

## **FAQs related to PBS allocation Manager/Budgeting**

### **Q. How to enable the PBS budget/allocation manager commands?**

Users must log in to the PBS allocation manager to access the allocation manager-related commands.

Use the below commands from the login node to enable allocation manager commands,

```
[test@ln3 ~]$ amgr login  
[test@ln3 ~]$
```

**Note:** Passwordless login to amgr has been enabled for all users, and the login token will expire every 3 hours. User must re-login to access allocation manager commands.

### **Q. How to check the default user budget?**

To check the user default budget, please use the below command,

→ amgr checkbalance user -n <pegasus-username>

```
[test@ln3 ~]$ amgr checkbalance user -n test  
{'cost': 49995.53699999999}
```

### **Q. How to check the list of budget allocation period?**

To check the list of budget allocation periods, please use the below command,

```
[test@ln3 ~]$ amgr ls period  
global  
Y2025  
Y2026  
Y2024  
2024.h1  
2024.h2  
2024.m6  
2024.m7  
2024.m8  
2024.m9  
2024.m10  
2024.m11  
2024.m12
```

For detailed information, please use “-l”,

```
[test@ln3 ~]$ amgr ls period -l
```

### **Q. How to check the project associated with the user and allocated budget?**

To check the project associated with the user, please use the below command,

```
[test@ln3 ~]$ amgr ls project
Test-project
```

If no project is associated with a user account, you will get the following output,

```
[test@ln3 ~]$ amgr ls project
No records found
```

Each project will have a budget period, from **January to June and July to December (2024.h1&2024.h2)**. To check the balance budget of a project, please use the below command,

→ amgr checkbalance project -n <project-name> -p <period>

```
[test@ln3 ~]$ amgr checkbalance project -n Test-project -p 2024.h1
{'cost': 999.00}
```

Project budget allocation will be subject to proposals and approved by the Time Allocation Committee (TAC).

### **Q. How to submit the PBS jobs using project name/tag?**

To submit the PBS jobs using the project name/tag, please use the commands/parameters below in your job submission script.

```
#PBS -q project          ## Specify the project queue
#PBS -P Test-project     ## Specify the project name/tag
```

Sample command to test the job submission using project name/tag to project queue from command line,

```
[test@ln3 ~]$ qsub -l select=2:ncpus=32 -l walltime=1:00:00 -q project -P Test-project -- /bin/sleep 100
```

Note: Users with default budget, will not be able to submit the jobs to project queue.

### **Q. How to submit the PBS jobs using the default budget (50000) without specifying the project name/tag?**

The user needs to submit the job without specifying any queue and project name/tag in the job submission script.

Sample command to test the job submission using default quota from command line,

```
[test@ln3 ~]$ qsub -l select=1:ncpus=32 -l walltime=1:00:00 -- /bin/sleep 100
```



```
[test@ln3 ~]$ amgr report transaction -i 51276.hn1
+-----+-----+-----+-----+
| transaction | account | user | reconciled_cost |
+-----+-----+-----+-----+
| 51276.hn1 | test | test | 0.089 |
+-----+-----+-----+-----+
```

```
[test@ln3 ~]$ amgr checkbalance user -n test
{'cost': 49994.55899999999}
```

**Note:** After job completion, the unused budget will be re-calculated and added to the user default or project budget.

### Q. How to submit the job to debug queue?

To submit the PBS jobs to the debug queue, please use the commands/parameters below in your job submission script.

```
#PBS -q debug                ## Specify the debug queue
```

Sample command to test the job submission using queue name from command line,

```
[test@ln3 ~]$ qsub -l select=2:ncpus=32 -l walltime=1:00:00 -q debug -- /bin/sleep 100
```

```
[test@ln3 ~]$ qsub -l select=2:ncpus=32 -l walltime=1:00:00 -q debug -P Test-project -- /bin/sleep 100
```

Note: User can use the default/project budget to submit the jobs.

### Q. How to submit the job to low priority queue?

To submit the PBS jobs to the low-priority queue, please use the commands/parameters below in your job submission script.

```
#PBS -q low_priority         ## Specify the low_priority queue
```

Sample command to test the job submission using queue name from command line,

```
[test@ln3 ~]$ qsub -l select=2:ncpus=32 -l walltime=1:00:00 -q low_priority -- /bin/sleep 100
```

```
[test@ln3 ~]$ qsub -l select=2:ncpus=32 -l walltime=1:00:00 -q low_priority -P Test-project -- /bin/sleep 100
```

Note: User can use the default/project budget to submit the jobs.

**NOTE:** For additional PBS Budgets Commands/information, please refer to the "12.1 Using Budgets" section of the user guide from documentation section.