# ETL Validator & BI Validator: Hardware Requirements & Pre-requisites

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# Purpose of the Document

This document explains the hardware requirements and pre-requisites for ETL Validator and BI Validator.

# ETL VALIDATOR

## Client

This is Windows based and is a thick client. Supported versions are:
Windows Server 2008 or later (virtual or physical), Windows 10, Windows 7.

- Hardware
  - Processor
    - Minimum: Dual-Core Processor
    - Recommended: Quad-Core Processor
  - Memory (RAM)
    - Minimum: 4 GB
    - Recommended: 8 GB or more
  - Hard drive
    - Minimum: 2 GB of hard-disk space for program installation and operation
  - Display dimensions:
    - Minimum: 1366x768
    - Recommended: 1920x1080

## Server

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

- Java 1.8 (comes bundled with ETL Validator Complete)
- Tomcat 8 or later (comes bundled with ETL Validator Complete)
- PostgreSQL 10.3 or Oracle 11g/12c as Repository/Workschema
- Hardware
  - Processor
    - Minimum: Quad-Core processor
    - Recommended: Dual Quad-Core processor 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

## Pre-Reqs

Microsoft .Net 4.5.1 Framework.  Here is a [link](link):


## Repository and Work Schema (Database Users)

PostgreSQL: Repository and Workschema users 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

# BI VALIDATOR

## Desktop

BI Validator Desktop is a Windows based thick client. Supported versions are: Windows Server 2008 or later (virtual or physical), Windows 10, Windows 7.

- Hardware
  - Processor
    - Minimum: Dual-Core Processor (3 GHz)
    - Recommended: Quad-Core Processor
  - Memory (RAM)
    - Minimum: 4 GB
    - Recommended: 8 GB or more
  - Hard drive
    - Minimum: 2 GB of hard-disk space
  - Display dimensions:
    - Minimum: 1366x768
    - Recommended: 1920x1080

Note: Stress testing may require additional hardware depending on the number of concurrent users being simulated. The above recommended configuration should be sufficient for simulating 50 to 100 concurrent users.

## Server

BI Validator Server consists of Reporting and Server archive files that can be deployed on Apache Tomcat and PostgreSQL database.

- Java 1.8 (comes bundled with the BI Validator Server install)
- Tomcat 8 (comes bundled with the BI Validator Server install)
- Supported OS: Windows Server 2008 or later (virtual or physical)
- Hardware
  - Processor
    - Minimum: Dual-Core processor (3 GHz)
    - Recommended: Quad-Core processor or better
  - Memory (RAM)
    - Minimum: 16 GB RAM
    - Recommended: 32 GB (ECC) or more
  - Hard Disk
    - Minimum: 500 GB SSD
    - Recommended: RAID. Size is dependent on the volume of data being tested.
  - Network
    - Minimum: 1 Gb
    - Recommended: 10 Gb

## Pre-Reqs

Microsoft .Net 4.5.1 Framework.  Here is a [link](#):

## Repository

PostgreSQL : The server/desktop install come with the PostgreSQL 10.3 database.

Oracle : Below privileges are required for the Oracle user hosting BI Validator Repository.

CREATE USER bivalidator IDENTIFIED BY bivalidator;

GRANT CONNECT, RESOURCE, CREATE SESSION, CREATE TABLE, CREATE VIEW, CREATE SEQUENCE, CREATE

PROCEDURE, CREATE TYPE, CREATE SYNONYM TO bivalidator;

ALTER USER bivalidator DEFAULT ROLE NONE;


GRANT CREATE TRIGGER, ALTER ANY TABLE, ALTER ANY PROCEDURE TO bivalidator;