

# System Requirements Server

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EN

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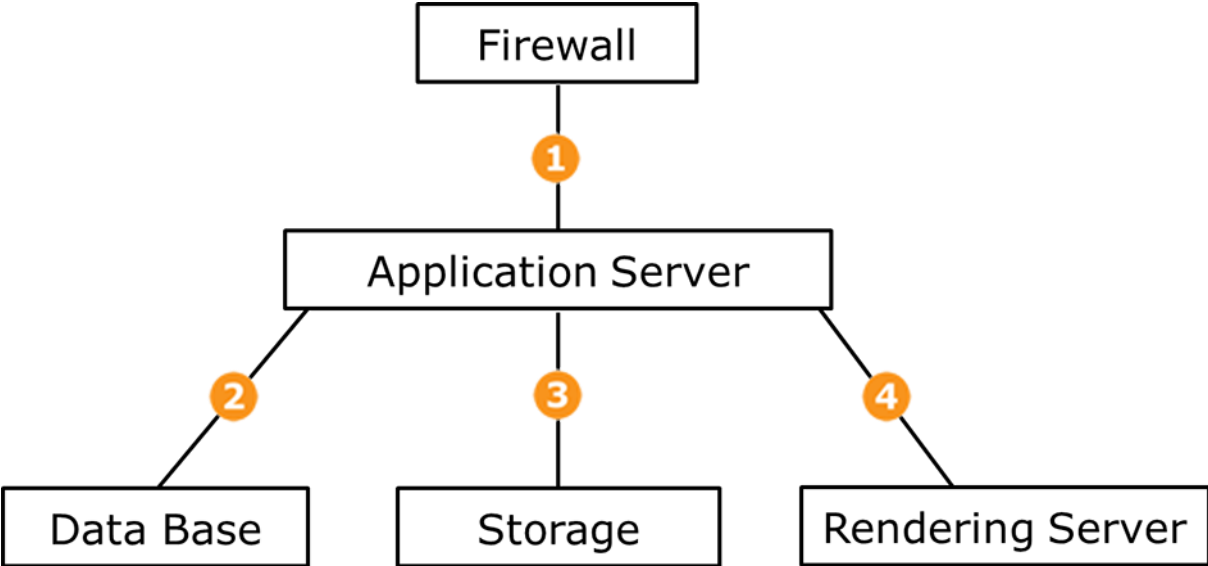
### Presentation

Orange table rows show, which values have changed since the last version.

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# 1 Structure



## 2 Application server


The application server provides the BrandMaker functionality. Except of the BrandMaker application and the additional application components no other applications are allowed to be installed.

If your system does not fulfil the following requirements, you may experience functional limitations in the BrandMaker application.


<b>Server</b>	*.yourdomain.com (Only one URL is supported.)
<b>Certificate</b>	SSL Certificate to secure the communication (mandatory)
<b>Standard Ports</b>	Incoming: HTTPS-Port 443   HTTP-Port 80 redirected to Port 443 Outgoing: SMTP 25 Outgoing: HTTP and HTTPS requests, direct or via transparent proxy server (no auth. proxy) Incoming internal: Application Server Debug-Port 64123 Incoming internal: JMX Incoming internal: SNMP Incoming internal: ElasticSearch-Port 9200 Incoming internal: CIFS Ports 137, 138, 139, 445 Outgoing internal: MySQL 3306, MS SQL 1433 Outgoing internal: BrandMaker Rendering-Port 5500+n (instances)
<b>Supported operating mode</b>	Virtual Machine or hardware-based Server
<b>Supported operating systems</b>	UBUNTU 16.04 LTS
<b>Processor</b>	CPU: 4 Cores, 2,5 GHz or higher
<b>Main memory</b>	at least 20 GB RAM
<b>Memory requirement</b>	at least 100 GB for applications and log files
<b>Local data base</b>	Additionally, at least 16 GB RAM Additionally, at least 100 GB HDD for database files
<b>Network connectivity</b> 2, 3, 4	1 GBit/s (particularly towards database 2 and storage 3)
<b>Internet connection</b> 1	at least 100 MBit/s

### 3 Rendering server


Rendering server is only required for Adobe InDesign and document conversion support - Single Instance License. Brand Template Builder and rendering performance depend on hardware performance of rendering server.

<b>Supported operating mode</b>	Hardware-based server
<b>Supported operating systems</b>	Windows Server 2016
<b>Processor</b>	CPU: 2 Cores, 2,5 GHz or higher
<b>Memory requirement</b>	at least 16 GB RAM; plus 2-8 GB per additional instance
<b>HDD requirement</b>	at least 100 GB for applications and log files
<b>Standard ports</b>	Outgoing internal: CIFS Ports 137, 138, 139, 445 Incoming internal: BrandMaker Rendering-Port 5500+n (instances)
<b>Througput</b>	ca. 100 rendering jobs/400 pages per hour
<b>Network connectivity</b> 	1 GBit/s
<b>Adobe InDesign Server</b>	CS 6, CC 2014 (10.x), CC 2015 (11.x), CC 2017, CC 2018, CC 2019, CC 2020, CC 2021
<b>Adobe Flash Player</b>	Not supported
<b>Microsoft Office</b>	Microsoft Office 2013 (Word, Excel, PowerPoint) installed and licensed
<b>Internet connection</b>	Internet connection and registration are required for software activation, membership validation, and access to online services.

## 4 Dedicated database server

<b>Supported operating mode</b>	Hardware-based server
<b>Database</b>	MySQL 5.7 Server Enterprise
<b>Processor</b>	CPU: 4 Cores, 2,5 GHz or higher
<b>Memory requirement</b>	at least 16 GB RAM
<b>HDD requirement</b>	at least 100 GB for database files
<b>Network connectivity</b> 	1 GBit/s
<b>Standard ports</b>	Incoming internal: MySQL 3306
<b>MySQL – JDBC – Driver</b>	Version 8.0.21

## 5 Media Asset File Share

<b>Storage requirement</b>	at least 250 GB
<b>Network connectivity</b> 	1 GBit/s respectively at least 80 MB/s transfer speed
<b>Network connection mode</b>	SMB (/CIFS) 3.0 or local files system
<b>Files/Folder</b>	Support of at least 1 billion files/folder (like NTFS: $2^{32} - 1$ )

Please calculate the storage capacity generously, because the system stores preview data and cache files in addition to the media data. Please consider: previews of files require additional storage (image files +30 % and Office documents up to +150 %).

## 6 SMTP-Server

The BrandMaker server needs access to a SMTP server. The e-mail distribution with specified e-mail sender address must be enabled.

## 7 Additional Application Components

The BrandMaker Marketing Efficiency Cloud has been developed and tested with below listed components and versions. No other versions or combinations are supported.

Component	Version
Operating system	UBUNTU 20.04 LTS
Web Server	Apache 2.4.41
Application Server	WildFly 10.1.0
JDK	Java 8 (OpenJDK Runtime Environment 1.8 from ubuntu-distribution)
Document Converter	Neevia Document Converter Pro 6.8
Video Transcoding	FFmpeg 2.8.x
Image Processing	ImageMagick 6.8.9
PostScript Interpreter	GhostScript 9.06
PDF-to-X	poppler-utils 0.41.0 (pdftocairo)
Content Management System	Magnolia EE 6.2.2
Metadata Processing	ExifTool 12.30
Adobe InDesign Server	CS 6, CC 2014 (10.x), CC 2015 (11.x), CC 2017, CC 2018, CC 2019, 2020, 2021
Reporting	Jaspersoft Enterprise Server 7.1.0
Reporting	Tableau Server, Version 2020.4.0 Linux Note: on-premises, please contact BrandMaker
Web Page Preview Service	wkhtmltopdf 0.12.5
Web Processing	PhantomJS 2.1.1 Puppeteer 4.0.0
Search Engine	Elastic Search 1.7.3
Language Center	Across 6.4
Web Text Editor	CKEditor 4.7.2 (embedded)
Docker Runtime	18.x. For running containers
Workflow Engine Container	Camunda 7.10
Media System Service	FileProcessor 1.4.0
Media System Service	FileUploadService 1.1.0



<b>Component</b>	<b>Version</b>
<b>Product Container</b>	Wildfly
<b>HTTP Server Container</b>	Apache HTTP
<b>Search Container</b>	Elastic Search
<b>Message Broker</b>	Artemis 2.11.0
<b>Identity and Access Management Container</b>	KeyCloak 16.1.0
<b>Service Adapter</b>	Mediasystem Service Adapter 1.1.1