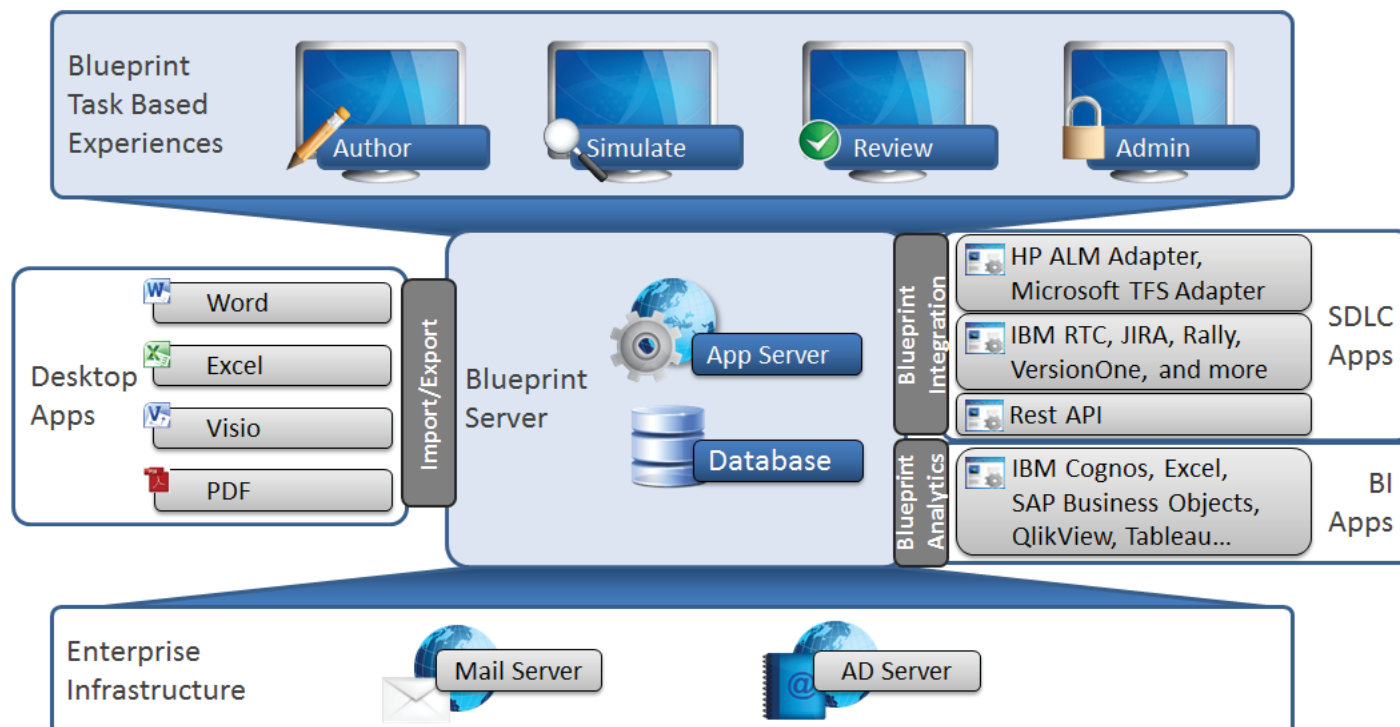


# System Configuration

**Architecture:** Blueprint has a highly-scalable layered architecture leveraging modern Microsoft technologies.



**Distributed-Server Install:** To better scale with the needs of the organization, web and data tiers can be split onto separate dedicated servers. This is recommended for enterprise-level deployments.

	Client	Separate Application Server	Separate Database Server
<b>Hardware</b>	Recommended system specifications: <ul style="list-style-type: none"> <li>2 GHz or faster 64-bit CPU (4-core strongly recommended)</li> <li>4 GB RAM (8 GB for large deployments)</li> </ul>	<ul style="list-style-type: none"> <li>2.5 GHz or faster</li> <li>8 64-bit CPU cores</li> <li>16 GB RAM</li> <li>1 Gbps connection recommended</li> </ul>	<ul style="list-style-type: none"> <li>2.5 GHz or faster</li> <li>8 64-bit CPU cores</li> <li>16 GB RAM</li> <li>Shared 1 TB SAN</li> </ul>
<b>Software</b>	<ul style="list-style-type: none"> <li>64-bit OS: <ul style="list-style-type: none"> <li>Windows 7</li> <li>Windows 8</li> <li>Windows 10</li> </ul> </li> <li>Web browsers: <ul style="list-style-type: none"> <li>Internet Explorer 11 or later (compatibility mode is not supported)</li> <li>Firefox 19–51, 52 or later (ESR)</li> <li>Chrome (Impact Analysis, Rapid Review, and Review Experience)</li> </ul> </li> <li>Silverlight 5</li> <li>Minimum resolution of 1280x1024 (1600x900 or higher recommended)</li> <li>.NET Framework 4.7.1*</li> <li>Microsoft Office 2010, 2013, 2016**</li> </ul>	<ul style="list-style-type: none"> <li>Windows Server 2012 (IIS 8) or Windows Server 2012 R2 (IIS 8.5) or Windows Server 2016 (IIS 10)</li> <li>.NET Framework 4.7.1</li> </ul>	<ul style="list-style-type: none"> <li>Windows Server 2012 or Windows Server 2012 R2 or Windows Server 2016</li> <li>SQL Server 2012, 2014, or 2016</li> </ul>

\*only required for authoring document templates

\*\* required for Blueprint Analytics and authoring document templates

**Single-Server Install:** This server configuration contains all Blueprint server components on a single server. Both web tier (IIS) and data tier (SQL), while installed separately, run on a single server.

Client		Application and Database Server
<b>Hardware</b>	Recommended system specifications: <ul style="list-style-type: none"> <li>• 2 GHz or faster 64-bit CPU (4-core strongly recommended)</li> <li>• 4 GB RAM (8 GB for large deployments)</li> </ul>	<ul style="list-style-type: none"> <li>• 16 GB RAM minimum</li> <li>• 2.5 GHz or faster</li> <li>• 8 64-bit CPU cores</li> <li>• Shared 1 TB SAN</li> </ul>
<b>Software</b>	<ul style="list-style-type: none"> <li>• 64-bit OS: <ul style="list-style-type: none"> <li>• Windows 7</li> <li>• Windows 8</li> </ul> </li> <li>• Web browsers: <ul style="list-style-type: none"> <li>• Internet Explorer 11 or later (compatibility mode is not supported)</li> <li>• Firefox 19–51, 52 or later (ESR)</li> <li>• Chrome (Impact Analysis, Rapid Review, and Review Experience)</li> </ul> </li> <li>• Silverlight 5</li> <li>• Minimum resolution of 1280x1024 (1600x900 or higher recommended)</li> <li>• NET Framework 4.7.1*</li> <li>• Microsoft Office 2010, 2013, 2016**</li> </ul>	<ul style="list-style-type: none"> <li>• Windows Server 2012 (IIS 8) or Windows Server 2012 R2 (IIS 8.5) or Windows Server 2016 (IIS 10)</li> <li>• SQL Server 2012, SQL Server 2014, or SQL Server 2016</li> <li>• .NET Framework 4.7.1</li> </ul>

\*only required for authoring document templates

\*\* required for Blueprint Analytics and authoring document templates

## Data Tier Configuration

- Only Windows Authentication mode supported between app server and data tier
- Account used for access must have the following privileges:
  - SELECT, INSERT, UPDATE, DELETE permissions on any object in the Blueprint database
  - EXECUTE permissions on any stored procedure in the Blueprint database
  - VIEW SERVER STATE server permission required to collect Phone Home system information
- Database administrator permissions required only during installation and setup of the Blueprint server.

## Network Configurations

- Blueprint operates successfully over standard LAN and WAN connections.
- Recommended maximum latency: 200 ms
- Web tier: port 8080 or 443 (based on IIS and SSL configuration)
- Auxiliary services: port 9101
- If running a separate data tier, the following TCP ports need to be open to the database server
  - 139 & 445 for Windows authentication<sup>2</sup>
  - 1433 (or configured SQL port)
- Analytics (if applicable): port 8082 or 443

2 - Refer to <https://technet.microsoft.com/en-us/library/dd772723%28v=ws.10%29.aspx?f=255&MSPPErr=-2147217396>

## About Blueprint

Blueprint provides an industry-leading software solution that helps large organizations build better business and software applications. Enterprises across the globe use Blueprint to ensure regulatory compliance, speed transition to Agile, better align Business and IT and leverage seamless integration with leading ALM technologies. Nearly half of all Fortune 100 companies choose Blueprint to de-risk and accelerate their software projects.

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