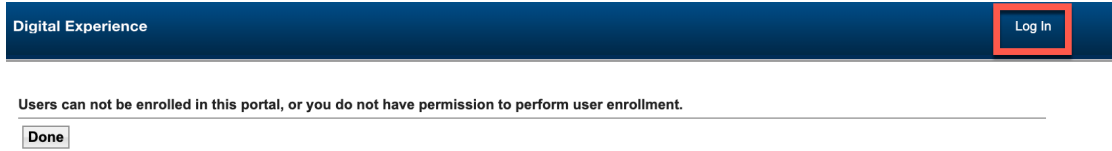
2. Then log in using the credentials of Harry (User ID: **hpappus**, Password: **HCL-Dem0** – if you do not have these, you may use the default administrator account with User ID: **wpsadmin,** Password: **wpsadmin**).
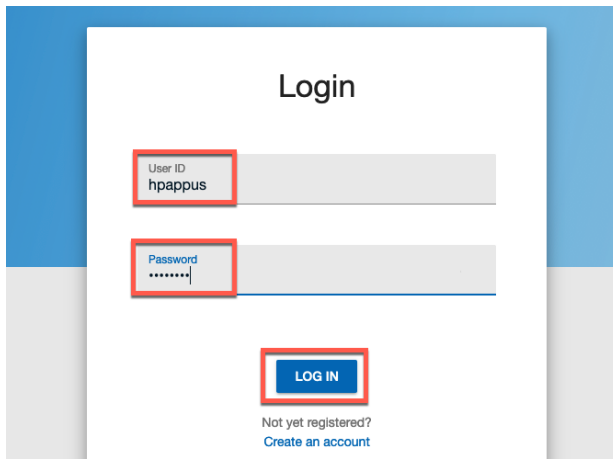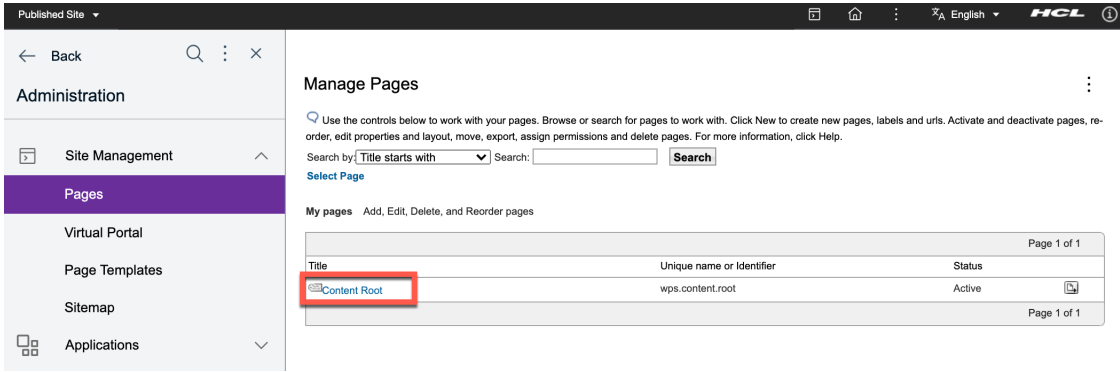

3. Open the applications menu and click **Administration**.
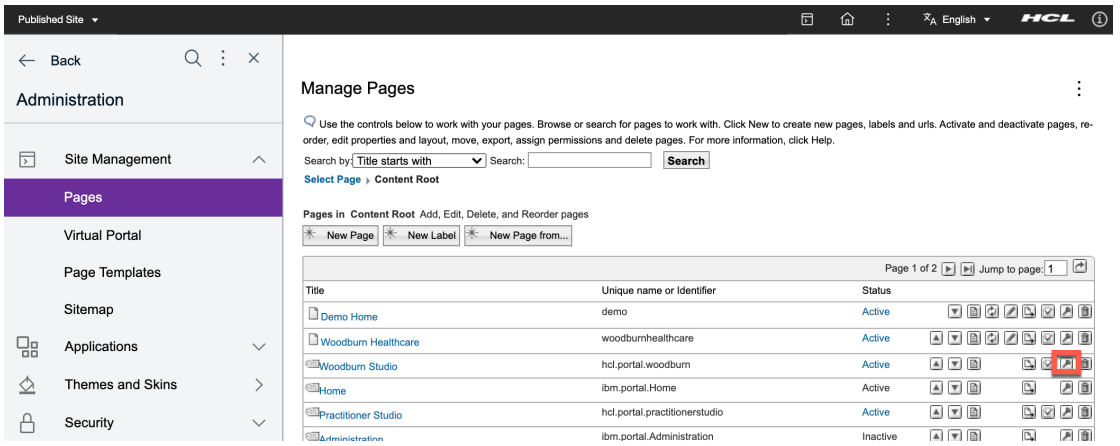

4. Now go to Site Management. Click **Site Management**.
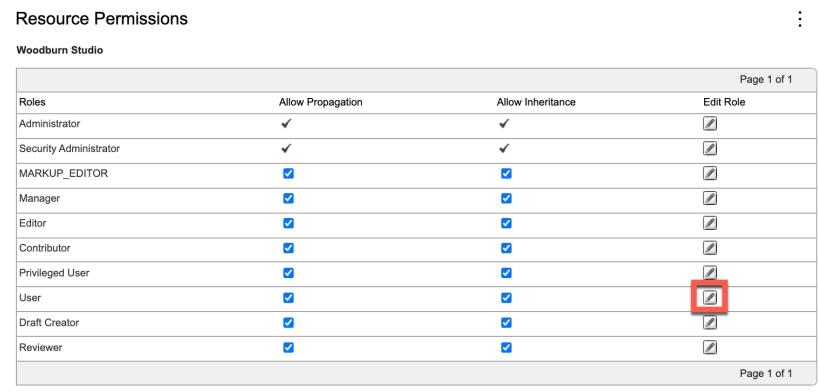
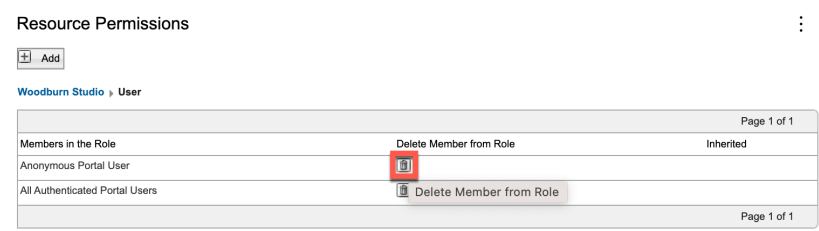5. You see the top level Content Root. Click **Content Root** to open it.

6. Here you see all the sites. Click the **Set Page Permissions** of the Woodburn Studio site.
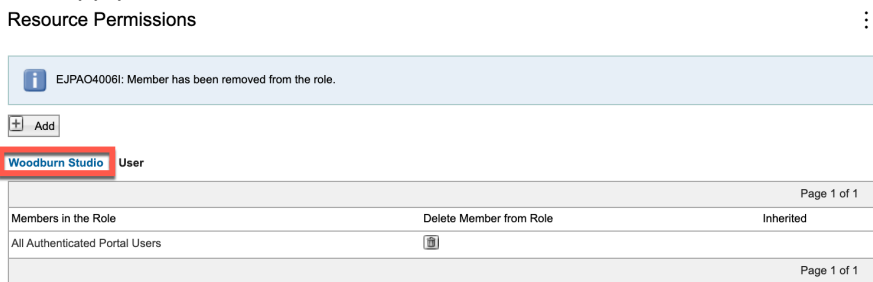

7. Now remove the Anonymous Portal User from the user role. Click **Edit Role** of User.

8. Here you see that Anonymous Portal User has access. Click **Delete** to remove it and **OK** to confirm.
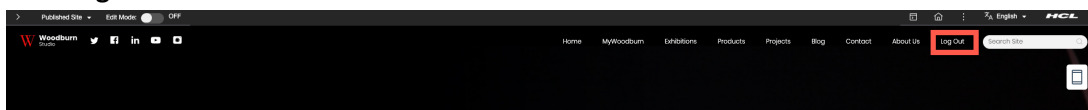
9. Then apply it. Click **Woodburn Studio**.

10. And click **Apply** and **OK** to confirm. Then go to the Woodburn Studio and test if you can no longer access it as an anonymous user. Open the site menu and click **Woodburn Studio**.
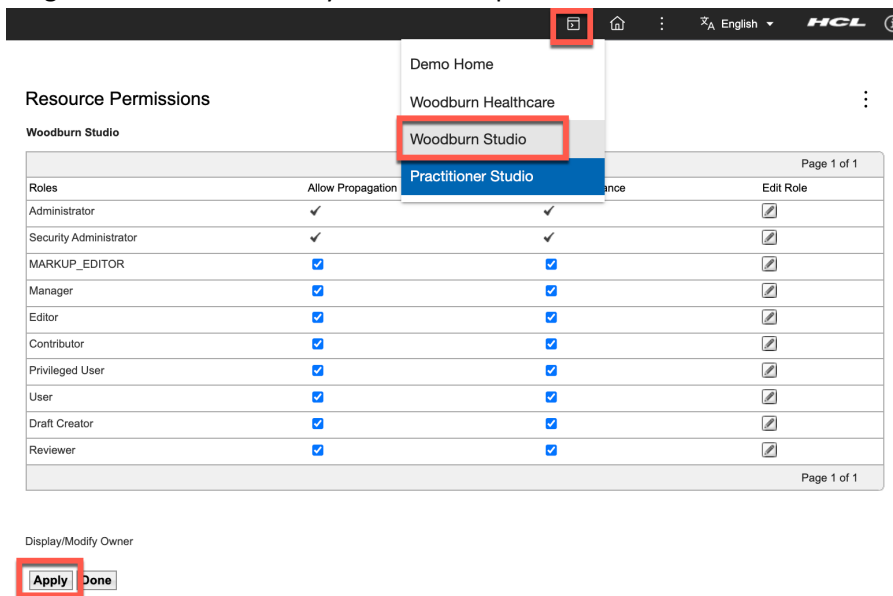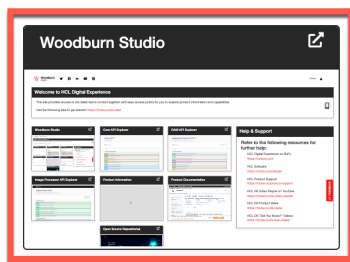

11. Click **Log Out**.

12. And after a short time, you should no longer be able to access Woodburn Studio and be directed to the first available site that is accessible to anonymous users.
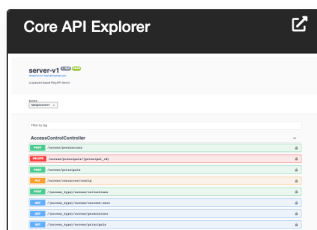

You have successfully removed anonymous access from the Woodburn Studio site.

Part 3: Promote User with Admin Rights

In this part, you will use the security section to manage the user rights and promote a user, Gene Hayes, with administration rights. This is managed under the Security section.

1. Log in as Harry Pappus again.

2. Then log in using 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**).
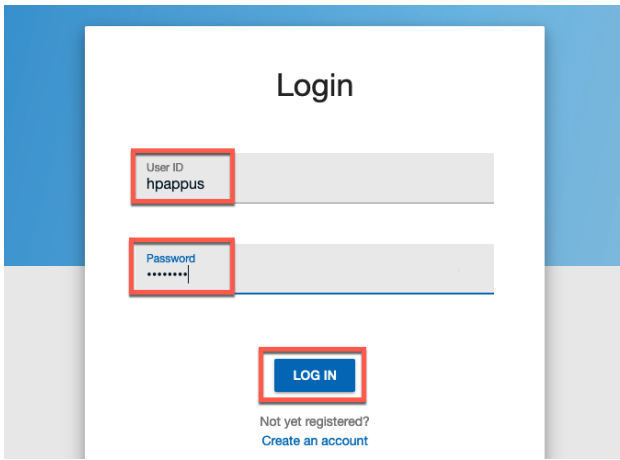
3. Open the applications menu and click **Administration**.
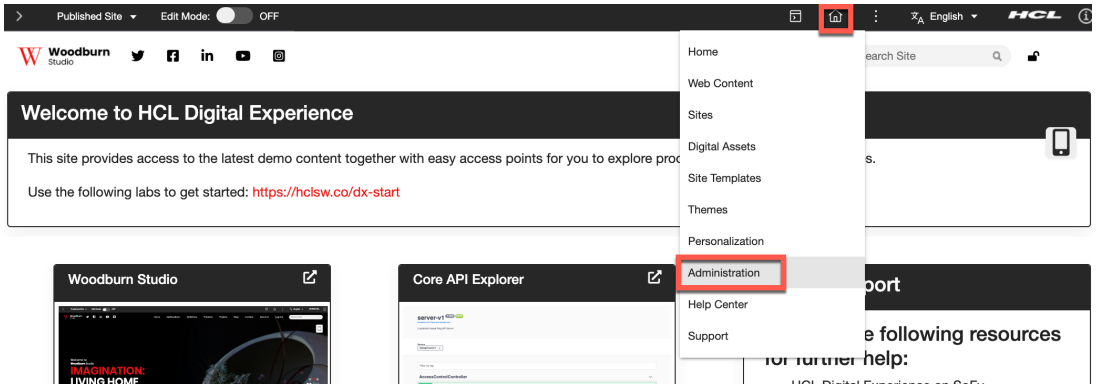
4. Go to the Security section. Click any of the **Security** options.
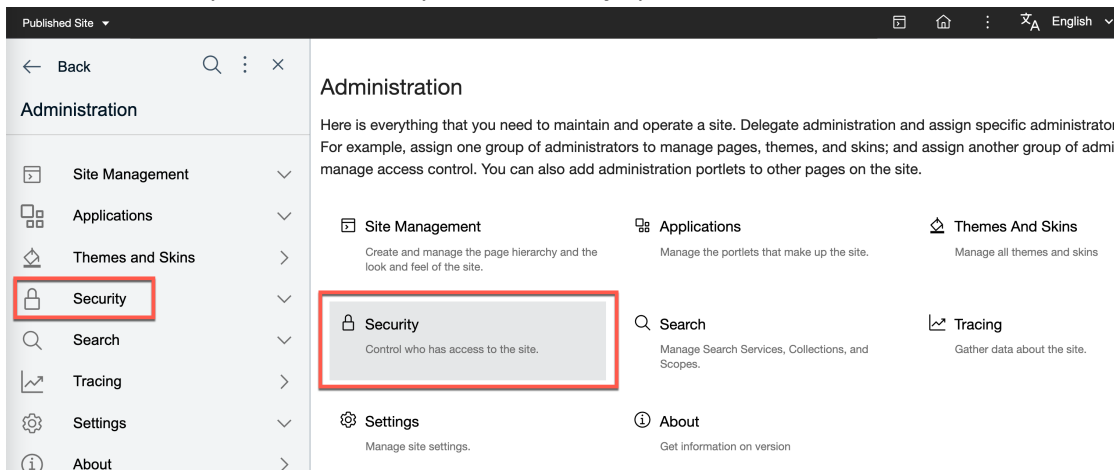
5. This gives you access to the users and groups. You want to add Gene Hayes to the dxAdministrators group. First search him as a user. Change the first search option from User Groups to Users.

6. Check the different search options and keep uid. Then enter the uid for Gene Hayes, **ghayes**, and click **Search**. This shows you the entry for Gene and gives you access to a few functions. Check his group membership first and click the **View membership** icon.
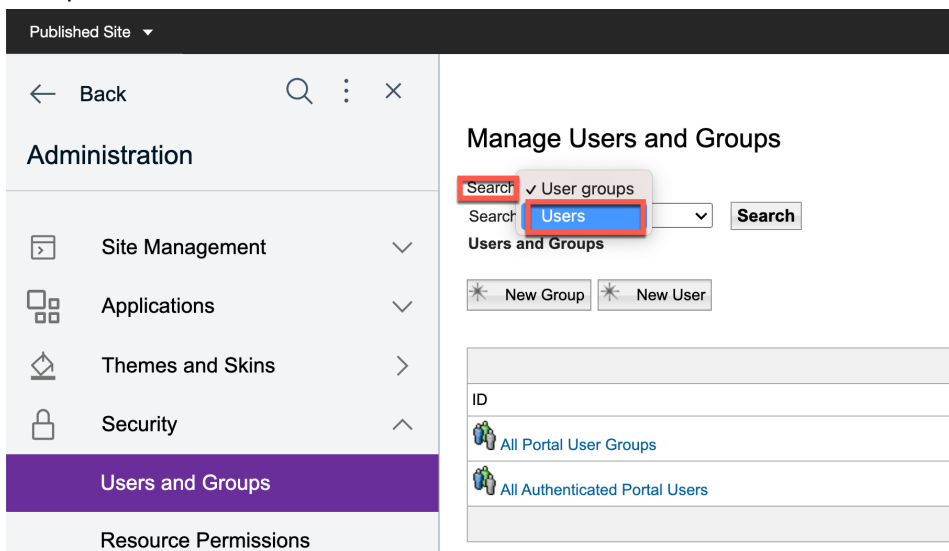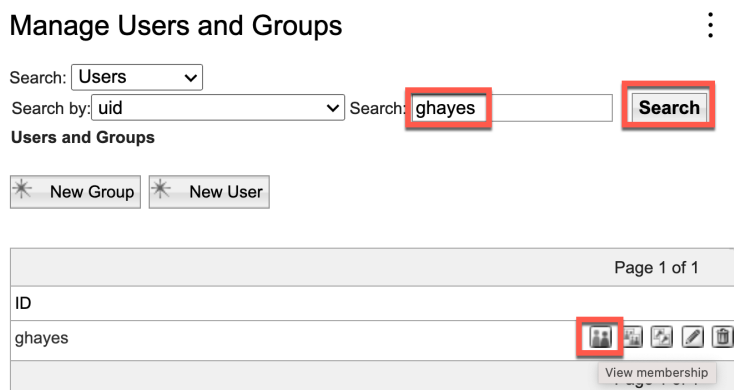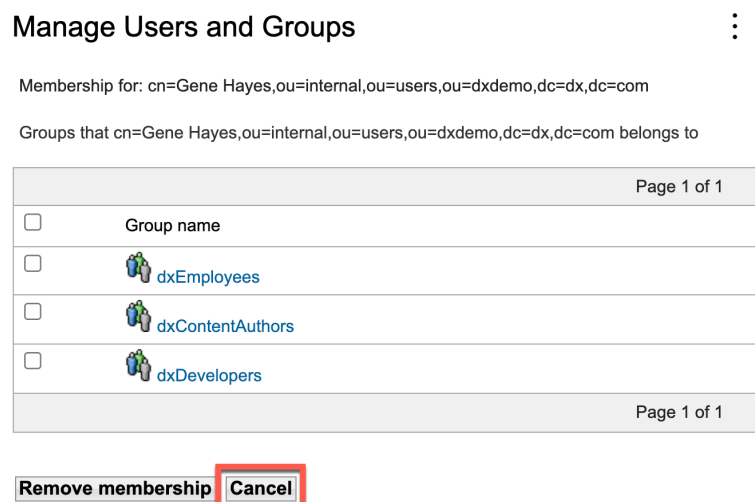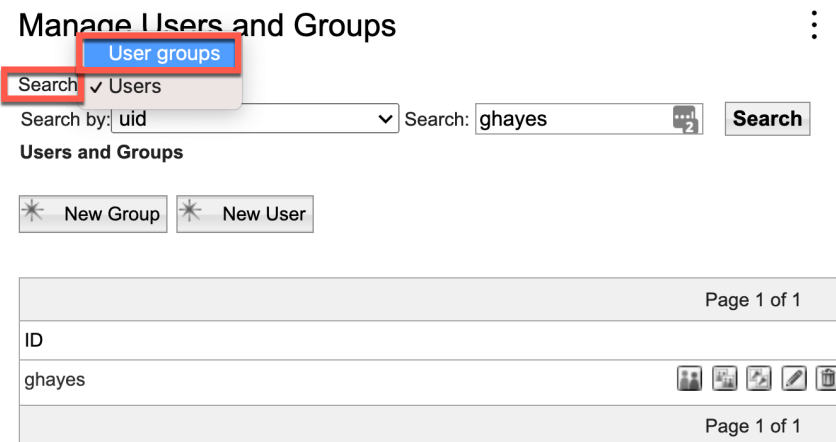
Manage Users and Groups   ⋮

Search: Users

Search by: uid   Search: ghayes   **Search**

Users and Groups

✳ New Group   ✳ New User

	Page 1 of 1
ID	
ghayes 🖼🖼🖼🖍🗑	
View membership	

7. This shows his current membership. He is not yet a member of dxAdministrators. Click **Cancel**.

Manage Users and Groups   ⋮

Membership for: cn=Gene Hayes,ou=internal,ou=users,ou=dxdemo,dc=dx,dc=com

Groups that cn=Gene Hayes,ou=internal,ou=users,ou=dxdemo,dc=dx,dc=com belongs to

		Page 1 of 1
☐	Group name	
☐	👥 dxEmployees	
☐	👥 dxContentAuthors	
☐	👥 dxDevelopers	
		Page 1 of 1

Remove membership | **Cancel**

8. And then look at the members of this dxAdministrators group. Switch back to **User groups**.

Manage Users and Groups   ⋮

            User groups
Search ✓ Users

Search by: uid   Search: ghayes   🔳₂   **Search**

Users and Groups

✳ New Group   ✳ New User

	Page 1 of 1
ID	
ghayes 🖼🖼🖼🖍🗑	
	Page 1 of 1

9. See you can select different search options. Keep All available and click **Search** and then click on View membership icon to see its members.

10. Notice that you, Harry Pappus, are the only member currently. Now add Gene. Click **Add Member**.

11. Then search for Gene. Change the Search selection to **Users**, then the Search by to uid, enter **ghayes** and then click **Search**. Then select ghayes and click **OK**.

12. And you get the message and you can see that Gene is now a member of the dxAdministrators group.

Manage Users and Groups   ⋮

> ℹ️ EJPAL0140I: User or user group has been successfully added to the selected group.

Search: User groups ⌄
Search by: All available ⌄   **Search**

Users and Groups ▸ **dxAdministrators**

Members of cn=dxAdministrators,ou=groups,ou=dxdemo,dc=dx,dc=com - add, edit and delete user groups and users

✳ New Group   ✳ New User   ✳ Add Member

	Page 1 of 1
ID	
hpappus	👥 👥 🔁 ✏️ ➖
ghayes	👥 👥 🔁 ✏️ ➖
	Page 1 of 1

Congratulations! You have successfully added made Gene Hayes a DX administrator by adding him to the dxAdministration group.

Part 4: Manage Access of a Web Content Library

In this part, you will manage the access of a Web Content Library. This is managed under the Web Content section.

1. Go to Web Content. Either go back and select Web Content or use the Applications Menu and open Web Content directly.
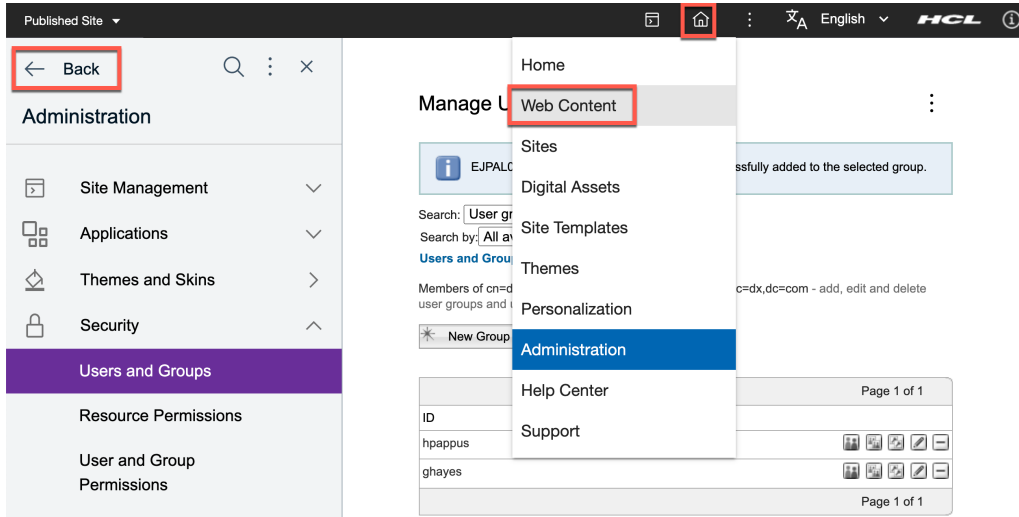
2. Then open the Web Content section.
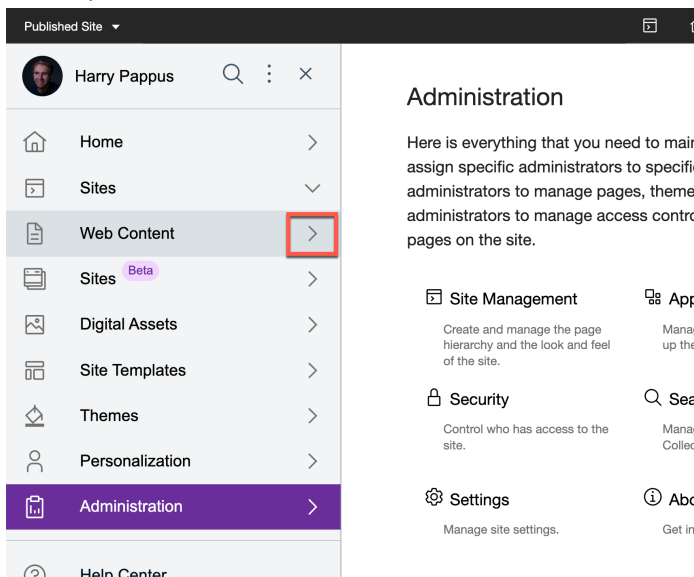
3. This brings you to the Content Composer. Now go to Web Content Libraries. Click **Web Content Libraries**.
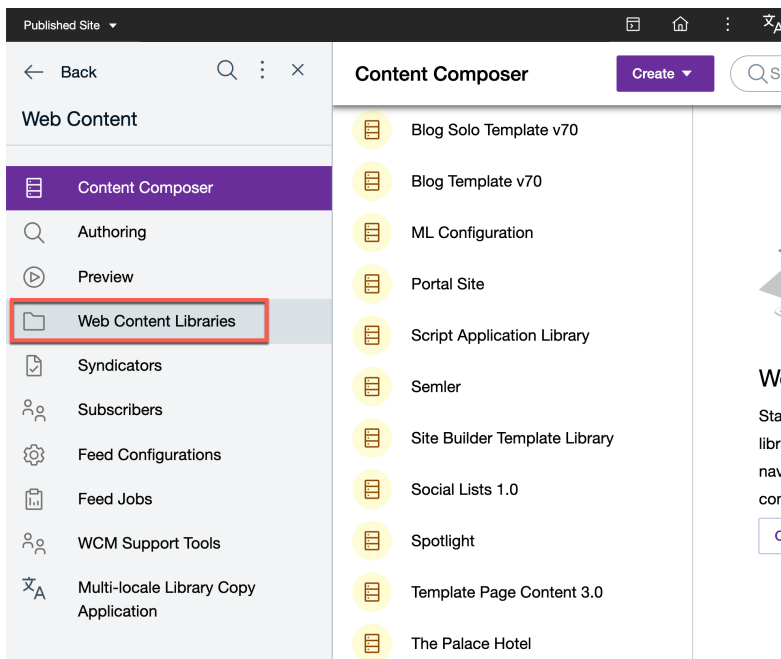
4. Here you have access to all the libraries and you are able to set the root access that applies to all libraries. First create a new library. Click **Create new library**.
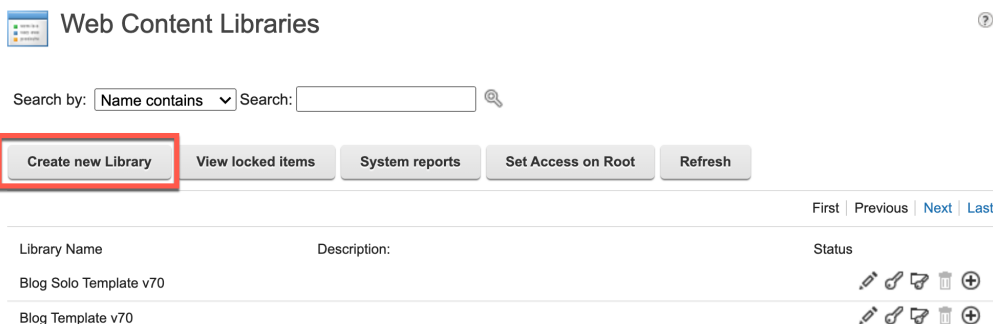
5. Give you Web Content library a name. Notice the online help and other options, such as localizations for multilingual use, prohibit from being deleted and include default items in the new library, and click **OK**.
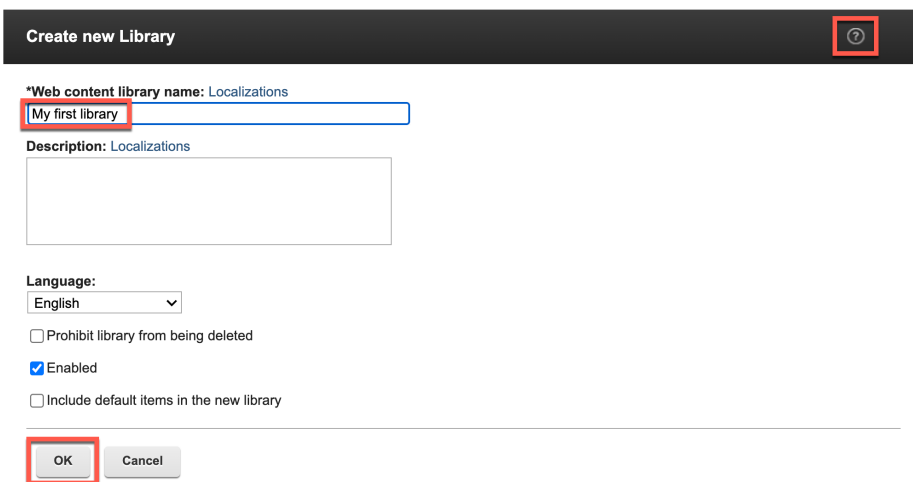
6. Now manage the overall access to the library. Click on the first key icon:
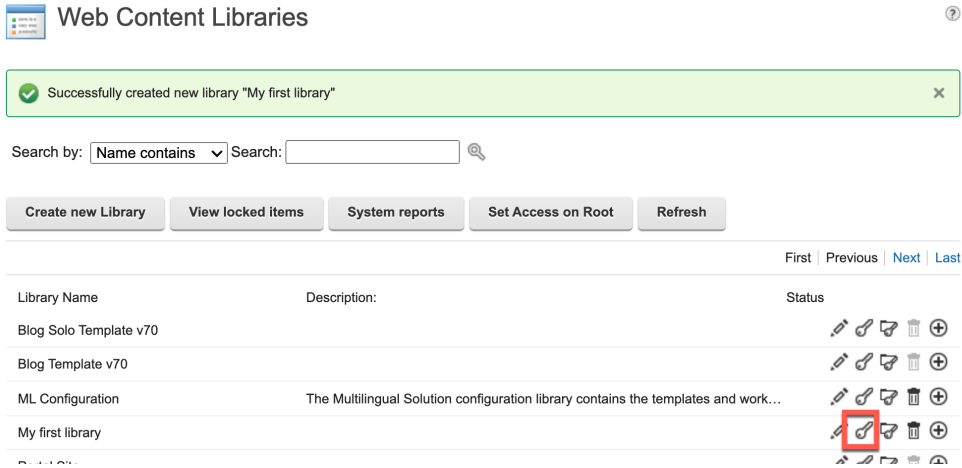
7. Here you see the different role levels you may manage. You can also see that it inherits from the access set on the root (as Allow Inheritance is set) and the settings are propagated to lower levels (as Allow Propagation is set). You want give all users (anonymous and authenticated) user access to your new library. Click the Edit Role icon for the User.
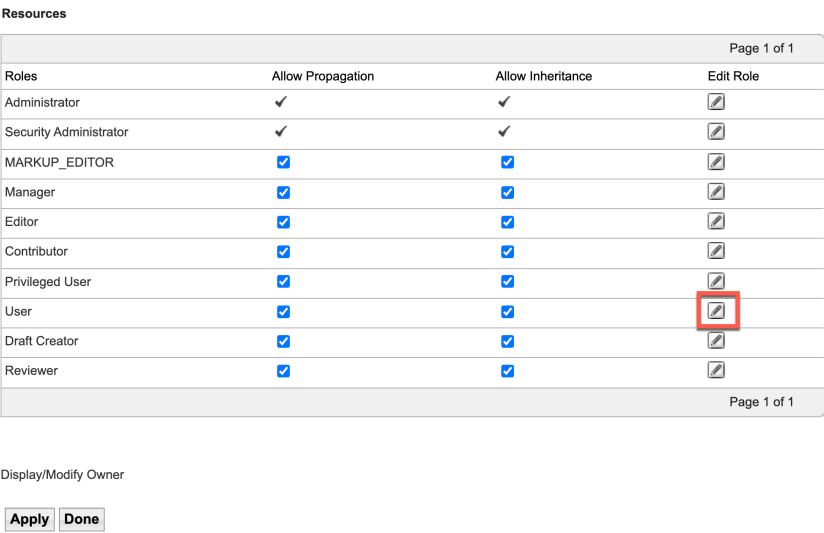
8. As you can see, currently no one has User access. Click **Add**.
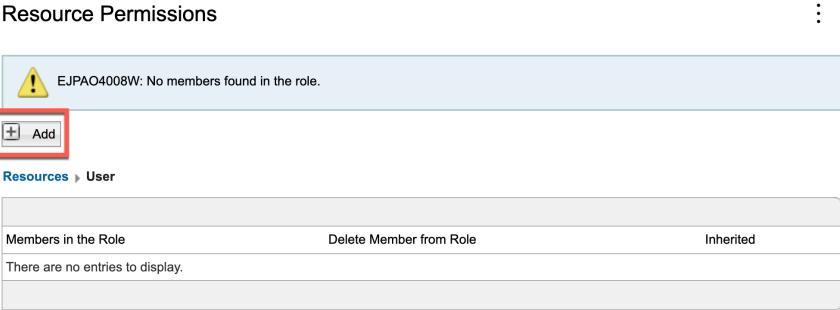
9. Then select **All Authenticated Portal Users** and **Anonymous Portal User** and click **OK**.

Resource Permissions   ⋮

Search for Users or User Groups. User Groups ⌄

Search by: All available ⌄   Search

Resources ▸ **User** ▸ **Add Role Members**

		Page 1 of 1
☐	Users and User Groups	
☑	All Authenticated Portal Users	
☐	All Portal User Groups	
☑	Anonymous Portal User	
		Page 1 of 1

OK Cancel

10. Notice that they have been added and can be easily deleted, if needed. Now you need to apply this. Click **Resources**.

Resource Permissions   ⋮

ℹ EJPAO4003I: Members successfully added to the role.

⊞ Add

Resources ▸ **User**

		Page 1 of 1
Members in the Role	Delete Member from Role	Inherited
All Authenticated Portal Users	🗑	
Anonymous Portal User	🗑	
		Page 1 of 1

11. Here click **Apply**.

Resource Permissions ⋮

Resources

			Page 1 of 1
Roles	Allow Propagation	Allow Inheritance	Edit Role
Administrator	✓	✓	✎
Security Administrator	✓	✓	✎
MARKUP_EDITOR	☑	☑	✎
Manager	☑	☑	✎
Editor	☑	☑	✎
Contributor	☑	☑	✎
Privileged User	☑	☑	✎
User	☑	☑	✎
Draft Creator	☑	☑	✎
Reviewer	☑	☑	✎
			Page 1 of 1

Display/Modify Owner

Apply Done

12. You then get a popup asking to confirm to modify. Click **OK**.

dx._____.play.hclsofy.com says

Are you sure you want to modify the inheritance and propagation on the resource?

Cancel   OK
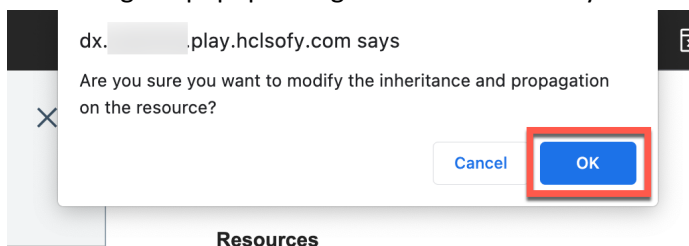
Resources

13. And you are done. Click **Done**.

14. And you are back. Notice again, that you can set the access control on all libraries using the Set Access on Root option, and you may set access differently, e.g. for Content and Authoring Templates using the Library resources icon. In other lessons, you may also learn how to manage security on web content during the workflow process.

You have successfully created a new Web Content library and managed its access.

Conclusion

Using this lab tutorial, you have learned how to manage several security aspects in HCL Digital Experience. You have learned how to prevent users from registering themselves, how to prevent anonymous users from accessing the Woodburn Studio site, how to promote users with admin rights and how to manage the access of Web Content libraries.

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

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