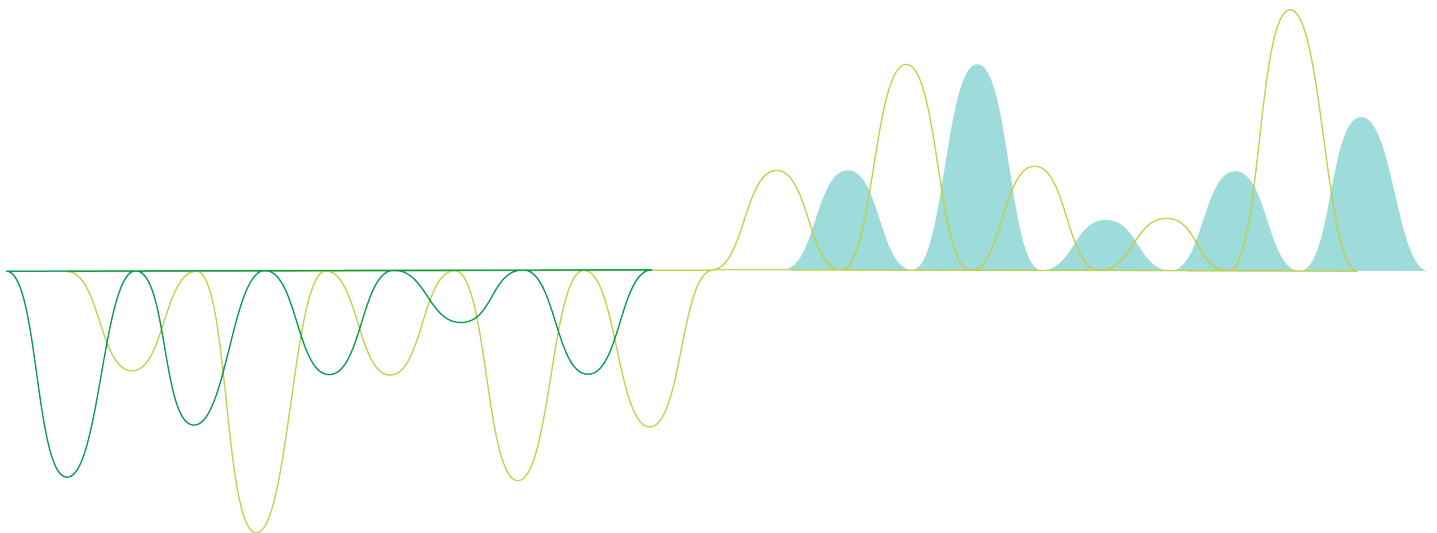


# System requirements for Qlik Sense

Qlik Sense®

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## 1 System requirements for Qlik Sense Enterprise



This section lists the requirements that must be fulfilled by the target system in order to successfully install and run Qlik Sense.

### 1.1 Qlik Sense Enterprise on Windows

Qlik Sense Enterprise on Windows requirements

Item	Requirements
<b>Platforms</b>	<ul style="list-style-type: none"><li>• Microsoft Windows Server 2012 R2</li><li>• Microsoft Windows Server 2016</li><li>• Microsoft Windows Server 2019</li></ul> <p>For development and testing purposes only:</p> <ul style="list-style-type: none"><li>• Microsoft Windows 10 (64-bit version only)</li></ul> <div> <i>These operating systems are supported by Qlik Sense. Third-party software may require service packs to be installed.</i></div>
<b>Processors (CPUs)</b>	<p>Multi-core x64 compatible processors</p> <p>Advanced Vector Extensions (AVX) support</p> <p>We recommend that you use at least 4 cores per node in a Qlik Analytics Platform deployment.</p>
<b>Memory</b>	<p>8 GB minimum (depending on data volumes, more may be required)</p> <p>Qlik Sense is an in-memory analysis technology. The memory requirements for the Qlik Sense products are directly related to the amount of data being analyzed.</p>
<b>Disk space</b>	5.0 GB total required to install
<b>Disk share</b>	SMB & NFS

# 1 System requirements for Qlik Sense Enterprise

Item	Requirements
Storage	<ul style="list-style-type: none"><li>• A network file share is required for the storage to be accessible by all servers in the site. In case of a single-server deployment, local disk storage may be sufficient.</li><li>• Sufficient storage is required for the volume of apps and content used in the deployment.</li></ul> <div> <i>Qlik periodically runs network file share performance tests on Qlik Sense using WinShare, and FreeNAS with SMB 3.0. For more information on network file share solutions, contact your Qlik representative.</i></div>
Security	<ul style="list-style-type: none"><li>• Microsoft Active Directory</li><li>• Microsoft Windows Integrated Authentication</li><li>• Third-party security</li></ul>
WebSockets	Web browsers and infrastructure components (such as proxies and routers) must support WebSockets.
.NET framework	4.8 or higher
PowerShell	4.0 or higher
Repository database  Centralized logging database	<p>PostgreSQL 12.x (included in the installer), 11.x (not included in the installer), 9.6 (not included in the installer)</p> <p>PostgreSQL is included in the Qlik Sense setup by default. However, you can also download and install it manually.</p> <p>Microsoft Visual C++ 2015-2019 Redistributable (x64) is needed for PostgreSQL version 12.5.</p> <div> <i>The version of PostgreSQL 12.x installed with Qlik Sense does not include pgAdmin tools. You can download and install them manually if required.</i></div> <p>PostgreSQL is an open source object-relational database management system. It is released under the PostgreSQL license, which is a free and open source software license.</p>
Internet protocol	<ul style="list-style-type: none"><li>• IPv4</li><li>• IPv6</li><li>• Dual stack (IPv4 and IPv6)</li></ul>
Network	The configured hostname must resolve to an IP address on the host machine.

# 1 System requirements for Qlik Sense Enterprise

Item	Requirements
<b>Qlik Management Console (QMC), supported browsers</b>	<p>The following browsers are supported for accessing the QMC.</p> <p>Supported Microsoft Windows browsers:</p> <ul style="list-style-type: none"> <li>• Microsoft Edge (only for Microsoft Windows 10)</li> <li>• Google Chrome</li> <li>• Mozilla Firefox (requires hardware acceleration, not supported in virtual environments)</li> </ul> <p>CefSharp embedded browser v55 or later (CefSharp allows you to embed the Chromium open source browser inside .Net apps)</p> <p>Supported Apple Mac OS browsers:</p> <ul style="list-style-type: none"> <li>• Apple Safari 10 or later</li> <li>• Google Chrome</li> <li>• Mozilla Firefox (requires hardware acceleration, not supported in virtual environments)</li> </ul>
<b>QMC, minimum screen resolution</b>	<p>Desktops, laptops, and Apple Mac: 1024x768</p> <p>No mobile or small screen support.</p>
<b>QlikView compatibility</b>	<p>It is not possible to install Qlik Sense on a machine with QlikView Server already installed.</p>
<b><a href="#">Insight Advisor Chat</a></b>	<p>Natural Language Processing (NLP) support for Insight Advisor requires a CPU that supports Advanced Vector Extensions (AVX) instructions. To find out if your CPU supports AVX, download <a href="#">Coreinfo v3.5</a> from Microsoft to view your CPU and memory topology.</p> <p>Coreinfo v3.5 - Dump information on system CPU and memory topology Copyright (C) 2008-2020 Mark Russinovich Sysinternals - <a href="http://www.sysinternals.com">www.sysinternals.com</a> ...</p> <pre> Intel(R) Core(TM) i7-9850H CPU @ 2.60GHz Intel64 Family 6 Model 158 Stepping 13, GenuineIntel Microcode signature: 000000CA HTT          *      Hyperthreading enabled HYPERVISOR   *      Hypervisor is present ... AES          *      Supports AES extensions <b>AVX</b>        *      <b>Supports AVX instruction extensions</b> FMA          *      Supports FMA extensions using YMM state ... Logical Processor to Group Map: ***** Group 0 </pre>

# 1 System requirements for Qlik Sense Enterprise





*We do not recommend that you install Qlik Sense on domain controller machines, as group policies may prevent Qlik Sense from getting access to required services.*



*License activations request access to the Qlik Licensing Service. Open port 443 and allow outbound calls to [license.qlikcloud.com](https://license.qlikcloud.com). Use of a proxy is supported. For more information about setting up a proxy service in Windows, see [Configuring a proxy for Qlik Licensing Service communication in Qlik Sense Enterprise on Windows](#).*

## 1.2 Qlik Sense Enterprise SaaS

### Qlik Sense Enterprise SaaS requirements

Maximum app size (in memory)	5 GB
	<p>You can evaluate memory allocation of an app in the cloud hub.</p> <div><p><i>To monitor your in-memory app size and memory usage over time, use the  <a href="#">App Analyzer for Qlik SaaS</a>.</i></p><ul style="list-style-type: none"><li><i>This app is provided as-is and is not supported by Qlik Support.</i></li><li><i>Always use the latest version of the app.</i></li><li><i>Qlik does not collect any information when using the App Analyzer for Qlik SaaS.</i></li></ul></div>
Total cloud storage	*Unlimited
Maximum concurrent reloads	*Unlimited
Maximum reloads per day	*Unlimited
WebSockets	Web browsers and infrastructure components (such as proxies and routers) must support WebSockets.



*\* Subject to restrictions described in the Qlik Sense License Metrics. You can find this document at [Qlik Product Terms](#).*

# 1 System requirements for Qlik Sense Enterprise



*When distributing to SaaS editions of Qlik Sense, your Qlik Sense Enterprise on Windows deployment must be either the current version or one of the previous two releases (starting from the June 2018 release).*

## 1.3 Qlik Sense Enterprise on Kubernetes

### Qlik Sense Enterprise on Kubernetes requirements

<b>Kubernetes environments</b>	<p>The Kubernetes environment must have Internet access to the Qlik Helm and Container Image repository.</p> <p>Kubernetes service vendors:</p> <ul style="list-style-type: none"><li>• Microsoft Azure using Azure Kubernetes Service (AKS)</li><li>• Amazon Web Services (AWS) using Amazon Elastic Container Service for Kubernetes (EKS)</li><li>• Amazon Web Services (AWS) deployed via Kubernetes Operations (KOPs)</li><li>• Google Cloud using Google Kubernetes Engine (GKE)</li><li>• Red Hat OpenShift 4+</li></ul> <p>Non-managed Kubernetes deployments:</p> <ul style="list-style-type: none"><li>• Kubernetes cluster greater than v1.10.x and less than v1.16.x</li></ul>
<b>Kubernetes package manager</b>	Helm greater than v2.12.0 and less than v2.15.x
<b>Local/Evaluation/Test environment</b>	<p>Windows: Minikube v0.33 +</p> <p>Red Hat MiniShift v1.21.0+</p> <p>Mac: Docker for Desktop with Kubernetes enabled: v2.0.0.3</p>
<b>Database</b>	MongoDB 3.6+
<b>File system</b>	Storage attached to the cluster that supports ReadWriteMany. This can be configured as a Storage Class or a Persistent Volume Claim
<b>Processors (CPUs)</b>	Minimum 4 cores (additional depending on data volumes)
<b>Memory</b>	Minimum 8 GB (additional depending on data volumes)
<b>Disk space</b>	5 GB total required to install
<b>IDP</b>	For user authentication an OIDC compatible IDP is required




# 1 System requirements for Qlik Sense Enterprise



*License activations request access to the Qlik Licensing Service. Open port 443 and allow outbound calls to [license.qlikcloud.com](https://license.qlikcloud.com).  
Use of a proxy is supported. For more information about setting up a proxy service on Kubernetes, see [Configuring a proxy for Qlik Licensing Service communication in Qlik Sense Enterprise on Kubernetes](#).*

## 1.4 Qlik Sense Mobile Client Managed app

### Qlik Sense Mobile Client Managed client managed requirements

<b>Qlik Sense Mobile Client Managed app device compatibility</b>	<ul style="list-style-type: none"><li>• 64-bit CPU architecture (ARM)</li><li>• RAM: 2 GB or more (Dependent on data size)</li><li>• Screen size: 720x1280 HDPI (267) or better</li></ul>
<b>Qlik Sense Mobile Client Managed app compatibility with Qlik Sense</b>	Qlik Sense February 2020 and later releases
<b>Qlik Sense Mobile Client Managed app Apple support</b>	<ul style="list-style-type: none"><li>• iOS 13 or later</li><li>• iPadOS 13 or later</li></ul> <div><i>Qlik Sense Mobile Client Managed client managed together with per-app VPN is only supported on iOS 13.4 or later. MobileIron support requires iOS 13.4 or later.</i></div>
<b>Qlik Sense Mobile Client Managed app Android support</b>	Android 8.1 or later

## 2 Supported browsers

Qlik Sense is designed to work on the platform and web browser combinations described in this section, using default browser settings.

Each Qlik Sense release is tested for compatibility with the latest publicly available browser versions. Due to the frequency of browser version updates, Qlik does not include specific browser version numbers in the system requirements.

Each Qlik Sense release is compatible with and supported on the latest iOS versions that are publicly available at the time of the Qlik Sense release. Due to the frequency of iOS version updates, Qlik does not include specific iOS version numbers in the system requirements.



*Minimum screen resolution for desktops and laptops is 1024x768; tablets is 1024x768; small screens is 320x568.*

### 2.1 Supported Microsoft Windows browsers

The following browsers can be used on supported Microsoft Windows and Microsoft Windows Server machines to access the Qlik Management Console (QMC) and the hub:

- Microsoft Edge
- Google Chrome
- Mozilla Firefox (requires hardware acceleration, not supported in virtual environments)

CefSharp embedded browser v55 or later (CefSharp allows you to embed the Chromium open source browser inside .Net apps)

### 2.2 Supported Apple Mac OS browsers

The following browsers can be used on supported Apple Mac OS machines to access the Qlik Management Console (QMC) and the hub:

- Apple Safari 10 or later
- Google Chrome
- Mozilla Firefox (requires hardware acceleration, not supported in virtual environments)
- Microsoft Edge

### 2.3 iOS/iPadOS

The following browsers can be used on supported devices (script editing is not supported on tablet devices):

- Apple Safari
- VMware browser (using AirWatch per-app VPN)

- MobileIron Web@Work (using MobileIron Tunnel)
- BlackBerry Access
- Microsoft Edge

### 2.4 Android

The following browsers can be used on supported devices (script editing is not supported on tablet devices):

- Google Chrome
- BlackBerry Access
- Microsoft Edge