title: Installation

Get started with MEV-Boost installation with this guide. Whether you are looking to install it on a machine with the beacon client or multiple beacon clients, this guide will assist you in setting it up smoothly.

Prerequisites

- For a comprehensive guide on preparing for the merge, refer toRémy Roy's guide.
- Ensure you have Go 1.18+ installed for source-based installations.

Installation Methods

Using Binaries

For convenience, each release includes binaries suitable for Linux, Windows, and macOS (both amd and arm). Find the latest releases here.

From Source

Build and install with `go install`

The easiest way to build and install MEV-Boost from sources is to use`go install`. You can simply execute the`go install` command as shown below:

```
bash go install github.com/flashbots/mev-boost@latest mev-boost -help
```

This would install the latest version of MEV-Boost in your`$GOPATH/bin` directory. You can then run the`mev-boost` command from anywhere in your terminal.

If you want to install a specific version, you can use the`@` syntax:

```
bash go install github.com/flashbots/mev-boost@VERSION
```

Simply look up the specific version you want to install in thereleases page.

Clone and Build

You can also clone the repository and build the software yourself without using`go install`.

1. Clone the repository:

```
bash git clone https://github.com/flashbots/mev-boost.git cd mev-boost
```

1. (Optional) To build a specific release, refer to the availablereleases and checkout the desired tag:

```
bash git checkout tags/YOUR_VERSION
```

1. Build the software:

```
bash make build
```

1. If you experience issues, use the portable build:

```
bash make build-portable
```

1. Verify your installation:

```
bash ./mev-boost -help
```

From Docker Image

Flashbots provides maintained Docker images for MEV-Boost.

1. Install Docker Engine.
2. Pull the latest MEV-Boost image:

```
bash docker pull flashbots/mev-boost:latest
```

Or pull the portable version:

```
bash docker pull flashbots/mev-boost:latest-portable
```

1. Run the Docker image:

```
bash docker run flashbots/mev-boost -help
```

Systemd Configuration

To keep MEV-Boost running as a service, configure systemd by creating the systemd config file `/etc/systemd/system/mev-boost.service`.

Below is an example of a config file:

```ini [Unit] Description=mev-boost Wants=network-online.target After=network-online.target

[Service] User=mev-boost Group=mev-boost WorkingDirectory=/home/mev-boost Type=simple Restart=always RestartSec=5 ExecStart=/home/mev-boost/bin/mev-boost \ -mainnet \ -relay-check \ -relays YOUR_RELAY_CHOICE

[Install] WantedBy=multi-user.target ```

## Troubleshooting

If you encounter an error: `"SIGILL: illegal instruction"`, you'll need to use the portable build.

There are three ways to install the portable build:

1. Use the portable Docker image.
2. Build the portable version from source:

```
bash make build-portable
```

1. Using `go install`:

```
bash CGO_CFLAGS="-O -D__BLST_PORTABLE__" go install github.com/flashbots/mev-boost@latest
```
```