

Workload Management: Slurmctld shows the error "we don't have select plugin type 102"

When enabling shared resources in Slurm as per the article [here](#), you may see the following error in `/var/log/slurmctld` on the headnode:

```
we don't have select plugin type 102
```

Checking through the logs you may also see:

```
error: Incomplete job record
fatal: Incomplete job state save file, start with '-i' to ignore this
```

Occasionally, when enabling shared resources in Slurm, the job state save file becomes incomplete. To work around this issue, perform the following steps.

First, stop `slurmctld` in Bright:

```
# cmlsh
% device use master
% services
% stop slurm
% quit
```

Next, have you `SelectType` and `SelectTypeParameters` set how you want them to be configured in `slurm.conf`.

Then, start `slurmctld` by running the following command on your head node:

```
# /cm/shared/apps/slurm/current/sbin/slurmctld -i
```

That will tell `slurmctld` to start while ignoring the incomplete job state save file error. After that, kill the process for `slurmctld`:

```
# killall slurmctld
```

Then, start `slurmctld` from Bright again:

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```
# cmsh
% device use master
% services
% start slurm
```

Now slurmctld should be starting properly using your desired slurm.conf settings. You may also need to run the scontrol reconfigure command once slurmctld is started to notify the compute nodes.

```
scontrol reconfigure
Unique solution ID: #1461
Author: Simon Brennan
Last update: 2019-03-20 06:21
```