



# Transforming Research Access and Preservation: FSU Libraries' Figshare & TIND Journey

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# What is an Institutional Repository and a Digital Library?

Institutional Repository: research outputs, theses, dissertations

Focus: dissemination and research impact

Digital Library: unique and cultural collections

Focus: preservation and discovery

Different audiences require different solutions

<https://repository.lib.fsu.edu>



Emmett Till Collection



# How does this project support the RISE campaign's priorities?

- Research: open access and measurable impact
- Instruction: student scholarship visibility
- Innovation: modern, integrated platforms

*"Promoting data-engaged excellence by empowering informed decision-making through strategic analytics and collaborative partnerships across the university and beyond."*

- VISION 2030



Research Impact Librarian  
Jeremy Katz (jkatz@fsu.edu)



# How We Got Here

## **2012: Partnered with Florida Virtual Campus**

- Early Islandora adoption

## **2021: Direct transition to AWS**

- Self-hosted Islandora 7
- Full control and customization
- Adapted monolithic system to cloud

**Now transitioning to vendor-hosted platforms**

# What We Have Today

## Platform

- Islandora 7 (IR + Digital Library)
- Highly customized
- AWS-hosted



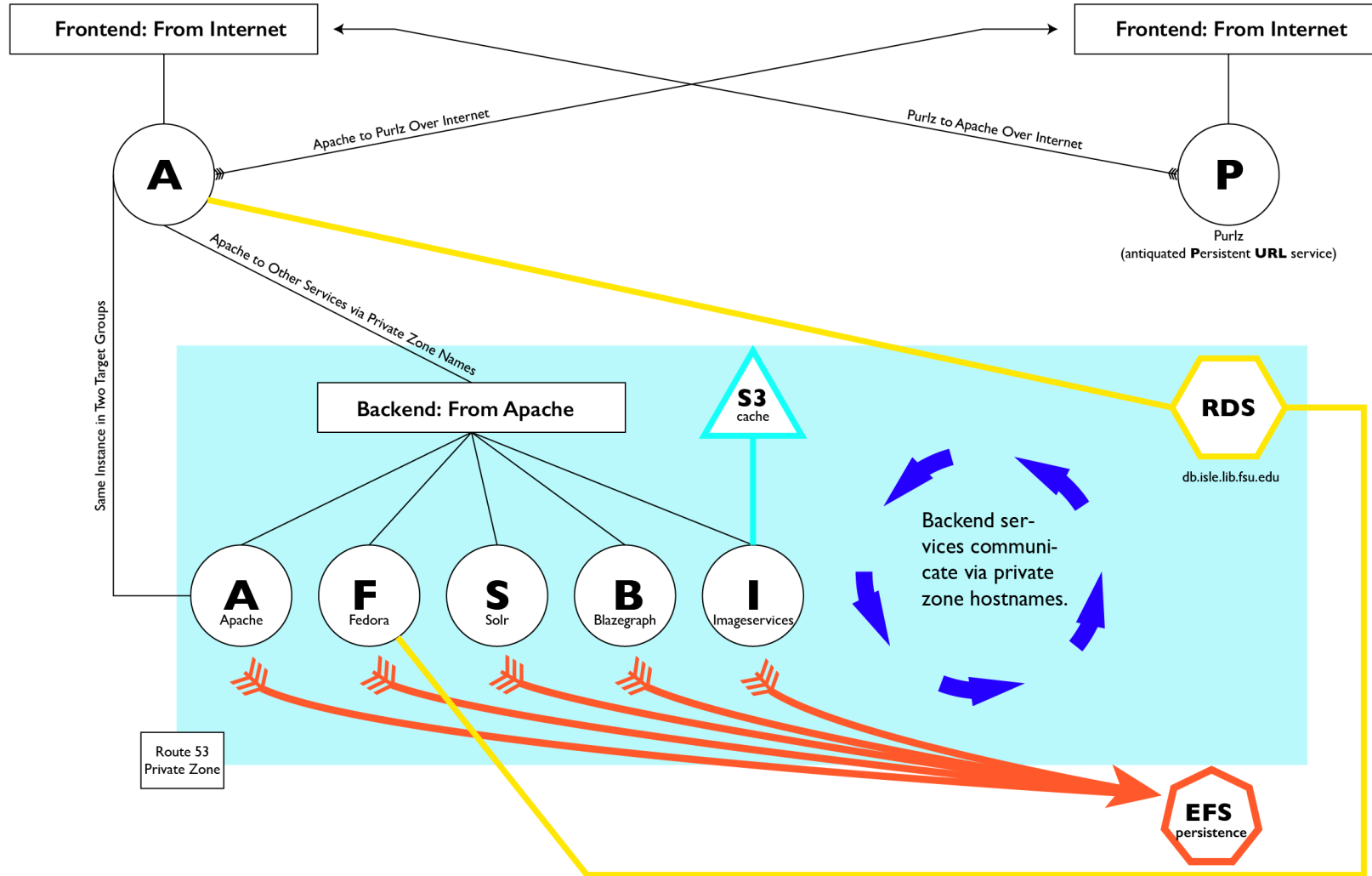
## At a Glance

- **~90 TB** total data
- **200,000+** objects -> Millions of Individual Files
- Derivatives, metadata, and associated content
- Electronic Thesis and Dissertations
- Research Papers

## Teams

- Digital Research and Scholarship + Special Collections → Content & users
- Software Development → Drupal / Islandora
- Digital Infrastructure → Infrastructure, AWS, security

# System Architecture





# From Monolith to Cloud

- Direct transition from Florida Virtual Campus to AWS
- Full data migration (~40 TB)
- No data loss or corruption
- ~1 year total
  - ~3 weeks data transfer
- Containerized architecture
- Private DNS for inter-service communication
- Localhost → HTTP communication
- EFS for shared storage
- Not cloud-native



# Current Challenges

## **Aging platform**

- Drupal 7 (EOL, Hero Devs “Never Ending Support” supplies security patches)
- Other Components:
  - Fedora 3 (EOL), Solr v4 (EOL), Blazegraph (EOL)
  - Dependency on MySQL 5 required significant effort to mitigate.

## **Architectural complexity**

- Tightly coupled + distributed components

## **Operational burden**

- AWS management, patching, DR
- Distributed logs across components

## **Limited agility & stability**

- High staffing needs, frequent instability



# What Does this Mean for the FSU Community?

## **Not Just a System Change**

- Improved Services

## **Clearer Outcomes**

- Shift to service focused platforms

## **Future Ready Platforms**

- Software as a Service Designed Around User Needs



# Strengthening Digital Collections

The TIND logo, consisting of the letters "T", "I", "N", and "D" in a blue, sans-serif font, enclosed within a blue rectangular border. The "I" and "N" are connected by a diagonal slash.

T I \ D

- Improved discovery and navigation
- Better support for curated collections
- Enhanced preservation workflows
- More intuitive user experience



# What Will Change?

- Simpler interfaces
- Faster performance
- Improved reliability
- Clearer submission processes



# What Will Stay the Same?

- Commitment to Open Access
- Support from library staff
- Long-term preservation
- Focus on researchers and students

# Questions?



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