eBPF Configuration Tech Note

This page outlines how to configure and enable **eBPF integration** for TapeTrack Server on Linux systems. eBPF (Extended Berkeley Packet Filter) allows TapeTrack to dynamically manage IP-level blocking at the kernel level during the time-out period.

Prerequisites

Before enabling eBPF support, ensure the following:

- Linux kernel version **4.4 or later**
- **Root or sudo privileges**
- TapeTrack Server binary supports the `-B` argument
- A **preloaded eBPF table** is available and accessible

Setup

Create or Load an eBPF Table

Use your preferred method to create an eBPF table that supports IP filtering. This may involve:

- Using `bpftool` or `tc` to define a map
- Preloading the table with default values
- Ensuring the table is accessible to the TapeTrack Server process

Example: ```bash bpftool map create /sys/fs/bpf/tapetrack_block_map type hash key 4 value 4 entries 1024 name tapetrack_block_map