

PREREQUISITES AND SYSTEM CONSIDERATIONS

VERSION 10.1



Information on
PRACTICE IQ 10.1
FOR
APS CLIENTS

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Introduction

PracticelQ uses a variety of technologies to produce and deliver Analytics and Reporting. It is important to understand the requirements and dependencies when planning an implementation.

The main consideration for PIQ are the Server side components. The Server components are responsible for building the data warehouse and populating the cubes with data and serving up the reports when requested.

PracticelQ depends on several system components. APS do not install or configure these required system components. These need to be installed and supported by the Practice IT provider. Please review this document with your IT provider to ensure they can support and deliver these requirements.

PracticeIQ Pre-Installation Checklist

The following is a high level checklist that should be completed by the Practice or its IT provider. This is to ensure that all server and client components are installed before PracticeIQ is installed by APS. Please use the detail of each section in the guide for more information on the different components.

Server Requirements

Please indicate with a tick if the components are installed and working:

Section	Component	Check
A1	Microsoft® Windows Server 2012/2012R2/2016/2019	<input type="checkbox"/>
A2	Microsoft® SQL Server 2012/2014/2016/2017/2019 Standard Edition (or higher) <ul style="list-style-type: none"> - Database Engine - Analysis Services - Reporting Services - Integration Services - Client Components (Management Studio) - Data Tools for Visual Studio 2012+ - Latest Service Pack applied to all components <i>Details supplied on page 8</i>	<input type="checkbox"/>
A3	Internet Information Server 7/7.5/8/8.5/10 <i>Incl. Sub components defined on page 10</i>	<input type="checkbox"/>
	Advance® Software available on Server	<input type="checkbox"/>

Client Requirements

The following components need to be installed on the desktop before PracticeIQ can be used. At least one Client needs to be setup for installation:

Section	Component	Check
B1	Microsoft® Windows 8 / 8.1 / 10	<input type="checkbox"/>
B2	Microsoft® Excel 2010 / 2013 / 2016 / 2019	<input type="checkbox"/>
B3	Internet Explorer 11, Edge or Chrome	<input type="checkbox"/>

Server Components

Pre-Requisites

Section	Component
A1	Microsoft® Windows Server 2012/2012R2/2016/2019
A2	Microsoft® SQL Server 2012/2014/2016/2017/2019 Standard Edition (or higher)
A3	Internet Information Server 8/8.5/10

A1 Microsoft® Windows Server

Server Resources

PracticelQ can be very resource intensive when it is building the data warehouse and processing the cubes, so more resources should be dedicated to these components. Please see the **APS System Specification Recommendations document** for more detail on this. The IIS server does the least work and the website can sit on an existing IIS server if available.

A2 SQL Server Components

PracticelQ is currently available for 2012, 2014, 2016, 2017 and 2019. It requires the following database components to be installed:

Section	Components	Check
A2 SQL Database	Database Engine	<input type="checkbox"/>
	Analysis Services	<input type="checkbox"/>
	Reporting Services	<input type="checkbox"/>
	Integration Services	<input type="checkbox"/>
Note: Management Studio is a separate install for SQL2016+	Management Studio	<input type="checkbox"/>
Note: Data Tools for Visual Studio is a separate install for SQL2014+	Data Tool for Visual Studio	<input type="checkbox"/>
	Latest Service Pack applied to all components	<input type="checkbox"/>

These components can be distributed on several servers. Ideally Management Studio and Data Tools should be available on all servers that have the database components.

Please ensure that the matching SQL Server Management Studio version is installed for your instance of SQL Server. Integration Services, which PIQ utilises, is not backward compatible with future releases of SQL Server Management Studio.

<https://docs.microsoft.com/is-is/sql/ssms/sql-server-management-studio-changelog-ssms?view=sql-server-2017#previous-ssms-releases>

SQL Server 2014: Data Tools - Business Intelligence for Visual Studio 2013

Note that the Data Tools (BI) no longer comes with the SQL Server 2014+ install and needs to be download separately. The required Visual Studio shell is installed as part of this installation.

<https://www.microsoft.com/en-us/download/details.aspx?id=42313>

SQL Server 2016: Data Tools for Visual Studio 2015 and SQL 2016 (Instructions)

<https://docs.microsoft.com/en-us/sql/ssdt/previous-releases-of-sql-server-data-tools-ssdt-and-ssdt-bi?view=sql-server-ver15>

SQL Server 2017: Data Tools for Visual Studio 2017 and SQL 2017 (Instructions)

<https://docs.microsoft.com/en-us/sql/ssdt/previous-releases-of-sql-server-data-tools-ssdt-and-ssdt-bi?view=sql-server-ver15>

SQL Server 2019: Data Tools for Visual Studio 2019 and SQL 2019 (Instructions)

<https://msdn.microsoft.com/en-us/library/mt204009.aspx>

Note: Ensure you take the option aligned with your SQL version.

The LATEST Service Pack (SP) and Cumulative Update (CU) available should be installed for all components. If extra components have been installed after the service pack is applied, then the service pack must be reapplied to ensure all components are updated.

Use the link below for full details on SQL Server versions, service packs and cumulative updates, as well as build numbers.

- <https://buildnumbers.wordpress.com/sqlserver/>

Reporting Services

Reporting Services is a prerequisite for PracticelQ and should be installed at the same time as the other SQL Service components.

To simplify security configuration Analysis Services should be installed on the same machine as Reporting Services. If they are on separate servers you will need to configure Kerebos security so that Reporting Services can connect to the remote Analysis Services. If they are on the same server then Kerebos is not required.

A3 Internet Information Services

IIS 8	IIS 8.5	IIS 8.5+
Mix of 64bit and 32bit application pools running	64bit application pools running	64bit application pools running
Windows Server 2012	Windows Server 2012R2+	Windows Server 2016+

When installing IIS the following modules need to be installed:

Section	Components	Check
Web Management Tools	IIS Management Console	<input type="checkbox"/>
Application Development Features	.NET Extensibility , ASP.NET, ISAPI Extensions, ISAPI Filters	<input type="checkbox"/>
Common HTTP Features	Default Document , Directory Browsing , HTTP Errors , Static Content	<input type="checkbox"/>
Health and Diagnostics	HTTP Logging	<input type="checkbox"/>
Security	Request Filtering , Windows Authentication	<input type="checkbox"/>

Client Components

Pre-Requisites

Section	Component
B1	Windows 7/ Windows 8 / Windows 8.1 / Windows 10
B2	Microsoft® Excel 2010/2013/2016
B3	Internet Explorer 11, Edge or Chrome

B2 Microsoft Excel

PracticelQ requires Microsoft® Excel to print the reports and to work with the PIQ solution for ad-hoc reporting, so each client machine should have a supported version of Excel (2010/2013/2016/2019)

B3 Internet Explorer

Internet Explorer is recommended but not mandatory for browsing the PIQ Intranet site and Report Services formats. Other browsers such as Edge and Chrome will also work.

B3 PIQ Administration

On client machines that need to run the PracticelQ administration tools, PIQ Portal and the Data Warehouse Utility (aWUpdate), a full install of Practice Management is required. The PracticelQ administration tools are required on at least one machine to configure PracticelQ.

Note: PM11 delivers these tools as part of its installation.