Red Hat

Discover

Red Hat Developer Tools

November 11, 2026

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1 Discover

Choose supported Go, LLVM, and Rust toolchains on RHEL

When you need a supported language toolchain on Red Hat Enterprise Linux, choose which Red Hat Developer Tools components to use and when, so you can build with versions aligned to the Red Hat Enterprise Linux support lifecycle instead of unsupported upstream installs.

Go Toolset

Use the Go Toolset, a Red Hat-supported Go toolchain on Red Hat Enterprise Linux for building, testing, and deploying applications with versions aligned to the Red Hat Enterprise Linux support lifecycle. It includes the Go compiler, standard library, `gofmt`, and the race detector.

Related information
Official Go documentation

Go Toolset components

The following table lists the main Go Toolset packages, their versions, and a short description of each.

Packages included in Go Toolset

Name	Version	Description
golang	1.26.2	A Go compiler.
delve	1.26.2	A Go debugger.

Go Toolset compatibility

Go Toolset is available for Red Hat Enterprise Linux on AMD and Intel 64-bit (x86_64), 64-bit ARM (aarch64), IBM Power Systems, Little Endian (ppc64le), and 64-bit IBM Z (s390x) architectures.

LLVM Toolset for C and C++

Compile, debug, and analyze C and C++ applications on Red Hat Enterprise Linux with LLVM Toolset (Clang and LLDB). Use the system GCC toolchain or GCC Toolset when you need `gcc`, `g++`, or `gdb`.

Related information
Official LLVM documentation

LLVM Toolset components

LLVM Toolset provides Clang, LLDB, LLVM, compiler-rt, libomp, LLD, and python-lit for compiling, linking, and debugging C and C++ code. Each package in this release is version 21.1.8.

Packages included in LLVM Toolset

Name	Version	Description
clang	21.1.8	An LLVM compiler front end for C and C++.
lldb	21.1.8	A C and C++ debugger using portions of LLVM.
compiler-rt	21.1.8	Runtime libraries for LLVM and Clang.
llvm	21.1.8	A collection of modular and reusable compiler and toolchain technologies.
libomp	21.1.8	A library for using the OpenMP API for parallel programming.

Name	Version	Description
lld	21.1.8	An LLVM linker.
python-lit	21.1.8	A software testing tool for LLVM- and Clang-based test suites.

NOTE:
The `CMake` build manager is not part of LLVM Toolset. `CMake` is available in the system repository. For more information on how to install `CMake`, see Install the `CMake` build manager.

LLVM Toolset compatibility

You can use LLVM Toolset on Red Hat Enterprise Linux on AMD and Intel 64-bit (x86_64) and 64-bit ARM (aarch64) systems. You can also use it on IBM Power Systems, Little Endian (ppc64le), and 64-bit IBM Z (s390x) systems.

Rust Toolset

Use the Rust Toolset for a Red Hat-supported Rust toolchain on Red Hat Enterprise Linux to build, test, and ship applications with versions aligned to the Red Hat Enterprise Linux support lifecycle. It includes `rustc`, Cargo, `rustfmt`, and required libraries.

Related information
Official Rust documentation

Rust Toolset components

The following table lists the main Rust Toolset packages, their versions, and a short description of each.

Packages included in Rust Toolset

Name	Version	Description
`rust`	1.92.0	The Rust compiler front-end for LLVM.
`cargo`	1.92.0	A build system and dependency manager for Rust.
`rustfmt`	1.92.0	A tool for automatic formatting of Rust code.

Rust Toolset compatibility

Rust Toolset is available for Red Hat Enterprise Linux on AMD and Intel 64-bit (x86_64), 64-bit ARM (aarch64), IBM Power Systems, Little Endian (ppc64le), and 64-bit IBM Z (s390x) architectures.