

# Moab

## How does Matlab work with Moab and TORQUE?

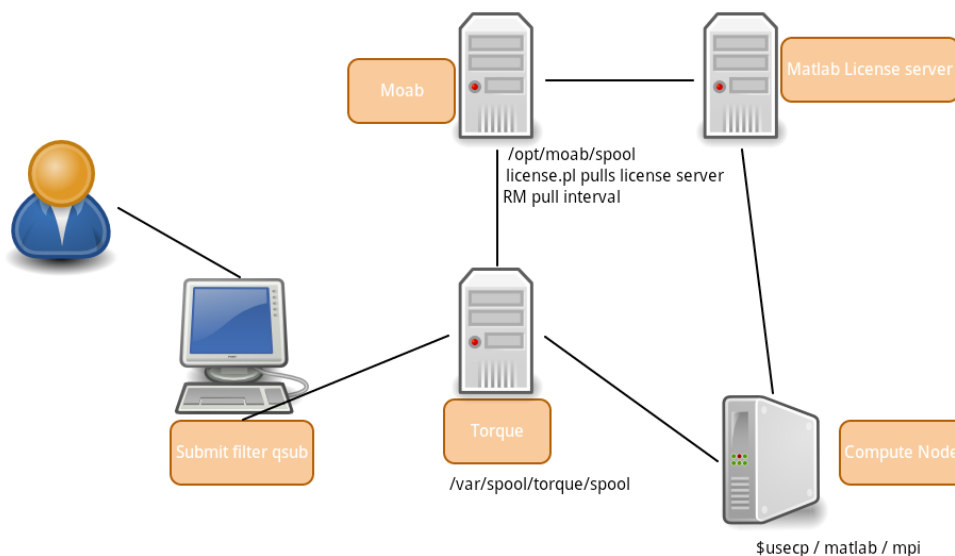
**Issue:** How does Matlab work with Moab and TORQUE?

**Affected Versions:** All

**Symptom:** As a customer I would like to understand how Moab and TORQUE integrate with Matlab.

### Solution:

In the following diagram, you see a user who submits a job. The job requests licenses for Matlab. The job gets created in TORQUE, and Moab learns about it. Moab then queries the license server to make sure sufficient licenses are available and, if so, starts the job through TORQUE (pbs\_server). Finally, the job launches on the compute node (pbs\_mom), where it uses the license provided by Matlab.



Proidea

### Configuration (moab.cfg):

```
RMCFG[FLEXlm] TYPE=NATIVE RESOURCETYPE=LICENSE
RMCFG[FLEXlm] CLUSTERQUERYURL=exec://$TOOLSDIR/license.mon.flexLM.pl
RMCFG[FLEXlm] TYPE=NATIVE CLUSTERQUERYURL=file:///opt/moab/etc/nodes.dat
```

A traditional Moab configuration that queries the flexLM interface for Matlab licenses.

# Moab

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Unique solution ID: #1037

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