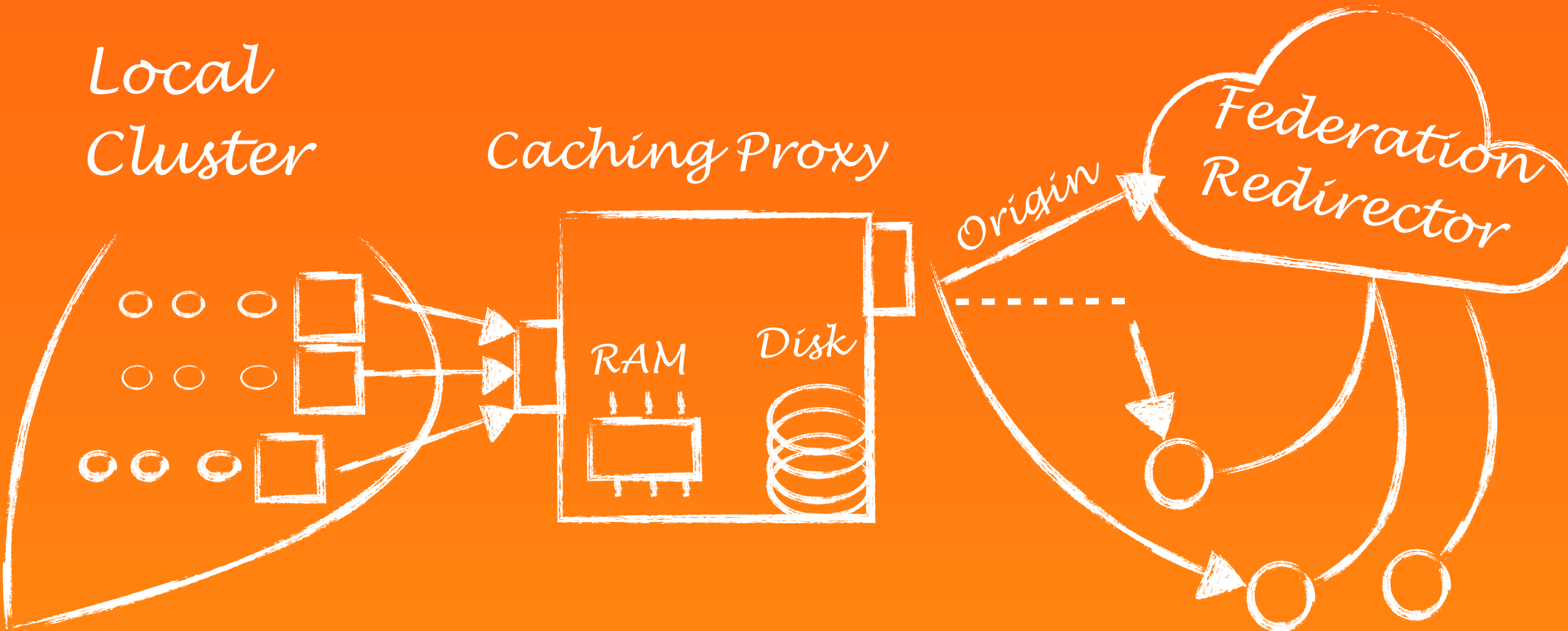


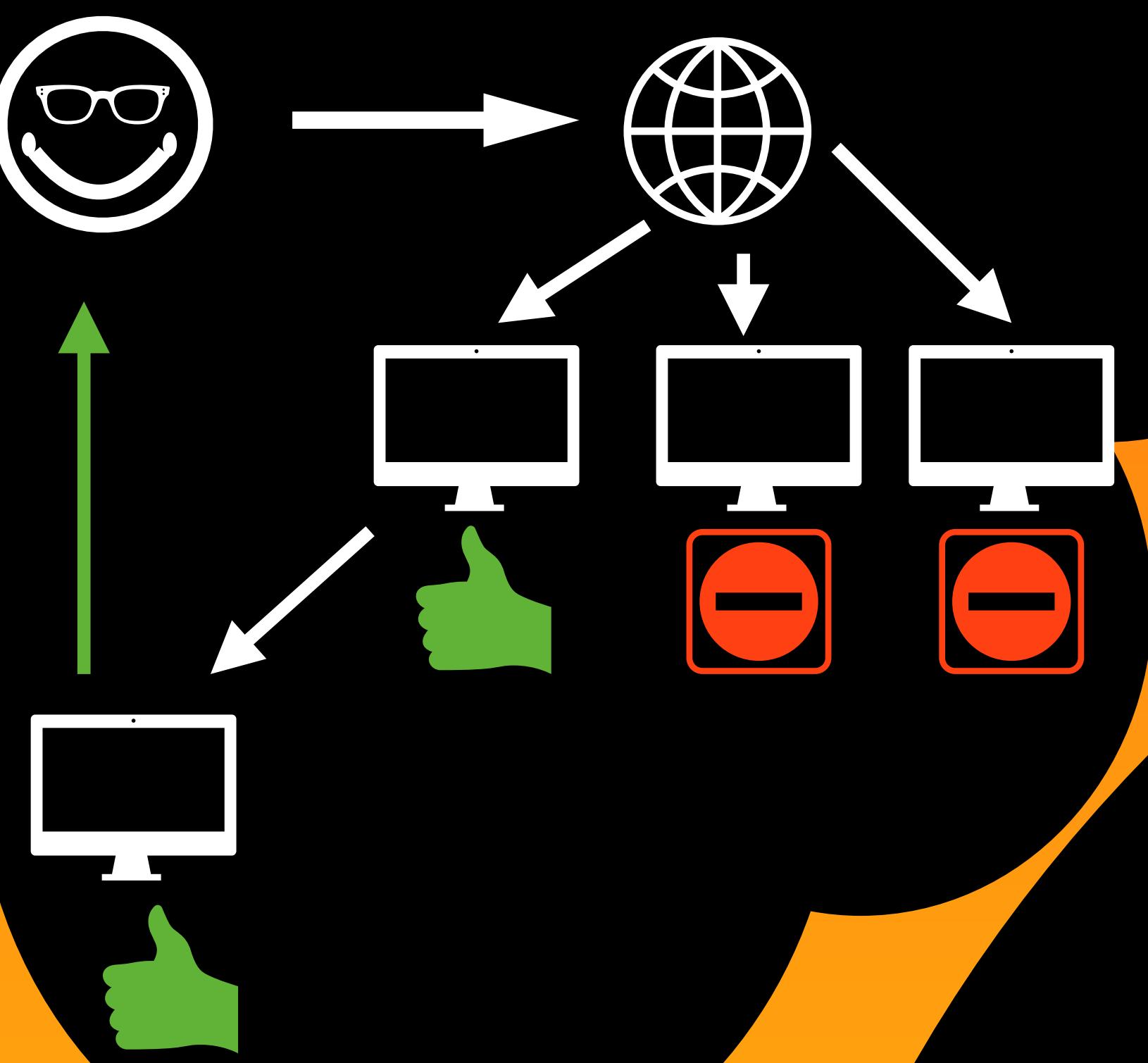
An Xrootd proxy cluster

Edgar Fajardo, Alja Tadel, Matevz Tadel, Frank Wuerthwein, Ben Steer, Terrence Martin

Local cache



Usual Federation



Scaling Results



Local Site tricks

Storage: Rule on storage.xml

```
<lfn-to-pfn protocol="direct" destination-match=".*"
  path-match="/+store/(data/Run2016[A-Z]/[^\s]+)/MINIAOD/03Feb2017.*">
  result="root://xrootd.t2.ucsd.edu:2050//store/$1"/>
<lfn-to-pfn protocol="direct" destination-match=".*"
  path-match="/+store/(mc/RunIISummer16MiniAODv2/[^\s]+)/MINIAODSIM/PUMoriond17_80X_.*">
  result="root://xrootd.t2.ucsd.edu:2050//store/$1"/>
```

Computing: group on

```
<group name="overflow-xcache-socal" enabled="True"><start_expr="(regexC('/*/
Run2016.*-03Feb2017.**/MINIAOD', DESIRED_CMSDataset) || regexC('/*/
RunIISummer16MiniAODv2-PUMoriond17_80X_.**/MINIAODSIM', DESIRED_CMSDataset))>
```

GlideinWMS Frontend

Proxy Cache Cluster Details

Attribute	Specs
# Nodes	11
Node disk capacity	12x2TB = 24TB per node. 264 TB total
Network Card	10Gbps/ Total throughput of >100Gbps
RAM Memory	48GB
Expected Usage	miniaod of all reprocessing of run 2 data
# cores/jobs at UCSD	6k
Number of Jobs expected to feed	5k , 20k when Caltech comes in

Future Plans: Coming to a Caltech site near you

