

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
Daniel Havey	Microsoft
Jason Niesz	Walmart
Santhosh Fernandes	walmart
Dhivya R	walmart
Cindy Wan	Microsoft
Nitin Taur	Walmart
Satya Pradhan	Walmart
Atul Prajapati	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