**Steps to get the offline DQM for a run:**

**STEP1 (only first time after installing gm2, node etc):**

These steps are after we have installed the gm2 software, node.js, nvp and nvm etc.

(I would start from kinit ☺). Please change user and your\_name\_folder accordingly

1. kinit [user@FNAL.GOV](mailto:user@FNAL.GOV)
2. ssh –X –K user@gm2gpvm02.fnal.gov
3. cd /gm2/app/users/your\_name\_folder
4. source setup\_code.sh
5. cd srcs/gm2dqm/art/fcl/

Now here we have fichl files (\*.fcl) which are configuration files where we have to change value of the variable onlineMode from 1 to 0 for two files (I use emacs). Steps below (please remove the bullet sign if you copy and paste):

* emacs –nw laserDQM.fcl
* ctrl+s laserPublisher
  + find onlineMode (line # 185) -> change 1 to 0
* ctrl+s laserSMPublisher
  + find onlineMode (line # 185) -> change 1 to 0
* cd /gm2/app/users/your\_name\_folder/code\_v9\_10\_00/srcs/**gm2dqm/node**
* ./startLaser.sh
* cd -
* gm2 -c laserDQM.fcl –s /pnfs/gm2/daq/run1/raw/runs\_18000/18150/gm2\_run18150\_00002.mid

In the next step open a new window and run the tunnel command:

* ssh -L 3333:localhost:3333 [user@gm2gpvm02.fnal.gov](mailto:user@gm2gpvm02.fnal.gov)

Finally open the browser and type – localhost:3333

A good practice is to check user with top and close all DQM applic

**STEP2 (2nd login onwards):**

After sourcing the gm2 sw: ./startLaser.sh

Open a new window and run the tunnel command:

* ssh -L 3333:localhost:3333 [nraha@gm2gpvm02.fnal.gov](mailto:nraha@gm2gpvm02.fnal.gov)
* gm2 -c laserDQM.fcl –s /pnfs/gm2/daq/run1/raw/runs\_18000/18150/gm2\_run18150\_00002.mid

**My personal instructions (as I have a source script setup my version of gm2)**

1. ssh -L 3333:localhost:3333 [nraha@gm2gpvm02.fnal.gov](mailto:nraha@gm2gpvm02.fnal.gov)
2. cd /gm2/app/users/nandita/
3. source setup\_code.sh
4. cd srcs/gm2dqm/node
5. ./startLaser.sh
6. cd ../art/fcl/
7. gm2 -c laserDQM.fcl -s /pnfs/gm2/daq/run1/raw/runs\_18000/18150/gm2\_run18150\_00002.mid

Important paths of source code are:

1. the js scripts files for particular pages are in: gm2dqm/node/laser/public/scripts/. E.g. laserSummary.js
2. Pug files are in: gm2dqm/node/laser/view/
3. Main layout index file is: gm2dqm/node/indexLaserMonitors.js

Note for major changes in display etc. we start by changing this file with href to new buttons that correspond to a js script and pug file. To see these changes the proxy DQM must be restarted kill all ps and run ‘./startLaser.sh’ again.

Path of latest midas files/ get latest midas files:

1. ssh [G2Muon@g2gateway01.fnal.gov](mailto:G2Muon@g2gateway01.fnal.gov)
2. ssh daq@g2be1
3. ls /data1/gm2/\*.mid – chose a run data file you want and copy in your area
4. My area for midas run files: /pnfs/gm2/scratch/users/nraha/run1/

**TEST RUN: 22504**