eBPF Foundation

Updates and Looking ahead

Joe Stringer, et al.

Agenda

- What's the eBPF Foundation?

- Why should you care?

- How can we help to support the community?

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The purpose of the eBPF Foundation is to raise, budget and spend funds in support of the eBPF community and the "Technical Project(s)" as defined by the Project Progression Policy.

https://ebpf.foundation/charter/

eBPF Foundation Members

Platinum

Silver

eBPF Foundation Groups

Governing Board

eBPF Steering Committee

Marketing Committee

eBPF Steering Committee ("BSC")

Alan
Jowett

Alexei
Starovoitov

Andrii
Nakryiko

Brendan
Gregg

Daniel
Borkmann

KP
Singh

Joe
Stringer

bsc@lists.ebpf.foundation

Focus areas

Encouraging Open Collaboration

- coordinating collaboration within the eBPF community, including the development of an overall technical vision for the community;

- proposing community development activities to the Governing Board, and coordinating and evangelizing eBPF Projects and technologies to current and potential developers and users.

Technical Projects

- defining requirements and the process for a project applying to become an eBPF Foundation Project;

- ensuring eBPF Foundation Projects follow all requirements for trademark and account ownership, and

- approving and maintaining an eBPF Foundation Project lifecycle policy that will address the incubation, archival and other stages and requirements of Technical Projects.

Growing the Community

- proposing priorities to the Governing Board for events, travel funds, and other investments to grow the eBPF community of developers and users.

- identifying and facilitating areas of collaboration with adjacent open source communities to support eBPF's use and adoption, such as communities focused on compilers, kernels, and debuggers

Ongoing Activities

Activities 2023

- [eBPF standardization](#)

- Conference involvement:

  - LSF/MM/BPF, LPC, SIGCOMM eBPF workshop, eBPF summit and many more

- Conference sponsorship - LPC

- Conference travel sponsorship

- [Technical Roadmap for BPF](#)

- [Unlocking the Kernel - the eBPF Documentary](#)

https://ebpf.foundation/bpf-steering-committee-year-in-review/

Activities 2024

- [State of eBPF Report](#)

- Conference involvement:

  - eBPF Day IN, LSF/MM/BPF, LPC, eBPF Summit, Kubecon

- Conference sponsorship:

  - LSF/MM/BPF, LPC, Kubecon NA, Kernel Recipes

- Statements of Work on key infrastructure improvements

  - More details on next slide

- [Academic Research Fund](#) (Deadline June 30)

- BPF verifier audit, threat model (information gathering phase)

Directed Development

- [BPF selftests](#) (Bootlin, committed)

- [BPF on arm64](#) (Bootlin, committed)

- [LLVM BPF backend](#) (looking for contractors)

- [BPF on riscv64](#) (future)

- Syzkaller BPF/BTF coverage (future)

Discussion

- Where could the eBPF Foundation further focus?