Red Hat

# Install

## Red Hat Developer Tools



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# Contents

**1 Install ..... 3**

Provision a Go development environment ..... 3

Provision a C and C++ development environment ..... 4

Provision a Rust development environment ..... 5

# 1 Install

## Provision a Go development environment

Set up Go Toolset on Red Hat Enterprise Linux to compile, run, and maintain Go applications with a Red Hat-supported toolchain in your development environment.

Related information
Official Go documentation

# Install Go Toolset

Install Go Toolset and all dependent packages on Red Hat Enterprise Linux by enabling the `go-toolset` module on RHEL 8 or installing the `go-toolset` package on RHEL 9 and 10.

**Before you begin**

- All available Red Hat Enterprise Linux updates are installed.
- Install Go Toolset:
  - On RHEL 8, enter:

```
# yum module install go-toolset
```

  - On RHEL 9 and 10, enter:

```
# dnf install go-toolset
```

- Optional: Install local Go documentation packages:
  - On RHEL 8, enter:

```
# yum install golang-docs
```

  - On RHEL 9 and 10, enter:

```
# dnf install golang-docs
```

## Provision a C and C++ development environment

Set up LLVM Toolset on Red Hat Enterprise Linux to compile, debug, and build C and C++ applications by using a Red Hat-supported toolchain in your development environment.

Related information
Official LLVM documentation

# Install LLVM Toolset

On Red Hat Enterprise Linux 8, enable the `llvm-toolset` module to install LLVM Toolset and dependent packages. On Red Hat Enterprise Linux 9 and 10, install the `llvm-toolset` package instead.

**Before you begin**

- All available Red Hat Enterprise Linux updates are installed.

**Procedure**

1. Install LLVM Toolset:
   - On RHEL 8, enter:

     ```
     # yum module install llvm-toolset
     ```

   - On RHEL 9 and 10, enter:

     ```
     # dnf install llvm-toolset
     ```

2. To also install the LLDB debugger and the `python3-lit` package, enter:

   ```
   # dnf install lldb python3-lit
   ```

# Install the `CMake` build manager

The `CMake` build manager manages your build process independently from your compiler. `CMake` generates a native build environment to compile code, create libraries, generate wrappers, and build executable files. Install the `cmake` package on your system.

**Before you begin**

- LLVM Toolset is installed.
- Install `CMake`:

```
# yum install cmake
```

- Optional: Install the `cmake-doc` package for local HTML documentation:

```
# dnf install cmake-doc
```

Related information
Official documentation
Reference Documentation - Introduction
Tutorial

## Provision a Rust development environment

Set up Rust Toolset on Red Hat Enterprise Linux to compile, run, and maintain Rust applications by using a Red Hat-supported toolchain in your development environment.

Related information
Official Rust documentation

# Install Rust Toolset

On Red Hat Enterprise Linux 8, enable the `rust-toolset` module to install Rust Toolset and dependent packages. On Red Hat Enterprise Linux 9 and 10, install the `rust-toolset` package instead. On Red Hat Enterprise Linux 10, Rust 1.92 requires LLVM Toolset 21.

**Before you begin**

- All available Red Hat Enterprise Linux updates are installed.

**Procedure**

1. Install Rust Toolset:
   - On RHEL 8, enter:

```
# yum module install rust-toolset
```

- On RHEL 9 and 10, enter:

```
# dnf install rust-toolset
```

2. Optional: Install local Rust and Cargo documentation packages:
   - On RHEL 8, enter:

```
# yum install rust-doc cargo-doc
```

   - On RHEL 9 and 10, enter:

```
# dnf install rust-doc cargo-doc
```