

# Parser & Copier

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A python parser and copier software that you can config it from `yaml` files, so you don't need change the code.

You can have any configuration file as much as you want.

## Parser

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As you specify in the Configuration file, software reads log files and send its data. The software ensures that the duplicate data is not sent or that the data is not lost.

## Copier

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As you specify in the Configuration file, the software copies the latest source files to the destination. The software ensures that there are always the latest source files in the destination and that if the file is edited at the origin, it will be changed to the destination.

## Installation

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- In windows

```
pip install virtualenv
```

- In linux

```
sudo apt install python3-pip python3-venv unixodbc unixodbc-dev
```

Then

- In Windows

```
python -m venv ./venv
```

```
venv\Script\activate
```

- In Linux

```
python3 -m venv ./venv
```

```
source ./venv/bin/activate
```

And install prerequisites

```
pip install -r req.txt
```

Finally run it

```
python3 main.py
```

## How To Compile it

After you have completed the installation instructions, Enter this command

```
auto-py-to-exe
```

And then specify main.py file to `Script Location` and add `lib` folder in `Additional Files` , Finally convert this.

## How to create a config file for Parser ?

Create a `yaml` file with a name you want, then config these variables in it. finally copy this file to `config-log` directory.

Variable	Description	Options
Separator	separator of data in each rows in text files	t or n or something else
Type	type of file	txt or csv or mdb
File	the file must read and parse its data	

Variable	Description	Options
Send-Type	How to send data?	api or sql (sql for sql server)
SQL-SERVER	If your Send-Type is sql, adjust it	
SQL-DATABASE	If your Send-Type is sql, adjust it	
SQL-Table	If your Send-Type is sql, adjust it	
SQL-USERNAME	If your Send-Type is sql, adjust it	
SQL-PWD	If your Send-Type is sql, adjust it	
Table-Name-MDB	If your Type is mdb, set mdb table name to it	
Send-API	If your Send-Type is api, set api address to it	
Data	number of column you need to read.start of 0	
Names	the data send with these names in api or column name of sql table	
Check	the number of columns with which the software checks that they do not send duplicate information	
Date-Format	what is the format of the check data?	
Ignore-Row	which rows should be ignored? (start from 0)	

See an example of parser config file :

```

Separator : t
Type : txt
File : G:\Qasem Talaee\project\parser\test\text.txt
Send-Type : sql
SQL-SERVER : server
SQL-DATABASE : databse
SQL-Table : data

```

```

SQL-USERNAME : user
SQL-PWD : ojj
Table-Name-MDB : data
Send-API : 172.0/logsheet.php
Data :
- 2
- 3
- 4
- 5
Names :
- pi
- fi
- mi
- si
Check :
- 0
- 1
Date-Format : '%Y-%m-%d %H:%M:%S'
Ignore-Row :
- 0

```

See an example of the file to be read :

```

Date      Time      pi  fi  mi  si
1401-04-01 22:15:02    1  2  3  4
1401-04-02 23:12:22    2  3  4  5
1401-04-03 17:35:17    6  7  8  9

```

## How to create a config file for Copier ?

Create a `yaml` file with a name you want, then config these variables in it. finally copy this file to `config-copy` directory.

with `-` you can create a list of configs in `Order` .

Variable	Description	Options
Order	It's header and must be exist	
From	The address of the source directory	
To	The address of the destination directory	
Type	The system determines the required files based on the file name. What do you want to be in the file name?	

Variable	Description	Options
Count	The number of files to be stored in the destination for each Type	

See an example of copier config file :

Order :

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From : c:\source

To : e:\destination

Type :

- game

- log

Count : 10