The first idea: Creating an online repository that better draws upon the available historical information and consisting of publicly-available digital content started with images, continuing with textual content, particularly budgetary information and descriptions of appropriation requests, which really describe how the Naval Reactors program is evolving.

The second idea: link the online repository with online users also interested in naval nuclear propulsion.

In making these ideas a reality, the key is tools integration.

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-California Digital Library's XTF open source platform

-cloud services (Amazon Web Services)

-to build a discipline-specific repository

one thing I hope that you take from this session is a greater understanding of XTF...

First, I want to provide some background on the online service that I'm building, the Naval Reactors History Database.

-Rich, publicly-available resources on the history of this engineering program

-Not matched online

My goal is to build a robust online repository that better draws upon the available historical information and consisting of publicly-available digital images.

First attempts at organizing: MySQL/PHP, later with a Amazon Web Services SimpleDB database.

Then, I found the two tools that I'll be talking about today, and they've worked out very well for me:

-XTF (search and display)

-Amazon Web Services EC2 (hardware)

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XTF open source platform
XTF's application for institutional digital projects? a qualified yes

downside: no acquisitions or ingest module as part of XTF

on the other hand:

- used to support online repositories such as Calisphere

-the online tutorials envision XTF being used to create digital objects on a Windows workstation, using Amazon Web Services Elastic Compute Cloud (EC2)

I look at EC2 as a set of persistent resources that is available to support an online service:

- storage volumes containing the operating system, applications, and database objects

- an IP address

How to start working with EC2

EC2 server: Fedora 8 Linux operating system, Tomcat servlet engine installed to support the XTF platform.

You can build both Linux and Windows servers using EC2 - I'm using Linux in part because of cost issues - pricing for Linux servers is significantly cheaper than that for hosted Windows servers.

Runs as reserved instance: Since I know that I want the server running all the time, I made an up-front payment to reduce the overall cost.

Cost information (this is my project; I am locked into keeping costs low)

- EC2 (support)

- domain name

Using the XTF and EC2 tools to support my online repository.

If you found the info on the XTF tool intriguing, I urge you to google XTF and read the info on the
California Digital Library's web site, includes documentation, tutorials, and download links.

Building community:

data

infrastructure

community

The steps that I took to

An evolution in online collection building

2000-2004 time period

   library level - focus on infrastructure

2011

potential with the tools that I've described today - a powerful open source digital content platform and cloud infrastructure services - to shift the resource emphasis from infrastructure to community.