Here?
Create a fully operational HPC Cluster in minutes, complete with:

- **Storage:** OrangeFS on EBS, S3, EFS
- **Compute:** Job Driven Elastic Compute through CCQ
- **Scheduler:** Initially Torque with CCQ MetaScheduler

- **HPC Libraries:**
  - Boost, Cuda Toolkit, Docker, FFTW, FLTK, GCC, Gengetopt, GRIB2, GSL, Hadoop, HDF5, ImageMagick, JasPer, NetCDF, NumPy, Octave, OpenCV, OpenMPI, PROJ, R, Rmpi, SciPy, SWIG, WGRIB, UDUNITS

- **HPC Software:**
  - Ambertools, ANN, ATLAS, BLAS, Blast, Blender, Burrows-Wheeler Aligner, CESM, GROMACS, LAMMPS, NCAR, NCL, NCO, nwchem, OpenFoam, papi, paraview, Quantum Espresso, SAMtools, WRF

- You can also Install your own in a custom AMI
- All from an easy to use Web UI from mobile, tablet or desktop

- Targeted for the end of 2016
Quick Demo
EMC 2TIERS™ on CloudyCluster

2 Tiers is a storage solution prototype that provides a high performance storage tier and cost effective capacity tier.

- Single FS Namespace with dynamically loadable namespace partitions (DLN)
- Tiering of both Data and Metadata
- Fast Tier Performance Target: greater than 10x Capacity of a Data Lake
- Direct access (read-only) to the Capacity Tier, bypassing the Fast Tier
- 2 TIERS™ provides Tiering and Non-Tiering modes
- No client changes required
- No changes to the products required for integration

Initial Custom AMI is built by EMC with 2 TIERS™ and CloudyCluster.
Ideas on How best to integrate?

- End point Integration (manage in / out)
- Data movement as part of CCQ jobs?

Helping make an iRODS self service iRODS server part of the Cloud Marketplaces?