Microsoft net framework v4 0. 3019 free

Application Compatibility and Deployment The .NET Framework 4 is highly compatible with applications that are built with earlier .NET Framework versions, except for some changes that were made to improve security, standards compliance, correctness, reliability, and performance. The .NET Framework 4 does not automatically use its version of the common language runtime to run applications that are built with earlier versions of the .NET Framework. To run older applications with .NET Framework 4, you must compile your application with the target .NET Framework version specified in the properties for your project in Visual Studio, or you can specify the supported runtime with the Element in an application configuration file. If your application or component does not work after .NET Framework 4 is installed, please submit a bug on the Microsoft Connect Web site. You can test compatibility as described in the .NET Framework 4 Application Compatibility topic and learn about new features by using the Visual Studio 2010 and .NET Framework 4 Walkthroughs. For additional information and known migration issues, visit the .NET Framework Compatibility blog. The following sections describe deployment improvements. Client Profile The .NET Framework 4 Client Profile supports more platforms than in previous versions and provides a fast deployment experience for your applications. Several new project templates now target the Client Profile by default. For more information, see .NET Framework Client Profile. In-Process Side-by-Side Execution This feature enables an application to load and start multiple versions of the .NET Framework in the same process. For example, you can run applications that load add-ins (or components) that are based on the .NET Framework 2.0 SP1 and add-ins that are based on the .NET Framework 4 in the same process. Older components continue to use the older .NET Framework version, and new components use the new .NET Framework version. For more information, see In-Process Side-by-Side Execution. Back to top Core New Features and Improvements The following sections describe new features and improvements provided by the common language runtime and the base class libraries. Diagnostics and Performance Earlier versions of the .NET Framework provided no way to determine whether a particular application domain was affecting other application domains, because the operating system APIs and tools, such as the Windows Task Manager, were precise only to the process level. Starting with the .NET Framework 4, you can get processor usage and memory usage estimates per application domain. You can monitor CPU and memory usage of individual application domains. Application domain resource monitoring is available through the managed and native hosting APIs and event tracing for Windows (ETW). When this feature has been enabled, it collects statistics on all application domains in the process for the life of the process. See the new AppDomain.MonitoringIsEnabled property. You can now access the ETW events for diagnostic purposes to improve performance. For more information, see CLR ETW Events and Controlling .NET Framework Logging. Also see Performance Counters and In-Process Side-By-Side Applications. The System.Runtime.ExceptionServices.HandleProcessCorruptedStateExceptionsAttribute attribute enables managed code to handle exceptions that indicate corrupted process state. Garbage Collection The .NET Framework 4 provides background garbage collection. This feature replaces concurrent garbage collection in previous versions and provides better performance. For more information, see Fundamentals of Garbage Collection. Code Contracts Code contracts let you specify contractual information that is not represented by a method's or type's signature alone. The new System.Diagnostics.Contracts namespace contains classes that provide a language-neutral way to express coding assumptions in the form of preconditions, postconditions, and object invariants. The contracts improve testing with run-time checking, enable static contract verification, and support documentation generation. For more information, see Code Contracts. Design-Time-Only Interop Assemblies You no longer have to ship primary interop assemblies (PIAs) to deploy applications that interoperate with COM objects. In the .NET Framework 4, compilers can embed type information from interop assemblies, selecting only the types that an application (for example, an add-in) actually uses. Type safety is ensured by the common language runtime. See Using COM Types in Managed Code and Walkthrough: Embedding Type Information from Microsoft Office Assemblies (C# and Visual Basic). Dynamic Language Runtime The dynamic language runtime (DLR) is a new runtime environment that adds a set of services for dynamic languages to the CLR. The DLR makes it easier to develop dynamic languages to run on the .NET Framework and to add dynamic features to statically typed languages. To support the DLR, the new System.Dynamic namespace is added to the .NET Framework. The expression trees are extended with new types that represent control flow, for example, System.Linq.Expressions.LoopExpression and System.Linq.Expressions.TryExpression. These new types are used by the dynamic language runtime (DLR) and not used by LINQ. In addition, several new classes that support the .NET Framework infrastructure are added to the System.Runtime.CompilerServices namespace. For more information, see Dynamic Language Runtime Overview. Covariance and Contravariance Several generic interfaces and delegates now support covariance and contravariance. For more information, see Covariance and Contravariance in Generics. BigInteger and Complex Numbers The new System.Numerics.BigInteger structure is an arbitrary-precision integer data type that supports all the standard integer operations, including bit manipulation. It can be used from any .NET Framework language. In addition, some of the new .NET Framework languages (such as F# and IronPython) have built-in support for this structure. The new System.Numerics.Complex structure represents a complex number that supports arithmetic and trigonometric operations with complex numbers. Tuples The .NET Framework 4 provides the System.Tuple class for creating tuple objects that contain structured data. It also provides generic tuple classes to support tuples that have from one to eight components (that is, singletons through octuples). To support tuple objects that have nine or more components, there is a generic tuple class with seven type parameters and an eighth parameter of any tuple type. File System Enumeration Improvements New file enumeration methods improve the performance of applications that access large file directories or that iterate through the lines in large files. For more information, see How to: Enumerate Directories and Files. Memory-Mapped Files The .NET Framework now supports memory-mapped files. You can use memory-mapped files to edit very large files and to create shared memory for interprocess communication. 64-Bit Operating Systems and Processes You can identify 64-bit operating systems and processes with the Environment.Is64BitOperatingSystem and Environment.Is64BitProcess properties. You can specify a 32-bit or 64-bit view of the registry with the Microsoft.Win32.RegistryView enumeration when you open base keys. Other New Features The following list describes additional new capabilities, improvements, and conveniences. Several of these are based on customer suggestions. To support culture-sensitive formatting, the System.TimeSpan structure includes new overloads of the ToString, Parse, and TryParse methods, as well as new ParseExact and TryParseExact methods. The new String.IsNullOrWhiteSpace method indicates whether a string is null, empty, or consists only of white-space characters. New overloads have been added to the String.Concat and String.Join methods that concatenate members of System.Collections.Generic.IEnumerable(Of T) collections. The String.Concat method lets you concatenate each element in an enumerable collection without first converting the elements to strings. Two new convenience methods are available: StringBuilder.Clear and Stopwatch.Restart. The new Enum.HasFlag method determines whether one or more bit fields or flags are set in an enumeration value. The Enum.TryParse method returns a Boolean value that indicates whether a string or integer value could be successfully parsed. The System.Environment.SpecialFolder enumeration contains several new folders. You can now easily copy one stream into another with the CopyTo method in classes that inherit from the System.IO.Stream class. New Path.Combine method overloads enable you to combine file paths. The new System.IObservable(Of T) and System.IObserver(Of T) interfaces provide a generalized mechanism for push-based notifications. The System.IntPtr and System.UIntPtr classes now include support for the addition and subtraction operators. You can now enable lazy initialization for any custom type by wrapping the type inside a System.Lazy(Of T) class. The new System.Collections.Generic.SortedSet(Of T) class provides a self-balancing tree that maintains data in sorted order after insertions, deletions, and searches. This class implements the new System.Collections.Generic.ISet(Of T) interface. The compression algorithms for the System.IO.Compression.DeflateStream and System.IO.Compression.GZipStream classes have improved so that data that is already compressed is no longer inflated. Also, the 4-gigabyte size restriction for compressing streams has been removed. The new Monitor.Enter(Object, Boolean) method overload takes a Boolean reference and atomically sets it to true only if the monitor is successfully entered. You can use the Thread.Yield method to have the calling thread yield execution to another thread that is ready to run on the current processor. The System.Guid structure now contains the TryParse and TryParseExact methods. The new Microsoft.Win32.RegistryOptions enumeration lets you specify a volatile registry key that does not persist after the computer restarts. Registry keys are no longer restricted to a maximum length of 255 characters. Managed Extensibility Framework The Managed Extensibility Framework (MEF) is a new library in the .NET Framework 4 that helps you build extensible and composable applications. MEF enables you to specify points where an application can be extended, to expose services to offer to other extensible applications and to create parts for consumption by extensible applications. It also enables easy discoverability of available parts based on metadata, without the need to load the assemblies for the parts. For more information, see Managed Extensibility Framework. For a list of the MEF types, see the System.ComponentModel.Composition namespace. Back to top Parallel Computing The .NET Framework 4 introduces a new programming model for writing multithreaded and asynchronous code that greatly simplifies the work of application and library developers. The new model enables developers to write efficient, fine-grained, and scalable parallel code in a natural idiom without having to work directly with threads or the thread pool. The new System.Threading.Tasks namespace and other related types support this new model. Parallel LINQ (PLINQ), which is a parallel implementation of LINQ to Objects, enables similar functionality through declarative syntax. For more information, see Parallel Programming in the .NET Framework. Back to top Networking Networking improvements include the following: Security improvements for Windows authentication in several classes, including System.Net.HttpWebRequest, System.Net.HttpListener, System.Net.Mail.SmtpClient, System.Net.Security.SslStream, and System.Net.Security.NegotiateStream. Extended protection is available for applications on Windows 7 and Windows Server 2008 R2. For more information, see Integrated Windows Authentication with Extended Protection. Support for Network Address Translation (NAT) traversal using IPv6 and Teredo. For more information, see NAT Traversal using IPv6 and Teredo. New networking performance counters that provide information about HttpWebRequest objects. For more information, see Networking Performance Counters. In the System.Net.HttpWebRequest class, support for using large byte range headers (64-bit ranges) with new overloads for the AddRange method. New properties on the System.Net.HttpWebRequest class allow an application to set many HTTP headers. You can use the Host property to set the Host header value in an HTTP request that is independent from the request URI. Secure Sockets Layer (SSL) support for the System.Net.Mail.SmtpClient and related classes. Improved support for mail headers in the System.Net.Mail.MailMessage class. Support for a null cipher for use in encryption. You can specify the encryption policy by using the System.Net.ServicePointManager class and the EncryptionPolicy property. Constructors for the System.Net.Security.SslStream class now take a System.Net.Security.EncryptionPolicy class as a parameter. Credentials for password-based authentication schemes such as basic, digest, NTLM, and Kerberos authentication in the System.Net.NetworkCredential class. To improved security, passwords may now be treated as System.Security.SecureString instances rather than System.String instances. Ability to specify how a URI with percent-encoded values is converted and normalized in the System.Uri and System.Net.HttpListener classes. For more information, see the System.Net.Configuration.HttpListenerElement, System.Configuration.SchemeSettingElement, System.Configuration.SchemeSettingElementCollection, and System.Configuration.UriSection classes. ASP.NET version 4 introduces new features in the following areas: Core services, including a new API that lets you extend caching, support for compression for session-state data, and a new application preload manager (autostart feature). Web Forms, including more integrated support for ASP.NET routing, enhanced support for Web standards, updated browser support, new features for data controls, and new features for view state management. Web Forms controls, including a new Chart control. MVC, including new helper methods for views, support for partitioned MVC applications, and asynchronous controllers. Dynamic Data, including support for existing Web applications, support for many-to-many relationships and inheritance, new field templates and attributes, and enhanced data filtering. Microsoft Ajax, including additional support for client-based Ajax applications in the Microsoft Ajax Library. Visual Web Developer, including improved IntelliSense for JScript, new auto-complete snippets for HTML and ASP.NET markup, and enhanced CSS compatibility. Deployment, including new tools for automating typical deployment tasks. Multi-targeting, including better filtering for features that are not available in the target version of the .NET Framework. For more information about these features, see What's New in ASP.NET 4 and Visual Web Developer. Client Windows Presentation Foundation In the .NET Framework 4, Windows Presentation Foundation (WPF) contains changes and improvements in many areas, including controls, graphics, and XAML. For more information, see What's New in WPF Version 4. Back to top Data ADO.NET ADO.NET provides new features for the Entity Framework, including persistence-ignorant objects, functions in LINQ queries, and customized object layer code generation. For more information, see What's New in ADO.NET. Dynamic Data For ASP.NET 4, Dynamic Data has been enhanced to give you even more power for quickly building data-driven Web sites. This includes the following: Automatic validation that is based on constraints that are defined in the data model. The ability to easily change the markup that is generated for fields in the GridView and DetailsView controls by using field templates that are part of a Dynamic Data project.For more information, see What's New in ASP.NET 4 and Visual Web Developer. WCF Data Services ADO.NET Data Service has been renamed to WCF Data Services, and has the following new features Data binding. Counting entities in an entity set. Server-driven paging. Query projections. Custom data service providers. Streaming of binary resources. For more information, see What's New in WCF Data Services. Windows Communication Foundation Windows Communication Foundation (WCF) provides the following improvements: Configuration-based Activation: Removes the requirement for having an .svc file. System.Web.Routing Integration: Allows you to have more control over your service's URL (extensionless URLs). Multiple IIS Site Bindings Support: Allows you to have multiple base addresses with the same protocol on the same Web site. Routing Service: Allows you to route messages based on content. Support for WS-Discovery: Allows you to create and search for discoverable services. Standard Endpoints: Predefined endpoints that allow you to specify only certain properties. Workflow Services: Integrates WCF and WF by providing activities to send and receive messages, the ability to correlate messages based on content, and a workflow service host. WCF REST features: Web HTTP Caching: Allows caching of Web HTTP service responses. Web HTTP Formats Support: Allows you to dynamically determine the best format for a service operation to respond in. Web HTTP Services Help Page: Provides an automatic help page for Web HTTP services, similar to the WCF service help page. Web HTTP Error Handling: Allows Web HTTP Services to return error information in the same format as the operation. Web HTTP Cross-Domain JavaScript Support: Allows use of JSONP. Simplified Configuration: Reduces the amount of configuration a service requires For more information, see What's New in Windows Communication Foundation. Windows Workflow Foundation Windows Workflow Foundation provides improvements in the following areas: Improved Workflow Activity Model: The Activity class provides the base abstraction of workflow behavior. Rich Composite Activity Options: Workflows benefit from new flow-control activities that model traditional flow-control structures, such as Flowchart, TryCatch, and Switch. Expanded Built-In Activity Library: New features of the activity library include new flow-control activities, activities for manipulating member data, and activities for controlling transactions. Explicit Activity Data Model: New options for storing or moving data include variable and directional arguments. Enhanced Hosting, Persistence, and Tracking Options: Hosting enhancements include more options for running workflows, explicit persistence using the Persist activity, persisting without unloading, preventing persistence using no-persist zones, using ambient transactions from the host, recording tracking information to the event log, and resuming pending workflows using Bookmark. Easier ability to extend the WF designer: The new WF Designer is built on Windows Presentation Foundation (WPF) and provides an easier model to use when rehosting the WF Designer outside of Visual Studio. 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