System Requirements

ⓘ BellaDati is a web application. It is available as a cloud-based service or can be deployed on a central server in your organization. End users access BellaDati using a web browser from any client computer.

This page describes the supported platforms for **BellaDati 2.x**.

✓ If you are looking for BellaDati IoT Data Collector system requirements, open System Requirements (IoT Data Collector) instead.

Client

You can access BellaDati from a variety of platforms without having to install any specific software. Only a web browser is necessary.

Requirements

- Supported browser (see table on the right).
- JavaScript and cookies need to be enabled in the browser.
- Adobe Flash 9+ (only required for Internet Explorer 8 and older).
- Display width of 1024 pixels or larger.
- Broadband internet access (intranet access for on-premise installation).
- Applications for viewing exported files (PDF, XLS, PPT, PNG).

For an optimal user experience, we recommend using at least Internet Explorer 9 or any other supported browser.

Browser	Supported Versions
Google Chrome	any
Mozilla Firefox	3+
Microsoft Edge	any
Internet Explorer	8+ (version 7 support is limited)
Safari	5+
Opera	15+

Server

This section lists the requirements for an on-premise installation of BellaDati. If you are using BellaDati Cloud, these requirements do not apply to you.

Hardware

In an on-premise environment, a BellaDati installation consists of an application server and a database. These can run on the same computer or on different machines. For evaluation purposes, it is usually sufficient to run both server and database on the same computer, e.g. a developer workstation.

BellaDati hardware requirements mainly depend on the amount of data being processed and the number of concurrent requests during peak hours. To ensure optimal performance under any circumstances, we group our hardware requirements in 3 tiers depending on usage characteristics. Please note that even so, these configurations can only be guidelines and actual performance can heavily depend on your usage pattern.

✓ We would appreciate if you could let us know what hardware configuration works in your environment. Please create a ticket in our support system, describing your hardware configuration as well as the number of users and data records in your BellaDati installation.

Minimal recommended configuration

This configuration is recommended for a **less than 20 users** analyzing **thousands of records**. We strongly suggest using this kind of configuration **for basic demo purposes only.** Please verify that target machine meets following minimal configuration, because BellaDati needs sufficient resources (free RAM, CPU, free disk space) to run correctly.

CPU	4x 2 GHz 64-bit Intel Xeon or comparable

RAM	8 GB
Disk	30 GB, SSD
Network	10 Mbps

Medium-load Configuration

This configuration is recommended for a **20-500 users** analyzing **millions of records**. We recommend running the application server and database on different machines for this configuration.

Application Server

CPU	4x 2 GHz 64-bit Intel Xeon or comparable
RAM	8 GB
Disk	100 GB, SSD
Network	100 Mbps

Database Server

CPU	4x 2 GHz 64-bit Intel Xeon or comparable
RAM	18 GB
Disk	200 GB, SSD
Network	100 Mbps

High-load Configuration

This configuration is recommended for a **500+ users** analyzing **hundreds millions of records**. We strongly recommend running the application server and database on different machines for this configuration.

2 x Application Server

CPU	8x 2.4 GHz 64-bit Intel Xeon or comparable
RAM	12 GB
Disk	100 GB, SSD
Network	1 Gbps

2 x Database Server

CPU	8x 2.4 GHz 64-bit Intel Xeon or comparable
RAM	32 GB
Disk	500 GB SSD
Network	1 Gbps

Operating System

BellaDati can run on any operating system for which a supported Java application server is available. Such operating systems include:

- Microsoft Windows Server 2016
- Microsoft Windows Server 2012
- Microsoft Windows Server 2008
- Microsoft Windows Server 2003
- Microsoft Windows 10
- Microsoft Windows 8
- Microsoft Windows 7 (manual installation only)
- Linux distributions (e.g. SuSE Linux, RedHat, CentOS, Ubuntu 18(20), Amazon Linux, Debian, Fedora)
- Solaris

Java Application Server

BellaDati is distributed in a WAR archive that runs on a Java application server. The following application servers have been verified to work with BellaDati:

ⓘ Java application server is included in all-in-one installation packages. You need it only if you consider a manual installation.

Server	Supported Versions
GlassFish	4.1, 4.1.1, 4.1.2, 5.0.1 (5.0.1 Web Profile is recommended)
Jetty	7 or higher (version 9+ is recommended)
Apache Tomcat	7 or higher (version 9+ is recommended)
Payara	5 or higher

BellaDati is a pure Java application and should run on any platform and application server that supports Java.

ⓘ Starting with BellaDati 2.10 Java 11 is required and Payara is supported instead of GlassFish

ⓘ Java 8 and Glassfish will be fully supported until February 17th, 2023

ⓘ BellaDati officially supports **Oracle Java**, **OpenJDK** and its distributions, such as AdoptOpenJDK,Amazon Corretto.

ⓘ **Headless** version of Java is not supported.

Database

Database engine is automatically installed for installations on Windows.

For these cases installer contains all needed files, deploys PostgreSQL and start database server.

In other cases database server must be installed and running before BellaDati instalation.

BellaDati creates its own data warehouse structure.

The following database servers have been verified to work with BellaDati:

PostgreSQL

Version	General Availability	End of Support
PostgreSQL 12	from BellaDati 2.10	--
PostgreSQL 10	from BellaDati 2.9.9	6 months after BellaDati 2.10 release
PostgreSQL 9.6	from BellaDati 2.8.5	from BellaDati 2.9.12.1

Microsoft SQL Server

Version	General Availability	End of Support
Microsoft SQL Server 2017	from BellaDati 2.9.11	--
Microsoft SQL Server 2016	from BellaDati 2.9.11	--
Microsoft SQL Server 2012	from BellaDati 2.9.11	--

⚠ Please note that **Oracle** database is supported by BellaDati on request.