

Cross compilation

You can cross compile your Rust code using the target specifier. For example:

```
cargo build --target x86_64-unknown-linux-gnu --release
```

You can list all targets using `rustup target list` and add the targets you need. But often you need an environment with the correct tooling. This is made easier using the **cross** ([Github](#)) tool.

Install cross

You can simply use cargo to install cross:

```
cargo install cross --git https://github.com/cross-rs/cross
```

Cross requires either **docker** or **podman** on your machine, because it uses docker images to provide the necessary tooling.

It automatically chooses the engine, but you can also set it using the environment variable

```
CROSS_CONTAINER_ENGINE
```

Build using cross

You can now build using cross by replacing the "cargo build" with "cross build":

```
# cross build --target <your target> <additional parameters>
cross build --target x86_64-unknown-linux-gnu --release

# Or with a different container engine
CROSS_CONTAINER_ENGINE=podman cross build --target x86_64-unknown-linux-gnu --release
```

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