SL7 Container Task Force

Housekeeping

- Biweekly Meetings on Mondays 3pm-4pm

- Next meeting: Monday March 11th 3-4pm

- Indico page: https://indico.fnal.gov/category/722/

- wiki page: https://fifewiki.fnal.gov/wiki/SL7_Containerization

- mailing list: SL7-CONTAINER-TASK-FORCE

SL7 Container Task Force

- Charge to experiments from the last meeting: Setup SL7 container on AL9 test gpvm. Try to setup code, run code interactively, and modify and build code.

- Notes on getting started are here: https://fifewiki.fnal.gov/wiki/ SL7_Containerization under 'Documentation/Notes on how to test SL7 container on AL9 test machines'

- I would like to hear from experiments. But first, my update.

Container Update from Me

◉ I started the standard SL7 grid container using:
apptainer shell -B /cvmfs -B /exp/gm2/app/users/goodenou -B /exp/gm2/data/users/goodenou -B /grid/fermiapp /cvmfs/
singularity.opensciencegrid.org/fermilab/fnal-wn-sl7:latest

◉ Once inside the container I had to override the UPS flavor:
export UPS_OVERRIDE='-H Linux64bit+3.10-2.17'

◉ I was able to setup the gm2 software, run an interactive job, getting files from /exp/gm2/data/users/goodenou

◉ I modified and built the software and was able to run over that code interactively.

◉ I was able to run the local build in a grid job outside the container from a separate terminal session. (No jobsub client in the container.)

◉ I have NOT yet run an SL7 container job on the grid on an AL9 machine.

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- jobsub client not installed in grid container

- we decided to leave <u>jobsub out of the container</u> and have folks work in a 'two worlds' scenario where users work in the SL7 container to develop and build code and separately on the AL9 machine directly to submit jobs.

SL7 Container Task Force: To Do

- Still need to hear from security about requirements for containers from a security perspective

- Need to identify additional software to add to the grid container (emacs?)

- Need to get an appropriate LArSoft base container built.