

Fedora 4 Tutorial

David Wilcox
DuraSpace
P.O. Box 138
Winchester, MA 01890
1-607-216-4548
dwilcox@duraspace.org

Andrew Woods
DuraSpace
P.O. Box 138
Winchester, MA 01890
1-607-216-4548
awoods@duraspace.org

ABSTRACT

Fedora is a flexible, extensible repository platform for the management and dissemination of digital content. Fedora 4, the newly released, revitalized version of Fedora, introduces a host of new features and functionality that both new and existing Fedora users are interested in learning about and experiencing first-hand.

This tutorial will provide an introduction to and overview of Fedora 4, with a focus on the latest features. Fedora 4 implements the W3C Linked Data Platform recommendation, so a section of the tutorial will be dedicated to a discussion about LDP and the implications for Fedora 4 and linked data. Fedora 4 is also designed to be integrated with other applications, so a section of the tutorial will review common applications and integrations patterns. Finally, attendees will participate in a hands-on session that will give them a chance to install, configure, and explore Fedora 4 by following step-by-step instructions.

General Terms

Infrastructure opportunities and challenges; Frameworks for digital preservation; Preservation strategies and workflows; Innovative practice; Training and education.

Keywords

Fedora, repository, linked data, open source.

1. OUTLINE

The tutorial will include four modules, each of which can be delivered in 1-2 hours.

1.1 Introduction and Feature Tour

This module will feature an introduction to Fedora generally, and Fedora 4 in particular, followed by an overview of the core and non-core Fedora 4 features. It will also include a primer on data modeling in Fedora 4, which will set the audience up for the next section.

1.2 Linked Data and LDP

The Fedora community is deeply invested in linked data best practices; this is exemplified by our alignment with the W3C Linked Data Platform recommendation in Fedora 4. This section will feature an introduction to linked data and LDP, with a particular focus on the way Fedora implements linked data.

1.3 Hands-on with Fedora 4

It is quite simple to get up and running with Fedora 4. This

module will give attendees an opportunity to experience Fedora 4 first-hand by following step-by-step instructions using a fully-functional virtual machine environment.

1.4 Fedora 4 Integrations

Fedora 4 is fundamentally a middleware application – it is meant to be used in conjunction with other applications. This section will provide an overview of the most common integration patterns, with a focus on some of the most popular application integrations.

2. DURATION

Full-day (6 hours)

3. AUDIENCE

This tutorial is intended to be an introduction to Fedora 4 - no prior experience with the platform is required. Repository managers and librarians will get the most out of this tutorial, though developers new to Fedora would likely also be interested.

4. OUTCOMES

Tutorial attendees will:

- Learn about the latest and greatest Fedora 4 features and functionality
- Discover new opportunities enabled by LDP and linked data
- Gain familiarity with the Fedora 4 software
- Understand how to integrate Fedora 4 with external applications

5. PRESENTERS

David is the Product Manager for the Fedora project at DuraSpace. He sets the vision for Fedora and serves as strategic liaison to the steering committee, leadership group, members, service providers, and other stakeholders. David works together with the Fedora Technical Lead to oversee key project processes, and performs international outreach to institutions, government organizations, funding agencies, and others.

Andrew is a software engineer specializing in the coordination of open source, distributed development initiatives that focus on the preservation and access of digital cultural heritage. He has over a decade of experience advising, managing, and implementing projects across government and academics sectors. For the last six years, he has worked as a member of the DuraSpace team providing software development and community coordination of the DuraCloud and Fedora applications. Prior to joining the not-for-profit organization, DuraSpace, he worked as a software contractor on a number of Federal projects.

iPres 2015 conference proceedings will be made available under a Creative Commons license.

With the exception of any logos, emblems, trademarks or other nominated third-party images/text, this work is available for re-use under a Creative Commons Attribution 3.0 unported license. Authorship of this work must be attributed. View a [copy of this licence](#).