

HCLSoftware

What's New in 2025



HCLSoftware

HCL Digital Experience
and Digital Experience
Compose Cumulative
Fix (CF) 230



What's New in CF230

New HCL Digital Experience v9.5 CF230 version adds updates designed to:

- **Streamline design and delivery for target audiences for authors and designers** with new *Presentation Designer style sheet options*, *UX enhancements to speed previews*, and *Search V2 Authoring - Advanced search features*
- **Add administrator and developer efficiencies** with new *DXClient*, *OIDC SSO*, and *Helm values updates*, and *enhanced "Guide Me" tutorials* for new and experienced practitioners.

New HCL Digital Experience Compose v9.5 CF230 version adds updates designed to:

- **Expand content and site design capabilities** with *support for EAR-based themes and WCM plugins*.
- **Enable administrators to optimize repeatable delivery** tailored to requirements with capability to *customized DX Compose WebEngine images with custom scripts*, also *new support for SQL Server 2022 when using Amazon RDS*
- DX Compose includes a main container called WebEngine that is built on the Open Liberty platform and operates on certified Kubernetes platforms.

What's New in CF230 - Details

All DX (8.5, 9, 9.5) and DX Compose versions

- HCL DX software is available through the My HCLSoftware portal
- DXClient – New xmlAccessOutputFileName parameter
- Presentation Designer - Handle multiple stylesheets components
- HCL DX Action Bar and Practitioner Studio UI updates
- DX Help Center Guide Me Updates

DX 9.5 On-Premises versions

- WAS, JDK, and iFix versions

HCL Digital Experience 8.5 and 9.0 Versions

- Extended Support option now available for DX versions 8.5 and 9.0
- Automatically apply 9.5 from a later CF installation

What's New in CF230

HCL Digital Experience 9.5 Container Only Version

- Helm values updates

HCL Digital Experience 9.5 Container and DX Compose 9.5 Versions

- Enabling OIDC SSO between HCL DX and HCL Leap in Kubernetes
- Search V2 Authoring - Advanced search filters

What's New in CF230

HCL Digital Experience Compose Version

- Deploying and configuring EAR-based themes and WCM plugins
- Customize DX Compose WebEngine images with custom scripts
- Support for SQL Server version 2022 when using Amazon RDS

HCLSoftware

All DX (8.5, 9, 9.5) and DX
Compose 9.5 versions



My HCLSoftware delivery portal

Downloading HCL DX software from new My HCLSoftware (MHS)

All DX and DX Compose offerings are available to entitled customers.

<https://my.hcltechsw.com/>

HCLSoftware

Customer Support

My HCLSoftware

Downloads

Deployments

HCL Technologies (Internal Customers)

Home

Downloads

HCL Digital Experience

HCL Digital Experience

Cloud (Hosted)

Cloud Native

Compose

DX Early Access Program

HCL Connections for Digital Experience

Portal Offerings

Third Party for Digital Experience

Web Content Manager

HCLSoftware

Customer Support

My HCLSoftware

Downloads

Deployments

Home

Downloads

HCL Digital Experience

Portal Offerings

HCL Digital Experience

Releases

9.5

9.0

8.5

Name

9.5.0

My HCLSoftware delivery portal

Download the latest CF

HCLSoftware

My HCLSoftware

Downloads

Deployments

Home

>

Downloads

>

HCL Digital Experience

>

Cloud Native

HCL Digital Experience

Releases

All

Name

DX Cloud Native Tier7 9.5-226

DX Cloud Native 9.5-226

DX Cloud Native Tier7 9.5-225

DX Cloud Native 9.5-225

DX Cloud Native Tier7 9.5-224

DX Cloud Native 9.5-224

HCLSoftware

My HCLSoftware

Downloads

Deployments

Home

>

Downloads

>

HCL Digital Experience

>

Cloud Native

>

DX Cloud Native 9.5-226

HCL Digital Experience

DX Cloud Native 9.5-226 (17 Mar 2025)

Portal Offerings Supporting Resources

HCL Digital Experience Product Documentation

System Requirements for HCL Digital Experience

Downloads

Name	Description	Platform	Released	Size	Actions
HCL-DX-CF226_Express_Update....	HCL_DX_CF226_Express_Update	multiple	17 Mar 2025	116.6 MB	Download Details More
HCL-DX-CF226_RemoteSearch_U...	HCL_DX_CF226_RemoteSearch_Update	multiple	17 Mar 2025	116.6 MB	Download Details More
HCL-DX-CF226_Server_Update.zip	HCL_DX_CF226_Server_Update	multiple	17 Mar 2025	1.55 GB	Download Details More
hcl-dx-kubernetes-v95-CF226.zip	HCL DX 9.5 CF226	multiple	17 Mar 2025	9.64 GB	Download Details More

DX Compose software available in the My HCLSoftware portal

HCL DX Compose is also available through the new My HCLSoftware portal

HCLSoftware

My HCLSoftware

Downloads

Deployments

Home

>

Downloads

>

HCL Digital Experience

HCL Digital Experience

Cloud (Hosted)

Cloud Native

Compose

HCLSoftware

My HCLSoftware

Downloads

Deployments

Home

>

Downloads

>

HCL Digital Experience

>

Compose

HCL Digital Experience

Releases

9.5

Name

9.5.1-226

9.5-225

9.5-224

HCLSoftware

My HCLSoftware

Downloads

Deployments

Home

>

Downloads

>

HCL Digital Experience

>

Compose

>

9.5.1-226

HCL Digital Experience

9.5.1-226 (17 Mar 2025)

Read and accept the applicable license agreements to download files.

Compose Supporting Resources

HCL Digital Experience Compose Product Docu...

System Requirements for HCL Digital Experienc...

Downloads

Name	Description	Platform	Released	Size	Actions
hcl-compose-kubernetes-CF226....	HCL DX Compose 9.5 CF226	multiple	17 Mar 2025	5.31 GB	Accept licenses ⓘ
hcl-dxclient-image-v95_CF226_2...	HCL DX 9.5 CF226 Client Image	multiple	17 Mar 2025	227.15 MB	Accept licenses ⓘ
hcl-dxclient-v95_CF226_2025031...	HCL DX 9.5 CF226 Client	multiple	17 Mar 2025	2.36 MB	Accept licenses ⓘ
HelmChart-9.5.18.0_GA.zip	HCL Volt Foundry Container Deployment Tool	docker	11 Feb 2025	429.65 KB	Accept licenses ⓘ
mfcli_9.5.18.0_GA.jar	HCL Volt Foundry Command Line Utility	docker	11 Feb 2025	23.89 MB	Accept licenses ⓘ
VoltFoundryContainersOnPrem-...	HCL Volt Foundry Container Installer (Kubernetes cluster)	multiple	11 Feb 2025	49.89 MB	Accept licenses ⓘ

HCLSoftware

DXClient - New xmlAccessOutputFileName parameter

Release managers and developers can specify the output file name for execution of an XMLAccess process using DX Client

Starting from CF230, use this attribute to specify the name of the output XML file:

```
--xmlAccessOutputFileName <filename>.xml
```

Command options passed through the command line overrides values set in the `config.json` file.

Log files from command execution can be found in the logs directory of the DXClient installation.

Example

```
dxclient xmlaccess --xmlFile <xml-file-with-path>
```

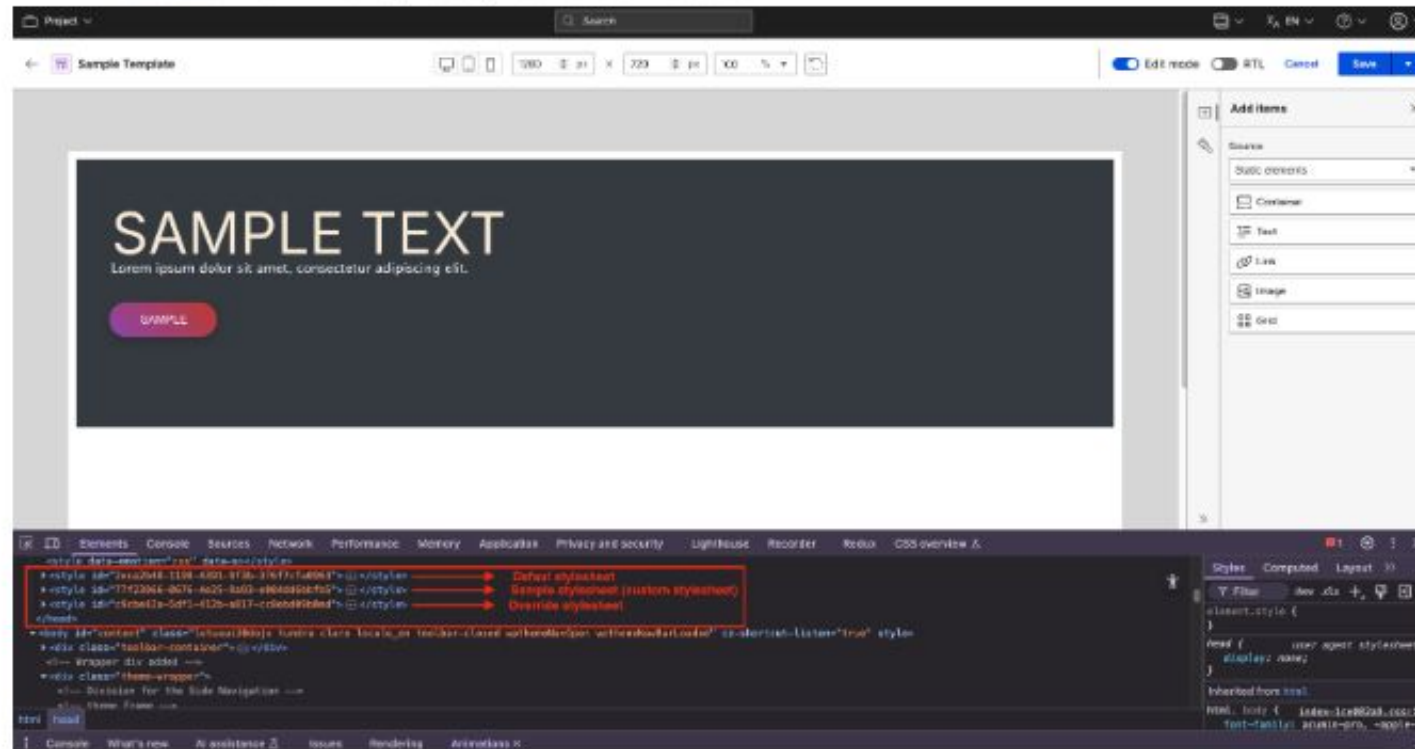
- This provides additional customization option for DX Continuous Integration and Continuous Delivery (CI/CD) automations

DX Help Center [Reference](#)

Presentation Designer - Handle multiple stylesheets components

Designers and authors can apply multiple stylesheet components to a presentation template for more advanced control and structured styling

HTML head with multiple stylesheets loaded:



- Presentation Designer will automatically load the stylesheets and apply styles to the elements on the canvas.
- From the initial render of Presentation Designer, the stylesheets are loaded in the HTML head in the same order they are declared in the markup.

HCL DX Action Bar and Practitioner Studio UI updates

Updates to the HCL DX Action Bar and Practitioner Studio UI add a new side navigation and improved navigation structure to accelerate design and delivery

- The Toolbar now features a centralized search function, making it easier to locate content and tools.
- A dedicated user profile menu has been introduced, providing quick access to profile management, impersonation, and logout options.
- The Administration pages have been reorganized to improve usability. Two new sections have been introduced:

- **Content Management:** This section provides access to applications used for the general administration of Web Content Management.
- **Production:** This section includes applications designed to streamline essential administrative tasks for managing the portal.

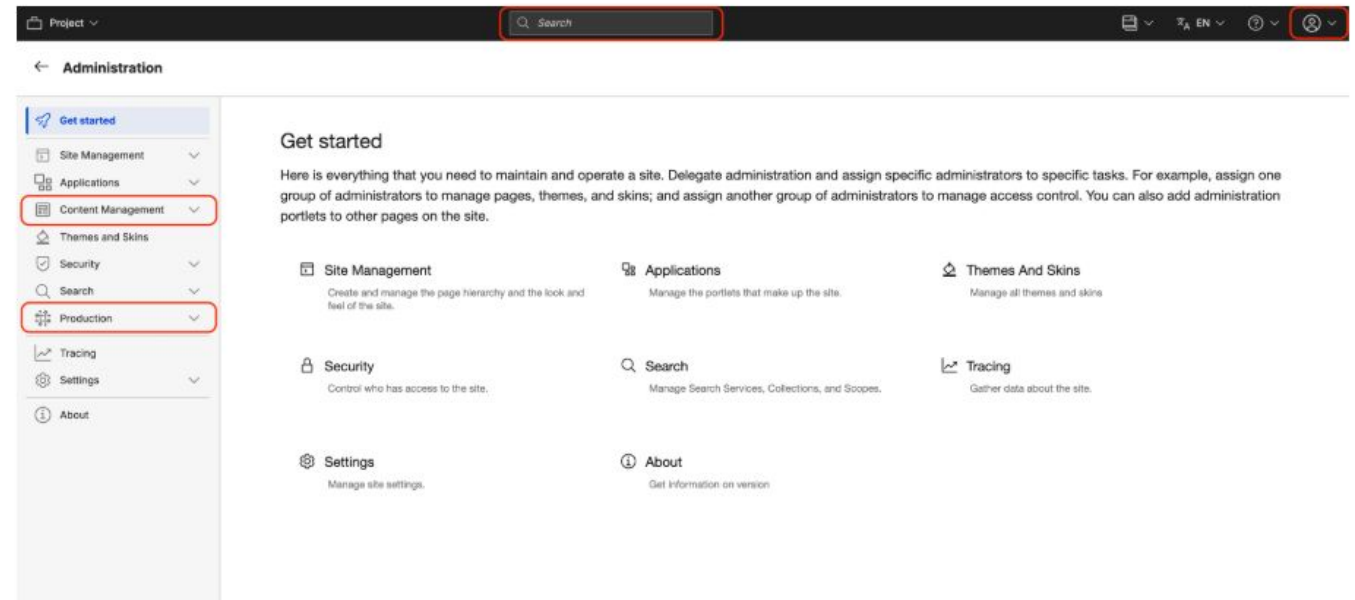
DX Help Center [Reference](#)

Action Bar

The Action Bar functions as the entry point into the Site Toolbar and Site Manager, where you can preview your site, access projects, and more. It is also where content authors can enable editing and information modes.

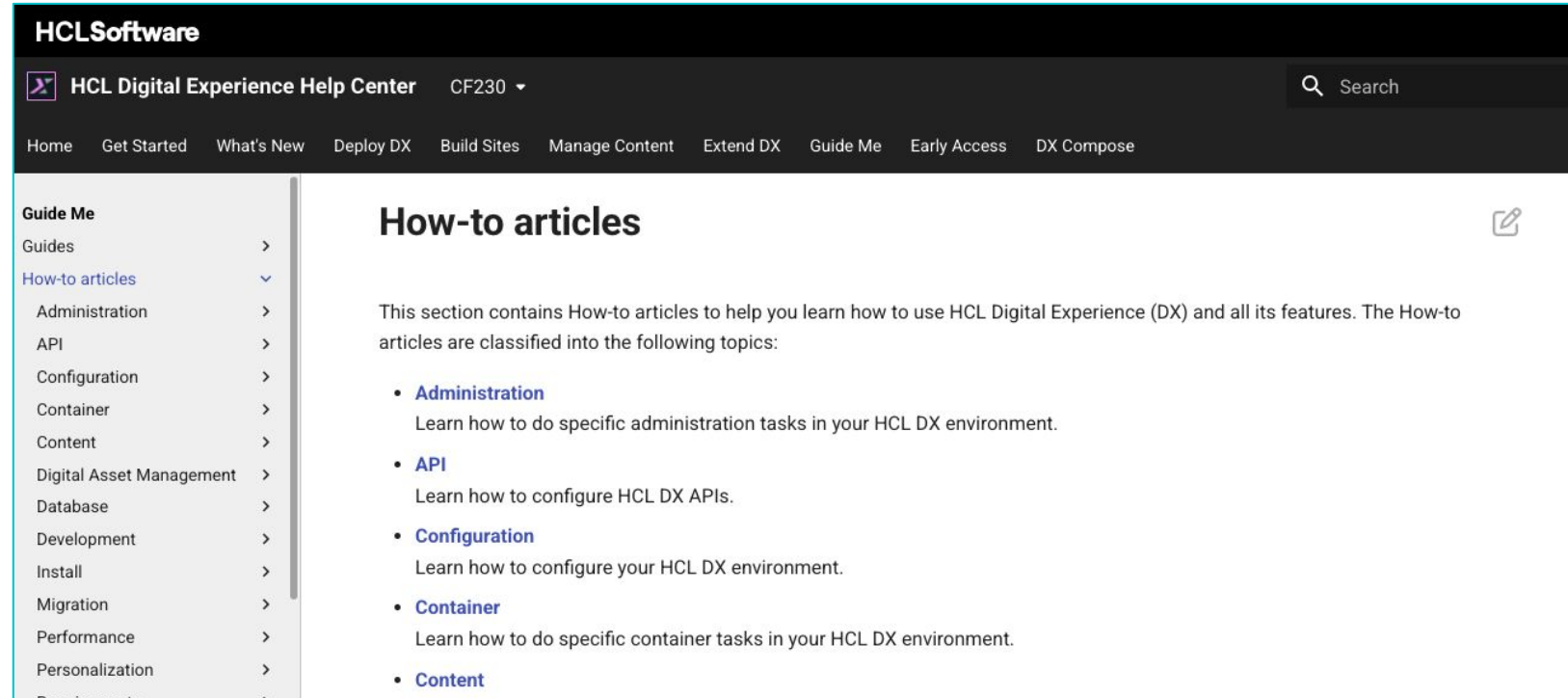


Enhanced Practitioner Studio and toolbar



HCL DX Help Center – Guide Me

The Guide Me section has been restructured to include three main subtopics: Guides, How-to articles, and Glossary..



DX Help Center [Reference](#)

HCLSoftware

HCL Digital Experience
9.5 Container Only
Version



Helm values updates

DX Helm values updates provide administrators new management options for greater control of DX deployments.

- These include added properties, removed properties, and properties with changed defaults.
Use this as a reference when upgrading to ensure compatibility and to guide configuration updates.

CF230

Added Keys:

Key	Default Value
networking.haproxy.customHeader	[]
networking.haproxy.deleteHeader	[]
incubator.configuration.searchMiddleware.version	v2
incubator.configuration.searchMiddleware.contextRoot.api	/dx/api/search
incubator.configuration.searchMiddleware.contextRoot.pickerUI	/dx/ui/search/picker

Removed Keys:

None

Changed Values:

None

DX Help Center [Reference](#)

HCLSoftware

HCL Digital Experience
9.5 Container and DX
Compose Versions



Enabling OIDC SSO between HCL DX and HCL Leap in Kubernetes

Administrators can present a secure, seamless login experience for end users presenting HCL DX and HCL Leap integrated applications through their DX deployment.

Enable Single Sign-On (SSO) using the OpenID Connect (OIDC) protocol when integrating HCL DX with HCL Leap. This approach connects directly to the preferred Identity Provider (IdP) such as Keycloak, Azure Active Directory (AD) or Okta.

Example of an OIDC definition:

```
# Enter appropriate values for <your-oidc-id>, <your-client-id>, <your-client-secret>, <your-oidc-server>.
configuration:
  leap:
    configOverrideFiles:
      openIdConnect: |
        <server description="leapServer">
          <openidConnectClient id="<your-oidc-id>"
            clientId="<your-client-id>"
            clientSecret="<your-client-secret>"
            signatureAlgorithm="RS256"
            authFilterRef="interceptedAuthFilter"
            mapIdentityToRegistryUser="false"
            httpsRequired="true"
            scope="openid"
            userIdentityToCreateSubject="preferred_username"
            discoveryEndpointUrl="https://<your-oidc-server>/realms/<your-realm-name>/ .well-known/"
          </openidConnectClient>
          <authFilter id="interceptedAuthFilter">
            <requestUrl id="authRequestUrl" matchType="contains" urlPattern="/apps/secure|/apps/se
          </authFilter>
          <httpEndpoint id="defaultHttpEndpoint"
            host="*"
            httpPort="9080"
            httpsPort="9443">
            <samesite none="*" />
          </httpEndpoint>
```

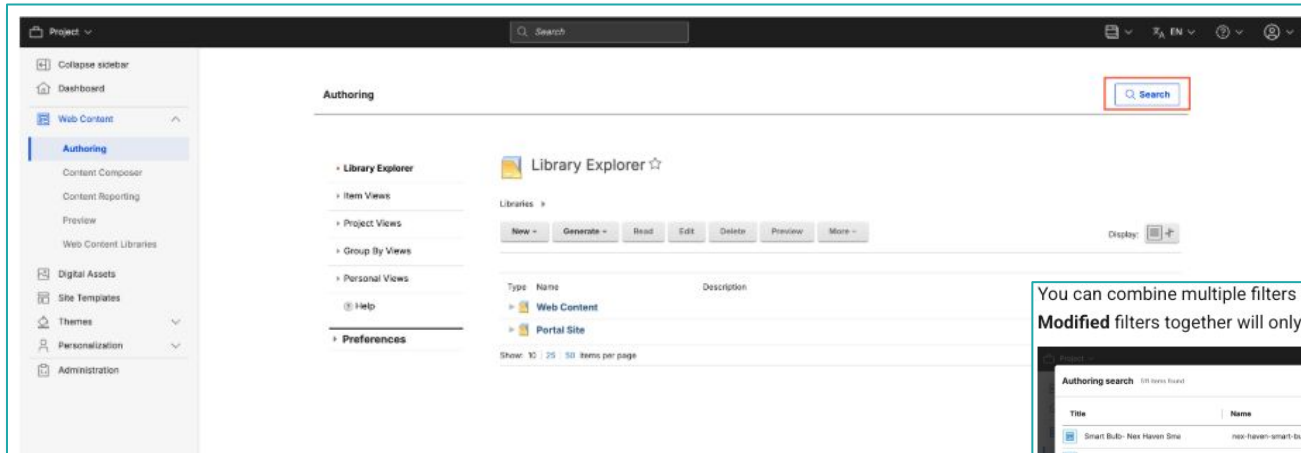
By configuring HCL DX and Leap to trust your central IdP, users get a seamless "login once" experience and security is managed in a single place.

DX Help Center [Reference](#)

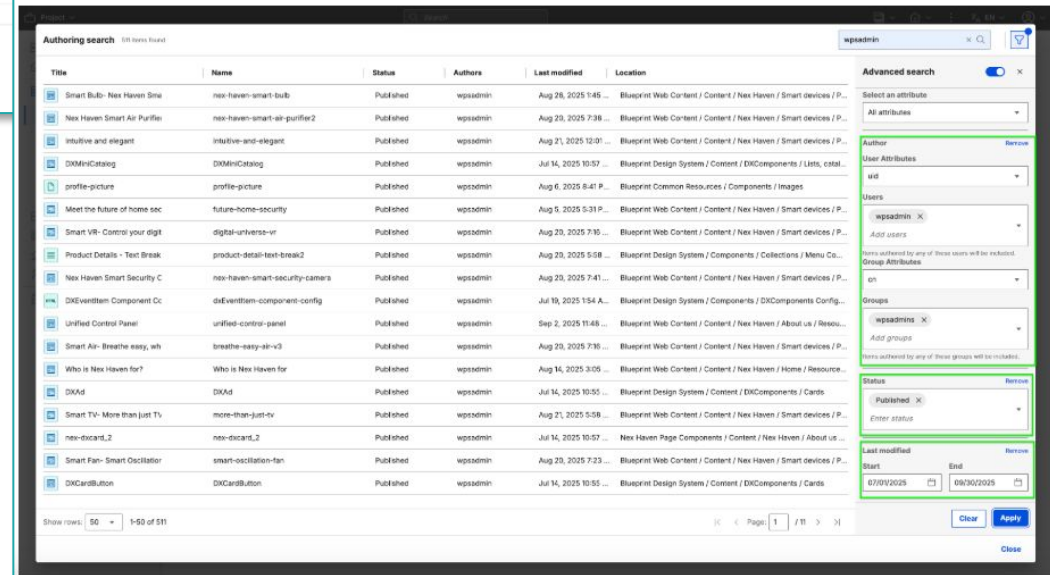
Search V2 Authoring - Advanced search filters

Content authors can apply new search options to speed information retrieval, refine search results and narrow down large data sets more efficiently. These new options include filters such as Author, Status, and Last Modified, and attributes such as Description, Title, and Type.

For more information, refer to Using Search V2 Authoring - Advanced Search Filter.



You can combine multiple filters to refine your search results even further. For example, applying the **Author**, **Status**, and **Last Modified** filters together will only display the records that meet those criteria, helping you quickly find the most relevant content.



DX Help Center [Reference](#)

HCLSoftware

HCL Digital Experience
Compose 9.5 Version



Deploying and configuring EAR-based themes and WCM plugins

Expand capabilities presented through DX Compose sites with new support to deploy and configure Enterprise Archive (EAR)-based themes and Web Content Manager (WCM) plugins

Registering the theme in DX Compose

To register the theme, you must customize and import an XML file.

1. Create your XML by taking the following snippet and updating or expanding it to match your theme and any skins:

```
<?xml version="1.0" encoding="UTF-8"?>
<request xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="PortalConfig_8.0
  <portal action="locate">
    <skin action="update" active="true" objectid="xxxSkin" uniqueness="ibm.portal.skin.xxxSkin" resourcec
      <localedata locale="en">
        <title>xxxSkin</title>
      </localedata>
    </skin>
    <theme action="update" active="true" defaultskinref="xxxSkin" uniqueness="ibm.portal.theme.yyyTheme" r
      <localedata locale="en">
        <title>yyyTheme</title>
      </localedata>
      <allowed-skin skin="xxxSkin" update="set"/>
    </theme>
  </portal>
</request>
```

Save this XML into a file such as RegisterMyCustomTheme.xml.

DX Help Center [Reference](#)

Customize DX Compose WebEngine images with custom scripts

Administrators can speed time required to tailor deployment configurations with ability to add custom shell scripts to specific plugin directories within the WebEngine container.

These scripts can be configured to run during two key events:

- Scripts that run every time the container starts.
- Scripts that run when a new CF is applied, which is useful for tasks that need to be performed only during an update.

Adding custom script plugins

Starting with CF230, you can extend WebEngine functionality by adding custom shell scripts to designated plugin directories in the container. These scripts can run during container startup or during Cumulative Fix (CF) updates.

Custom script directories

The WebEngine container includes the following directories for customer-provided scripts:

- `/opt/openliberty/wlp/usr/svrcfg/bin/customer/startup`: Scripts in this directory run during container startup.
- `/opt/openliberty/wlp/usr/svrcfg/bin/customer/update`: Scripts in this directory run during CF updates (for example, when updating from CF229 to CF230).

Adding custom scripts to your image

To add custom scripts to your image, create a Dockerfile that builds upon an official HCL DX Compose WebEngine image. Include your custom scripts in the appropriate directories:

```
<pre>
...
# Dockerfile contents:

FROM oci://hclcr.io/dx-compose/hcl-dx-deployment/webengine:CF230_20250724-1642_34573

# Copy custom startup scripts to be automatically executed
COPY --chown=dx_user:dx_users ./startup-script1.sh /opt/openliberty/wlp/usr/svrcfg/bin/customer/startup/
COPY --chown=dx_user:dx_users ./startup-script2.sh /opt/openliberty/wlp/usr/svrcfg/bin/customer/startup/

# Copy custom update scripts to be automatically executed
COPY --chown=dx_user:dx_users ./update-script.sh /opt/openliberty/wlp/usr/svrcfg/bin/customer/update/

# Helper scripts can be placed in any subdirectory - these won't be auto-executed
COPY --chown=dx_user:dx_users ./helpers/ /opt/openliberty/wlp/usr/svrcfg/bin/customer/helpers/
# Or in subdirectories under startup/update
COPY --chown=dx_user:dx_users ./startup-helpers/ /opt/openliberty/wlp/usr/svrcfg/bin/customer/startup/helpers,

# Make all scripts executable
RUN chmod -R +x /opt/openliberty/wlp/usr/svrcfg/bin/customer/
...
```

This new capability enables more control over DX Compose deployments, allowing for custom automation and configuration (such as registering an EAR-based theme) directly within the WebEngine container.

Support for SQL Server version 2022 when using Amazon RDS

DX Compose now supports SQL Server version 2022, and provides a sample custom setup script.

Sample values.yaml file for SQL Server

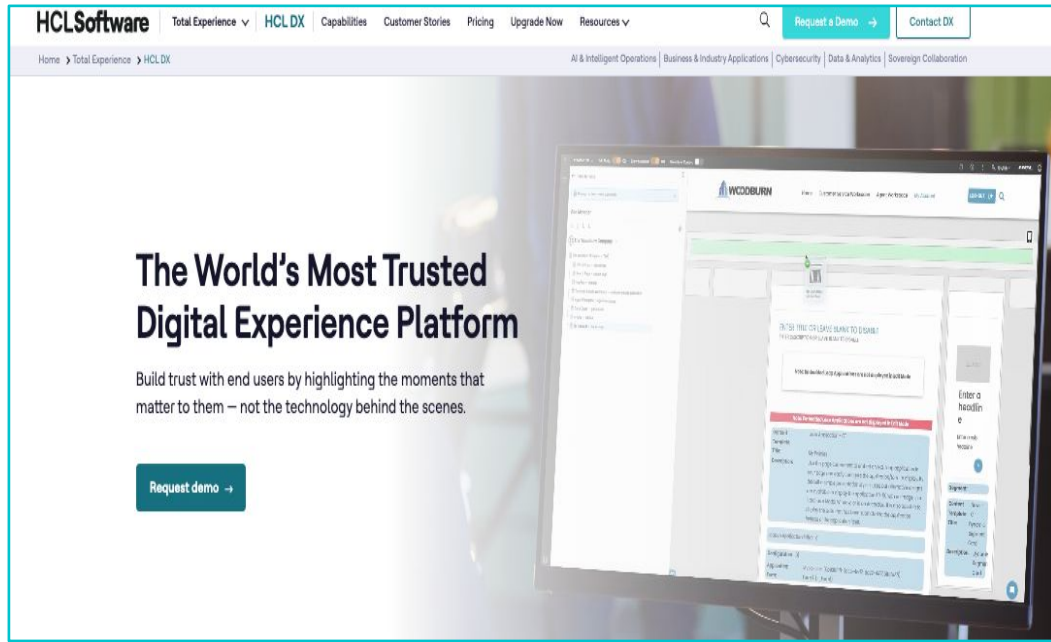
```
configuration:
  webEngine:
    dbDomainProperties:
      InitializeFeedbackDB: "true"
      feedback.DbType: "sqlserver"
      feedback.DbName: "WPFDBK"
      feedback.DbSchema: "FEEDBACK"
      feedback.DataSourceName: "wpfdbkdbDS"
      feedback.DbUrl: "jdbc:sqlserver://DB_HOST_PLACEHOLDER:1433;databaseName=WPFDBK;encrypt=false"
      feedback.DbUser: "<replace-db-user>"
      feedback.DbPassword: "<replace-db-password>"
      feedback.DbRuntimeUser: "<replace-db-user>"
      feedback.DbRuntimePassword: "<replace-db-password>"
      feedback.DBA.DbUser: "<replace-db-user>"
      feedback.DBA.DbPassword: "<replace-db-password>"
      feedback.DbConfigRoleName: "WP_PZN_CONFIG_USERS"
      feedback.DbRuntimeRoleName: "WP_PZN_RUNTIME_USERS"
      feedback.XDbName: "WPFDBK"
      feedback.DbNode: "pznNode"
      likeminds.DbType: "sqlserver"
      likeminds.DbName: "WPLM"
      likeminds.DbSchema: "LIKEMINDS"
      likeminds.DataSourceName: "wplmdbDS"
      likeminds.DbUrl: "jdbc:sqlserver://DB_HOST_PLACEHOLDER:1433;databaseName=WPLM;encrypt=false"
      likeminds.DbUser: "<replace-db-user>"
      likeminds.DbPassword: "<replace-db-password>"
```

On this page

- Setup external database (schema / user creation)
- Configuring an external database
- External database configuration in the custom values.yaml file
- Sample values.yaml file for DB2
- [Sample values.yaml file for ORACLE](#)
- Sample values.yaml file for SQL Server
- External database configuration in the custom secrets file
- Changing the database configuration
- Using the external database and triggering the database transfer
- dbDomainProperties
- dbTypeProperties

This expands deployment options to leverage SQL Server 2022 for administrative operations data storage.

DX Help Center [Reference](#)



For More Information

- **HCL Digital Experience Product Information** - hclsw.co/dx
- **HCL Digital Experience on HCL Solutions Factory (SoFy)** - hclsofy.com
- **HCL Digital Experience Help Center** – hclsw.co/dx-help-center
- **HCL Digital Experience Blogs** – hclsw.co/dx-blogs
- **HCL Product Support** - hclsw.co/product-support
- **HCL DX Product Ideas** - hclsw.co/dx-ideas
- **HCL DX Product Demos** - hclsw.co/dx-product-demo
- **HCL Partner Connect – Partner Register** - hclsw.co/partner-connect
- **HCL Digital Experience GitHub** - hclsw.co/dx-github
- **Dxers User Group** – [dxers](https://dxers.com)

HCLSoftware U

Technical Education & Certification

- Free self-paced courses for HCL Domino, Volt MX, MX Go, Leap, Digital Experience and more!
- Technical Webinar Events & Replays
- Technical Certifications Program and Digital Badges

<https://hclsoftwareu.hcltechsw.com/>

The screenshot displays the HCLSoftware U website. At the top is a navigation bar with links: Home, Dashboard, Products, Courses, Resource Library, Certifications, Events, FAQ, and Contact. The main header features the text "Introducing HCLSoftware U" and "Enablement Cloud | HCLSoftware Solution Training Anywhere." with a "Register for Free" button. Below this is a section titled "All the tools that you need" with a subtext: "Our self-paced learning journeys will help you navigate through the online content based on your role. Explore the Learning Journeys by Product:". This section contains a grid of 16 product cards, each with a title, brief description, and an "Explore" link. The products listed are: HCL AppScan, HCL BigFix, HCL Commerce Cloud, HCL DevOps Deploy, HCL DevOps Test, HCL DevOps Velocity, HCL Digital Experience, HCL Discover, HCL Domino, HCL DRYICE, HCL Leap, HCL Sametime, HCL Unica, HCL Volt MX, HCL Volt MX GO, and HCL Workload Automation for z/OS. At the bottom, there are three columns: "Self-Paced Training" with a graduation cap icon, "Events" with a person at a screen icon, and "Resource Library" with a book icon. Each column contains a short paragraph about the respective service. The footer includes the HCLSoftware U logo, the text "Get Ready. Get Set. Get Certified.", and a "Get Certified" button.

HCLSoftware U

Home Dashboard Products Courses Resource Library Certifications Events FAQ Contact

Introducing HCLSoftware U

Enablement Cloud | HCLSoftware Solution Training Anywhere.

Register for Free →

All the tools that you need

Our self-paced learning journeys will help you navigate through the online content based on your role. Explore the Learning Journeys by Product:

HCL AppScan Fast, Accurate, Agile Application Security Testing. Explore →	HCL BigFix With BigFix you can secure and manage every endpoint. Explore →	HCL Commerce Cloud Delivering powerful B2C, B2B and B2B2C customer experiences. Explore →	HCL DevOps Deploy Learn to Deploy anything, anywhere with our market-leading continuous delivery solution. Explore →
HCL DevOps Test Supports interface UI testing, Performance testing, API testing and more. Explore →	HCL DevOps Velocity Learn to Make work visible with value stream management for the enterprise. Explore →	HCL Digital Experience Build Total Experiences, Not just Content. Explore →	HCL Discover Reveals valuable user insights in just a few clicks. Explore →
HCL Domino Discover the new capabilities of Notes Domino v12. Explore →	HCL DRYICE HCL DRYICE is HCLSoftware's foray into the world of AI and Intelligent Automation. Explore →	HCL Leap Offers users a low-code development platform to accelerate the design, build and deployment. Explore →	HCL Sametime Your Meetings, Your Data, Your Way. Explore →
HCL Unica Enterprise marketing automation platform provides precision marketing at scale. Explore →	HCL Volt MX Build amazing mobile and multi-experience apps quickly. Explore →	HCL Volt MX GO Build amazing mobile and multi-experience apps quickly. Explore →	HCL Workload Automation Accelerate IT and Business Automation. Explore →
HCL Workload Automation for z/OS Accelerate IT and Business Automation. Explore →			

Self-Paced Training

A great way to start your learning experience with HCL Software is to start with our free online self-paced courses. Pick from 100's available across the software portfolio. Product experts have crafted these courses, labs, and quizzes to help focus and fast track your product knowledge, helping you & your business gain value from HCL Software faster. Start right here, let's explore a wealth of HCL product courses today.

Events

Listen, learn, and ask questions of our subject matter experts as they provide a wealth of product insight through live events and webinars. Attending live will help you gain skills faster, and learning from other customer too.

Resource Library

A great way to expand and broaden your product learning experience is to dive into our whitepapers and user stories across the portfolio. Enhance your skill set with targeted and focused materials aimed at building you and your business product and area knowledge. Grab a whitepaper, let's expand your horizons today.

Get Ready. Get Set. Get Certified.

The HCLSoftware U Certification Program will help to boost your career and take your credibility to the next level. Schedule your proctored exam, onsite at a test center or online.

HCLSoftware U

Get Certified →