Software Technical Specification Document

Data Intelligence Suite (DI) & Business User Portal (BUP)

This document provides an overview of the hardware and software specs required for the deployment of the erwin Data Intelligence and BUP web applications within a customer's landscape.

SYSTEM AND SOFTWARE SPECIFICATIONS

DATA INTELLIGENCE (DI) SUITE

Server Hardware Specs

Type of Server	Dedicated Standalone server or VM
Processor	64 Bit
Cores	4 cores minimum
RAM	16 GB – for limited user POCs 32-64 GB – for enterprise production deployment Increase as needed or introduce load balancing depending on the number of users
Hard Drive	200 – 300 GB minimum

Software Compatibility

Operating Systems	• Microsoft Windows – Windows 10, Windows Server 2012 and above • Linux - v4.19 and above • Amazon Linux 2 • RHEL - 6.6, 7.2
Supported Databases	• SQL Server – 2012, 2014, 2016, 2017, 2019, AWS RDS, Azure SQL Server • Oracle – 12c, 18c, 19c
Web Browsers	• Google Chrome – v28.0 or higher • Firefox – v16.0 or higher • Edge – v44x
Supported Web Servers	• Apache Tomcat - v8.5.35/41/51
Java Version	• Oracle JRE 1.8.0_192/242 (or) Open Adapt JDK-8.0.202.08

Server Hardware Specs

Type of Server	Same server as DI (Dedicated Standalone server/VM)
Processor	64 Bit
Cores	4 cores minimum
RAM	16 GB - for limited user POCs 32 - 64 GB – for enterprise production deployment - Calculate and add RAM size for BUP on top of the DI RAM size already allocated - Increase as needed or introduce load balancing depending on the number of users
Hard Drive	200 – 300 GB minimum

Software Compatibility

Operating Systems	- Microsoft Windows – Windows 10, Windows Server 2012 and above - Linux - v4.19 and above - Amazon Linux 2 - RHEL - 6.6, 7.2
Supported Databases	- SQL Server – 2012, 2014, 2016, 2017, 2019, AWS RDS, Azure SQL Server - Oracle – 12c, 18c, 19c
Web Browsers	- Google Chrome – v28.0 or higher - Firefox – v16.0 or higher - Edge – v44x
Supported Web Servers	Apache Tomcat - v8.5.35/41/51
Java Version	Oracle JRE 1.8.0_192/242 (or) Open Adapt JDK-8.0.202.08

Memory Allocation to the Web Server (for DI)

For DI, allocate as much memory to tomcat based on physical RAM of the server.

E.g. If the server has a 32 GB RAM, the tomcat web server needs to be allocated a minimum of 50% of the server RAM to begin with i.e. 16 GB minimum. The higher the memory allocation, the better for the functioning of the application.

An example of the recommended Memory allocation to Tomcat would look as follows

Deployment Type	Physical RAM on Server	Allocation to Tomcat
POC	16 GB	➢ 10 – 12 GB
Production Install	32 GB	➢ 16 - 24 GB

Memory Allocation to the Web Server (for BUP)

If BUP is being deployed, allocate as much memory to tomcat based on physical RAM of the server. Ideally, around 60-70% of the physical RAM.

Please note that this allocation is on top of the memory that has already been allocated to DI.

E.g. If the server has a 32 GB RAM, the tomcat web server needs to be allocated a minimum of 50% of the server RAM to begin with i.e. 16 GB minimum. The higher the memory allocation, the better for the functioning of the application.

An example of the recommended Memory allocation to Tomcat would look as follows

Deployment Type	Physical RAM on Server	Allocation to Tomcat
POC	16 GB	➢ 10 – 12 GB
Production Install	32 GB	➢ 16 - 24 GB

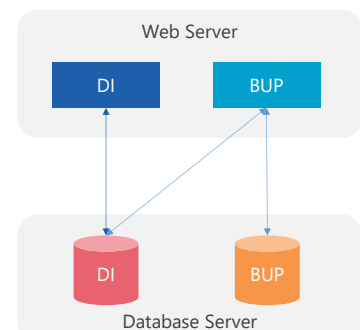## RECOMMENDED CONFIGURATION FOR ENTERPRISE DEPLOYMENTS:

For good performance, as a rule of the thumb, we recommend about a minimum of 0.5 GB space per user on the application server. This is taking into account the DI and BUP users as a whole. If you have 30 users simultaneously logging in, then the application server would need to have a minimum of 15 GB (30*0.5=15) free RAM space allocated to it. This is not the RAM of the server machine and is the physical RAM allocated to the application server itself. The RAM needs to be increased as the number of users increase and load balancing needs to be introduced on the web server if the number of users exceed 100+ concurrent logins.

DATABASE SERVER SPECS

Dual Core or higher. DI and BUP require their own database/schema areas (*and NOT dedicated database instances*). Both databases/schemas can exist on the same physical database server and in the same single database instance. The recommendation is to allocate a database or schema (Oracle or SQL Server) with a minimum of 50GB tablespace with the expectation that the size will increase over time as the usage increases.

Database Server Specs:

Type of Server	Dedicated Standalone server
Processor	64 Bit
Cores	4- 8 cores minimum
RAM	16 - 32 GB
Hard Drive	250 – 500 GB
Tablespace	Min 50 GB

Web Server — DI, BUP / Database Server — DI, BUP

END-USER LAPTOP/DESKTOP SPECS

Minimum i3 processor or higher, min 8 GB RAM.

NOTE: The CPU should have minimum 1GB RAM free space while accessing the DI application via web browser. e.g. If you have a 4GB laptop and any application is occupying 100%CPU space, then the DI web pages will not load until some physical memory is freed up.