THIS IS FEDORA 6.X

Understanding the Oxford Common File Layout, Intro to Migration Tools and Understanding Community Developed Integrations

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Fedora 6.x is the newest, most modern version of the software, representing a significant change in the preservation standards and backend infrastructure from previous versions. This modernization of the software provides users a more robust preservation platform, while giving the community back the data transparency they appreciated from Fedora 3. This workshop will provide participants with the ability to work directly with the newest version of Fedora through hands-on exercises as well as learning about the Oxford Common File Layout (OCFL) and it's role in digital preservation within a Fedora ecosystem. We will complete a sample migration using the Migration Toolkit, a series of instructional modules created from an IMLS grant-funded project, and gain experience working with the migration utility and validator tools. Lastly we will explore several community-developed integrations that allow for additional functionality and visibility into the contents within a Fedora repository.

This workshop is intended to provide participants an opportunity to work directly with the software, understand it's preservation features and become familiar with the recently developed tools for migrating from Fedora 3.x to 6.x.

Keywords: Fedora, Repository, Open Source, Migrations

Conference Topics –From Theory to Practice, Immersive Information

I. INTRODUCTION

In July, 2021, the long-awaited Fedora 6.0 was released. This workshop will provide an overview of the software itself, a look at our roadmap and path to release, as well as dive into some important new features that helped return Fedora to it's digital preservation roots. We will showcase and demonstrate the newly available migration tooling and documentation as we work through a hands-on migration. Lastly we will demonstrate how to integrate Fedora with your ecosystem via the Camel Toolbox.

The workshop will include several hands-on portions that will allow attendees to exercise Fedora features, while learning about their purpose and function. These features are accessible via a built-in web interface, so no command line experience is required.

II. HANDS-ON BREAKDOWN

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We propose to break the hands-on portion down in to the following segments for easier comprehension:

Section 1: Fedora 6 Technical Overview & Resources Management

> - Highlight and test new features of Fedora 6.x and understanding how to work with resources within the Fedora platform.

> - Outline and explain OCFL's role in digital preservation within Fedora and how users can view and interact with OCFL files on disk.

Section 2: Migration

> - Participants will engage in a migration of a sample data set from Fedora 3.x to Fedora 6.3 using the migration tooling.

> - Participants will be given an opportunity to work through components of the Migration Toolkit guided by the facilitator.

Section 3: Fedora and Community Integrations

> - Understanding community-developed integrations like the Camel Toolbox and others, demonstrating how to integrate Fedora with your ecosystem using it.

This is a technical workshop for those with command line experience. While no explicit Fedora experience is required, a general understanding of the role, components and functionalities of a repository would be beneficial. Attendees who wish to participate in the hands-on sections will need to access an online sandbox via a URL which will be provided ahead of the workshop. Participants will be required to bring their own laptop for participation - tablets and handheld devices will not be supported.

III. LEARNING OUTCOMES

1. By the end of this workshop, participants will be able to comfortably manage resources within Fedora and understand how Fedora provides a digital preservation solution using the features available in the newest release - namely how OCFL provides a robust, transparent and long-lasting solution.
2. Participants will also be familiar with the Fedora migration tool suite and how to use it to execute a Fedora 3 - 6 migration as well as

how to integrate extensions into their Fedora environments.

REFERENCES

[1] Manuscript Templates for Conference Proceedings, IEEE. http://www.ieee.org/conferences_events/conferences/publishing/templates.html