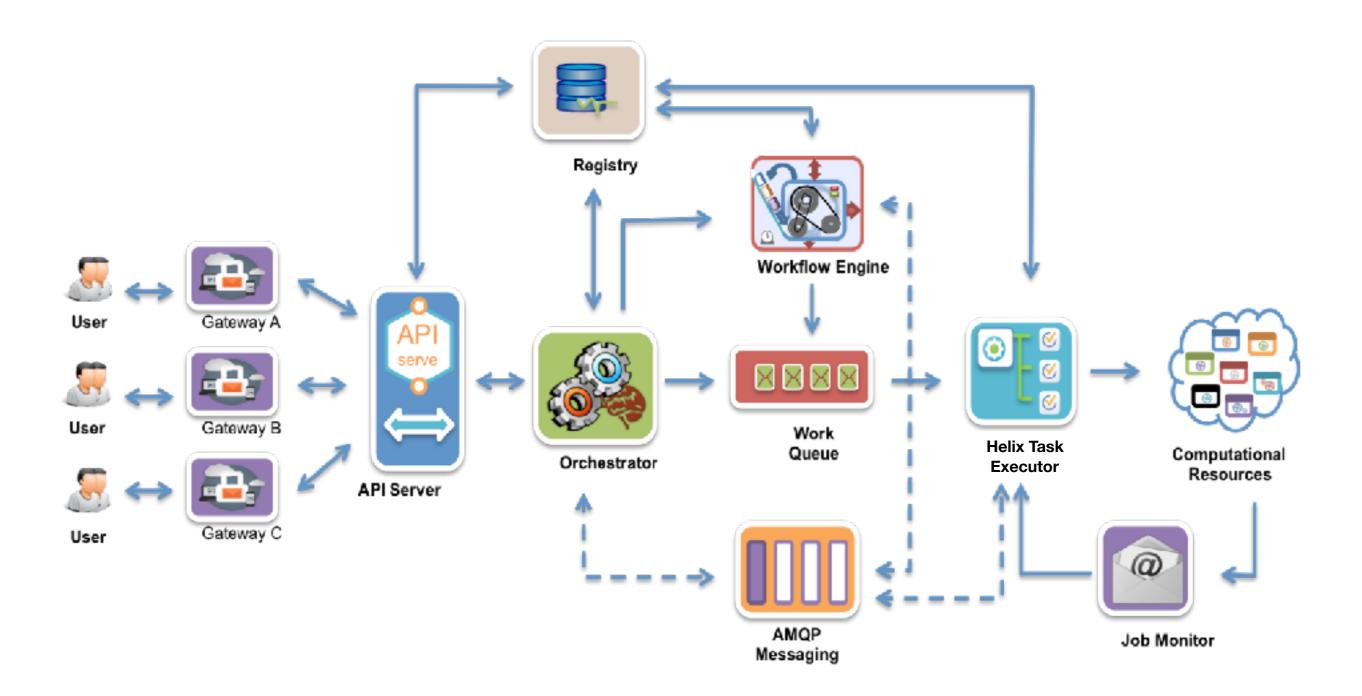
Getting started with Apache Airavata

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Architecture



Airavata Components

Airavata is the gateway middleware system which bridges the gateway interface with the remote Super computers/HPCs. The hosted Airavata middleware is provided as gateway platform service; SciGaP.

Airavata consist of

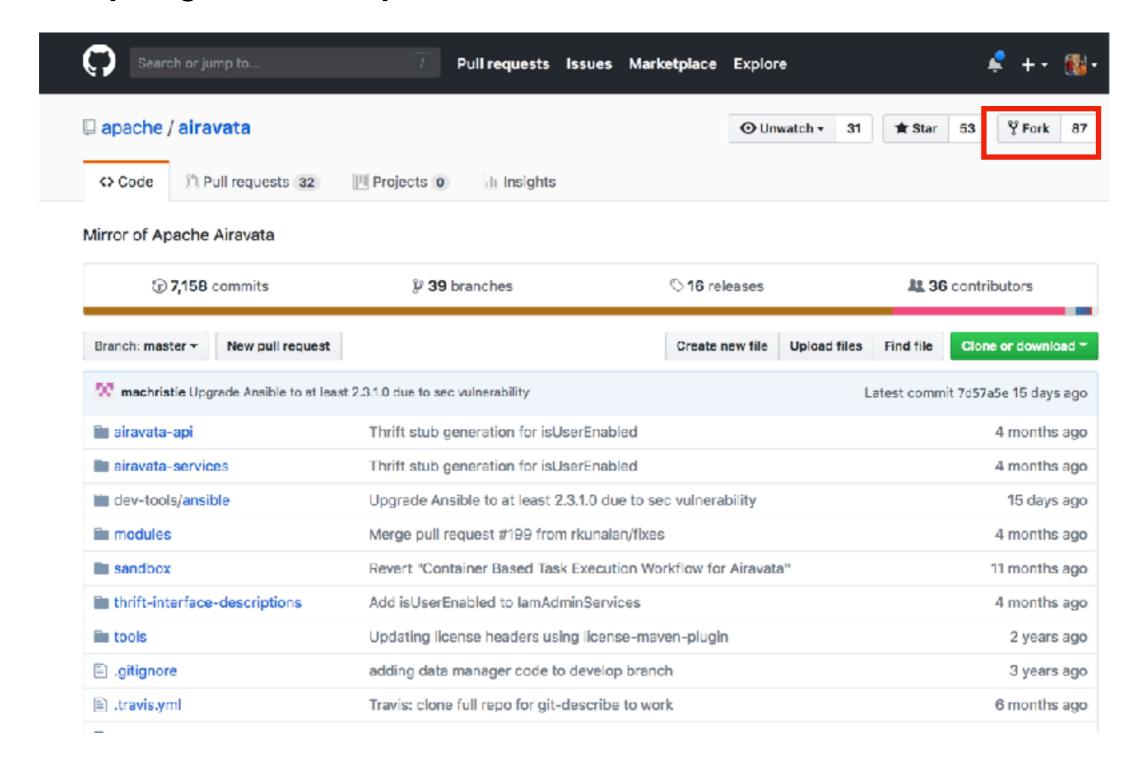
- Reference gateway (PHP, Python, etc)
- Airavata API
- Orchestrator
- Registry
- Credential Store
- Helix Task Executor
- Job Monitor
- Workflow Manager

Airavata Works with

- Range of HPCs National clusters, Campus clusters, Cloud resources, etc)
- Multiple job schedulers SLURM, PBS, GE, etc

Code

https://github.com/apache/airavata



Build and Install

System Requirements

- Java 8
- Maven
- Git
- Java IDE Recommended : InteliJ or Eclipse
- Ansible

Setting up the code base

- git clone https://github.com/<User Name>/airavata.git
- cd airavata
- git remote -v
- git remote add upstream https://github.com/apache/airavata.git
- git fetch upstream

Build

mvn clean install -DskipTests

Setting up locally

We use a virtual box VM to deploy all Airavata components

https://www.youtube.com/watch?v=Eb-FetgKB6k

https://docs.google.com/document/d/ 1dFhajiYIPtNymIKbMvCXeLivLHujLjvE107QyUDEgdA/edit?usp=sharing

Contribution

- Do all the changes while staying on the develop branch
- Commit local changes to your fork
- Sent a pull request to Airavata repository
- Subscribe and discuss matters in dev@airavata.org