

# 06-15-2022 TSC Meeting Minutes

TSC Meeting [Zoom](#) link

Meeting Recording

Meeting Chat File

Attendees & Representation. Please add your name to the attendance table below.

Attendees	
Name	Company
Eric Tice	Wipro
<a href="#">Daniel Havey</a>	Microsoft
<a href="#">Jason Niesz</a>	Walmart
<a href="#">Santhosh Fernandes</a>	walmart
<a href="#">Dhivya R</a>	walmart
<a href="#">Cindy Wan</a>	Microsoft
<a href="#">Nitin Taur</a>	Walmart
<a href="#">Satya Pradhan</a>	Walmart
<a href="#">Atul Prajapati</a>	Walmart

LF Staff: [LJ Illuzzi](#)

## Agenda

- [LF Antitrust Policy](#)
- Meeting note taker
- Welcome to new attendees
- Issues/pull requests
- Roadmap planning
- Release Management
- [LJ Illuzzi](#) will not be on the 06/15 (DTF) and 06/22 (Vacation) TSC calls.
- General Topics (cover as needed)
  - Use Cases
  - Roadmap
  - Project structure
    - Governance
    - Technical Steering Committee
- PRs
  - <https://github.com/l3af-project/l3afd/pull/75> - default to 30 day warning
  - <https://github.com/l3af-project/l3afd/pull/69>

## Minutes/Updates

- Make repo config into the json config and support local file
  - Where is the json .cfg?
  - The comments are the only docs we have for the config.
    - Would be nice to have a doc for this
- When should PRs be approved how many approvals needed?
  - 2 separate from the submitter
- Monitoring the expiration of TLS certs.
  - Added configurable warning
  - 30 day warning by default
- Running L3AFd on Azure VM.
  - use port 8080
  - clone l3afd repo run go install
  - Use port 7080
  - Change the port
- Roadmap and Release schedule Initial
  - Release will increase our badging score
  - What are the big rocks?
    - mTLS
      - Trust based on CA
      - Trust if it's signed by CA and matches pattern
    - define repos per eBPF package
      - Atul working on this now
    - Security RBAC - Read only user vs. Admin.
  - Having L3AFD running on an Azure VM in Windows and Linux
  - Running rate limiting and XDP root on Windows
  - Signed eBPF programs(?) - Stretch goal.
  - Multiple repo support.
  - mTLS - key should never be in the source code or a cfg.
    - Could be in a separate file that only the l3afd user can access it.
    - Use cloud services for prod.
    - Every time we generate a new token.
    - Client can use the token until we regenerate
    - Sign token for read user then that is part of the hash
    - the role is signed in the token.
    - If we have a token with the assigned role then we can auth and validate the user.
    - Use local file store for dev and cloud provider option for prod.
  - Timeframe:
    - 1-2 months
- Thoughts about release cadence
  - Every 2-3 months(?) - too aggressive
  - Let's try 6 months for starters.
    - Eventually go to quarterly
- Long term roadmap
  - Chaining semantics
    - Cilium has their own semantics
    - Standardize XDP dispatcher
      - Have multiple progs attach to interface on XDP
      - Approach is impossible on the TC side
        - Testing now.
      - lib XDP convert into go lang
      - directly call APIs from l3afd
      - Newer version of prog with mult eBPF progs attached in priority
      - l3af chaining and Cilium not compat.
        - Should we change our semantics?
          - tracking progs and maps
        - Should be seamless in kube environment
      - desktop apps for l3afd
        - Running on service
  - Looking at using core. (Linux Kernel)
    - write eBPF progs to leverage core semantics across different kernel releases
    - Move everything to latest libBPF
    - Move to latest libBPF APIs
  - Package signing
  - We support mostly network now
    - Observability is separate
    - Network chaining
      - Had plans like adding observability into l3af platform
    - Support of Kprobes/Uprobes
  - l3afd daemon as robust as possible
  - Package manager (marketplace stuff)
  - Do we have a secure mode that makes sure eBPF programs that are not in the l3afd set are unloaded.
    - if l3afd is inserting programs for security and someone outside of l3afd and unloads one of the sec progs.
      - l3afd should detect and enforce this.
    - eBPF program enforcement
    - right now it won't pick this up until you make a change.
- PR to add to l3af-arch: <https://github.com/l3af-project/l3afd/pull/76>
- Add issue to l3af-arch issue

- Start drafting form this initial set of requirements

## Action Items

Posted Roadmap for further discussion on l3af-arch:

<https://github.com/l3af-project/l3af-arch/discussions/39>

## Future Agenda Items