# SFTP Auto File Transfer Program

```
python >= 3.6 paramiko 2.7.2
```

## **Overview**

This Python program facilitates automatic file transfer from one server to another using SFTP. The program reads configurations from config.py and uses a JSON file (sftp.json) to determine the source and destination paths for file transfer.

# Requirements

Ensure you have Python 3.6 or higher installed:

```
pip3 install paramiko
```

# Configuration

## config.py

1. Set the following parameters in config.py:

```
hostname = '' # Hostname of the target system
username = '' # Username of the target system
key_filename = '.pem' # PEM file path of the target system in the source
system OR
key_password = '' # Password of the target system (used above username)
sftppath = '/opt/outbox' # Path where you want to send the files on the
target system
logpath = '/opt/SFTP/log' # Log path for file transfer on the source system
JSONpath = 'sftp.json' # JSON-based config file path for inbox and outbox
paths
```

### sftp.json

2. Configure sftp.json with source and destination paths:

## How to Run

- 1. Navigate to the source code directory.
- 2. Run the following command in the command prompt or shell:

```
python3 index.py
```

or

py index.py

# **Working Steps**

## 1. Configuration Reading:

• The index.py script reads the configuration from config.py and the JSON file specified by JSONpath .

### 2. Inbox Check:

• The program checks the inbox path for files based on the configurations in sftp.json.

### 3. SFTP Connection:

• Initiates an SFTP server connection using the provided details (hostname, username, key\_filename/key\_password).

#### 4. File Transfer:

• Upon successful connection, it transfers the files to the target destination (sftppath).

### 5. Outbox Transfer:

• After a successful transfer, the program moves the same file to the outbox (outboxpath).

## 6. Logging:

• The system creates logs in the specified log path (logpath) for tracking and logging purposes.

# Note

- Ensure that both configurations (config.py and sftp.json) are correctly configured.
- Verify that the specified paths exist.
- Run the program responsibly after thorough configuration checks.