**Requirement**

Validate the audit logs from actants and traders’ servers weekly before sending them to the clearing firm. Invalid (empty) log files need to be recorded and removed.

**Solution**

**Windows server**

Drives are mounted under the dev machine. The script can check and do the work sequentially based on the directory that log files resides listed in the csv file.

**Linux server**

Audit logs are uploaded under the sftp server on daily basis. That is where audit logs reside. Once it passes the validation (no empty), It will be downloaded to local and push to the clearing firm. The local copy will be removed once the upload session is done.

Regardless the operating systems that servers run, the empty log files will be found and recorded in the database. Validated logs will be zipped and uploaded to ED&F Man (clearing firm). After that, Mark and Boyang will be notified by email if an empty is found.

**Comments**

1. There are two checkers, for Windows and Linux servers, respectively.
2. Scripts will be trigged at 8pm on Friday. It will check the logs generated in the past 5 days sharp
3. Email will be sent out right after the script is done from [test.budo@gmail.com](mailto:test.budo@gmail.com)
4. Audit logs are grouped by server. A copy of that can be found under a folder named after the date script is triggered, e.g. /weekly\_test/20170616/
5. Servers are listed in a csv file. Simple enough for user to CRUD a server as long as they follow the pattern, filling in all the requirement information.

**Configuration**

* Scripts Runs on: 10.60.71.104 (Boyang’s desktop)
* MySQL Server: 10.60.36.3:3306 (database: budofiles, table: error\_log\_info, user: bdong )
* Sftp Server: 64.74.102.118:4242 (dir: instance1/audit\_logs/)
* ED&F Man sftp Server: ftpc.edfmancapital.com:2222

**Future Work**

1. Develop the script based on different types of “invalid” logs or more requirement. For now, only an empty one is considered as “invalid”.
2. The hard disk is encroached on ED&F man server. The size of latest copy of logs throughout all the servers is around 2Gb. Find a solution to prevent the potential issues/hazard that may cause.