EupathDB User Dataset Flow
CWL 09APR2018

GBrowse Sites

GBrowse Upload File System

End Here!!

BigWig File Upload & Status Services

ApiDB Websites

UD GUI

UD Services

User

Queries

ApiDB AppDBs

Direct Service Calls

Jargon

Retrieve events (Jargon)

Handle & Install UD

Globus Genomics Galaxy

Other Tools

EuPathDB Export Tools

Datasets

Worflows

Uploads
Start Here!!

Tarball & Txt file trigger

Success/Fail flag

IRODS

Tomcat IRODS Rest | EBRC Workspace

PEP | Python Helper

Trigger

Jenkins

Timer | Handlers

Listener | Builder

fgpJava Invocation

Build
(on demand only in Production)

ApiDB/WDK Codebase

Event Handler | Type Handlers

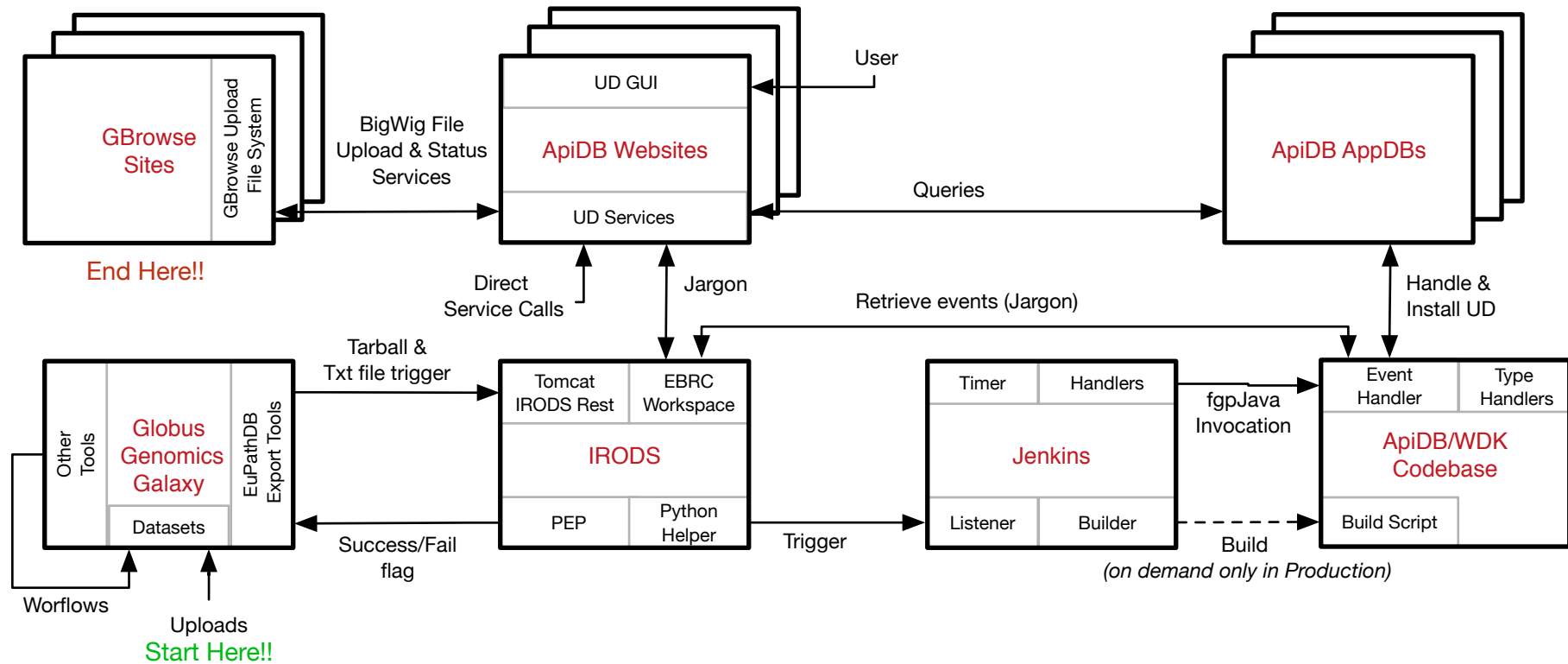Build Script

Weaknesses:

1. IRODS Rest Service is likely too slow for very large exports
2. While Event handlers only retrieve up to the last event handled, databases are emptied every release.
   The event list may have a large memory footprint after numerous releases.
3. Limited communication between components when errors occur may make errors harder to understand & isolate.
4. We haven't gotten parallel transfers to work using Jargon
5. An unexpected error in the event handler can 'stall the engine'