# Jenkins CI within the MANTID project

Martyn Gigg - 26/03/2018

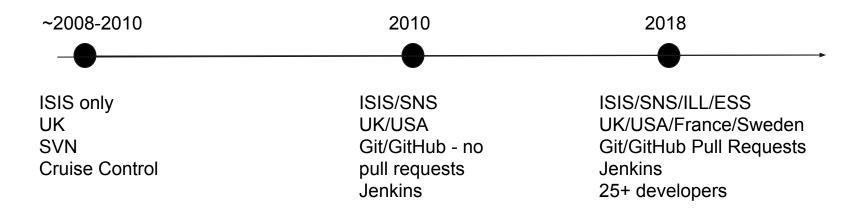




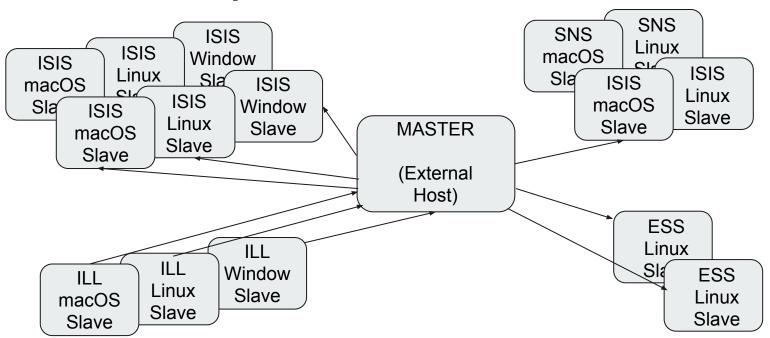
- Open-source automation server
- Enables continuous integration and deployment
- Web Interface
- Master-slave model
- Hundreds of plugins to add additional functionality

## Brief History of MANTID

• Cross-platform data reduction & analysis framework for neutron data



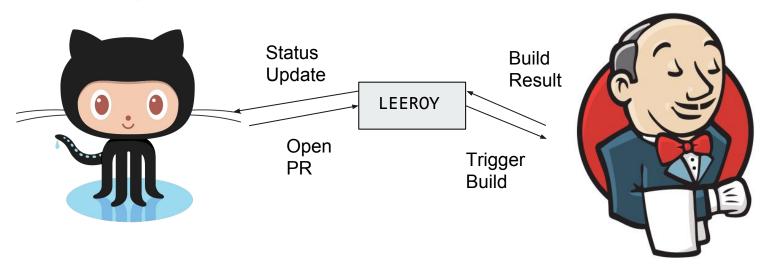
#### **Jenkins Setup**



#### Workflows

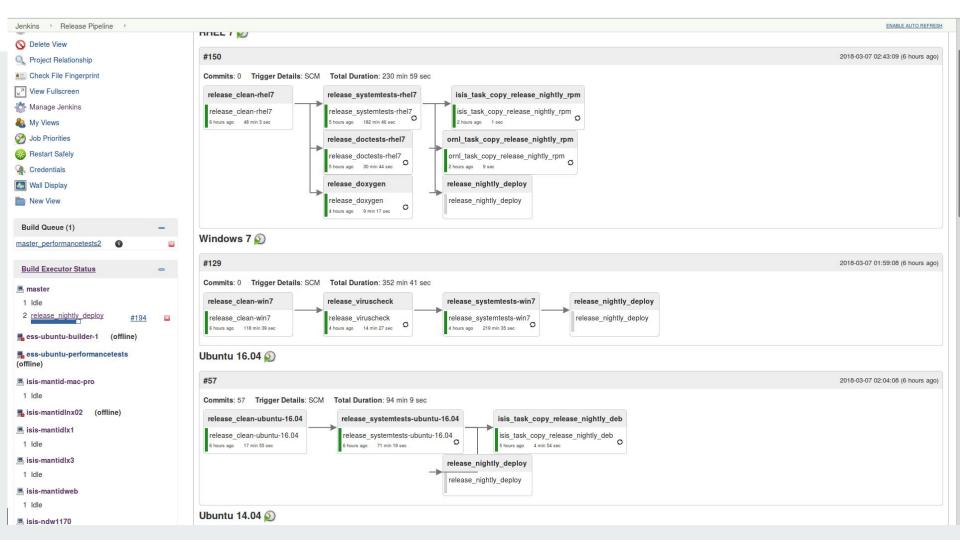
- Pull-request-based workflow
- 3 releases per year
- Nightly development builds based off master
- Supporting
  - Red Hat 7
  - Ubuntu LTS
  - macOS
  - Windows

#### **Pull Requests**



### Nightly and Release Pipelines

- Jobs configured using downstream job features
- Pipeline view useful for visualizing these connections



#### **Future Directions**

- Stop using Leeroy in favour of "GitHub Pull Request Builder" plugin
- Move job configurations to use "newer" Jenkinsfile pipeline-as-code features

