Pegasus 5.0 Tutorial
Workflow Management System

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https://pegasus.isi.edu
Setup

It is the same (but hosted) as the self-guided tutorial available in the Pegasus documentation: https://pegasus.isi.edu/documentation/user-guide/tutorial.html

Please claim an instance by putting your name next to an unused instance in: shorturl.at/oEP12 (see Zoom chat for clickable link!)

Follow the link next to your name.
Docker Container / Jupyter Notebook

Container is for tutorial purposes - most production workflows have dedicated submit hosts

Jupyter is optional. You can choose to use just the workflow abstraction API, the full workflow management API, inside or outside Jupyter.
API

https://pegasus.isi.edu
Key Pegasus Concepts

- **Pegasus WMS** = Pegasus planner (mapper) + DAGMan workflow engine + HTCondor scheduler/broker
  - Pegasus maps workflows to infrastructure
  - DAGMan manages dependencies and reliability
  - HTCondor is used as a broker to interface with different schedulers

- **Workflows are DAGs**
  - Nodes: jobs, edges: dependencies
  - No while loops, no conditional branches
  - Jobs are standalone executables

- **Planning occurs ahead of execution**

- **Planning converts an abstract workflow into a concrete, executable workflow**
  - Planner is like a compiler
Get Started

- **Pegasus Website**
  https://pegasus.isi.edu

- **Users Mailing List**
  pegasus-users@isi.edu

- **Support**
  pegasus-support@isi.edu

- **Slack**
  Ask for an invite by trying to join pegasus-users.slack.com in the Slack app

- **Pegasus Online Office Hours**
  https://pegasus.isi.edu/blog/online-pegasus-office-hours/

**YouTube Channel**

https://www.youtube.com/channel/UCwJQln1CqBvTJqiNr9X9F1Q/featured

**Bi-monthly basis on second Friday of the month, where we address user questions and also apprise the community of new developments**

https://pegasus.isi.edu