



**BARNOWL**

Minimum System  
Requirements  
Version 11

## Document Version History

Date	Change
9 April 2024	Removed Windows Server 2012 Changed database server's Minimum Ram to 16GB Changed Database server available hard drive space Changed Snapshots hard drive space to 500GB
23 March 2023	Removed Support for Office 2012 & 2013 Removed Support for SQL Server 2012 and SQL Express 2012 Removed Support for Internet Explorer Added Support for Office 2021 Added Support for Microsoft Edge
20 February 2023	SQL Server 2022 has been added as a supported version. Windows Server 2022 has been added as a supported version.
2 July 2021	SQL Server 2019 has been added as a supported version.
11 March 2020	Updated Application Server Requirements <ul style="list-style-type: none"> <li>• .Net Framework 4.8</li> <li>• IIS 8.0 or above</li> </ul>
11 October 2019	Updated architecture diagram for BarnOwl v10 Included support for Microsoft Office 2019 Included support for Microsoft Windows Server 2019 Included support for Microsoft SQL Server/Express 2017 Removed Support for Microsoft SQL Server 2008R2
25 July 2019	Section 2.10 updated to link to latest version of the Microsoft Access Database Engine. Section 3.1 updated to reflect that SQL Server Integration Services (SSIS) is required for the BarnOwl Data Warehouse.
19 June 2019	Section 3.1 and Figure 1 updated to include support for Microsoft SQL Server 2017
16 May 2019	Section 2.8 updated to reflect that Microsoft SQL Express 2005 is no longer supported by BarnOwl v 9.
19 February 2019	Updated to include Version 9 Requirements.

25 April 2018	Section 4.6 added. If using Automatic LDAP Integration, a domain service account is required.
10 November 2017	Section 3.1 updated - Data Warehouse - SQL Server 2008 not supported.
May 2017	Minimum System Requirements published for BarnOwl version 8

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# 1. Overview

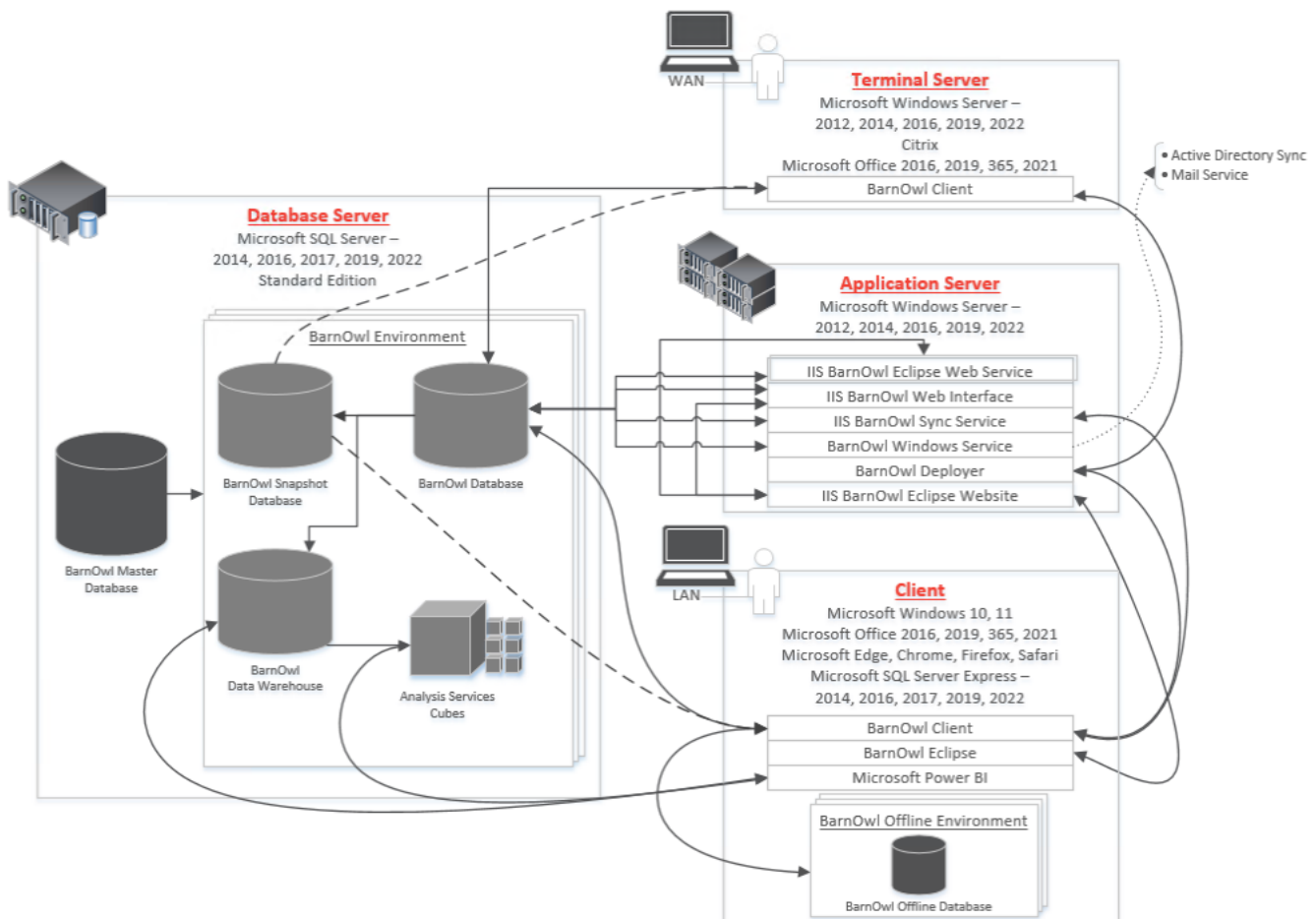
In order to ensure the successful implementation of BarnOwl, it is essential that the following minimum system requirements are met. Please note that these are the absolute minimum requirements for BarnOwl to run adequately in your organisation. Please contact [support@barnowl.co.za](mailto:support@barnowl.co.za) if you have any questions.

Figure 1 shows an illustration of the BarnOwl Hardware Architecture.

Figure 1: BarnOwl Hardware Architecture Diagram

## BarnOwl Hardware Architecture Diagram v11 BarnOwl 11 Hardware Architecture

23/03/2023



## 2. Client

This section covers the requirements for each workstation where the BarnOwl Client software will be installed.

### 2.1 Operating System

The following operating systems are supported for 32 bit and 64 bit:

- Microsoft Windows 11
- Microsoft Windows 10 (Professional and Enterprise)

### 2.2 Processor

- 1 x 3.4GHz or faster dual core processor

### 2.3 Available Hard Disk Space

- 10GB available hard drive space on the system root plus 20GB for the offline database

### 2.4 Minimum Available RAM

- 4GB RAM
- 8GB RAM for the offline database

### 2.5 Network Card

- 
- 100Mb/s Ethernet Network interface Card

### 2.6 Minimum Screen Resolution

- Minimum screen resolution of 1024x768 (16-bit True Colour)

### 2.7 Microsoft Office

Microsoft Word and Microsoft Excel are required for the reporting function.

BarnOwl supports the following versions of Microsoft Office for 32 bit and 64 bit:

- Office 2021 (Microsoft Word, Microsoft Excel)
- Office 2019 (Microsoft Word, Microsoft Excel)
- Office 365 (Microsoft Word, Microsoft Excel)
- Office 2016 (Microsoft Word, Microsoft Excel)

## 2.8 Microsoft SQL Express

If you will be using the Offline function, or are creating a local database, you require Microsoft SQL Express.



Please note that from version 10 of BarnOwl, SQL Express 2005-2012 is no longer supported. If you are using the Offline function and are currently using Microsoft SQL Express 2005-2012, you need to uninstall SQL Express 2005-2012, and install one of the versions listed below.

BarnOwl recommends using Microsoft SQL Express 2022 Advanced with Tools. For information about downloading and installing Microsoft SQL Express 2022, see the BarnOwl Client and Offline Installation Guide.

The following versions of Microsoft SQL Express are supported by BarnOwl for 32 bit and 64 bit:

- Microsoft SQL Express 2022
- Microsoft SQL Express 2019
- Microsoft SQL Express 2017
- Microsoft SQL Express 2016
- Microsoft SQL Express 2014

## 2.9 Web Browser

The Web Browser is mandatory for web-based voting and action plans. The following browsers are supported by BarnOwl:

- Microsoft Edge
- Chrome
- Firefox
- Safari

## 2.10 Additional Software Requirements

- Microsoft Visual Studio 2010 Tools for Office Runtime plug-in for Word and Excel
- Microsoft Access Database Engine 2010 (Download [here](#))\*
- .Net Framework 4.8 with all updates

\*BarnOwl and Microsoft Office must be running on the same platform (either all 32bit or all 64bit), and you need to ensure that the correct Office System driver is installed, otherwise the Eclipse Import tool will not function correctly.

For more information, please contact BarnOwl Support.

## 2.11 Microsoft Power Platform

That standard report packs are developed using

- Microsoft Power BI Desktop
- Microsoft Power BI Report Builder
- SSRS Report Builder

It is recommended to always use the latest version of Power BI Desktop.

For cloud hosted reporting solutions, please contact BarnOwl Support.

The version of SSRS Report Builder depends on the current installed SQL Server version.

### 3. Database Server

This section covers the requirements for the BarnOwl database server.

#### 3.1 SQL Server

The following versions of SQL server are supported:

- Microsoft SQL Server 2022
- Microsoft SQL Server 2019
- Microsoft SQL Server 2017
- Microsoft SQL Server 2016
- Microsoft SQL Server 2014



Collation sequence must be SQL\_Latin1\_General\_Cp1\_CI\_AS

BarnOwl Reporting makes use of SQL Server Features

- Microsoft SQL Server Integration Services (SSIS)
- Microsoft SQL Server Reporting Services (SSRS)

#### 3.2 Available Hard disk Space

- 80GB available free hard drive space (after operating system and SQL Server installation)
- [Optional] For BarnOwl Data Warehouse - 60GB with growth of +- 30GB p/a
- [Optional] 500GB for Snapshot database

#### 3.3 Minimum Available RAM

- 16GB RAM (800MHz or above)

#### 3.4 Network Card

- 1GB Ethernet Network Interface Card

#### 3.5 Processor

- 1 dual-core processor 2.6 GHz or higher



## 4. Application Server

This section covers the requirements for the Application server where the IIS BarnOwl Eclipse Web Service, IIS BarnOwl Eclipse Website, IIS BarnOwl Sync Services, IIS BarnOwl Web Interface, BarnOwl Windows Service, BarnOwl Deployer are installed.

### 4.1 Operating System

The following operating systems are supported for 32 bit and 64 bit:

- Microsoft Windows Server 2022
- Microsoft Windows Server 2019
- Microsoft Windows Server 2017
- Microsoft Windows Server 2016

### 4.2 Processor

- 1 dual-core processor 2.6 GHz or higher

### 4.3 Available Hard Disk Space

- 80 GB available free hard drive space (after operating system installation)

### 4.4 Minimum Available RAM

- 8 GB RAM (800MHz or above)

### 4.5 Network Card

- 1 GB Ethernet Network Interface card

### 4.6 Additional Requirements

- If you are using Automatic LDAP integration, a domain service account is required with sufficient permissions to retrieve all domain users.
- .Net Framework 4.8
- Microsoft Internet Information Services (IIS) 8.0 or above

## **5. Terminal / Remote Desktop Server**

This section contains the system requirements for a Terminal (Remote Desktop) server.

### **5.1 Operating System**

The following operating systems are supported for the Terminal / Remote Desktop Services for 32 bit and 64 bit

- Microsoft Windows Server 2022
- Microsoft Windows Server 2019
- Microsoft Windows Server 2016
- Citrix

### **5.2 Processor**

- 1 x quad-core processor 2.8 GHz or higher

### **5.3 Available Hard Disk Space**

- 2 GB per user profile

### **5.4 Minimum Available RAM**

- 256 Mb per concurrent user

### **5.5 Network Card**

- 1 GB Ethernet

### **5.6 Microsoft Office**

BarnOwl supports the following versions of Microsoft Office for 32 bit and 64 bit:

- Office 2021 (Microsoft Word, Microsoft Excel)
- Office 2019 (Microsoft Word, Microsoft Excel)
- Office 365 (Microsoft Word, Microsoft Excel)
- Office 2016 (Microsoft Word, Microsoft Excel)