iRODS 4.2 Overview

Terrell Russell, Ph.D.
@terrellrussell
Senior Data Scientist, iRODS Consortium

June 7-9, 2016
iRODS User Group Meeting 2016
Chapel Hill, NC

iRODS 4.2 Progress

- Lots of commits
    - 750 commits so far
    - 107 enhancements, 63 still open
    - 60 bugs, 40 still open

- Lots of coordination
    - three major independent branches
    - merging is complete

- Lots of testing

  - 12 OS and DB combinations

  - upgrades

  - topology

  - federation

  - plugins

Not Quite Done

iRODS 4.2 Major Features

- First Class API Plugins
  - dynamic PEPs for every operation

- Pluggable Rule Engine
  - full serialization into/out of rule languages

- Messaging Framework
  - audit plugin, emits AMQP

iRODS 4.2 Architectural Changes

- Clang and C++14 across all platforms

- CMake

- All control scripts in python

- Packages separated, cleaner dependencies

- Available via APT/YUM repositories

iRODS 4.2

Engineering Preview Available Now

https://unstable.irods.org

Release expected Summer 2016