



# 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
<a href="#">Google Chrome</a>	any
<a href="#">Mozilla Firefox</a>	3+
<a href="#">Microsoft Edge</a>	any
<a href="#">Internet Explorer</a>	8+ (version 7 support is limited)
<a href="#">Safari</a>	5+
<a href="#">Opera</a>	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.

<b>CPU</b>	4x 2 GHz 64-bit Intel Xeon or comparable
<b>RAM</b>	8 GB
<b>Disk</b>	20 GB, SSD
<b>Network</b>	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

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

### Database Server

<b>CPU</b>	4x 2 GHz 64-bit Intel Xeon or comparable
<b>RAM</b>	18 GB
<b>Disk</b>	200 GB, SSD
<b>Network</b>	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

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

### 2 x Database Server

<b>CPU</b>	8x 2.4 GHz 64-bit Intel Xeon or comparable
<b>RAM</b>	32 GB
<b>Disk</b>	500 GB SSD
<b>Network</b>	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 16, Amazon Linux, Debian, Fedora)
- Solaris
- Mac OS X

If you are evaluating BellaDati on Windows or Mac OS X, you can use the [Windows](#) and [Mac](#) installers. This way, you don't need to manually install Java, an application server, or a database. You can skip the rest of this document when using the Windows or Mac installer.

## 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
<a href="#">GlassFish</a>	4.1, 4.1.1, 4.1.2, 5.0.1 (5.0.1 Web Profile is recommended)
<a href="#">Jetty</a>	7 or higher (version 9+ is recommended)
<a href="#">Apache Tomcat</a>	7 or higher (version 9+ is recommended)

BellaDati is a pure Java application and should run on any platform and application server that supports [Java 8](#).

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

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

## Database

Database engine is automatically installed for installations on Windows , on Mac in regime "Installing with Built-in Database.

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:

Database	Supported Versions
<a href="#">PostgreSQL</a>	9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 10 (from BellaDati 2.9.9)
<a href="#">Microsoft SQL Server</a>	2012, 2016, 2017 (from BellaDati 2.9.11)



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