



# Trend Micro Apex Central™

Patch 1

## System Requirements

Centralized Security Management for Endpoints

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<http://docs.trendmicro.com/en-us/enterprise/apex-central.aspx>

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# Chapter 1

## Apex Central Server Installations

This section outlines the Apex Central server system requirements on supported Windows Server platforms.

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- *Windows Server 2016 on page 1-3*
- *Windows Server 2019 on page 1-4*

## Windows Server 2012

Assign proper roles before installing Apex Central.

For details, see <http://success.trendmicro.com/solution/1061124>.



- The following Windows hotfixes are required prior to Apex Central installation:
  - KB2999226
- The following Windows hotfixes are only required for TLS 1.2 environments:
  - KB2975331

OPERATING SYSTEM		EDITION	SERVICE PACK	PROCESSOR	RAM	AVAILABLE DISK SPACE	WINDOWS FEATURES	OTHERS
Windows Server 2012	64-bit	Standard	None	At least 2.3 GHz Intel™ Core™ i5 or compatible CPUs  AMD™ 64 processor  Intel™ 64 processor	8 GB minimum	10 GB minimum  80 GB recommended (SAS)	Microsoft IIS 8.0  Microsoft IIS Windows Authentication  Microsoft IIS ASP  Microsoft IIS ASP.NET 4.5  Microsoft IIS ASP.NET Extensibility 4.5  Microsoft IIS CGI  Microsoft Message Queuing Service (MSMQ)	Gigabit Network Interface Card (NIC)  Monitor that supports 1366 x 768 resolution at 256 colors or higher
		Datacenter	None					

## Windows Server 2012 R2

Assign proper roles before installing Apex Central.

For details, see <http://success.trendmicro.com/solution/1061124>.

**Note**

- The following Windows hotfixes are required prior to Apex Central installation:
  - KB2919355
  - KB2919442
- The following Windows hotfixes are only required for TLS 1.2 environments:
  - KB3000850

OPERATING SYSTEM		EDITION	SERVICE PACK	PROCESSOR	RAM	AVAILABLE DISK SPACE	WINDOWS FEATURES	OTHERS
Windows Server 2012 R2	64-bit	Standard	None	At least 2.3 GHz Intel™ Core™ i5 or compatible CPUs  AMD™ 64 processor  Intel™ 64 processor	8 GB minimum	10 GB minimum  80 GB recommended (SAS)	Microsoft IIS 8.5  Microsoft IIS Windows Authentication  Microsoft IIS ASP  Microsoft IIS ASP.NET 4.5  Microsoft IIS ASP.NET Extensibility 4.5  Microsoft IIS CGI  Microsoft Message Queuing Service (MSMQ)	Gigabit Network Interface Card (NIC)  Monitor that supports 1366 x 768 resolution at 256 colors or higher
		Datacenter	None					

## Windows Server 2016

Assign proper roles before installing Apex Central.

For details, see <http://success.trendmicro.com/solution/1061124>.

OPERATING SYSTEM		EDITION	SERVICE PACK	PROCESSOR	RAM	AVAILABLE DISK SPACE	WINDOWS FEATURES	OTHERS
Windows Server 2016	64-bit	Standard	None	At least 2.3 GHz Intel™ Core™ i5 or compatible CPUs  AMD™ 64 processor  Intel™ 64 processor	8 GB minimum	10 GB minimum  80 GB recommended (SAS)	Microsoft IIS 10.0  Microsoft IIS Windows Authentication  Microsoft IIS ASP  Microsoft IIS ASP.NET 4.6  Microsoft IIS ASP.NET Extensibility 4.6  Microsoft IIS CGI  Microsoft Message Queuing Service (MSMQ)	Gigabit Network Interface Card (NIC)  Monitor that supports 1366 x 768 resolution at 256 colors or higher
		Datacenter	None					

## Windows Server 2019

Assign proper roles before installing Apex Central.

For details, see <http://success.trendmicro.com/solution/1061124>.

OPERATING SYSTEM		EDITION	SERVICE PACK	PROCESSOR	RAM	AVAILABLE DISK SPACE	WINDOWS FEATURES	OTHERS
Windows Server 2019	64-bit	Standard	None	At least 2.3 GHz Intel™ Core™ i5 or compatible CPUs  AMD™ 64 processor  Intel™ 64 processor	8 GB minimum	10 GB minimum  80 GB recommended (SAS)	Microsoft IIS 10.0  Microsoft IIS Windows Authentication  Microsoft IIS ASP  Microsoft IIS ASP.NET 4.7  Microsoft IIS ASP.NET Extensibility 4.7  Microsoft IIS CGI  Microsoft Message Queuing Service (MSMQ)	Gigabit Network Interface Card (NIC)  Monitor that supports 1366 x 768 resolution at 256 colors or higher
		Datacenter	None					



## Chapter 2

### Other Requirements and Supported Platforms

This section outlines other supported platforms and system requirements.

- *Microsoft SQL Server Support on page 2-2*
- *TLS 1.2 Support on page 2-3*
- *IPv4/IPv6 Support on page 2-4*
- *Virtualization Support on page 2-4*
- *Limitations on page 2-4*
- *Web Console Requirements on page 2-5*

## Microsoft SQL Server Support

DATABASE SERVER		EDITION	SERVICE PACK
SQL Server 2019 Express	64-bit	N/A	CU4 (or higher)
SQL Server 2019	64-bit	Standard	CU4 (or higher)
		Enterprise	CU4 (or higher)
SQL Server 2017 Express	64-bit	N/A	N/A
SQL Server 2017	64-bit	Standard	N/A
		Enterprise	N/A
SQL Server 2016 Express	64-bit	N/A	SP2
SQL Server 2016	64-bit	Standard	SP2
		Enterprise	SP2
SQL Server 2014 Express	32-bit / 64-bit	N/A	SP3
SQL Server 2014	32-bit / 64-bit	Standard	SP3
		Enterprise	SP3
SQL Server 2012 Express	32-bit / 64-bit	N/A	SP4
SQL Server 2012	32-bit / 64-bit	Standard	SP4
		Enterprise	SP4
SQL Server 2008 Express	32-bit / 64-bit	N/A	SP4
SQL Server 2008	32-bit / 64-bit	Standard	SP4
		Enterprise	SP4
SQL Server 2008 R2	32-bit / 64-bit	Standard	SP3
		Enterprise	SP3

## TLS 1.2 Support

Apex Central supports Transport Layer Security (TLS) 1.2.

For more information about TLS 1.2, see <https://support.microsoft.com/en-us/help/3135244/tls-1-2-support-for-microsoft-sql-server>.

The following table outlines the Windows hotfixes required for Windows Server operating systems to support TLS 1.2.

**TABLE 2-1. Operating System Requirements**

OPERATING SYSTEM	WINDOWS HOTFIX
Windows Server 2012 (64-bit)	KB2975331
Windows Server 2012 R2 (64-bit)	KB3000850
Windows Server 2016 (64-bit)	N/A
Windows Server 2019 (64-bit)	N/A

The following table outlines the Windows hotfixes required for Microsoft SQL server installations to support TLS 1.2.

**TABLE 2-2. Microsoft SQL Server Requirements**

DATABASE SERVER	WINDOWS HOTFIX
SQL Server 2008	SQL Server 2008 SP4 TLS 1.2 Update
SQL Server 2008 Express	SQL Server 2008 SP4 TLS 1.2 Update
SQL Server 2008 R2	SQL Server 2008 R2 SP3 TLS 1.2 Update
SQL Server 2012 Express	Cumulative Update 1 for SQL Server 2012 SP3 KB3052404
SQL Server 2012	Cumulative Update 1 for SQL Server 2012 SP3 KB3052404
SQL Server 2014 Express	Cumulative Update 5 for SQL Server 2014 SP1 KB3052404

DATABASE SERVER	WINDOWS HOTFIX
SQL Server 2014	Cumulative Update 5 for SQL Server 2014 SP1 KB3052404
SQL Server 2016 Express	N/A
SQL Server 2016	N/A
SQL Server 2017	N/A
SQL Server 2017 Express	N/A

## IPv4/IPv6 Support

OPERATING SYSTEM	ENVIRONMENT	SUPPORT
Windows Server 2012 or later	Pure IPv4	Yes
	Pure IPv6	No
	Dual IP stacks	Yes


## Virtualization Support

Apex Central only provides support for virtual platforms that are supported by the installed operating system.

## Limitations

CATEGORY	LIMITATION
Operating system	Apex Central is a 32-bit program. Apex Central installs under WOW on 64-bit computers. When installed on 64-bit computers, modify IIS to use 32-bit mode.

## Web Console Requirements

RESOURCE	REQUIREMENT
Processor	300 MHz Intel™ Pentium™ processor or equivalent
RAM	128 MB minimum
Available disk space	30 MB minimum
Browser	Microsoft Internet Explorer™ 11, Microsoft Edge™, Microsoft Edge™ (Chromium), or Google Chrome™   <b>Important</b> When using Internet Explorer to access the Apex Central web console, turn off <b>Compatibility View</b> .
Others	Monitor that supports 1366 x 768 resolution at 256 colors or higher



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