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| --- | --- | --- |
| Client | Number(1-1024) | info |
| Return the information of a certain client.  Information includes IP address, index of running task,  Example:  Type: client 1 info  Display: 192.168.1.1 taskID:13 running13.task  taskID:15 running15.task | | |
| Client | Number(1-1024) | Run FILENAME |
| Run a certain file on a certain client and return the result to a file which will be saved in S3  Example:  Type: client 3 run run.file  Display: The client 3 has started to run run.file  The task has already done and the the result task34.txt is saved in S3 successfully. | | |
| client | Number(1-1024) | Stop TASKID/ALL |
| Stop a certain task or all tasks on a certain client and return TRUE or FALSE.  Example:  Type: client 2 stop task12  Display: The task12 from client 2 has been successfully stopped.  Example:  Type: client 2 stop all  Display: All the tasks from client 2 have been successfully stopped.    Display: The task cannot be stopped successfully. | | |
| client | 4 | exit |
| Exit a certain client and stop all tasks on the client.  Example:  Type: client 2 exit  Display: the client 2 exit successfully and all the tasks on client2 have been stopped. | | |
| client | status | (task) |
| Return all clients connected to the server with their clientID and IP address  Return all clients and tasks on those clients with clientID, IPaddress,taskID and taskFileName.  Example:  Type: client status  Display: 0 192.168.1.1  1 192.168.1.2  2 192.168.1.3  6 192.168.1.16  Example:  Type: client status task  Display: 0 192.168.1.1  1 192.168.1.2  task12 task12.task  task23 task23.task  3 192.168.1.23  task16 task16.task | | |
| Client | Num(1-1024) | task |
| Return all the taskID and taskFileName on a certain task  Example:  Type: client 5 task  Display: task6 task6.task  Task14 task14.task  Task36 task36.task | | |
| client | help |  |
| Return the use of supporting command | | |
| help |  |  |
| Same with client help | | |

Process

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| --- |
| Server starting…  Display: Server is ready |
| Client connect  Display: Client is connected successfully |
| Client send message every 5 sec to Server to show the client is working  NO display when client is working  Display: client 3 is not connected(out of time) |
| Server send command to client and client will return the command received  Type: client 4 run tt.task  Display(on server): client 4 received command run tt.task successfully. |
| Server display error if command cannot be run successfully  Type: client 68 task  Display: No such clientID  Type: client 12 run kk.task  Display: No such runnable file called kk.task  Type: client 5 stop task13  Display: No such task on client 5  Type: client 12 run tt.task  Display: the client 12 has started to run tt.task  The result task22.txt cannot be saved to S3 properly |