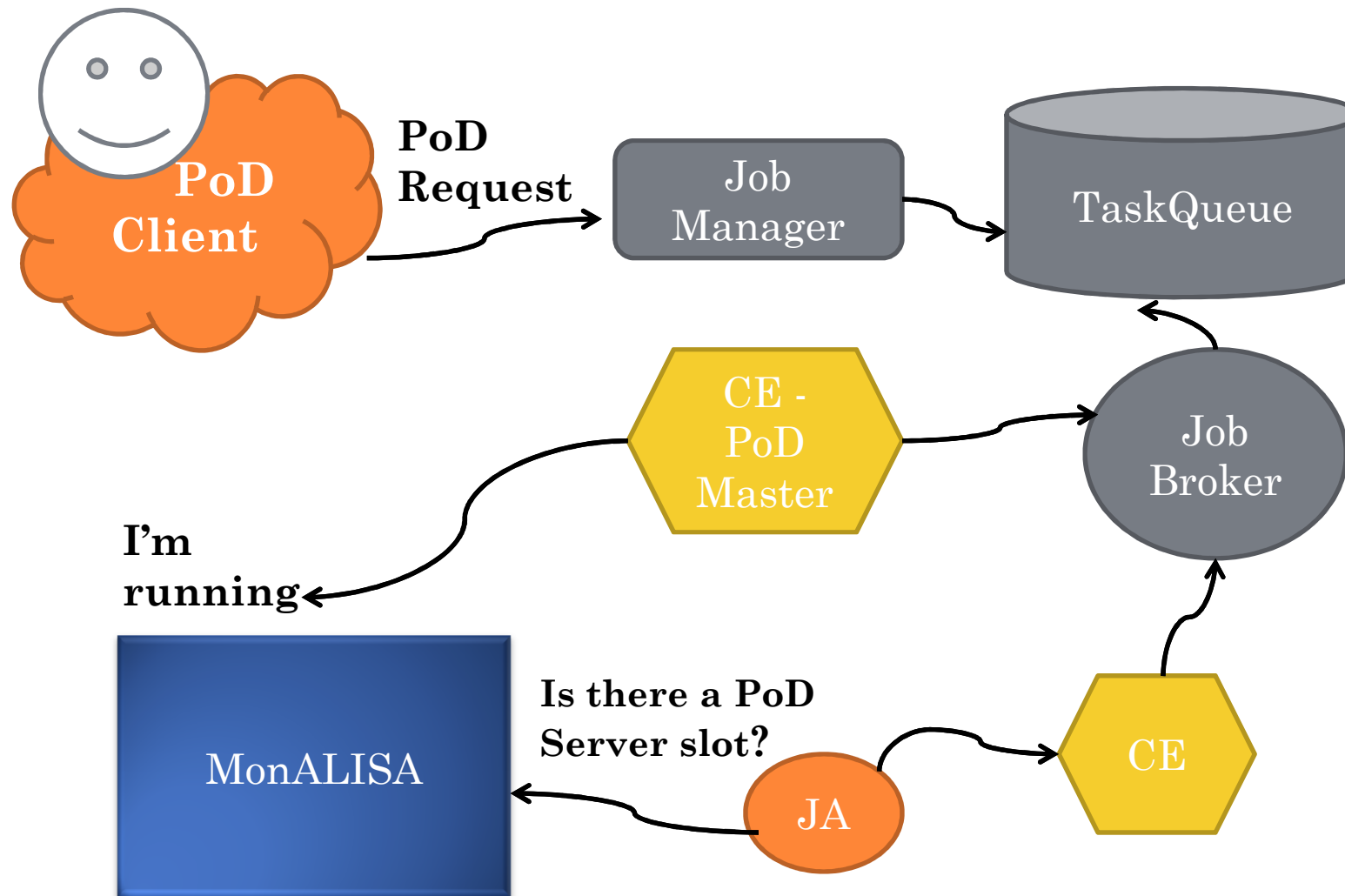


POD ON ALIEN

Cinzia Luzzi

(University of Ferrara)

PoD ON ALIEN



HOW TO DO THE INTEGRATION

- PoD Master is running on a PoD-aware master machine;
 - We have the last “magic” version of PoD already installed at CERN; ☺
 - A “normal” machine with ROOT installed;
 - We don’t have special CPU or disk space requirements;
- Other PoD jobs are assigned to “normal” CEs;
- The AliEn TaskQueue is used;

HOW TO DO THE INTEGRATION

- MonALISA keeps track of the Master:
 - The JobAgent gets information from MonALISA about the PoD server lots;
- PoD Master advertises himself to the world using MonALISA;
 - Using a Perl test script I write on ML:
 - Cluster Name (PoD_Masters), node number (MasterJobId), host name and port number on which it listens and a timestamp.
 - This file will be integrated with the submission of the PoD master;

HOW TO DO THE INTEGRATION

- The PoD subroutine at the JobAgent level:
 - Gets PoD Server information from ML;
 - http://alimonitor.cern.ch/rest/*/PoD_Masters/*/-60000/-1/Address
 - The base url of ML repository is available at the job agent level;
 - List of all server that need workers in the last minut;
 - How to get a specific server, we need to know the MasterJobId (?);
 - Reads and processes the information;
 - Writes a .cfg file with server host name and port number;

HOW TO DO THE INTEGRATION

- The PoD subroutine starts to check MonALISA each y second and is running for x second;
 - These parameters should be configurable from LDAP;
- Start the PoD Master on a special CE within the AliEn framework;
 - Submitting a job (?);
 - Dedicated CE, fast start up;

HOW TO DO THE INTEGRATION

- Once we detect that there are some requests from PoD Server we start the PoD Slaves on standard worker node
 - Now, a PoD WN starts its own xproofd daemon.
 - We can control and handle each PoD worker individually
- Connection between PoD Slaves and PoD Master;
 - When a PoD server will get enough workers, it will stop publishing to MonALISA

WHAT I DID

- Installation of the PoD server on the Master machine;
- Read an process information from MonALISA;
- Teach my subroutine to create a .cfg file whit usefull PoD Server information;
- Almost implemented the frequency-timeout process of the check;

WHAT TO DO

- Start the PoD Master from AliEn;
- Start PoD workers from AliEn;
- Connection between PoD Master and PoD workers;