BI Validator Hardware Requirements & Architecture



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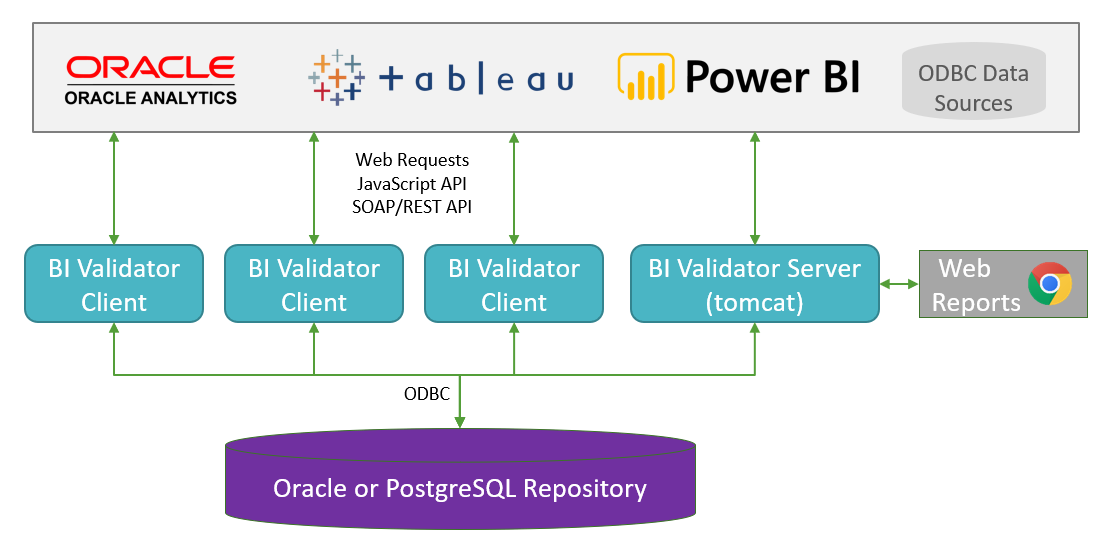
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# Purpose of the DOCUMENT

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

# BI Validator

## BI Validator Architecture



## BI Validator Client

BI Validator Desktop is a Windows based thick client.

* Operating System
  + Windows Server 2012 or later (virtual or physical), Windows 10
* Hardware
  + Processor
    - Minimum: 4 Cores
    - Recommended: 8 Cores
  + Memory (RAM)
    - Minimum: 8 GB
    - Recommended: 16 GB or more
  + Hard drive
    - Minimum: 20 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 enough for simulating 50 concurrent users.

## BI Validator Server

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

* Java 1.8 (comes bundled with the BI Validator Server install)
* Tomcat 9 or later (comes bundled with the BI Validator Server install)
* Operating System
  + Windows Server 2012 or later (virtual or physical)
* Hardware
  + Processor
    - Minimum: 8 Cores
    - Recommended: 12 Cores 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

## BI Validator 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;