ETL Validator Hardware Requirements & Architecture



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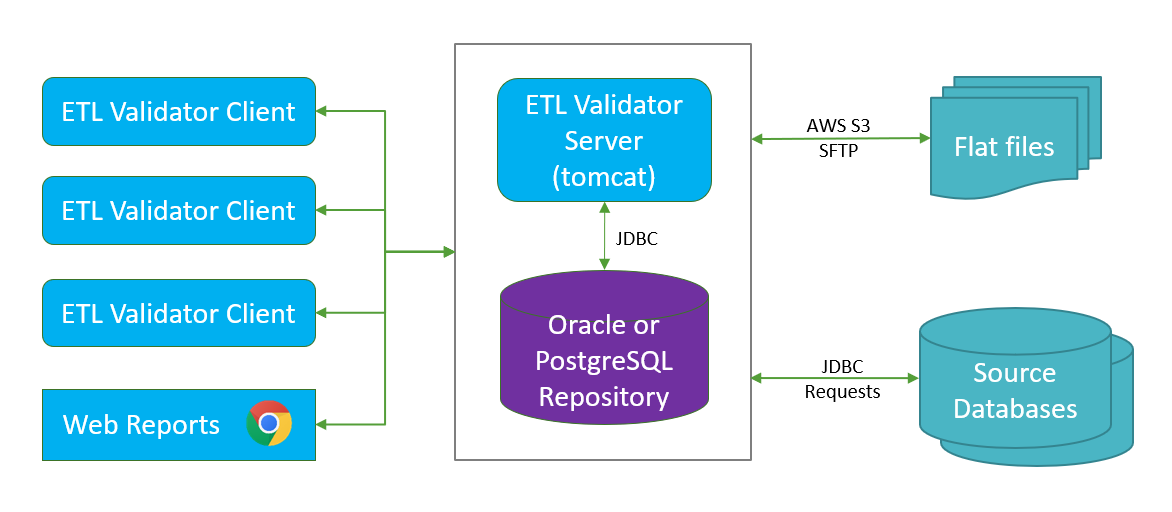
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# Purpose of the DOCUMENT

This document explains the architecture, hardware requirements and pre-requisites for deploying ETL Validator.

# ETL Validator

## ETL Validator Architecture



## ETL Validator Client

ETL Validator Client is Windows based thick client software.

* Operating System
  + Windows 10, Windows 2012 or later
* Hardware
  + Processor
    - Minimum: 4 Cores
    - Recommended: 8 Cores
  + Memory (RAM)
    - Minimum: 8 GB
    - Recommended: 16 GB or more
  + Hard drive
    - Minimum: 10 GB of free hard-disk space for program installation and operation
  + Display Resolution:
    - Minimum: 1366x768
    - Recommended: 1920x1080

## ETL Validator Server

ETL Validator's server consists of Reporting and Server archive files that can be deployed on Apache Tomcat and PostgreSQL database

* Software
  + Java 1.8 (comes bundled with ETL Validator Complete)
  + Tomcat 9 or later (comes bundled with ETL Validator Complete)
  + PostgreSQL 10.x or Oracle 12c/18c/19c as Repository/Workschema
* Operating System
  + Linux or Windows Operating System
* Hardware
  + Processor
    - Minimum: 8 Cores
    - Recommended: 16 Cores or better
  + Memory (RAM)
    - Minimum: 16 GB RAM
    - Recommended: 64 GB (ECC) or more
  + Hard Disk
    - Minimum: 500 GB SSD
    - Recommended: RAID. Size is dependent on the volume of data being tested. Typically, the size needed is 2.5 times the volume of data being compared.
  + Network
    - Minimum: 1 Gb
    - Recommended: 10 Gb

## Repository and Work Schema (Database Users)

PostgreSQL: Repository and Workschema databases come out of the box as part of ETL Validator Complete.

Oracle: Two oracle users (one for repository and the other for workschema) should be created. Details on the users and their permissions can be found in the knowledge base post below:   
<http://datagaps.freshdesk.com/support/solutions/articles/1000155087-oracle-repository-and-workschema-requirements>