

Radiam - Helping Researchers Keep Track of Data









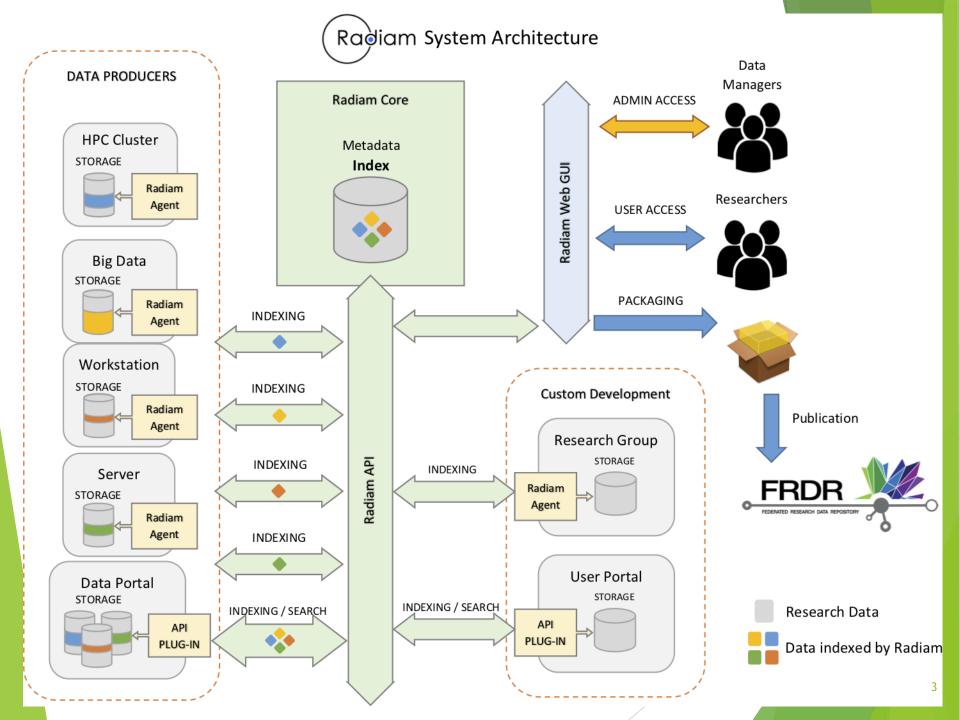
Alex Garnett, Research Data Management & Systems Librarian, SFU

Portage Tech Tools Showcase, 6/16/20

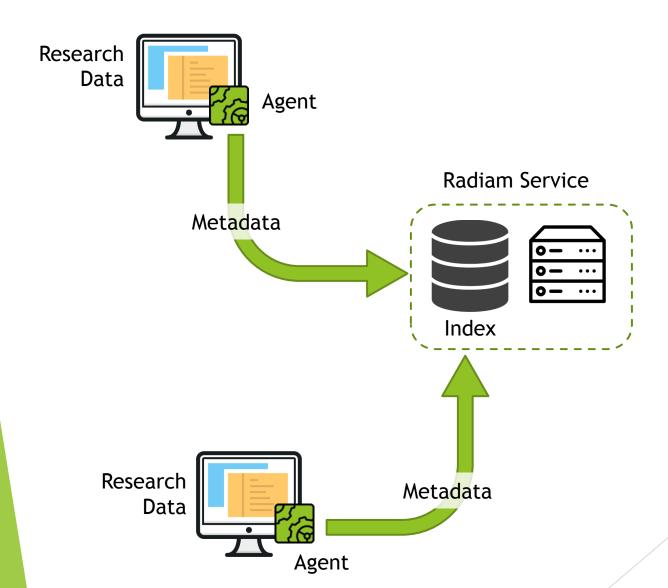
What Is Radiam

A platform and a suite of applications that work together to catalog research data, allowing rich metadata entry and logical grouping of data, and then exporting of metadata in preparation for publishing

Public web site: https://www.radiam.ca

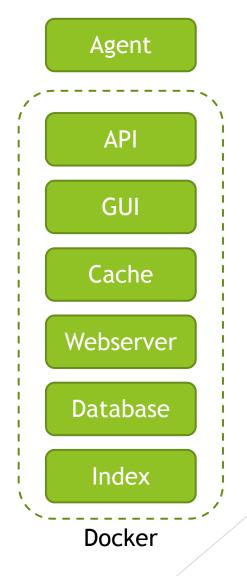


Radiam In Operation



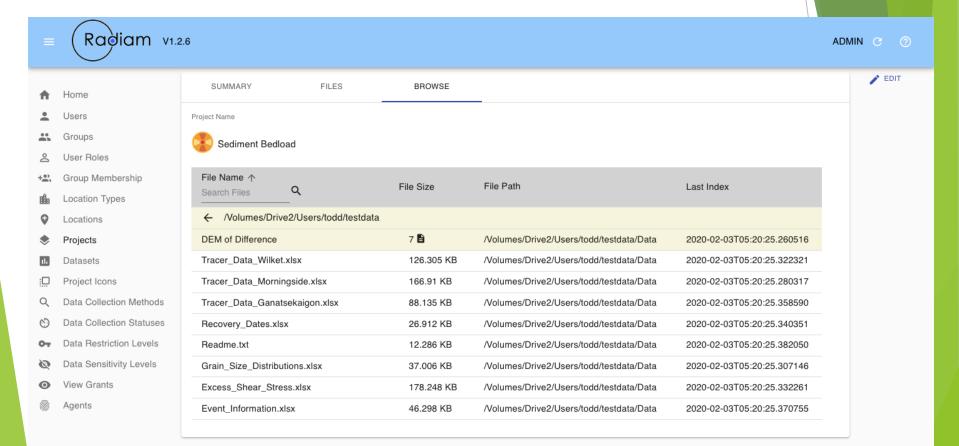
Technology

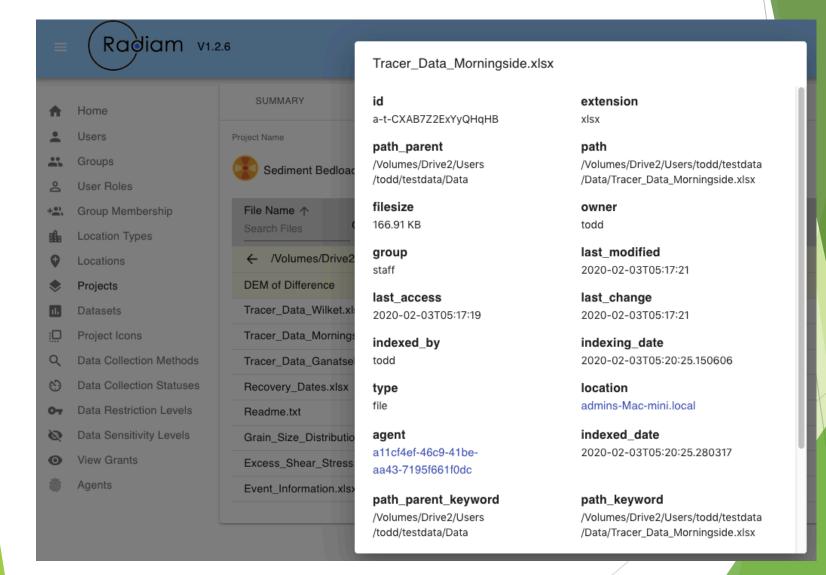
- Django REST
- React
- Postgres
- Elasticsearch
- Memcached
- Nginx
- Electron
- Docker Swarm
- Docker Registry
- Ansible

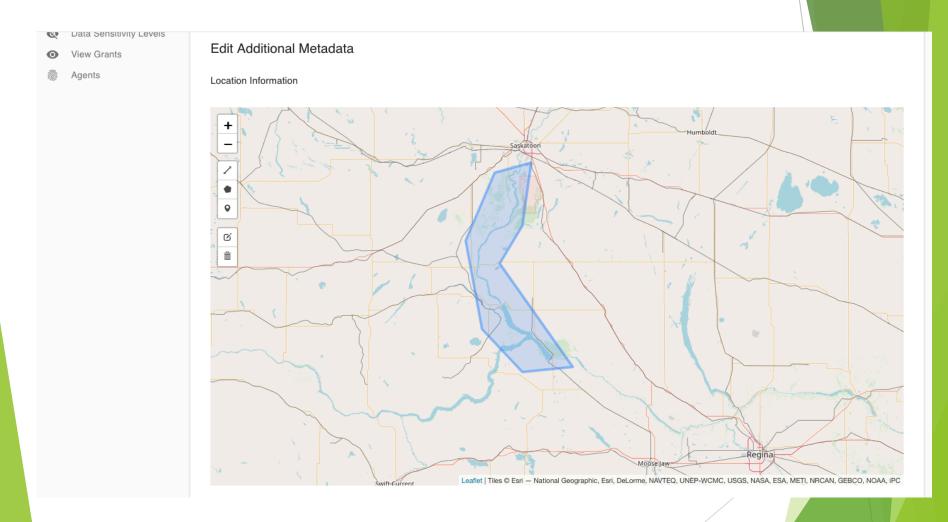


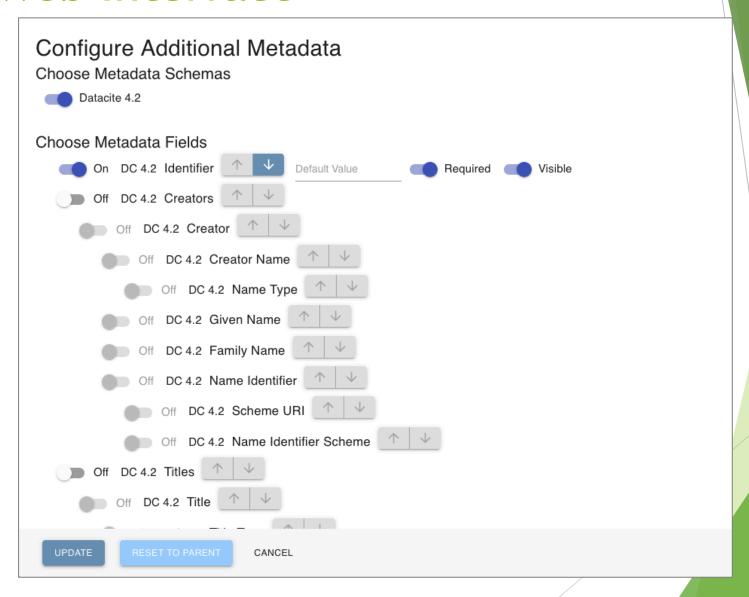
Progress Update

- API
 - ► All REST endpoints working
 - OpenAPI specification and documentation
- Web Interface
 - Create account, log in, reset password
 - ► Mange users, groups, projects and datasets
 - View and search indexed metadata
- Agent
 - ▶ Built and running on Windows, Mac, Linux
 - ► Index data for multiple projects with one agent
 - Metadata extraction for some file types
- Portal Integrations
 - OSF: auth, indexing
 - HubZero: auth, indexing

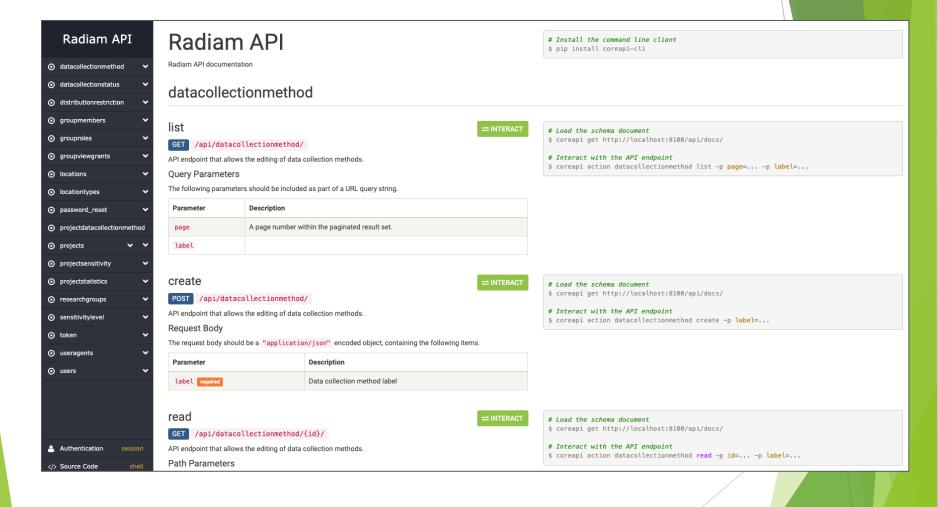




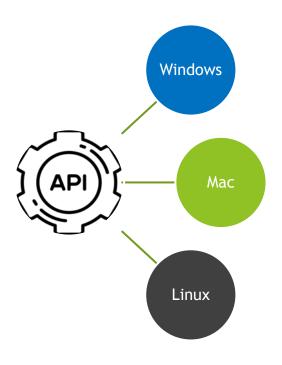




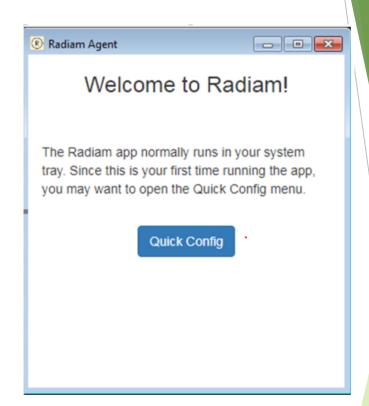
API



Agent

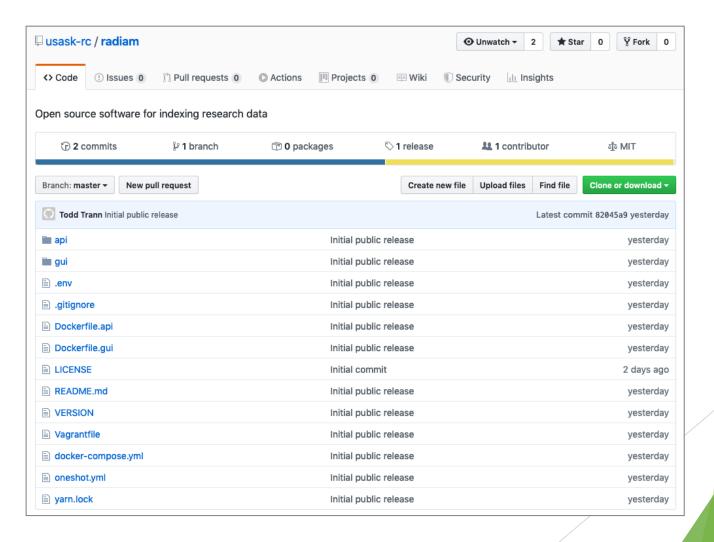


Built and running on 3 platforms



Open Source

https://github.com/usask-rc/radiam



Future

- Source code to all components of Radiam are published under the MIT open source license
- ► The open architecture of Radiam allows its components to be upgraded or rewritten to keep up with integration points
- API specification and developer documentation together allows research groups to write custom applications that work with Radiam
- Published on CANARIE Research Software Portal: https://science.canarie.ca/

Project Members

- ▶ PI: Kevin Schneider, University of Saskatchewan
- ► Co-PI: Dugan O'Neil, Simon Fraser University
- Project Lead: Jason Hlady, University of Saskatchewan
- Project Team:
 - CARL/Portage: Lee Wilson
 - ▶ SFU: Alex Garnett, Jonathan Loewen, Jin Zhang, Yang Zhou
 - ► USask: Adam McKenzie, Joel Farthing, Justin Pointer, Mike Winter, Rama Periasamy, Sergiy Stepanenko, Todd Trann