R-SIDIS Farm

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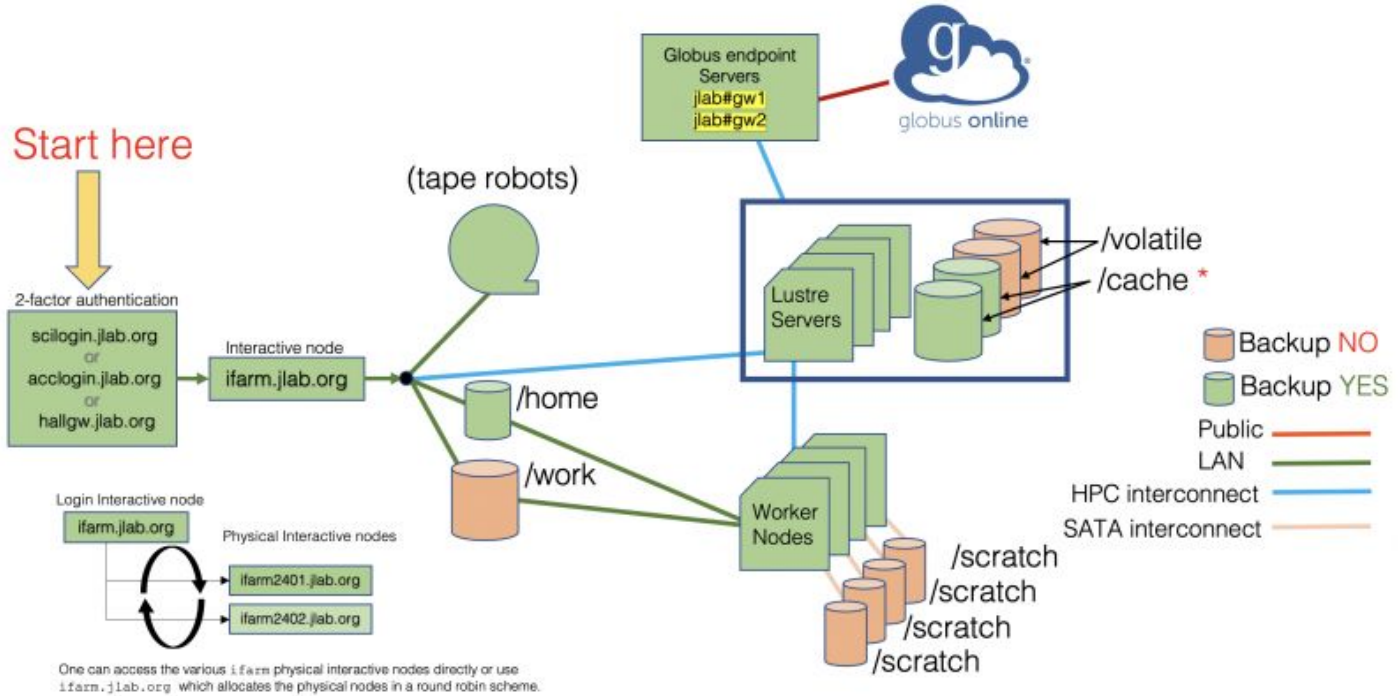
Understanding the Environment

SSH

2-factor authentication

hostname

whoami



* Backed to tape. Excludes small files.

Data Storage and Caching

group disk - 50-100GB backed up (*OUR* Linux **group** space c-rsidis)

work disk - 1TB **MAYBE backed up** store a few SMALL rootfiles here

volatile disk - 1-5TB Susceptible to disappear at any time, and **NOT backed up**

cache - Accessible **copies** of data from the tape library (not directly writable) **jcache** link

MSS (mass storage system) Managed by ***Jasmine***

Compute Resources (farm nodes)

ifarm - Interactive farm (small jobs, test jobs, jcace files, debug issues)

Batch **farm** - Batch farm, accessed via job submission system - 2 options:

Slurm - Simple Linux Utility for Resource Management

swif2 - Scientific Workflow **Indefatigable Factotum**

A person who is employed to do all sorts of jobs for someone

Basic Farm Job

Example from GSPDA mini software workshop:

GSPDA Mini-Software Workshop Part 2 (September 6, 2024) · Jefferson Lab Indico

Running in batch -

- who am I?
- What directory am I processing in?
- Where are my inputs / outputs?
- What could go wrong? Everything **will** go wrong, btw.
- What $SHELL am I using?
- Why don’t I see the output?

Simulate running your job!

For best success, practice

For best success simulate what is happening!

1 .. 2 .. skiddly diddly doo.. 3.. A 4.. Its more tha (I had too much coffee, apologies)

New Login → Go to farm → Go to work disk → Copy ‘inputs’ → run the ‘command’ → What happened?

THAT IS BATCH MODE on JLab’s farm! (sort of)