

# 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   |
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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