

AX Server requirements

For best AX Server performance, ensure your hardware and software meets the minimum requirements. Satisfactory production environment performance may require greater resources than the minimum specification.

Hardware

Processor, memory, and hard disk requirements for production systems depend on the following factors:

- the number of concurrent users and their usage profiles
- the size of the data payload
- the desired response time

Component	Minimum	Recommendation
Processor	2.5 gigahertz (GHz)	Quad-core processor (or two Dual-core processors) at 3.5 GHz or higher.
Memory (RAM)	4 gigabytes (GB)	16 GB
Hard disk	100 GB This is the approximate amount of disk space required to download, extract, and install the prerequisites and AX Server is 4.5 GB.	200 - 500 GB Data storage requirements vary by the number of types of audit tests performed and the volume of transactions. Smaller implementations typically require 50GB per year, while larger implementations may require up to 500GB per year. For use in production, high-speed disk access and throughput is recommended.
Other	TCP/IP connectivity. The ability to connect to ACL Launchpad is required during online server activation.	

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Software

Caution

You must install the [KB2919355 Windows Updates](#) before starting your Analytics Exchange installation on Windows Server 2012 R2. If you do not install this update, your Analytics Exchange installation cannot succeed.

Software requirement	Minimum	Recommendation
Operating system		
<ul style="list-style-type: none">Windows Server 2012 R2Windows Server 2008 R2 Enterprise Edition (64 bit) <div>Note Apply all critical Windows updates before installing AX Server. Running Windows Server 2012 using the Server Core (no GUI) option is not supported.</div>	Windows Server 2008 R2 Enterprise Edition (64 bit)	Windows Server 2012 R2
Web browser		
<ul style="list-style-type: none">ChromeFirefoxInternet Explorer	Internet Explorer version 9 <div>Note Internet Explorer version 9 provides limited functionality in some AX Server components.</div>	Latest version of Chrome
Optional integrated programming languages		

Software requirement	Minimum	Recommendation
<ul style="list-style-type: none"> Python programming language R scripting language <p>When installing Python, you must also configure it to run on your system. For more information, see Configuring Python for use with AX Server.</p> <p>Depending on the R CRAN packages you intend to use, you may need to add the R i386 32-bit binary folder to your <code>PATH</code> environment variable.</p> <div> Note You must install the requirements to use integrated Python or R functions in your analytics. If you do not intend to use these languages, you do not need to install them. </div>	<ul style="list-style-type: none"> Python 3.5.x (32-bit) R 3.3.1 (32-bit) 	<ul style="list-style-type: none"> Python 3.5.x (32-bit) R 3.2.3 or 3.2.5 (32-bit)

Automatically installed prerequisites

The following prerequisites are automatically installed by the AX Server setup wizard if the required software is not detected:

- Oracle Java SE Development Kit (JDK 1.8.0.101)
- Apache TomEE 1.7.4
- Java Cryptography Extension for Java 8
- Microsoft Access Database Engine 2010 SP2
- Microsoft .NET Framework 4.6.2

Note

If your computer already has .NET 4.6.0 or NET 4.6.1, the application uses the installed version of .NET and does not install 4.6.2.

- Microsoft Visual C++ 2015 Redistributable (x64 and x86)
- MSXML SDK 2.5

ACL data connectors

The ODBC drivers listed below are installed for use as ACL data connectors:

Driver name	File name	Version
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ACL Connector for Amazon Redshift	AmazonRedshiftODBC_sb64.dll	1.1.6.1009
ACL Connector for Cassandra	CassandraODBC_sb64.dll	2.4.1.1001
ACL Connector for Couchbase	CouchbaseODBC_sb64.dll	1.1.0.1000
ACL Connector for Drill	DrillODBC_sb64.dll	1.2.4.1004
ACL Connector for DynamoDB	DynamoDBODBC_sb64.dll	1.0.1.1000
ACL Connector for Google BigQuery	GoogleBigQueryODBC_sb64.dll	2.0.2.1005
ACL Connector for HBase	HBaseODBC_sb64.dll	1.1.0.1000
ACL Connector for Hive	HiveODBC_sb64.dll	2.1.5.1006
ACL Connector for Impala	ImpalaODBC_sb64.dll	1.2.5.1005
ACL Connector for MongoDB	MongoDBODBC_sb64.dll	2.0.2.1003
ACL Connector for Oracle	OracleODBC_sb64.dll	1.1.0.1014
ACL Connector for Salesforce	SFODBC_sb64.dll	1.2.5.1017
ACL Connector for Spark	SparkODBC_sb64.dll	1.1.5.1005
ACL Connector for SQL Server	SQLServerODBC_sb64.dll	1.3.6.1022
ACL Connector for Teradata	tdataodbc_sb64.dll	1.0.0.1003

Note

The 32-bit versions of the drivers have 32 instead of 64 in the file name.

Prerequisites included in Windows server

The following prerequisites are required and are included in a default Windows server installation:

- Microsoft Core XML Services (MSXML) 6.0
- Microsoft Data Access Components (MDAC) 2.8
- Microsoft Jet 4.0

Database server

AX Server supports two database platforms, Oracle and PostgreSQL.

If your organization is implementing both AX Server and AX Exception the supported configurations are:

- both application databases using Oracle
- configuring the AX Server to use PostgreSQL as the database and Microsoft SQL Server as the AX Exception database

Software requirement	Minimum	Recommendation
<p>One of the following Oracle versions if Oracle is selected as the Analytics Exchange database platform:</p> <ul style="list-style-type: none">◦ Oracle 12c◦ Oracle 11gR2 <p>Note</p> <p>The server Oracle is installed on must meet the hardware requirements specified by the database vendor. You must also install Oracle Instant Client 12.1 if you intend to use AX Connector direct database access.</p>	Oracle 11gR2	Oracle 12c
<p>PostgreSQL 9.3.9 if PostgreSQL is selected as the Analytics Exchange database platform.</p> <p>Note</p> <ul style="list-style-type: none">• If PostgreSQL is installed on the same server as AX Server, meeting the AX Server hardware requirements is sufficient. If PostgreSQL is installed on a separate server a 64-bit dual CPU, 64-bit operating system, and 2 GB of memory are recommended for production use.• The PostgreSQL version included with the AX Server setup wizard is 9.3.9, however PostgreSQL is tested and supported up to version 9.3.13.	PostgreSQL 9.3.9	PostgreSQL 9.3.9