



OCTOBER 2-3, 2018
Julia Morgan Ballroom
465 California St, San Francisco, CA

ADVANCED LEARNING WORKSHOPS

Leveraging Docker, CWL, and WDL Workflows on DNAnexus

DNAnexus provides the core functionality of allowing users to create and execute computational workflows. However, users may want to use existing tools maintained and produced by third party groups. To help facilitate this, DNAnexus has added support for using Docker containers as well as CWL and WDL, allowing the easy import of existing tools and workflows into DNAnexus. Learn how to use public Docker containers as part of your apps and how to run CWL and WDL workflows.

App(let) Building Best Practices and Optimizing Applications for the Cloud

Curious about best practices of app(let) building on the DNAnexus Platform and how to optimize for the cloud? Look no further, in this workshop we will walk through how to implement tools on the DNAnexus Platform. We will identify best practices, patterns to avoid, and provide some templates and code snippets useful for future work.

By the end of the workshop you will have built an executable that runs a complex pipeline efficiently and securely on DNAnexus.

Prerequisites

To get the most out of this workshop, you'll need a few things:

1. **DNAnexus account** - During the workshop we'll be building and running some tools on the DNAnexus Platform.
2. **Access to the workshop project** - Example input and reference files are on the DNAnexus Platform. You can use them to run and debug your tools. We'll share with you the project ahead of time.
3. **Basic experience with DNAnexus** - This isn't strictly necessary, but we'll skip over some of the basics of working on DNAnexus in order to focus on building applets.