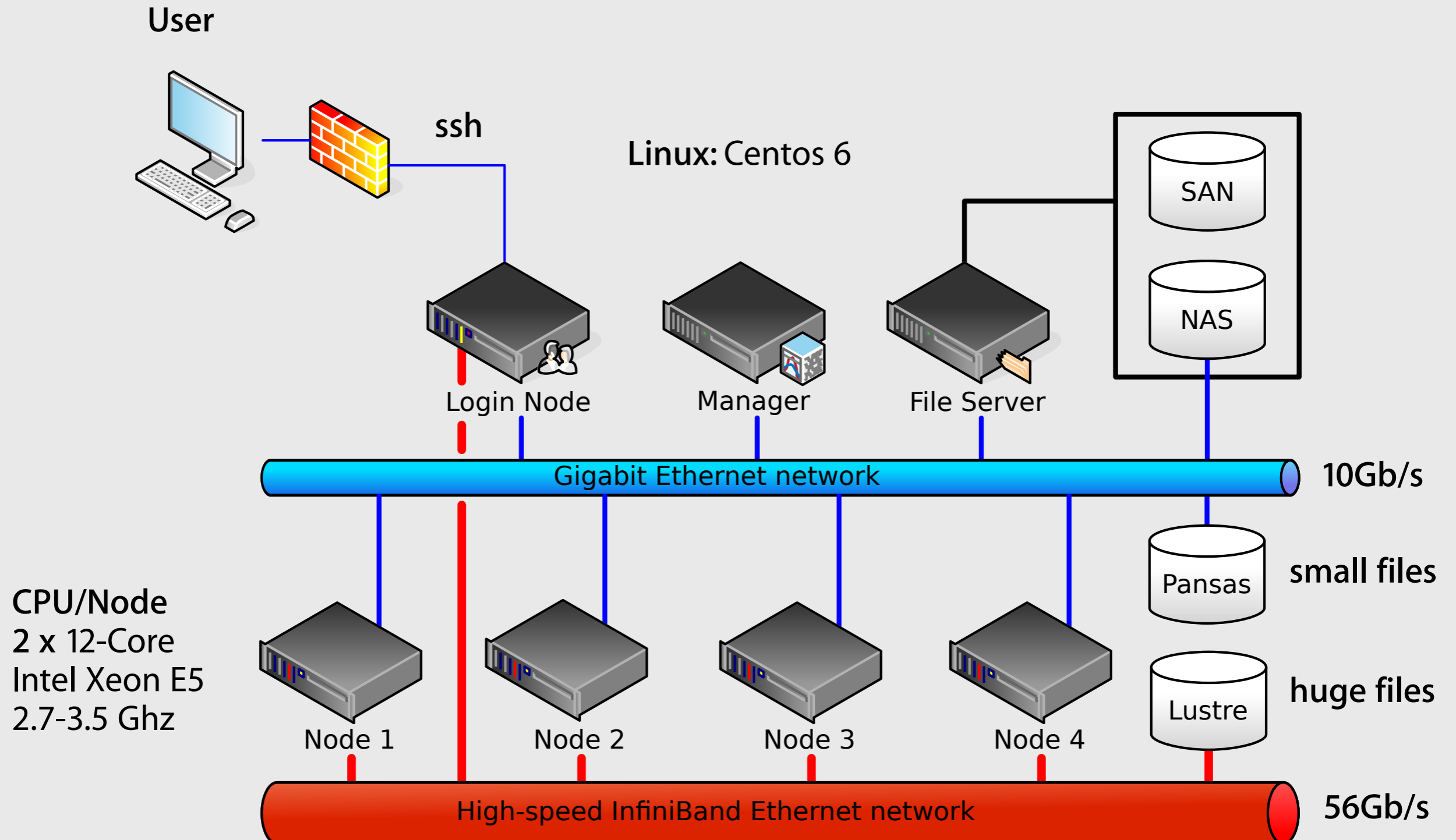
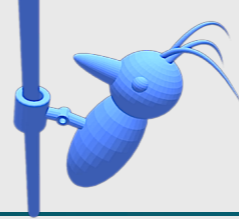
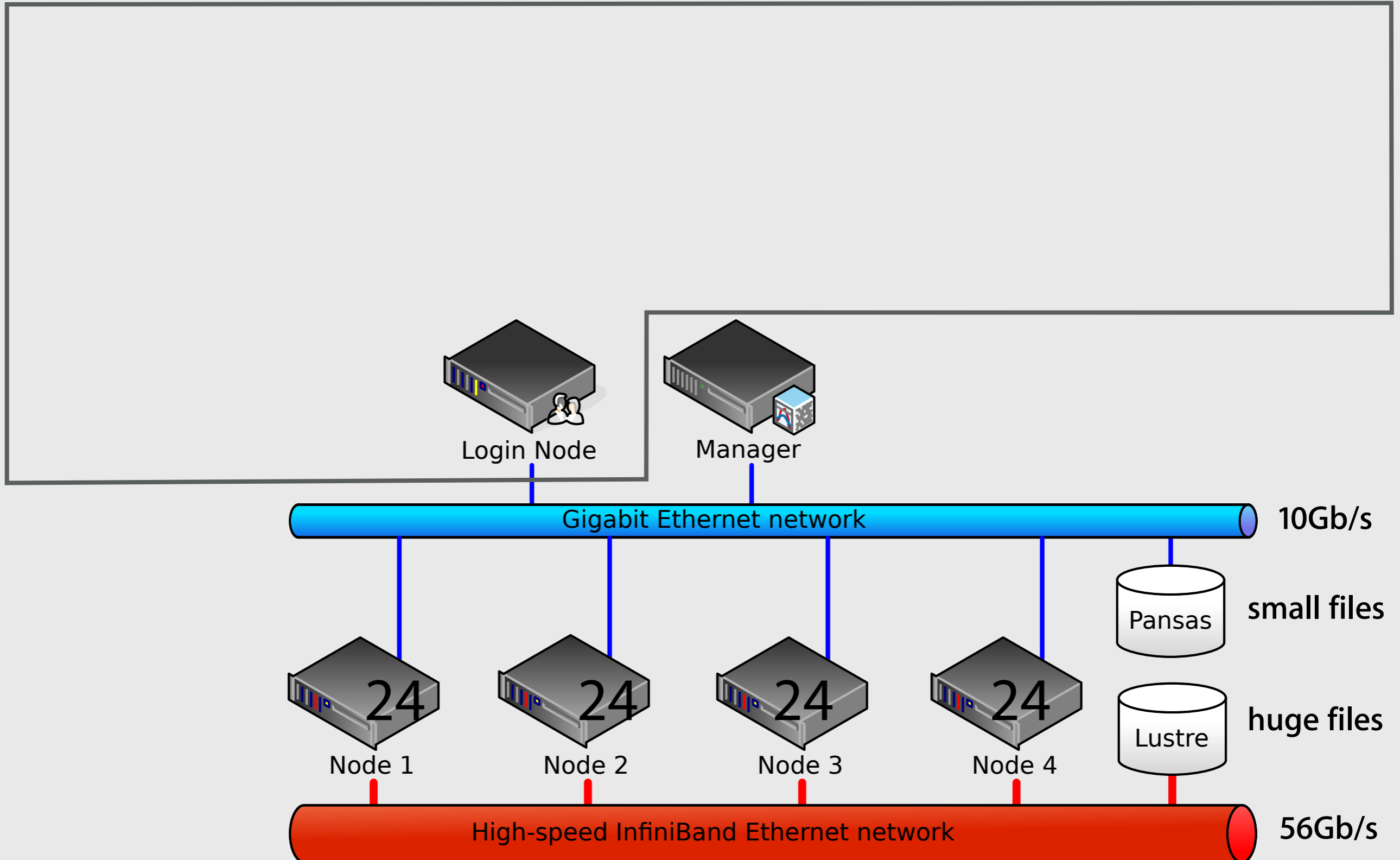


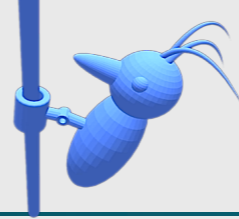
# Cluster Architecture





# Clean Job Babysitting

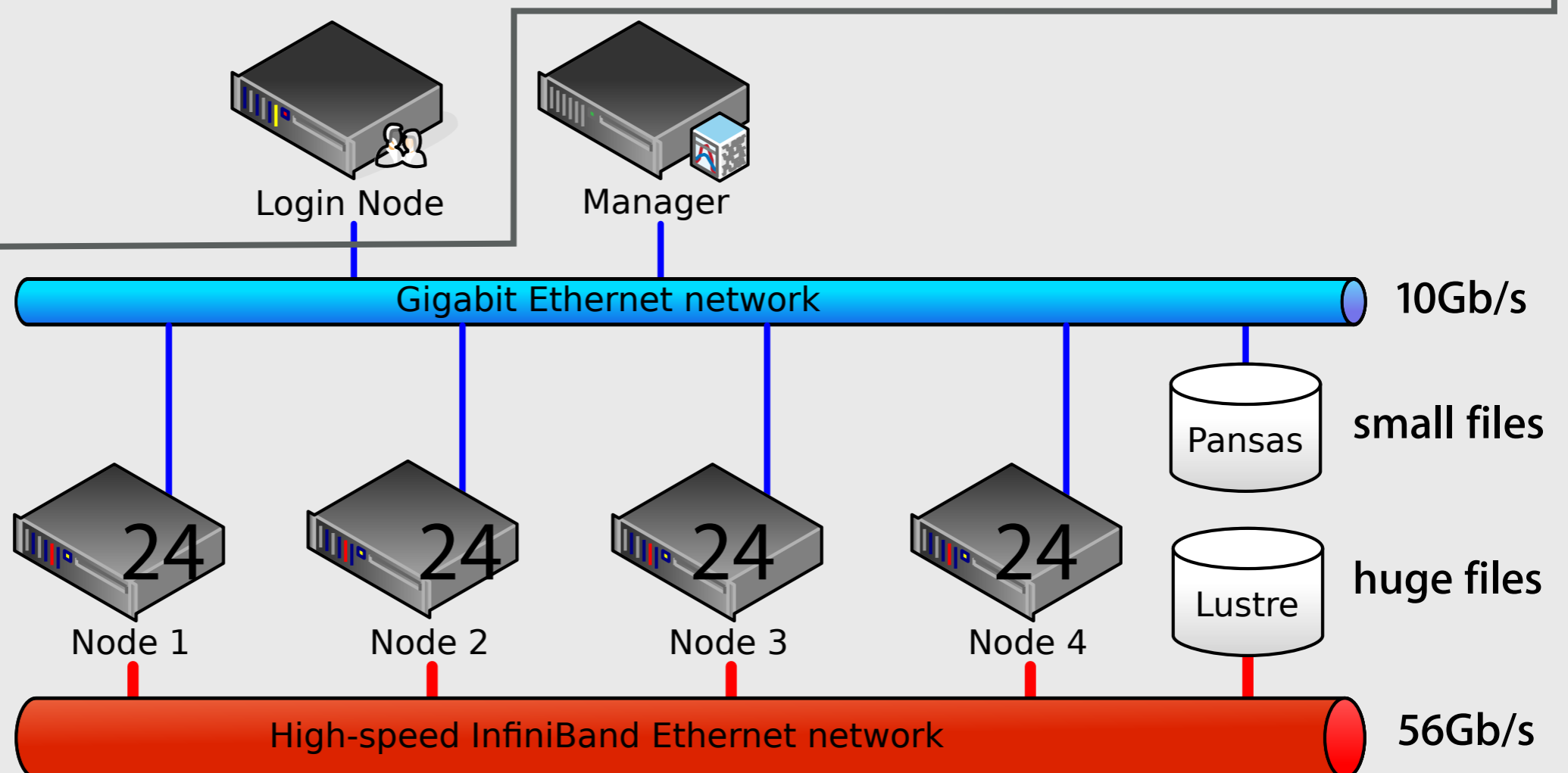


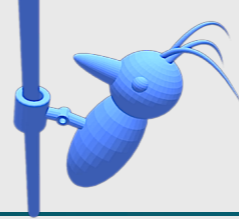


# Clean Job Babysitting

I. Configure Job with HPCJobConfigurator:

```
python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2
```

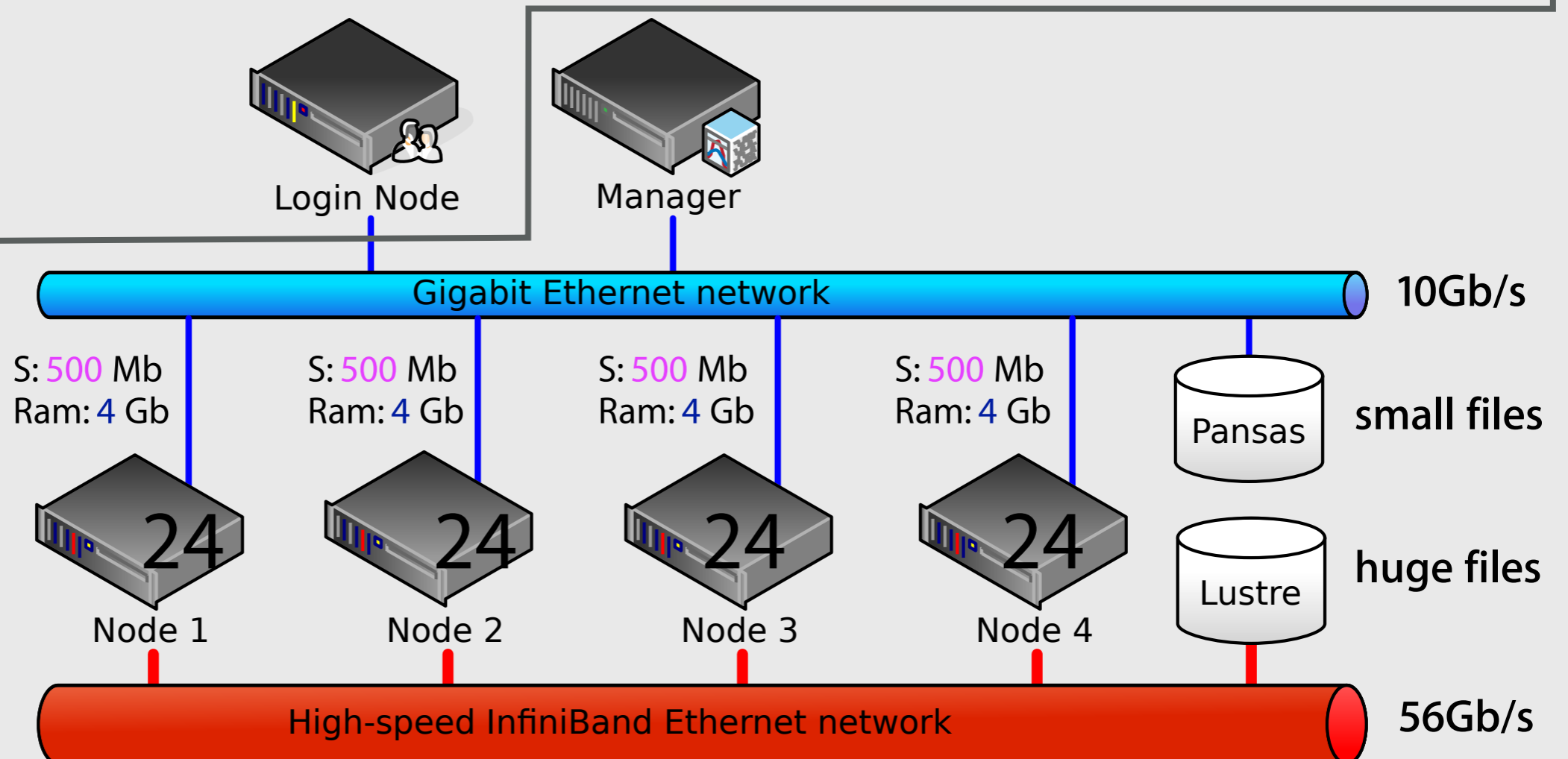


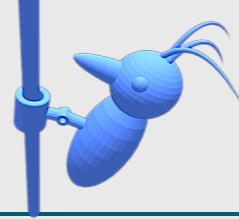


# Clean Job Babysitting

I. Configure Job with HPCJobConfigurator:

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python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2
```

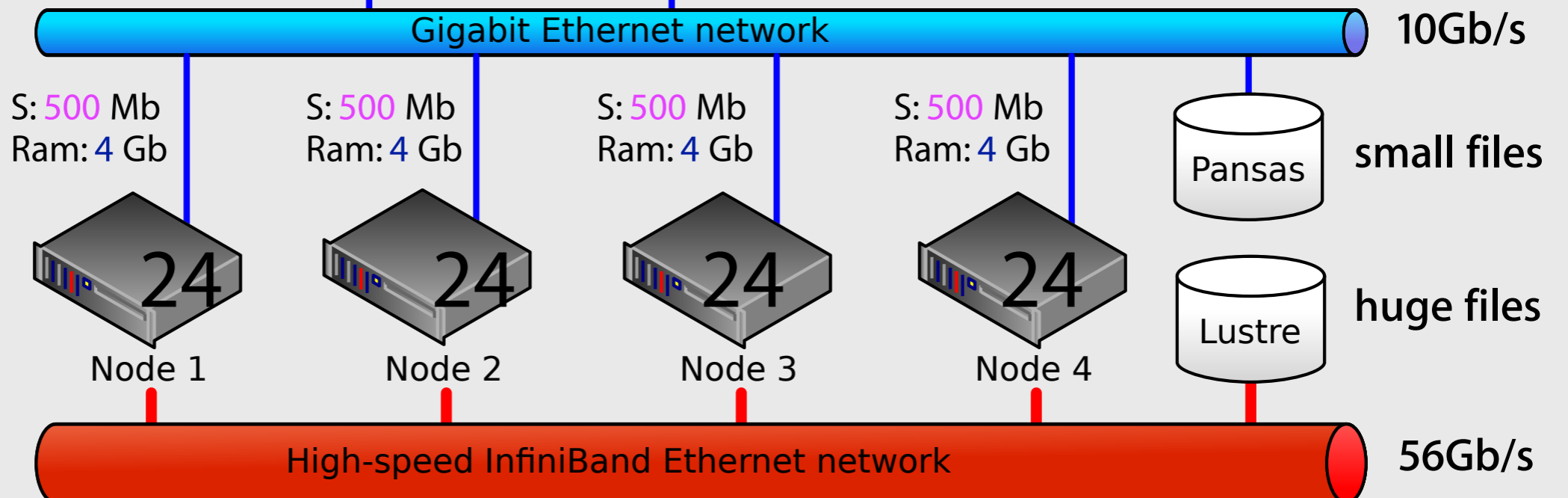
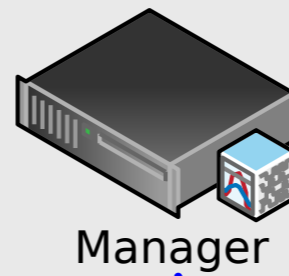
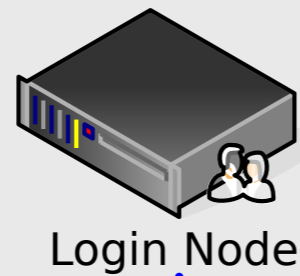
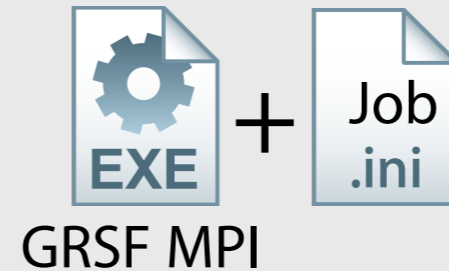


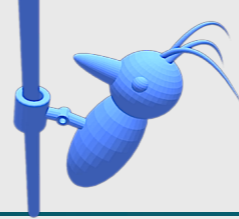


# Clean Job Babysitting

I. Configure Job with HPCJobConfigurator:

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python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2
```

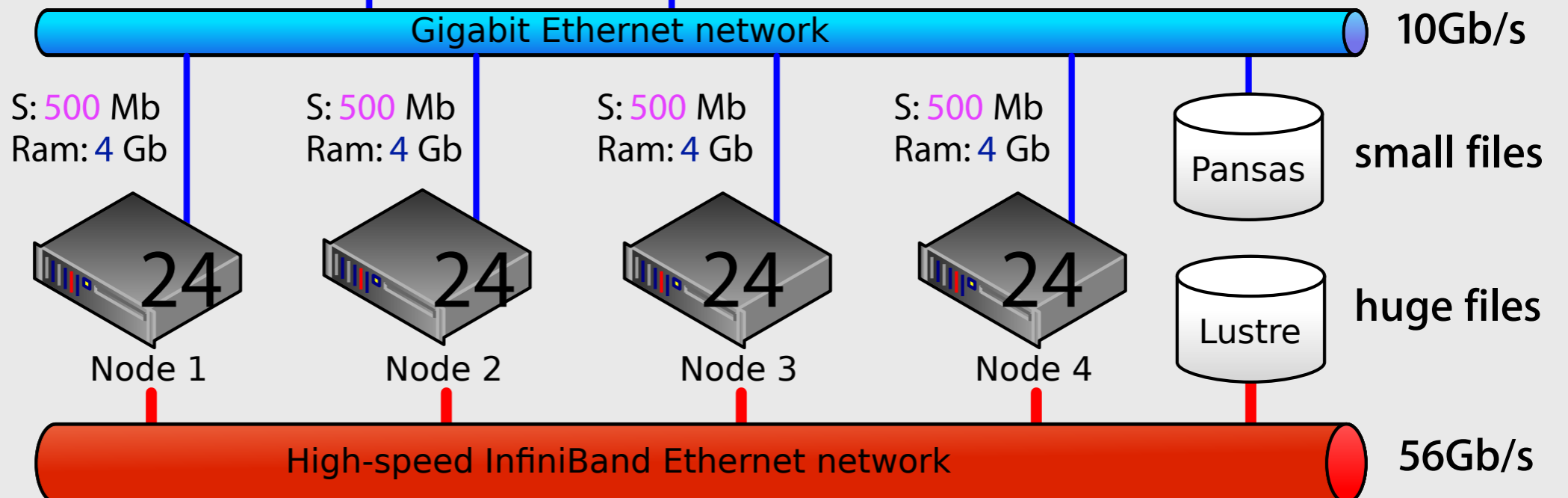
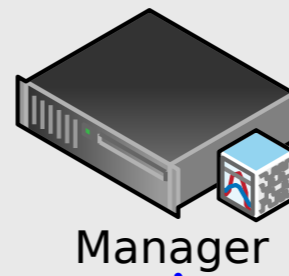
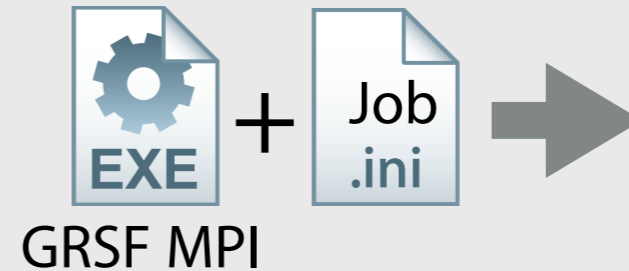
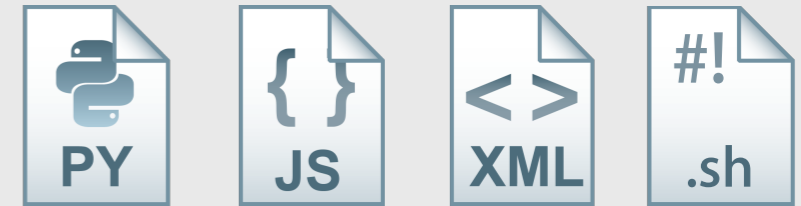


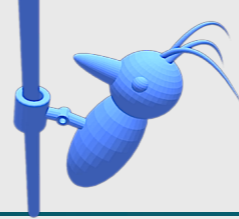


# Clean Job Babysitting

I. Configure Job with HPCJobConfigurator:

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```

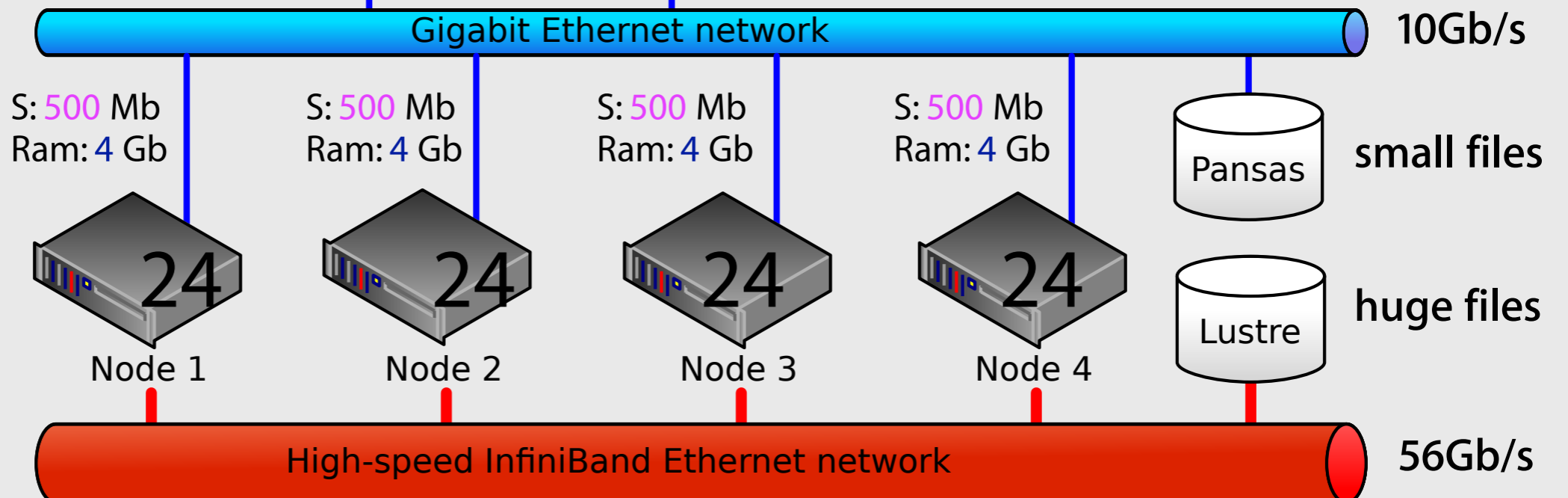
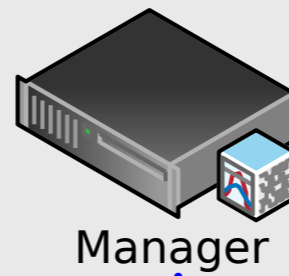
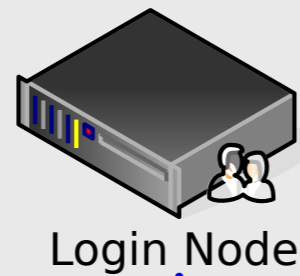
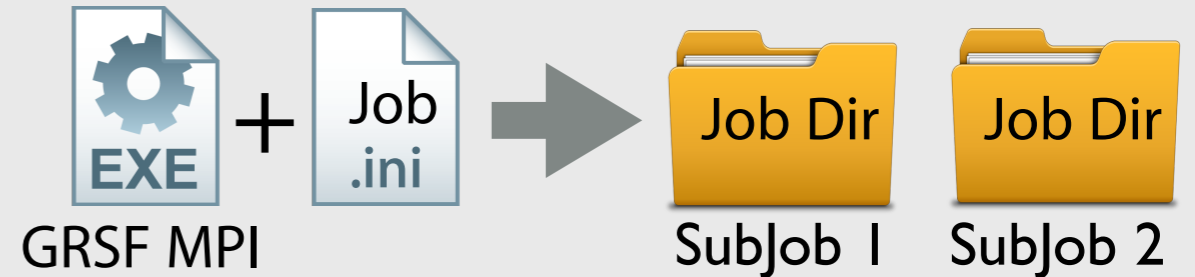


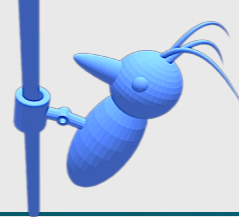


# Clean Job Babysitting

I. Configure Job with HPCJobConfigurator:

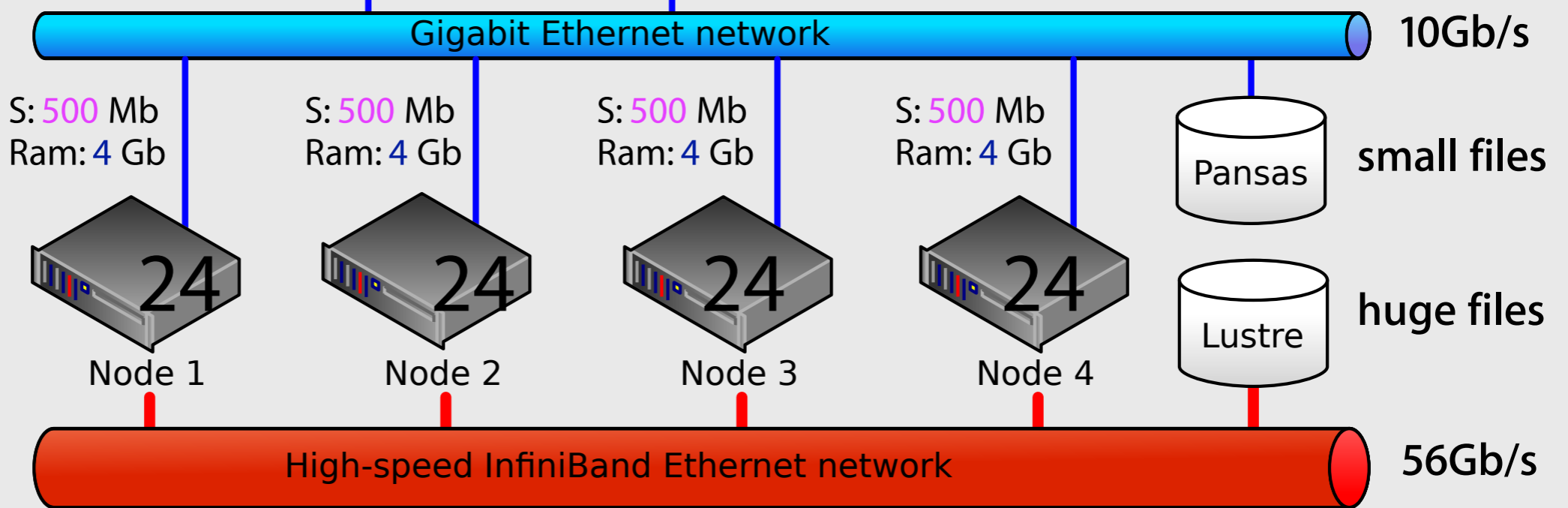
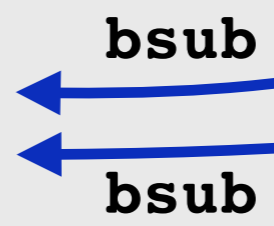
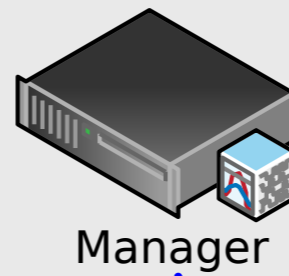
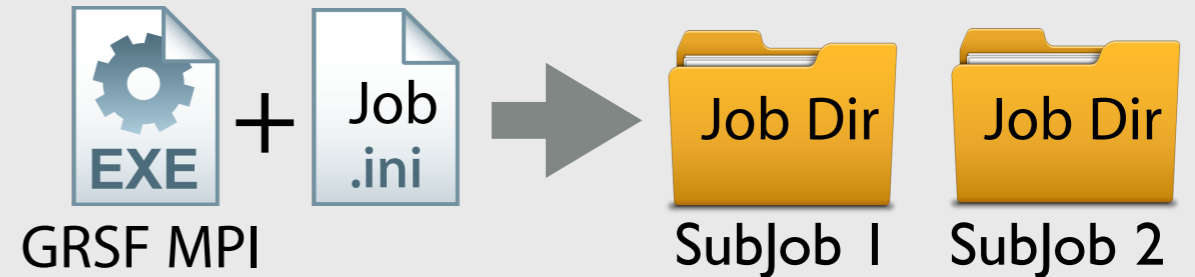
```
python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2
```



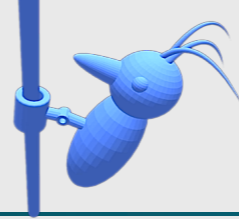


# Clean Job Babysitting

1. Configure Job with HPCJobConfigurator:  
`python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2`
2. Submit Job with **bsub**

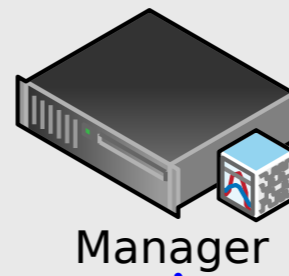
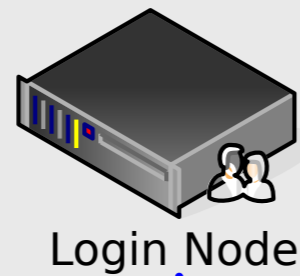
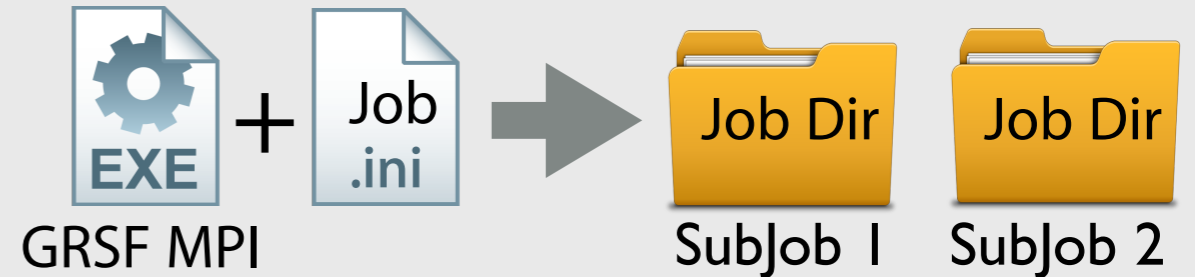




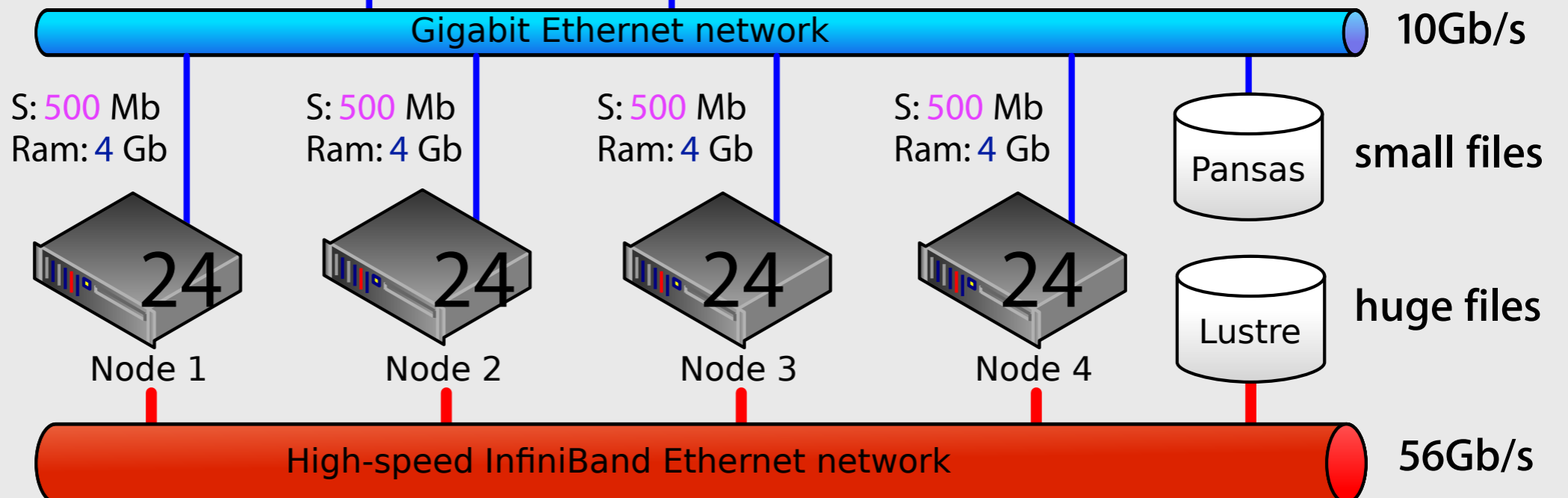


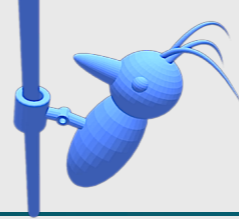
# Clean Job Babysitting

1. Configure Job with HPCJobConfigurator:  
`python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2`
2. Submit Job with **bsub**
3. Trink coffee and hope for the best!



**bsub**  
**bsub**





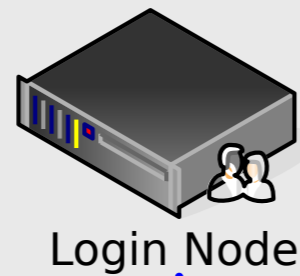
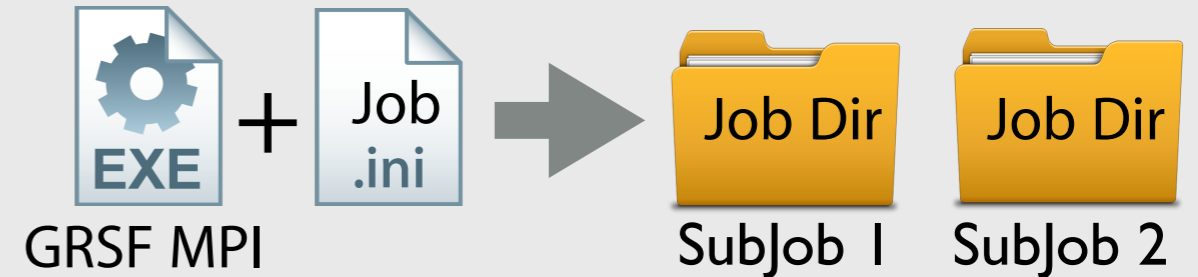
# Clean Job Babysitting

1. Configure Job with HPCJobConfigurator:  
`python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2`

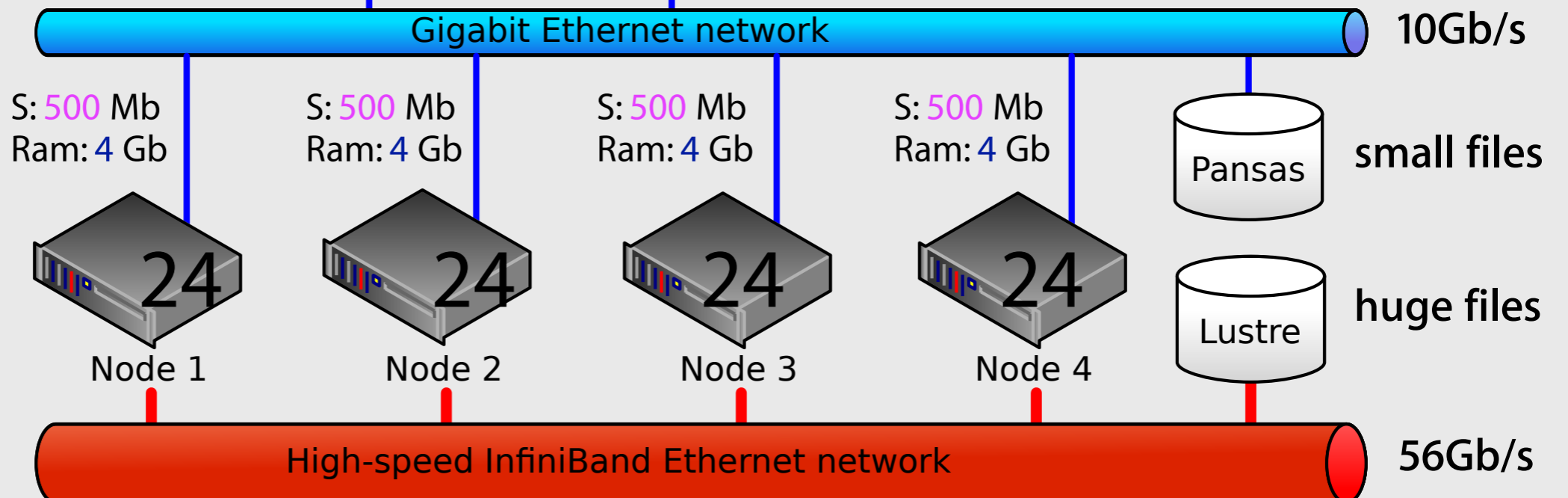
2. Submit Job with `bsub`

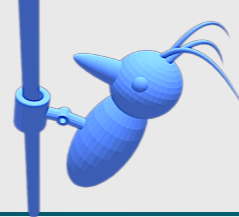
3. Trink coffee and hope for the best!

4. Job launched: woo!



`bsub`  
`bsub`





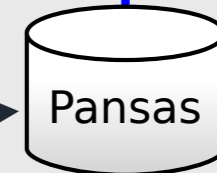
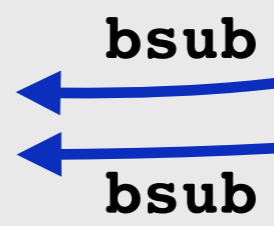
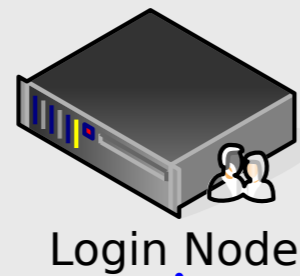
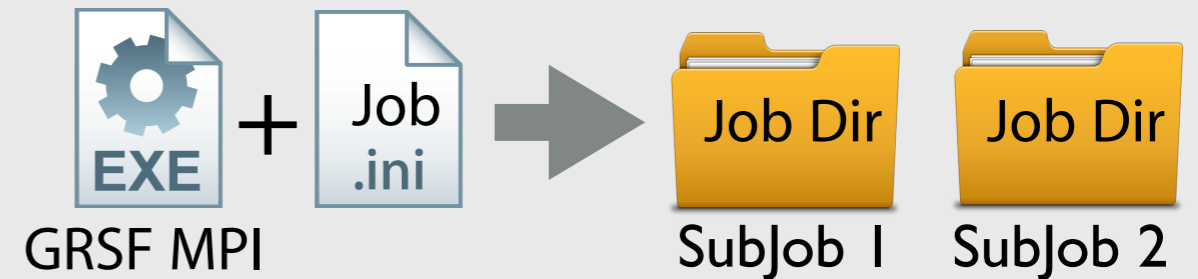
# Clean Job Babysitting

1. Configure Job with HPCJobConfigurator:  
`python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2`

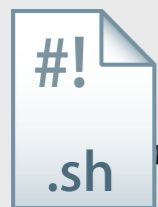
2. Submit Job with `bsub`

3. Trink coffee and hope for the best!

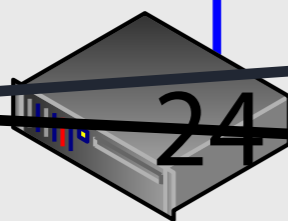
4. Job launched: woo!



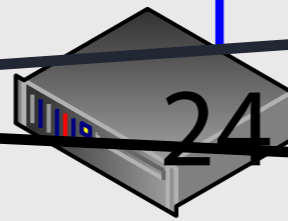
small files



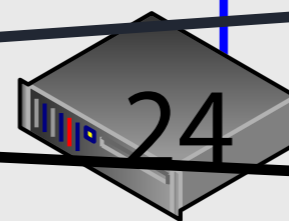
start



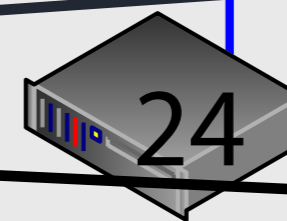
Node 1



Node 2



Node 3

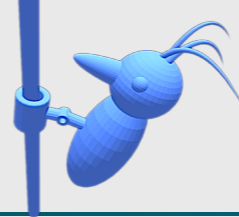


Node 4



huge files





# Clean Job Babysitting

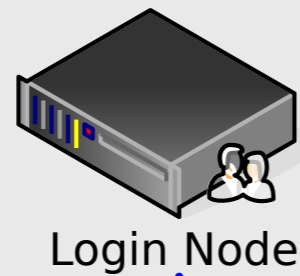
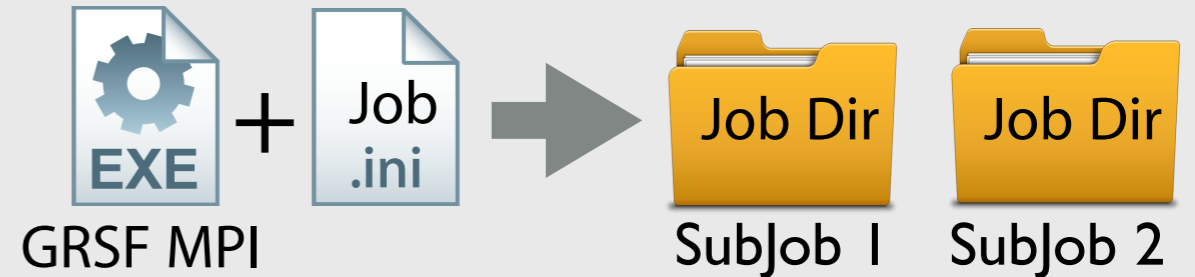
1. Configure Job with HPCJobConfigurator:  

```
python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2
```

2. Submit Job with **bsub**

3. Trink coffee and hope for the best!

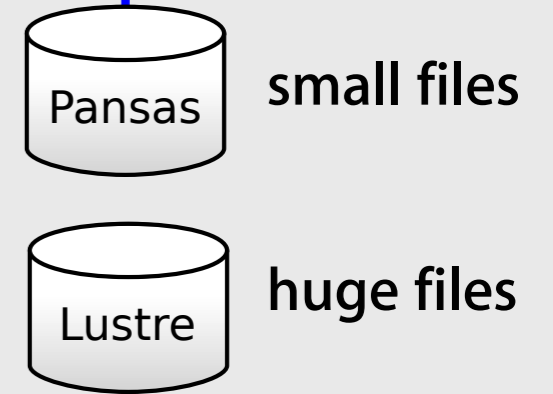
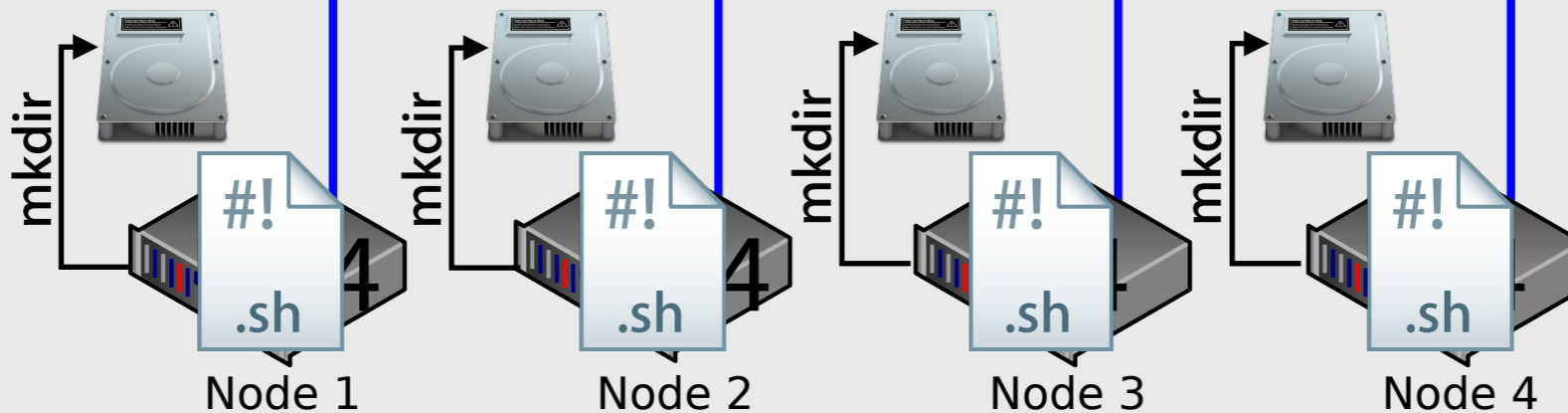
4. Job launched: woo!

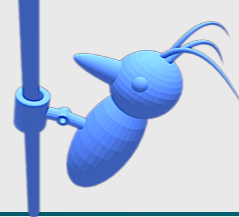


**bsub**  
**bsub**



preProcess-  
PerNode.sh:  
I/O from global  
to scratch





# Clean Job Babysitting

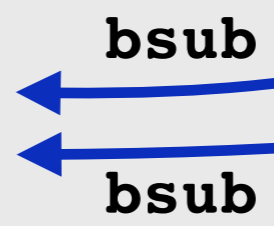
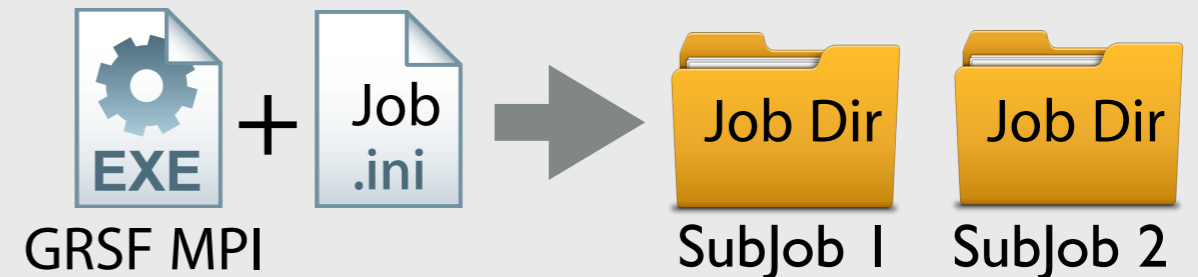
1. Configure Job with HPCJobConfigurator:  

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python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2
```

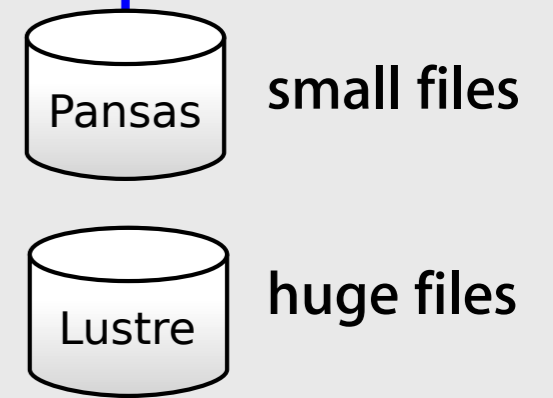
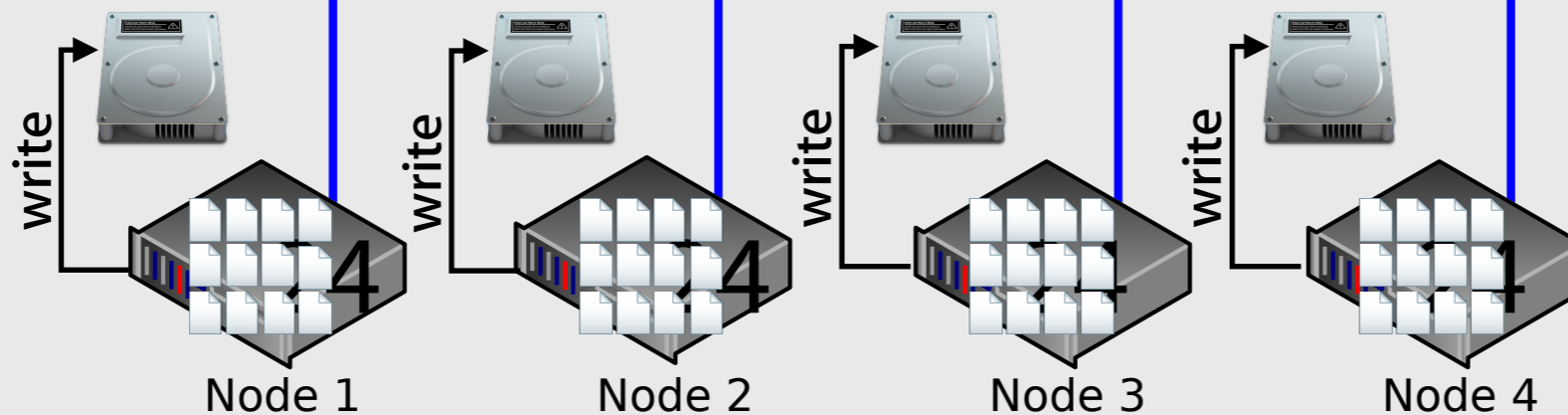
2. Submit Job with **bsub**

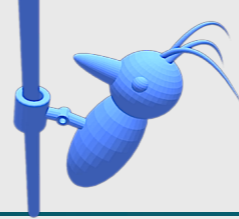
3. Trink coffee and hope for the best!

4. Job launched: woo!



process.sh:  
- compute  
- do I/O





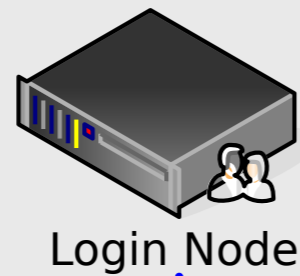
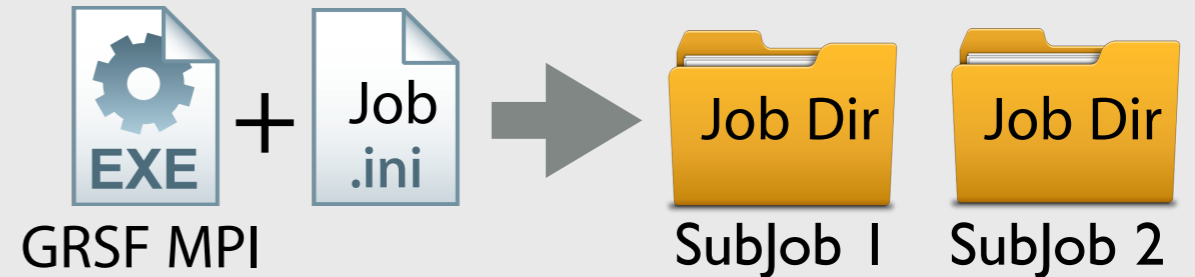
# Clean Job Babysitting

1. Configure Job with HPCJobConfigurator:  
`python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2`

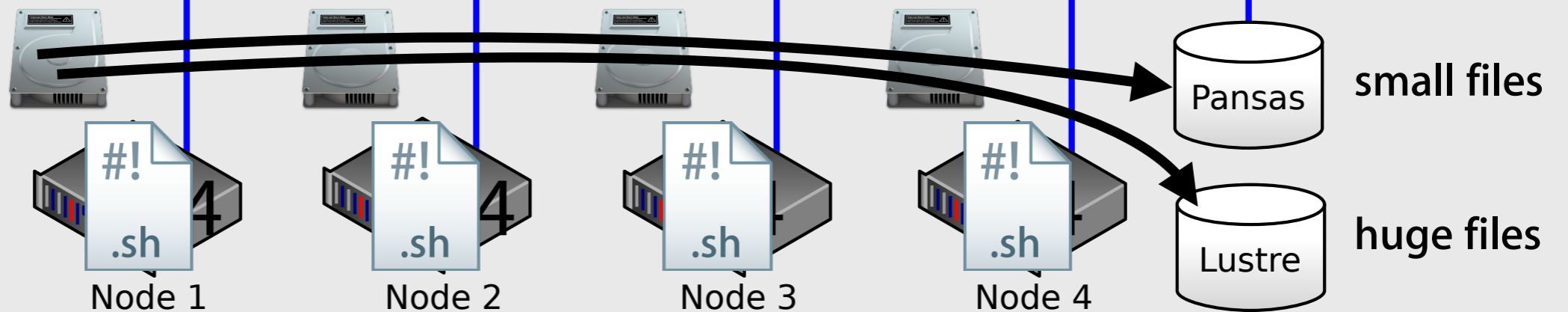
2. Submit Job with `bsub`

3. Trink coffee and hope for the best!

4. Job launched: woo!

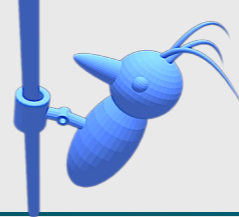


`bsub`  
`bsub`



postProcess-  
PerNode.sh:  
I/O from scratch  
to global





# Clean Job Babysitting

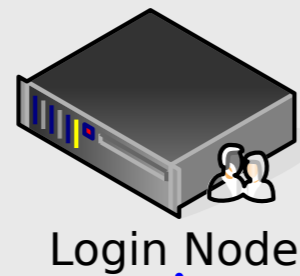
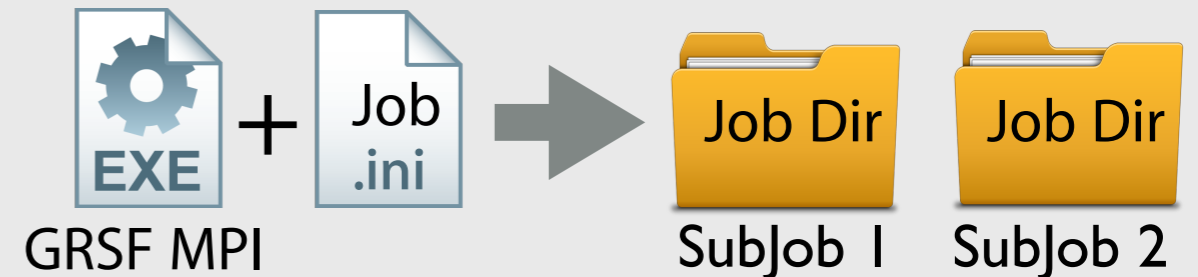
1. Configure Job with HPCJobConfigurator:  

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python configureJob.py -x Job.ini  
-p 92 -l 500 -r 4000 -t 720 -n 2
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2. Submit Job with **bsub**

3. Trink coffee and hope for the best!

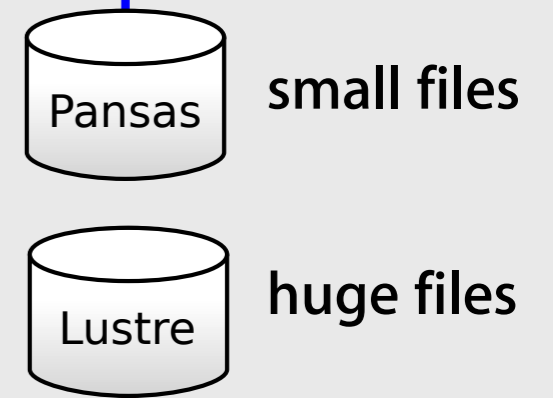
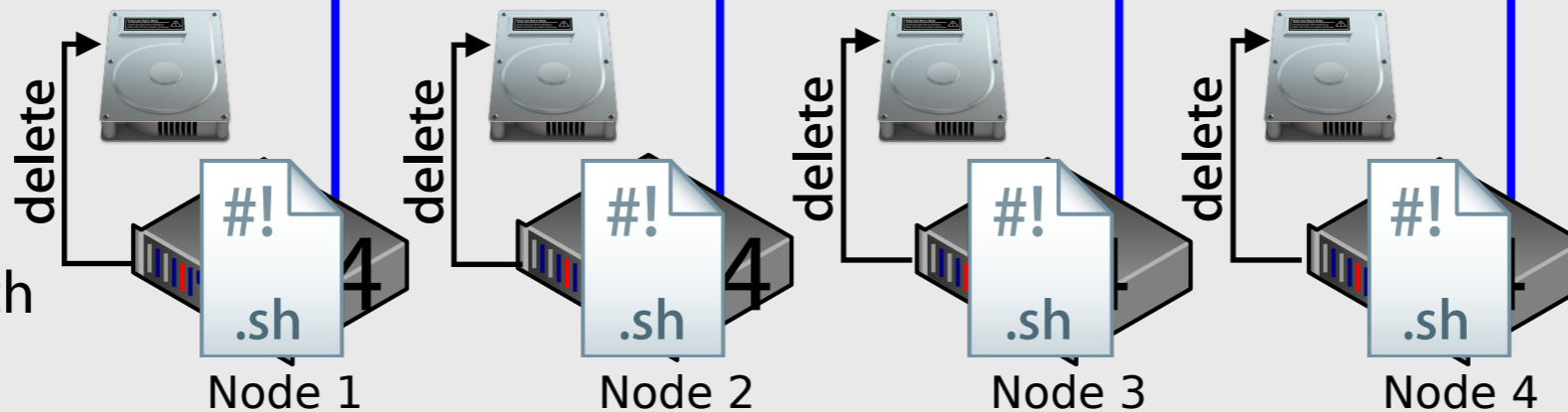
4. Job launched: woo!

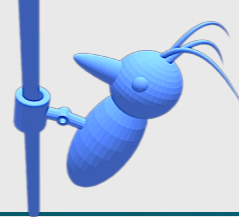


**bsub**  
**bsub**



postProcess-  
PerNode.sh:  
I/O from scratch  
to global





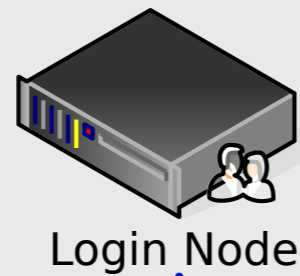
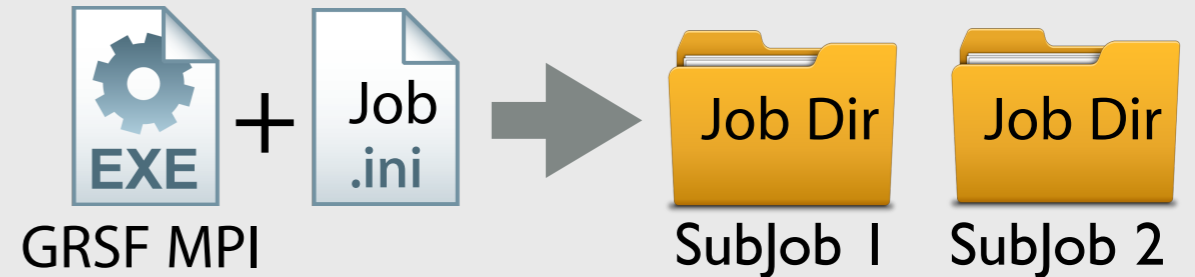
# Clean Job Babysitting

1. Configure Job with HPCJobConfigurator:  
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-p 92 -l 500 -r 4000 -t 720 -n 2`

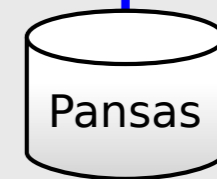
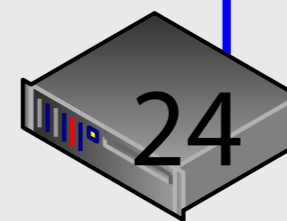
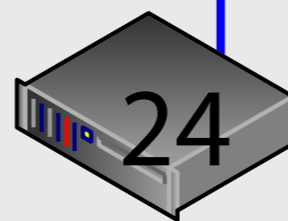
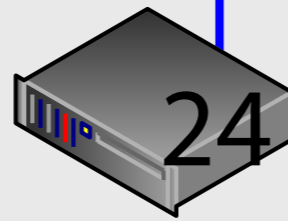
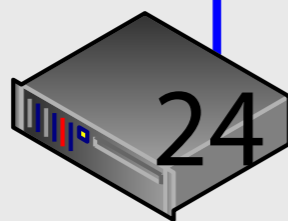
2. Submit Job with `bsub`

3. Trink coffee and hope for the best!

4. Job launched: woo!

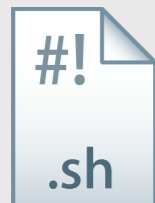


`bsub`  
`bsub`



small files

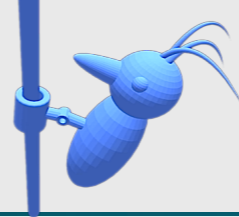
huge files



end:

- (file validation)
- notify user





# Clean Job Babysitting

1. Configure Job with HPCJobConfigurator:  

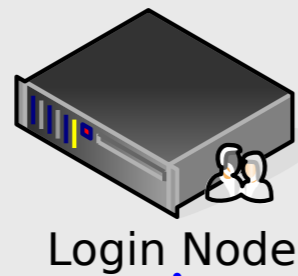
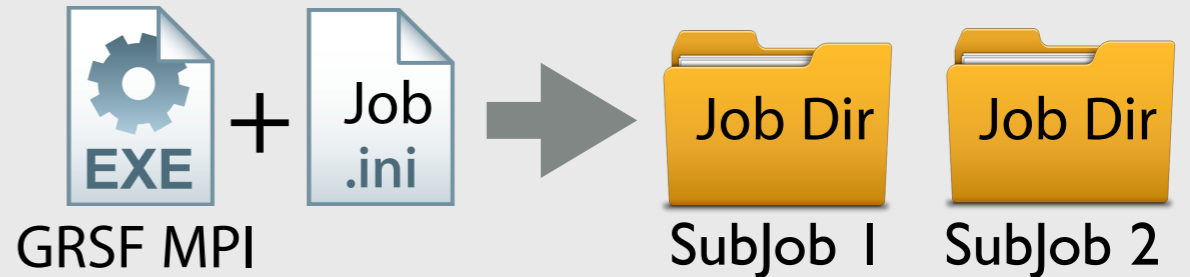
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-p 92 -l 500 -r 4000 -t 720 -n 2
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2. Submit Job with **bsub**

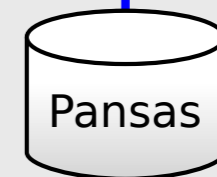
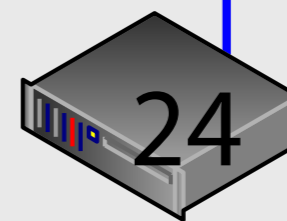
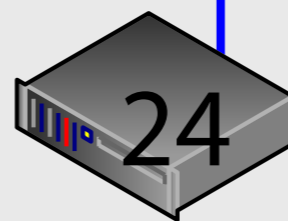
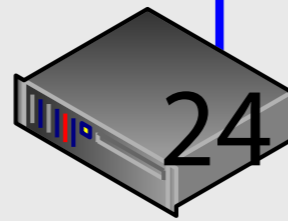
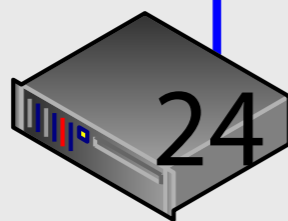
3. Trink coffee and hope for the best!

4. Job launched: woo!

5. Job run successfully:  
copy data back



**bsub**  
**bsub**



small files

huge files



end:

- (file validation)
- notify user