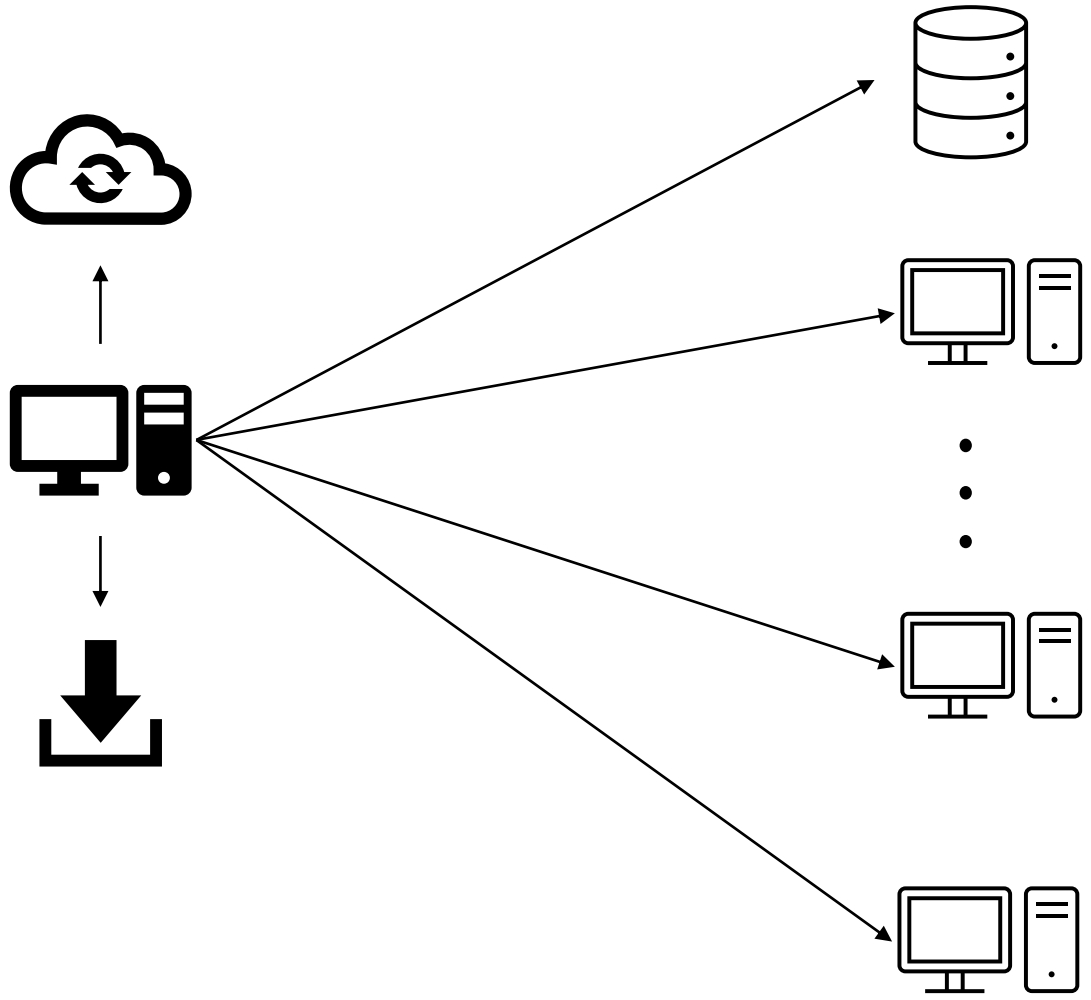
Data Management for CRAC

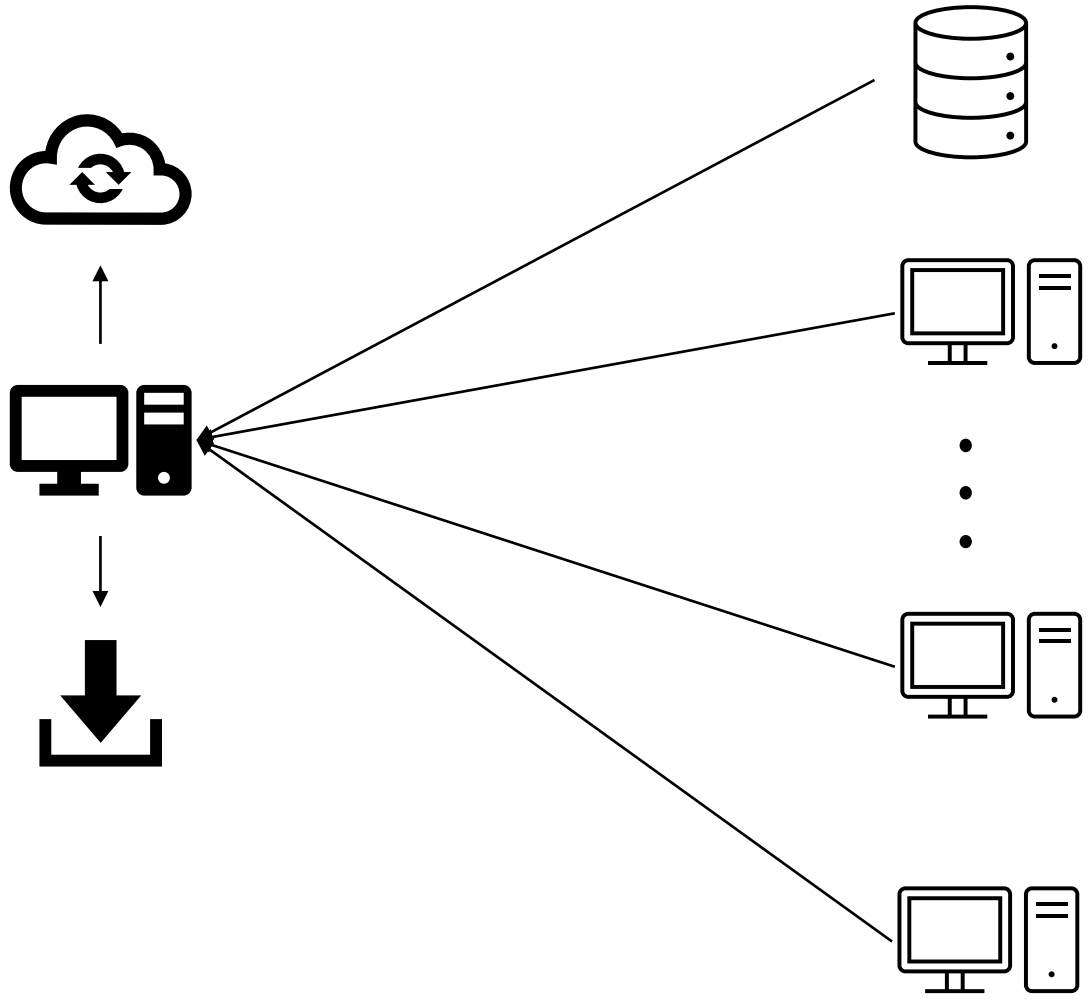
Some examples

Option 1: Data in workstation/logger



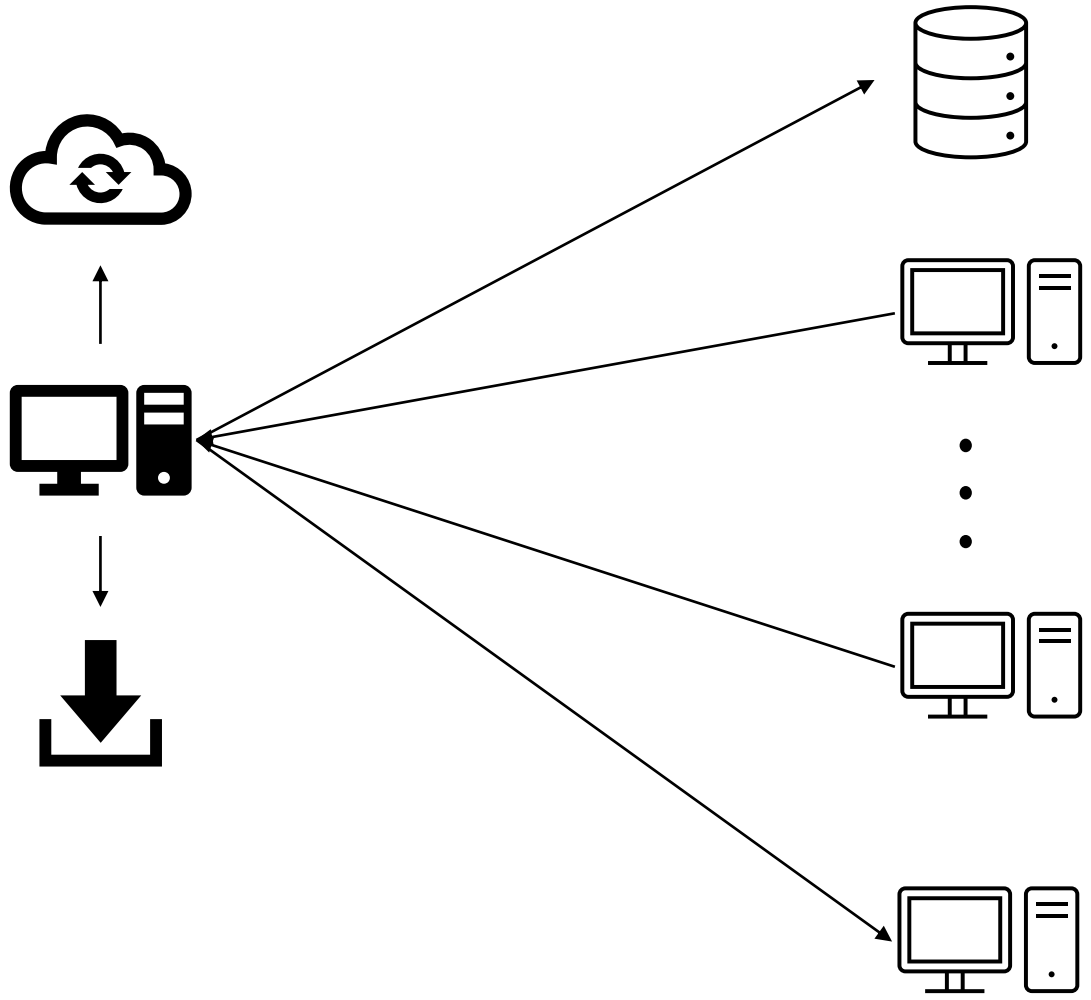
1. Access from script to individual workstation or logger via SSH (Fabric, Paramiko)
2. Search for current file/folder
3. Strip data and metadata to NumPy/PANDAS/list objects
4. Generate NetCDF4/HDF5 structured file
5. Backup to HDD/Cloud

Option 2: Data uploaded to central workstation



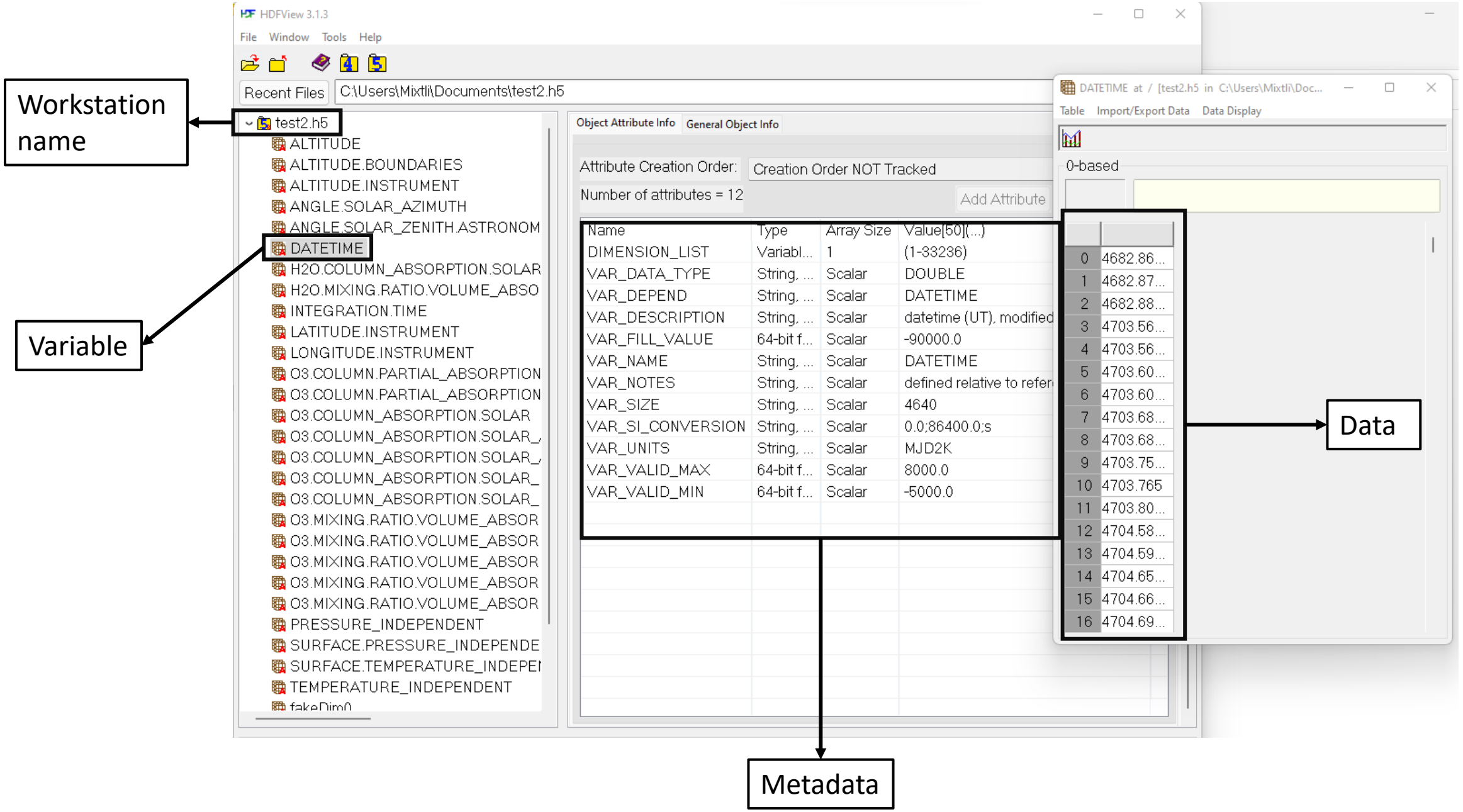
1. Access from script to folders (glob/os)
2. Search for current file/folder
3. Strip data and metadata to NumPy/PANDAS/list objects
4. Generate NetCDF4/HDF5 structured file
5. Backup to HDD/Cloud

Option 3: Mixed setup



1. Access from script to folders (glob/os). Access from script to individual workstation or logger via SSH (Fabric, Paramiko)
2. Search for current file/folder
3. Strip data and metadata to NumPy/PANDAS/list objects
4. Generate NetCDF4/HDF5 structured file
5. Backup to HDD/Cloud

NetCDF/HDF5 structure



Requirements

1. **Naming convention** (universal, by workstation/group/etc).
2. SSH availability, upload script/routine.
3. Period (hourly/daily/weekly,etc.) of accumulation. Time of accumulation (for constant HDF timestamp)
4. Static address/domain or updating list
5. Variable, metadata files to create structured datafile
6. …