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SUSE® LINUX ENTERPRISE MONO® EXTENSION

IT organizations are faced with the challenge of increasing scalability and performance, while at the same time reducing cost and complexity. One of the primary technologies in many IT environments is the .NET framework, which is only available today on the Windows* operating system. Therefore, customers cannot choose the operating system on which they develop, test and deploy their .NET applications. SUSE® Linux Enterprise Mono® Extension is a .NET application framework that enables IT organizations to leverage their current investments and skill sets to run existing .NET-based applications on Linux* and build new .NET applications for both Linux and Windows. SUSE Linux Enterprise Mono Extension delivers all the performance, scalability and hardware support of the SUSE Linux Enterprise platform to the .NET application environment, giving IT organizations and developers more flexibility and choice than ever.

Product Overview

What is SUSE Linux Enterprise Mono Extension, and how is it associated with the .NET application framework?

- SUSE Linux Enterprise Mono Extension, a .NET application framework, enables organizations to run their Microsoft .NET-based server applications on Linux. Based on Mono—an open source, cross-platform .NET application framework—and run in conjunction with SUSE Linux Enterprise Server, it allows IT organizations to easily port .NET-based applications from Windows to Linux without a major investment in rewriting code.
- This latest version of Mono (version 2.4) includes a .NET-compatible runtime, which is compatible with the desktop and server components of version 2.0 of the Microsoft .NET Framework, as well as portions of version 3.5 of the .NET Framework, including C# 3.0 and LINQ.
- Corporate and ISV developers now have access to the technology that makes running .NET applications on Linux possible, and to the full support, security and upgrades that come with a SUSE Linux Enterprise subscription.
- Corporate and ISV developers can host ASP.NET 2.0-, ASP.NET AJAX- and ASP.NET MVC-enabled applications on the Apache Web server, exposing .NET features and functionality to other Linux and UNIX* applications.
- Corporate and ISV developers who run .NET on Linux receive support for mainframe-based (s390x) server consolidation in addition to x86 and x86_64.
- Features include advanced 64-bit support (in Mono), 16 GB memory and 32 CPU count and faster networking and IO stacks.
- C# and Visual Basic programs written and compiled in Visual Studio can now be run on Linux.
- Learn more about SUSE Linux Enterprise Mono Extension. Visit www.novell.com/products/mono to download and install the product.





Contact your local Novell® Solutions Provider, or call Novell at:

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Key Benefits

You rely on the .NET framework in order to develop the best applications for your customers and your organization. You need to be sure that you can choose the operating system on which you develop, test and deploy these .NET applications. Use SUSE Linux Enterprise Mono Extension to achieve maximum flexibility, scalability and performance for your .NET applications.

- **Better scalability and performance at a lower cost:** *SUSE Linux Enterprise Mono Extension allows your .NET applications to achieve greater scalability and performance through features such as full 64-bit support within the framework and higher memory and CPU counts, as well as native virtual machine support.*
- **Increased productivity:** *SUSE Linux Enterprise Mono Extension allows .NET developers to maintain and improve existing development practices and productivity levels associated with running their .NET-based server applications. It also improves interoperability of .NET applications with Java* and other legacy Linux and UNIX applications by enabling developers to combine investments in .NET and Java* on Linux.*
- **Greater flexibility:** *SUSE Linux Enterprise Mono Extension empowers organizations to choose the right platform to host their applications, giving customers and ISVs the ability to run new solutions that were previously unavailable outside of the Windows framework. Finally, SUSE Linux Enterprise Mono Extension supports mainframe-based server consolidation, which results in increased flexibility for organizations that want to utilize their physical resources on the most commonly used hardware platforms.*

Targeted Workloads

SUSE Linux Enterprise Mono Extension targets ISV developers who utilize the .NET Framework to build applications (for all of the workloads listed below) to be sold into the market as products for both large- and small- to mid-size deployments.

Corporate or in-house developers leverage and customize .NET-based applications developed by ISVs in order to deploy many applications throughout larger-scale deployments, including:

- *Web application deployment, including line of business (LOB) and large-scale deployments*
- *Web-based workloads including Web services and Web site design or development*
- *Third-party and/or highly customized: Web content management, ERP, CRM and supply-chain management applications*
- *JEE applications (exposing .NET functionality from legacy UNIX and Linux applications)*
- *IT infrastructure*

System Requirements

Minimum Linux server system requirements for installation:

- **Local installation:** 512 MB RAM
- **Secure Shell (SSH)-based network install, graphical:** 512 MB RAM
- **Virtual Network Computing (VNC)-based network install using File Transfer Protocol (FTP):** 512 MB RAM

Minimum Linux server system requirements for operation:

- 512 MB RAM
- 750 MB hard disk space for software
- 750 MB hard disk space for user data

Recommendations for specific uses:

- *For Web servers—Additional RAM to improve caching, and additional processors*
- *For database servers—Additional RAM to improve caching, and using multiple disks for parallel I/O*
- *For file servers—Additional memory and disks, or a Redundant Array of Inexpensive Disks (RAID) system to improve I/O throughput*

Supported processor platforms:

- x86
- x86_64 (AMD64 and Intel EM64T)
- IBM* System z* (64-bit)

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