A Game Changing Fast-Track Migration to WCS v9 for a Leading Retailer

About the Client

The Client is an American lifestyle retailer that focuses on upscale casual wear. It’s headquarter is in New Albany, Ohio. The business operates more than 1,000 stores across all three brands.
Our Approach

Migrated various WCS components mainly in catalog, member & order modules

Royal Cyber performed the migration to WCS v9 using best practices.

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Business Challenge

The client wanted a fast innovative, modern, cloud ready and extensible digital commerce architecture with the speed and flexibility to fulfill business demands. Therefore, the client decided to migrate to WebSphere Commerce v9.

1. The client’s existing version of WCS Toolkit was v7 FEP7. It was mandatory for them to upgrade the existing environment to Feature pack 8 as a first step before migrating to WCS v9.
2. Since there was no application migration utility, the code migration tool scanned EJB beans and identified entities and code that needed to be updated to JPA specification.
3. Custom assets were migrated manually.
4. The migration involved multiple external systems integrations/configurations.
5. Considering WCS v9 architecture, migrating custom assets needed to be in-line with v9 server components.
6. Setting up a stable development environment itself took a couple of weeks.
7. The development environment hardware was not meeting the requirements and it was painful to update DB2 development database.
8. Access to client’s logging tools for debugging issues in higher environments was not easy.

Our Approach

Royal Cyber performed the migration to WCS v9 using best practices.

1. Migrated various WCS components mainly in catalog, member & order modules
2. Royal Cyber performed the migration to WCS v9 using best practices.
Developed a Microservice API for migration

Involved in migrating store (client side) logic, transaction or command (server side) logic, & search logic

Implemented the client's authorization components by migrating and building the all new web application which consists of CAP & MAILMAN.

Provided the root cause analysis details to the client by identifying the OOB components limitations to raise PMRs with IBM.

Delivered the design documents to the client for cases like CAP-MAILMAN implementation, developing the REST API for Caching strategy, building the API for moving the header-data to resolve the session data loss.

Royal Cyber contributed to resolving the critical, blocker issues, which resulted in delivering a stable build with zero major issues.

Supported client's DSRE team in configuring the content, incorporating the CAP-Mailman application, applying the PMRs on higher environments.

Created and deployed a separate stand-alone Spring JMS application on IBM OPEN LIBERTY Server. Then they made it to communicate with IBM WCS v9 Transaction server using IBM MQ and JMS, at respective ends.

RESULTS

The client gained the following results

1. Speed and Flexibility
2. Effortless Commerce Platform Management
3. A modular architecture, driving better scale with less overhead
4. Continuous integration/continuous delivery with WCS v9 Docker capability
5. A light weight application was deployed separately in a Docker container

SOLUTION

Royal Cyber’s seasoned WCS resources helped the client in transition from WCS v7 to v9 to have a simplified commerce platform management.

KEY BENEFITS

› CICD using WCS v9 Docker feature
› Reduction in time to market
Royal Cyber Inc. Headquartered in Naperville, IL is a leading software organization that provides services ranging from application development and deployment to training and consultancy. We commenced the operations in the year 2002 as a specialized Technology provider striding in as a software deployment service provider, assisting clients to meet the standards and demands of doing business in the rapidly changing marketplace. Today we stand tall as a One Stop Shop for all your IT needs.