





Outline

- □ What we did so far
- ☐ WMS challenges
- □ Pilot jobs

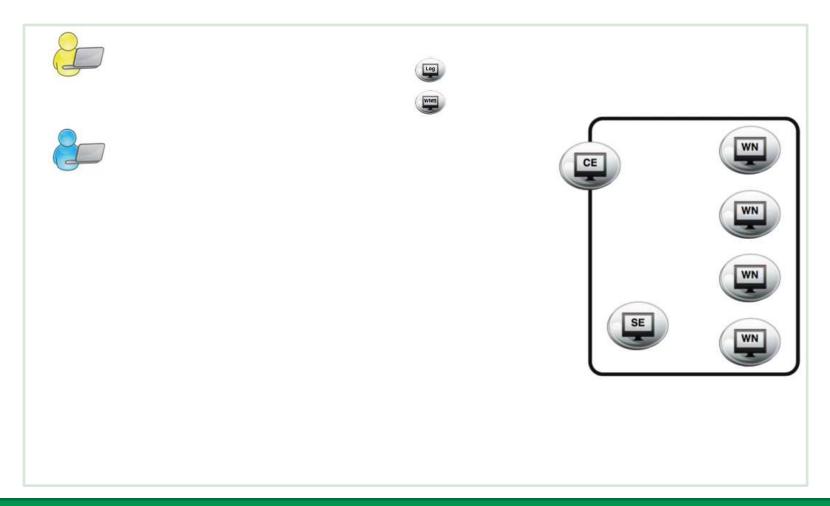


Job submission using the WMS

- Prepare software
- Create jdl
- Submit parametric job
- Find out which jobs failed
- Resubmit failed jobs



WMS animation







WMS challenges

- Scheduling overhead
 - Job matching requirements
 - Short run times
- Scheduling inefficiencies
 - Jobs locked in queue
- Keeping track of failed jobs
 - Failing jobs
 - Resubmissions





Other requirements

Saving small outputs

- Saving and retrieving difficulties
- SRM latency
- Hard to combine into larger blocks

□ Logging

- Matching arguments to outputs
- Debugging

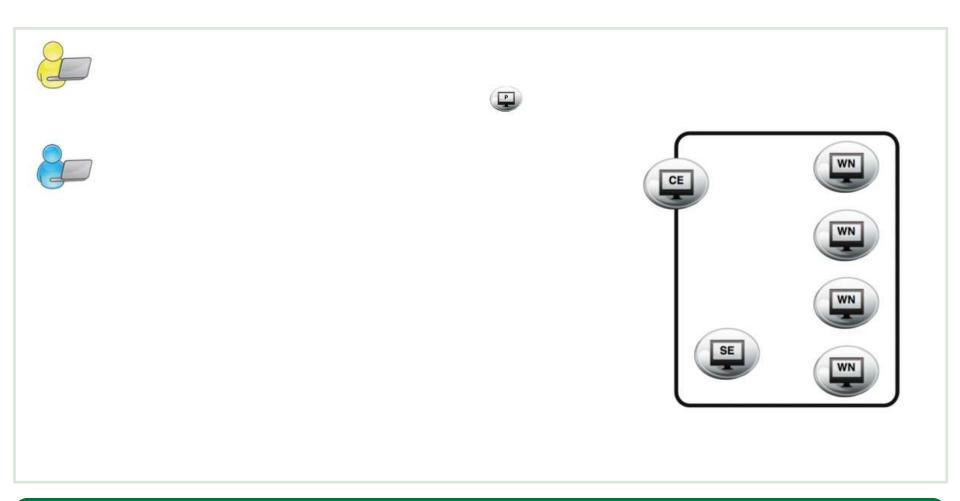


Pilot jobs

- Contain the basic information for running an application
- Rely on an external source to keep track of job tokens
- Fetch inputs at the latest possible moment
- Keep fetching new inputs until
 - all jobs are done
 - the job runs out of wall clock time
 - the job crashes

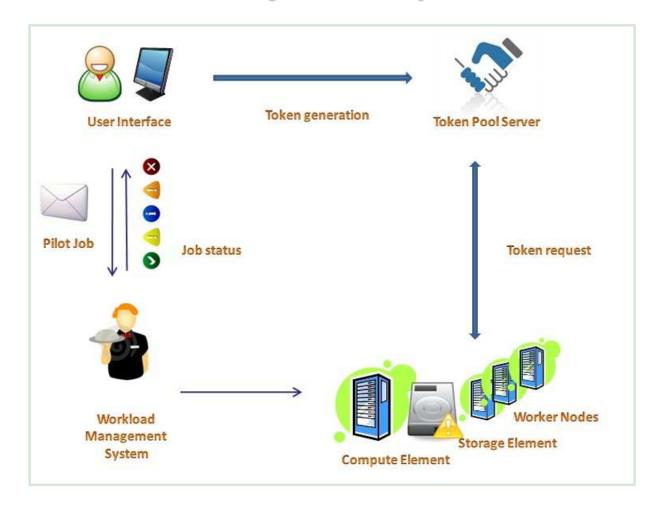


Pilot job animation





Pilot job life cycle







Tokens VS jobs

- □ Tokens: individual pieces of work
- Jobs: processes scheduled on worker nodes

You could just as well use your laptop to act as a worker and just run the application locally!



Remarks

Submitting jobs

☐ Resetting failed jobs

