# BARNOWL

# Minimum System Requirements Version 10

# Document Version History

| Date | Change |
|---|---|
| 2 July 2021 | SQL Server 2019 has been added as a supported version. |
| 11 March 2020 | Updated Application Server Requirements<br>• .Net Framework 4.8<br>• IIS 8.0 or above |
| 11 October 2019 | Updated architecture diagram for BarnOwl v10<br>Included support for Microsoft Office 2019<br>Included support for Microsoft Windows Server 2019<br>Included support for Microsoft SQL Server/Express 2017<br>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.<br>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 |

# Table of Contents

# 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 if you have any questions.
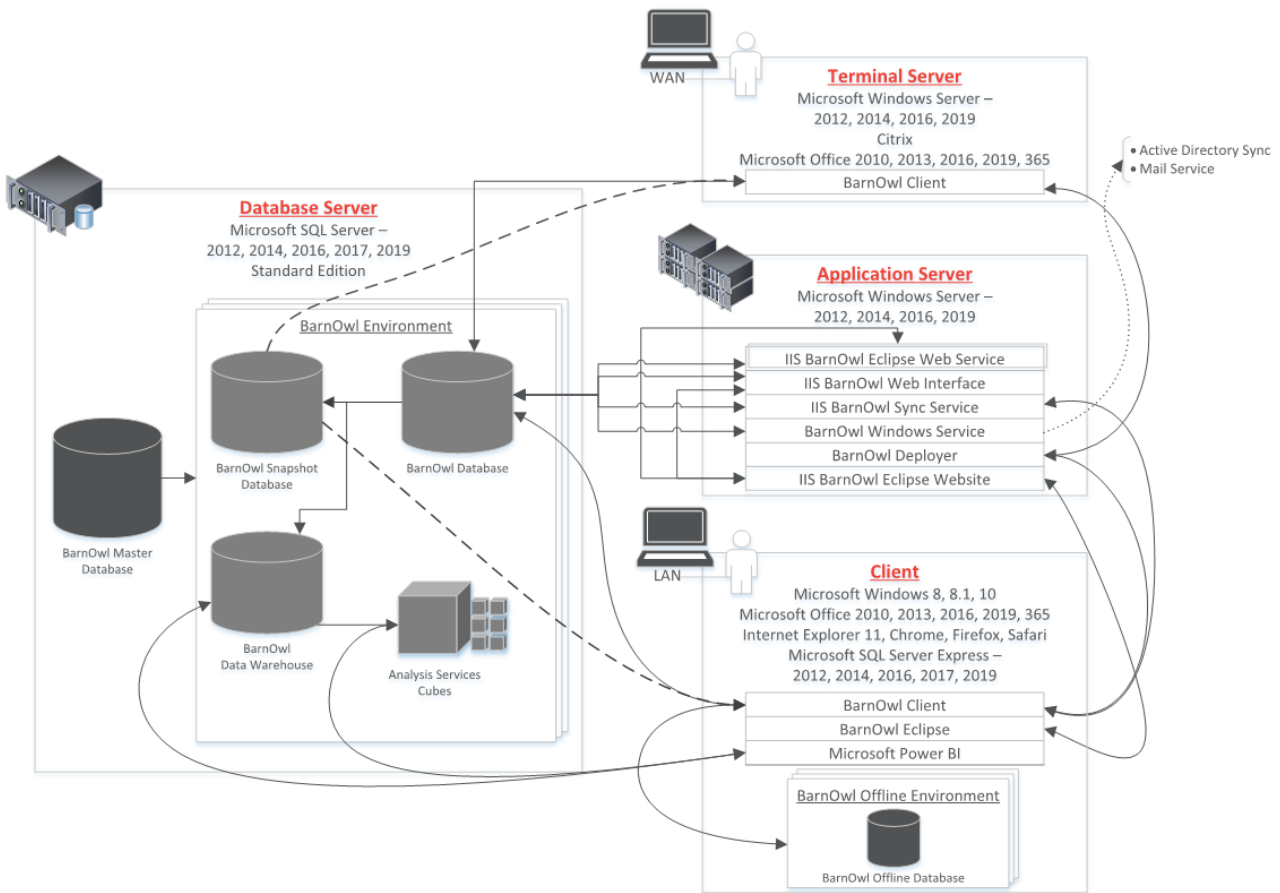
Figure 1 shows an illustration of the BarnOwl Hardware Architecture.

*Figure 1: BarnOwl Hardware Architecture Diagram*

**BarnOwl Hardware Architecture Diagram v1 0**

# 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 10 (Professional and Enterprise)
- Microsoft Windows 8 & 8.1 (Professional, Ultimate 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 2019 (Microsoft Word, Microsoft Excel)
- Office 365 (Microsoft Word, Microsoft Excel)
- Office 2016 (Microsoft Word, Microsoft Excel)
- Office 2013 (Microsoft Word, Microsoft Excel)
- Office 2010 (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 is no longer supported. If you are using the Offline function and are currently using Microsoft SQL Express 2005, you need to uninstall SQL Express 2005, and install one of the versions listed below.

BarnOwl recommends using Microsoft SQL Express 2012 Advanced with Tools. For information about downloading and installing Microsoft SQL Express 2012, 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 2019
- Microsoft SQL Express 2017
- Microsoft SQL Express 2016
- Microsoft SQL Express 2014
- Microsoft SQL Express 2012

## 2.9       Web Browser

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

- Internet Explorer 11+
- 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 4.5.2 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.

# 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 2019
- Microsoft SQL Server 2017
- Microsoft SQL Server 2016
- Microsoft SQL Server 2014
- Microsoft SQL Server 2012

Collation sequence must be SQL_Latin1_General_Cp1_CI_AS
The Microsoft SQL Server Integration Systems (SSIS) Feature is required for the BarnOwl Data Warehouse

## 3.2    Available Hard disk Space

- 40GB 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] 200GB for Snapshot database

## 3.3    Minimum Available RAM

- 8GB 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 2019
- Microsoft Windows Server 2017
- Microsoft Windows Server 2016
- Microsoft Windows Server  2012

## 4.2    Processor

- 1 dual-core processor 2.6 GHz or higher

## 4.3    Available Hard Disk Space

- 40 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
- 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 2019
- Microsoft Windows Server 2016
- Microsoft Windows Server 2012
- 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 2019 (Microsoft Word, Microsoft Excel)
- Office 365 (Microsoft Word, Microsoft Excel)
- Office 2016 (Microsoft Word, Microsoft Excel)
- Office 2013 (Microsoft Word, Microsoft Excel)
- Office 2010 (Microsoft Word, Microsoft Excel)