

SYSTEM HARDWARE & SOFTWARE REQUIREMENTS

Valid only for Self-Hosted installations

In this document, you'll find recommendations for the software and hardware needed to take full advantage of Key Survey. Following these recommendations will ensure the application remains stable and secure.

System Software Requirements

At a minimum, you must deploy the Key Survey platform on a server with the following software installed: an operating system with Java Runtime Environment (JRE), an application server, and a database server.

For security and performance reasons, we recommend using a web server to route traffic to the application.

Some of the application functions require Simple Mail Transfer Protocol (SMTP) servers to distribute emails, resolve domain names, and validate email addresses.

Although all of the system components may be installed on a single physical server, we highly recommend that you deploy the database server and the web server (if one is used) on separate physical hardware.

You may also deploy the Key Survey platform in a virtual environment. However, performance may decrease compared to a system deployed on a separate physical machine.

Operating System	<ul style="list-style-type: none">Any 64 bit OS compatible with Oracle Java JRE/JDK 1
Web Server (optional)	<ul style="list-style-type: none">Apache HTTP server 2.2 or higher, IIS 10
Database Server	<ul style="list-style-type: none">MySQL 5.7 , 8.0MS SQL Server 2016Oracle 11g, 12c
Additional Software	<ul style="list-style-type: none">One (or more) SMTP server, DNS server

Minimum Hardware Requirements

The hardware required to run the Key Survey platform in production depends greatly on projected system activity (e.g. number of respondents, forms, reports and forms/reports complexity), as well as, the maximum number of concurrent requests that the system will experience during the peak hours.

Hardware requirements outlined below represent the minimum hardware that is required to get the system up and running and collecting a few thousands of form submissions daily.

Processor	<ul style="list-style-type: none"> • Intel x86 64-bit or AMD64 architecture is supported • Multicore processors 2GHz frequency or higher are recommended
Memory	<ul style="list-style-type: none"> • 8GB minimum is sufficient for most use cases. The systems where high load is expected may require more memory. NOTE! 8GB of RAM will be allocated to Tomcat service only and you need to make sure you have additional memory on the Server for other processes (OS, etc.).
HDD	<ul style="list-style-type: none"> • It is recommended to install the Platform on a system where RAID is preconfigured. Two SCSI or SAS drives with 148GB capacity configured as a RAID 10 or external RAID system are recommended.
Database Space	<ul style="list-style-type: none"> • 200GB of free space for the database is sufficient for most use cases. However, the more data is collected with the platform, the more hard disk space will be required. It is recommended to plan provisioning of more disk space if large volumes of data will be collected using the Platform, it is also recommended to reserve space for replication and backups in the production systems.
Network Connectivity	<ul style="list-style-type: none"> • At least one dedicated IP address

If a firewall, software, or hardware is present that may prevent the platform from communicating with its required services (such as databases, NS servers, or SMTP servers) or from being accessed by users, you must configure exceptions to that hardware or software before installation. If you are using a web server, communication between the application and the web server should be allowed as well.

More details and requirements are provided in the instructions shipped with the installation package. Read these instructions carefully before rolling out the application.

Standard Installation Packages

Typically, Key Survey delivers its self-hosted solutions as a custom package that includes software, configuration, and installation instructions designed for the customer’s unique environment. However, delivering a customized deployment package can take some time, which is why general purpose installation packages are available at your convenience.

Pre-configured installation packages are readily available for certain configurations and may be delivered more rapidly than a custom package.

Key Survey platform version 8.16 installation packages are currently available for the following configurations and platforms:

Microsoft Windows based system	<ul style="list-style-type: none"> • Web Server (optional): Microsoft IIS 10 • Operating System for Application server: <ul style="list-style-type: none"> ○ Microsoft Windows Server 2016 • Application Server: Apache Tomcat 9 • Database: Microsoft SQL Server 2016
Linux based system	<ul style="list-style-type: none"> • Web Server (optional): Apache Web Server 2.2 • Operating System for Application Server: <ul style="list-style-type: none"> ○ Linux (Red Hat Enterprise Linux is recommended) • Application Server: Apache Tomcat 9 • Database: MySQL 5.7

Packages include application binaries, configuration templates, database data structures, initial installation data, instructions, and a manual for the installation. All files are compressed and available for download upon request.

For all other system configurations, Key Survey provides a custom deployment package with optimized configuration settings and detailed installation instructions.