



## SQL instances synchronization

### Synchronization Flow:

- **SSMS instances create backup files:**
  - Run every day at 12:00
  - Backup directory path:
    - C:\sql\_backup\testshell-0X
- **Task Scheduler – Master server**
  - Run every day at 12:30
  - task name
    - COPY & RESTORING backup files to testshell-0X
  - Script Path
    - C:\Users\Public\Documents\automation\_apps\run\_sql\_backup\_sync.py
  - script flow :
    - Copy the most recent backup files from MASTER server to SLAVE server.
    - Master source path
      - C:\sql\_backup\{master server}
    - Slave destination path
      - C:\sql\_backup\{master server}
    - Restoring databases on the SLAVE server.

### Notes:

- Both servers can be MASTER or SLAVE (currently testshell-03 is Master)
- Python script should only run on the **MASTER** server.

### Cases:

- **Master long shutdown time:**
  - Update SLAVE to MASTER
  - Connect to SLAVE server
  - Open Task Scheduler
  - Run task : COPY & RESTORING backup files to testshell-0X
- **Master short shutdown time:**
  - When MASTER back to live – connect to Master server
  - Open Task Scheduler



- Run task : COPY & RESTORING backup files to testshell-0X