Visual Studio Community 2022

Category	Component	ASP.NET web: Min	Def	Full	Azure: Min	Def	Full	Python: Min	Def	Full	Node.js: Min	Def	Full	Mobile .NET: Min	Def	Full	.NET desktop: Min	Def	Full	Desktop C++: Min	Def	Full	UWP: Min	Def	Full	Mobile C++: Min	Def	Full	Game Unity: Min	Def	Full	Game C++: Min	Def	Full	Data storage: Min	Def	Full	Data science: Min	Def	Full	VS ext: Min	Def	Full	Office/SharePoint: Min	Def	Full	Linux C++: Min	Def	Full	Total
.NET	.NET 5.0 Runtime																																																	0
.NET	.NET 6.0 Runtime	x	x	x	x	x	x							x	x	x	x	x	x										x	x	x																x	x	x	18
.NET	.NET Core 2.1 Runtime (out of support)																																																	0
.NET	.NET Core 3.1 Runtime (LTS)																																																	0
.NET	.NET Framework 3.5 development tools																																																	0
.NET	.NET Framework 4.6 targeting pack																																														x	x	x	3
.NET	.NET Framework 4.6.1 SDK																																																	0
.NET	.NET Framework 4.6.1 targeting pack																																																	0
.NET	.NET Framework 4.6.2 SDK																																																	0
.NET	.NET Framework 4.6.2 targeting pack					x						x									x															x										x				5
.NET	.NET Framework 4.7 SDK																																																	0
.NET	.NET Framework 4.7 targeting pack					x						x									x																								x					4
.NET	.NET Framework 4.7.1 SDK																																																	0
.NET	.NET Framework 4.7.1 targeting pack					x						x									x								x	x	x														x					7
.NET	.NET Framework 4.7.2 SDK																																																	0
.NET	.NET Framework 4.7.2 targeting pack	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x		x															x	x		x	x					x		x	x	x	24
.NET	.NET Framework 4.8 SDK	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x		x						x									x	x		x	x					x			x		23
.NET	.NET Framework 4.8 targeting pack					x	x								x	x		x	x																	x	x													8
.NET	.NET Framework project and item templates					x						x																																						2
.NET	.NET Native																						x	x	x																									3
.NET	.NET Portable Library targeting pack																		x																															1
.NET	.NET SDK	x	x	x	x	x	x							x	x	x	x	x	x										x	x	x																x	x	x	18
.NET	.NET WebAssembly build tools						x																																											1
.NET	Advanced ASP.NET features					x						x																																						2
.NET	Development Tools for .NET Core 2.1 (out of support)																																																	0
.NET	ML.NET Model Builder																										x	x																						2
.NET	Web development tools for .NET Core 2.1 (out of support)																																																	0
Cloud, database, and server	Azure Authoring Tools					x	x																																											2
Cloud, database, and server	Azure Cloud Services build tools					x	x																																											2
Cloud, database, and server	Azure Cloud Services core tools					x	x																																											2
Cloud, database, and server	Azure Compute Emulator					x	x																																											2
Cloud, database, and server	Azure Data Lake and Stream Analytics Tools					x	x																																x	x										4
Cloud, database, and server	Azure development prerequisites				x	x	x																																											3
Cloud, database, and server	Azure libraries for .NET				x	x	x																																											3
Cloud, database, and server	Azure Powershell					x	x																																											2
Cloud, database, and server	Azure Rerouces Manager core tools					x	x																																											2
Cloud, database, and server	Azure WebJobs Tools		x	x	x	x	x																																											5
Cloud, database, and server	CLR data types for SQL Serve	x	x	x													x	x	x		x					x	x	x								x	x		x	x							x	x	x	17
Cloud, database, and server	Connectivity and publishing tools	x	x	x	x	x	x					x			x			x																		x	x		x	x							x	x	x	16
Cloud, database, and server	Container development tools	x	x	x																																x	x		x	x							x	x	x	10
Cloud, database, and server	Data sources and service references																																																	0
Cloud, database, and server	Data sources for SQL Server support	x	x	x																																x	x		x	x							x	x	x	10
Cloud, database, and server	IIS Express	x	x	x																																x	x		x	x							x	x	x	10
Cloud, database, and server	Service Fabric Tools					x	x																																											2
Cloud, database, and server	SQL Server Command Line Utilities	x	x	x	x	x	x											x																		x	x										x	x	x	12
Cloud, database, and server	SQl Server Data Tools	x	x	x	x	x	x											x																		x	x										x	x	x	12
Cloud, database, and server	SQL Server Express 2019 LocalDB	x	x	x	x	x	x											x																		x	x										x	x	x	12
Cloud, database, and server	SQL Server ODBC Driver	x	x	x	x	x	x											x																		x	x													9
Cloud, database, and server	Web Deploy	x	x	x	x	x	x					x			x			x																					x	x							x	x	x	14
Code tools	Azure DevOps Office Integration																																																	0
Code tools	Class Designer																																																	0
Code tools	ClickOnce Publishing	x	x	x	x	x	x										x	x	x																				x	x							x	x	x	14
Code tools	Dependency Validation																																																	0
Code tools	Developer Analytics tools	x	x	x	x	x	x								x			x								x	x	x														x					x	x	x	15
Code tools	DGML editor																																																	0
Code tools	Git for Windows																																																	0
Code tools	Help Viewer																																																	0
Code tools	LINQ to SQL tools																																																	0
Code tools	NuGet package manager	x	x	x	x	x	x							x	x	x	x	x	x							x	x	x							x	x	x	x	x	x				x	x	x	x	x	x	27
Code tools	NuGet targets and build tasks																																						x											1
Code tools	PreEmptive Protection - Dotfuscator																		x																															1
Code tools	Text Template Transformation														x	x	x	x	x	x	x	x	x	x	x											x	x		x	x					x		x	x	x	19
Compilers, build tools, and runtimes	.NET Compiler Platform SDK																																									x								1
Compilers, build tools, and runtimes	C# and Visual Basic Roslyn compilers	x	x	x								x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					x			x					x	x	x	33
Compilers, build tools, and runtimes	C++ 2022 Redistributable MSMs																																																	0
Compilers, build tools, and runtimes	C++ 2022 Redistributable Update																									x	x	x				x	x	x																6
Compilers, build tools, and runtimes	C++ Clang Compiler for Windows (12.0.0)																					x																												1
Compilers, build tools, and runtimes	C++ Clang-cl for v143 build tools (x64/x86)																					x																												1
Compilers, build tools, and runtimes	C++ Cmake tools for Windows																					x																											x	2
Compilers, build tools, and runtimes	C++ modules for v143 build tools (x64/x86 - experimental)																					x																												1
Compilers, build tools, and runtimes	C++ Universal Windows Platform support for v143 build tools (ARM64)																								x																									1
Compilers, build tools, and runtimes	C++ Universal Windows Platform support for v143 build tools (ARM64 - experimental)																																																	0
Compilers, build tools, and runtimes	C++ Windows XP Support for VS2017 (v141) tools [Deprecated]																																																	0
Compilers, build tools, and runtimes	C++/CLI support for v141 build tools (14.16)																																																	0
Compilers, build tools, and runtimes	C++/CLI support for v142 build tools (14.29-16.11)																																																	0
Compilers, build tools, and runtimes	C++/CLI support for v143 build tools (14.30-17.0)																																																	0
Compilers, build tools, and runtimes	C++/CLI support for v143 build tools (Latest)																					x																												1
Compilers, build tools, and runtimes	Incredibuild - Build Acceleration																																																	0
Compilers, build tools, and runtimes	MSBuild																					x																	x										x	3
Compilers, build tools, and runtimes	MSVC v140 - VS 2015 C++ build tools (v14.00)																					x																												1
Compilers, build tools, and runtimes	MSVC v141 - VS 2017 C++ ARM build tools (v14.16)																										x																							1
Compilers, build tools, and runtimes	MSVC v141 - VS 2017 C++ ARM Spectre-mitigated libs (v14.16)																																																	0
Compilers, build tools, and runtimes	MSVC v141 - VS 2017 C++ ARM64 build tools (v14.16)																										x																							1
Compilers, build tools, and runtimes	MSVC v141 - VS 2017 C++ ARM64 Spectre-mitigated libs (v14.16)																																																	0
Compilers, build tools, and runtimes	MSVC v141 - VS 2017 C++ x64/x86 build tools (v14.16)																					x					x																							2
Compilers, build tools, and runtimes	MSVC v141 - VS 2017 C++ x64/x86 Spectre-mitigated libs (v14.16)																																																	0

Category	Component	Count
Compilers, build tools, and runtimes	MSVC v142 - VS 2019 C++ ARM build tools (v14.29-16.11)	1
Compilers, build tools, and runtimes	MSVC v142 - VS 2019 C++ ARM Spectre-mitigated libs (v14.29-16.11)	0
Compilers, build tools, and runtimes	MSVC v142 - VS 2019 C++ ARM64 build tools (v14.29-16.11)	1
Compilers, build tools, and runtimes	MSVC v142 - VS 2019 C++ ARM64 Spectre-mitigated libs (v14.29-16.11)	0
Compilers, build tools, and runtimes	MSVC v142 - VS 2019 C++ x64/x86 build tools (v14.29-16.11)	0
Compilers, build tools, and runtimes	MSVC v142 - VS 2019 C++ x64/x86 Spectre-mitigated libs (v14.29-16.11)	0
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ ARM build tools (Latest)	1
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ ARM build tools (v14.30-17.0)	0
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ ARM Spectre-mitigated libs (Latest)	0
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ ARM Spectre-mitigated libs (v14.30-17.0)	0
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ ARM64 build tools (Latest)	3
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ ARM64 build tools (v14.30-17.0)	0
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ ARM64 Spectre-mitigated libs (Latest)	0
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ ARM64 Spectre-mitigated libs (v14.30-17.0)	0
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ ARM64EC build tools (Latest - experimental)	0
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ ARM64EC Spectre-mitigated libs (Latest - experimental)	0
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ x64/x86 build tools (Latest)	9
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ x64/x86 build tools (v14.30-17.0)	0
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ x64/x86 Spectre-mitigated libs (Latest)	0
Compilers, build tools, and runtimes	MSVC v143 - VS 2022 C++ x64/x86 Spectre-mitigated libs (v14.30-17.0)	0
Compilers, build tools, and runtimes	Python 3 32-bit (3.9.5)	1
Compilers, build tools, and runtimes	Python 3 64-bit (3.9.5)	2
Compilers, build tools, and runtimes	Windows Universal CRT SDK	1
Debugging and testing	.NET Debugging with WSL	2
Debugging and testing	.NET profiling tools	11
Debugging and testing	C++ AddressSanitizer	4
Debugging and testing	C++ Profiling tools	6
Debugging and testing	JavaScript diagnostics	14
Debugging and testing	Just-In-Time debugger	10
Debugging and testing	Test Adapter for Boost.Test	2
Debugging and testing	Test Adapter for Google Test	2
Development activities	ASP.NET and web development prerequisites	10
Development activities	ASP.NET MVC 4	0
Development activities	C# and Visual Basic	34
Development activities	C++ Android development tools	3
Development activities	C++ Build Tools core features	1
Development activities	C++ Cmake tools for Linux	2
Development activities	C++ core features	16
Development activities	C++ for Linux Development	3
Development activities	C++ iOS development tools	1
Development activities	Embedded and IoT development tools	1
Development activities	F# desktop language support	4
Development activities	F# language support	14
Development activities	F# language support for web projects	10
Development activities	IntelliCode	22
Development activities	JavaScript and TypeScript language support	19
Development activities	Live Share	9
Development activities	Node.js development tools	3
Development activities	Office Developer Tools for Visual Studio	3
Development activities	Python language support	5
Development activities	Python web support	3
Development activities	Razor Language Services	10
Development activities	Visual Studio Tools for Office (VSTO)	2
Development activities	Windows Communication Foundation	6
Development activities	Windows Workflow Foundation	3
Development activities	Xamarin	3
Development activities	Xamarin Remoted Simulator	3
Emulators	Google Android Emulator (API Level 25) (local install)	1
Emulators	Intel Hardware Accelerated Execution Manager (HAXM) (local install)	1
Games and Graphics	Android IDE support for Unreal engine	1
Games and Graphics	Cocos	1
Games and Graphics	Graphics debugger and GPU profiler for DirectX	7
Games and Graphics	Image and 3D model editors	4
Games and Graphics	Unity Hub	2
Games and Graphics	Unreal Engine installer	1
Games and Graphics	Visual Studio Tools for Unity	3
SDKs, libraries, and frameworks	Android SK setup (API level 25) (local install for Mobile development with C++)	4
SDKs, libraries, and frameworks	Android SDK setup (API level 31)	3
SDKs, libraries, and frameworks	Apache Ant (1.9.3)	3
SDKs, libraries, and frameworks	C++ ATL for latest v143 build tools (ARM)	0
SDKs, libraries, and frameworks	C++ ATL for latest v143 build tools (ARM64)	0
SDKs, libraries, and frameworks	C++ ATL for latest v143 build tools (ARM64EC - experimental)	0
SDKs, libraries, and frameworks	C++ ATL for latest v143 build tools (x86 & x64)	2
SDKs, libraries, and frameworks	C++ ATL for latest v143 build tools with Spectre Mitigations (ARM)	0
SDKs, libraries, and frameworks	C++ ATL for latest v143 build tools with Spectre Mitigations (ARM64)	0
SDKs, libraries, and frameworks	C++ ATL for latest v143 build tools with Spectre Mitigations (ARM64EC - experimental)	0
SDKs, libraries, and frameworks	C++ ATL for latest v143 build tools with Spectre Mitigations (x86 & x64)	0
SDKs, libraries, and frameworks	C++ ATL for latest v141 build tools (ARM)	0
SDKs, libraries, and frameworks	C++ ATL for latest v141 build tools (ARM64)	0
SDKs, libraries, and frameworks	C++ ATL for latest v141 build tools (x86 & x64)	0
SDKs, libraries, and frameworks	C++ ATL for latest v141 build tools with Spectre Mitigations (ARM)	0
SDKs, libraries, and frameworks	C++ ATL for latest v141 build tools with Spectre Mitigations (ARM64)	0
SDKs, libraries, and frameworks	C++ ATL for latest v141 build tools with Spectre Mitigations (x86 & x64)	0
SDKs, libraries, and frameworks	C++ MFC for latest v143 build tools (ARM)	0
SDKs, libraries, and frameworks	C++ MFC for latest v143 build tools (ARM64)	0
SDKs, libraries, and frameworks	C++ MFC for latest v143 build tools (ARM64EC - experimental)	0
SDKs, libraries, and frameworks	C++ MFC for latest v143 build tools (x86 & x64)	1
SDKs, libraries, and frameworks	C++ MFC for latest v143 build tools with Spectre Mitigations (ARM)	0
SDKs, libraries, and frameworks	C++ MFC for latest v143 build tools with Spectre Mitigations (ARM64)	0
SDKs, libraries, and frameworks	C++ MFC for latest v143 build tools with Spectre Mitigations (ARM64EC - experimental)	0
SDKs, libraries, and frameworks	C++ MFC for latest v143 build tools with Spectre Mitigations (x86 & x64)	0
SDKs, libraries, and frameworks	C++ MFC for latest v141 build tools (ARM)	0
SDKs, libraries, and frameworks	C++ MFC for latest v141 build tools (ARM64)	0
SDKs, libraries, and frameworks	C++ MFC for latest v141 build tools (x86 & x64)	0
SDKs, libraries, and frameworks	C++ MFC for latest v141 build tools with Spectre Mitigations (ARM)	0
SDKs, libraries, and frameworks	C++ MFC for latest v141 build tools with Spectre Mitigations (ARM64)	0
SDKs, libraries, and frameworks	C++ MFC for latest v141 build tools with Spectre Mitigations (x86 & x64)	0
SDKs, libraries, and frameworks	C++ v14.29 (16.11) ATL for latest v142 build tools (ARM)	0
SDKs, libraries, and frameworks	C++ v14.29 (16.11) ATL for latest v142 build tools (ARM64)	0
SDKs, libraries, and frameworks	C++ v14.29 (16.11) ATL for latest v142 build tools (x86 & x64)	0
SDKs, libraries, and frameworks	C++ v14.29 (16.11) ATL for latest v142 build tools with Spectre Mitigations (ARM)	0
SDKs, libraries, and frameworks	C++ v14.29 (16.11) ATL for latest v142 build tools with Spectre Mitigations (ARM64)	0
SDKs, libraries, and frameworks	C++ v14.29 (16.11) ATL for latest v142 build tools with Spectre Mitigations (x86 & x64)	0
SDKs, libraries, and frameworks	C++ v14.29 (16.11) MFC for latest v142 build tools (ARM)	0
SDKs, libraries, and frameworks	C++ v14.29 (16.11) MFC for latest v142 build tools (ARM64)	0

SDKs, libraries, and frameworks	Item	Count
SDKs, libraries, and frameworks	C++ v14.29 (16.11) MFC for latest v142 build tools (x86 & x64)	0
SDKs, libraries, and frameworks	C++ v14.29 (16.11) MFC for latest v142 build tools with Spectre Mitigations (ARM)	0
SDKs, libraries, and frameworks	C++ v14.29 (16.11) MFC for latest v142 build tools with Spectre Mitigations (ARM64)	0
SDKs, libraries, and frameworks	C++ v14.29 (16.11) MFC for latest v142 build tools with Spectre Mitigations (x86 & x64)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) ATL for latest v143 build tools (ARM)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) ATL for latest v143 build tools (ARM64)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) ATL for latest v143 build tools (x86 & x64)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) ATL for latest v143 build tools with Spectre Mitigations (ARM)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) ATL for latest v143 build tools with Spectre Mitigations (ARM64)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) ATL for latest v143 build tools with Spectre Mitigations (x86 & x64)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) MFC for latest v143 build tools (ARM)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) MFC for latest v143 build tools (ARM64)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) MFC for latest v143 build tools (x86 & x64)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) MFC for latest v143 build tools with Spectre Mitigations (ARM)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) MFC for latest v143 build tools with Spectre Mitigations (ARM64)	0
SDKs, libraries, and frameworks	C++ v14.30 (17.0) MFC for latest v143 build tools with Spectre Mitigations (x86 & x64)	0
SDKs, libraries, and frameworks	C++/WinRT	1
SDKs, libraries, and frameworks	Entity Framework 6 tools	4
SDKs, libraries, and frameworks	Modeling SDK	1
SDKs, libraries, and frameworks	OpenJDK (Microsoft distribution)	7
SDKs, libraries, and frameworks	TypeScript 4.4 SDK	0
SDKs, libraries, and frameworks	TypeScript Server	19
SDKs, libraries, and frameworks	USB Device Connectivity	1
SDKs, libraries, and frameworks	Visual Studio SDK	3
SDKs, libraries, and frameworks	Windows 10 SDK (10.0.18362.0)	3
SDKs, libraries, and frameworks	Windows 10 SDK (10.0.19041.0)	9
SDKs, libraries, and frameworks	Windows 10 SDK (10.0.20348.0)	2
SDKs, libraries, and frameworks	Windows 11 SDK (10.0.22000.0)	3
SDKs, libraries, and frameworks	Windows Universal C Runtime	6

Total "x" row: 29, 36, 43, 31, 42, 48, 1, 2, 18, 4, 8, 12, 13, 14, 14, 10, 21, 42, 5, 21, 36, 11, 12, 30, 3, 6, 10, 5, 6, 6, 4, 9, 27, 0, 15, 16, 0, 11, 18, 8, 11, 14, 29, 32, 36, 2, 4, 5

Remarks/info/bugs:

Workload: ASP.NET and web development
Optional: Additional project templates (previous versions) => doesn't tick anything but seems to add new templates because the "Total space required" increase.

Workload: .NET desktop development
Optional: Blend for Visual Studio => doesn't tick anything. The reason is that it's an additional application (VS Blend) and is not a part of VS.

Workload: .NET desktop development
Optional: MSIX Packaging Tools => doesn't tick anything.

Workload: Desktop development with C++
Optional: MSVC v142 - VS2019 C++ x64/x86 build tools (v14.29) => doesn't tick anything but seems to add new templates because the "Total space required" increase.

Workload: Mobile development with C++
Optional: Android NDK (R21E) => doesn't tick anything but seems to add new templates because the "Total space required" increase.

Workload: Office/SharePoint development
Optional: Windows Identity Foundation 3.5 => doesn't tick anything but seems to add new templates because the "Total space required" increase.

Profile Description:

Screenshot 1 — Workload Name / Profile Minimum (automatically selected):
Installation details
- Visual Studio core editor
- ASP.NET and web development
  - Included
    - .NET Framework 4.7.2 development tools
    - ASP.NET and web development prerequisi...
  - Optional
    - .NET Framework 4.8 development tools
    - Cloud tools for web development
    - .NET profiling tools
    - Entity Framework 6 tools
    - Live Share
    - .NET Debugging with WSL
    - IntelliCode
    - .NET Framework project and item templates
    - Windows Communication Foundation
    - .NET Framework 4.6.2-4.7.1 development t...
    - Additional project templates (previous ver...
    - .NET WebAssembly build tools

Screenshot 2 — Workload Name / Default Profile:
Installation details
- Visual Studio core editor
- ASP.NET and web development
  - Included
    - .NET Framework 4.7.2 development tools
    - ASP.NET and web development prerequisi...
  - Optional
    - ☑ .NET Framework 4.8 development tools
    - ☑ Cloud tools for web development
    - .NET profiling tools
    - ☑ Entity Framework 6 tools
    - Live Share
    - ☑ .NET Debugging with WSL
    - ☑ IntelliCode
    - .NET Framework project and item templates
    - Windows Communication Foundation
    - ☑ .NET Framework 4.6.2-4.7.1 development t...
    - Additional project templates (previous ver...
    - .NET WebAssembly build tools

Screenshot 3 — Workload Name / Full Profile (all selected):
Installation details
- Visual Studio core editor
- ASP.NET and web development
  - Included
    - .NET Framework 4.7.2 development tools
    - ASP.NET and web development prerequisi...
  - Optional
    - ☑ .NET Framework 4.8 development tools
    - ☑ Cloud tools for web development
    - ☑ .NET profiling tools
    - ☑ Entity Framework 6 tools
    - ☑ Live Share
    - ☑ .NET Debugging with WSL
    - ☑ IntelliCode
    - ☑ .NET Framework project and item templates
    - ☑ Windows Communication Foundation
    - ☑ .NET Framework 4.6.2-4.7.1 development t...
    - ☑ Additional project templates (previous ver...
    - ☑ .NET WebAssembly build tools