Inside the Zeek project

Organization, Governance & Community

Johanna Amann, Corelight
Zeek LT Chair

Who am I


TECHNISCHE
UNIVERSITÄT
MÜNCHEN
ICSI
INTERNATIONAL
COMPUTER SCIENCE
INSTITUTE
corelight

Zeek LT?

What does Leadership Team mean?

Who is part of the Leadership Team?

How is an Open Source project organised?

How does this work for Zeek?

Who is responsible for what?

How are decisions made?

Can I be part of this?

How does Corelight fit into this?

Zeek LT?

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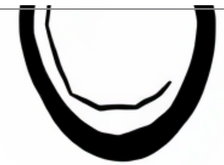
Zeek Project Leadership Team Process and Description

Christian Kreibich edited this page on Jun 22, 2023 · 12 revisions

What is the Zeek Leadership Team?

The Zeek Leadership Team (LT) is our top-level community leadership and governance body. The LT is ultimately accountable for the Zeek Project as a whole, and is responsible for providing advice to and oversight of other Zeek governance bodies and teams as needed. The LT is also responsible for ensuring that the administration, programs, and strategic plan of the project as well as funding, marketing, and community outreach are being conducted. The LT will often execute through delegation but will maintain oversight responsibilities. Currently, the Zeek LT operates as an organizational board, technical governance committee, and community council, all in one. In the future, the LT may break out those functions into sub-committees, yet it will remain responsible for stewardship of the Zeek Project as a whole.



Zeek Leadership Team

Community Leadership

Governance Body

Fiduciary Responsibility

Outreach & events

Communication

Dispute resolution

Final authority

Zeek Committers

Technical Leadership

Roadmap / Direction

Source Code

Host technical infrastructure (e.g. CI)

Releases

Security

New Documentation

Leadership Team

Current members:

- Aashish Sharma, Lawrence Berkeley Lab
- Christian Kreibich, Corelight (Technical Lead Seat)
- Fatema Bannat Wala, ESnet
- Johanna Amann, Corelight (Chair)
- Keith Lehigh, University of Colorado
- Vacant - (Community Lead Seat)
- Robin Sommer, Corelight
- Seth Grover, Idaho National Lab
- Vern Paxson, Corelight & UC Berkeley (Founder Seat)

Meets bi-weekly

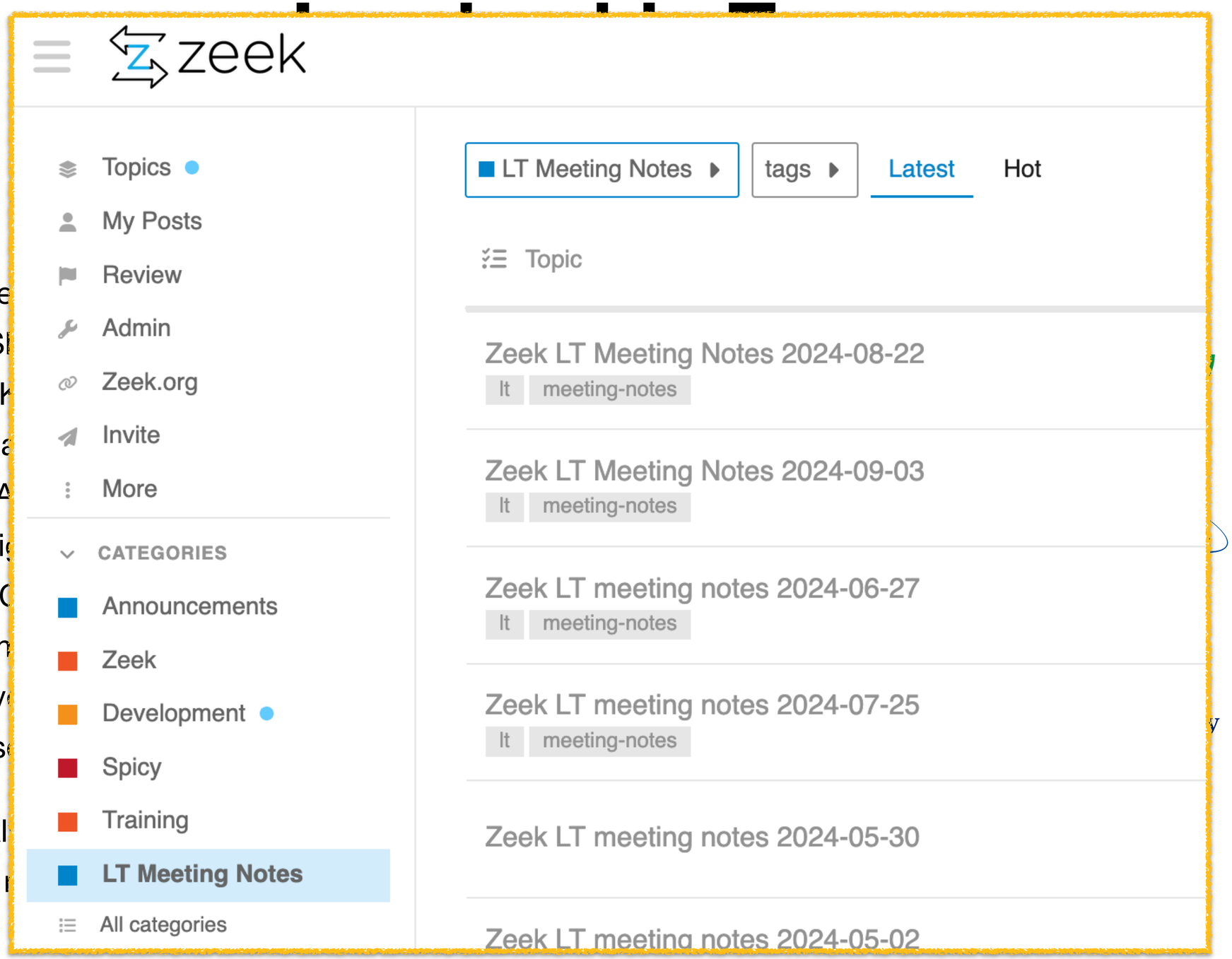
Posts meeting notes online

Current membe

- Aashish Sh
- Christian K
- Fatema Ba
- Johanna A
- Keith Lehig
- Vacant - (C
- Robin Son
- Seth Grov
- Vern Paxs

Meets bi-weekl

Posts meeting r



Committers

Current members:

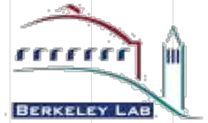
- Arne Welzel (Corelight)
- Benjamin Bannier (Corelight)
- Christian Kreibich (Corelight, Technical Lead)
- Johanna Amann (Corelight)
- Robin Sommer (Corelight)
- Seth Hall (Independent)
- Tim Wojtulewicz (Corelight)

Most communication in the open (GitHub issues/pull requests)

Members also in the community calls

How did we get there?

1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025



Zeek fills operational need at LBL

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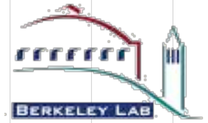

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Zeek used as a research tool, driving development and innovation

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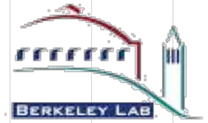

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Community: researchers and enthusiasts

Develops from research project into open source project

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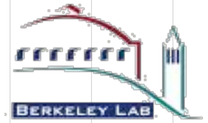

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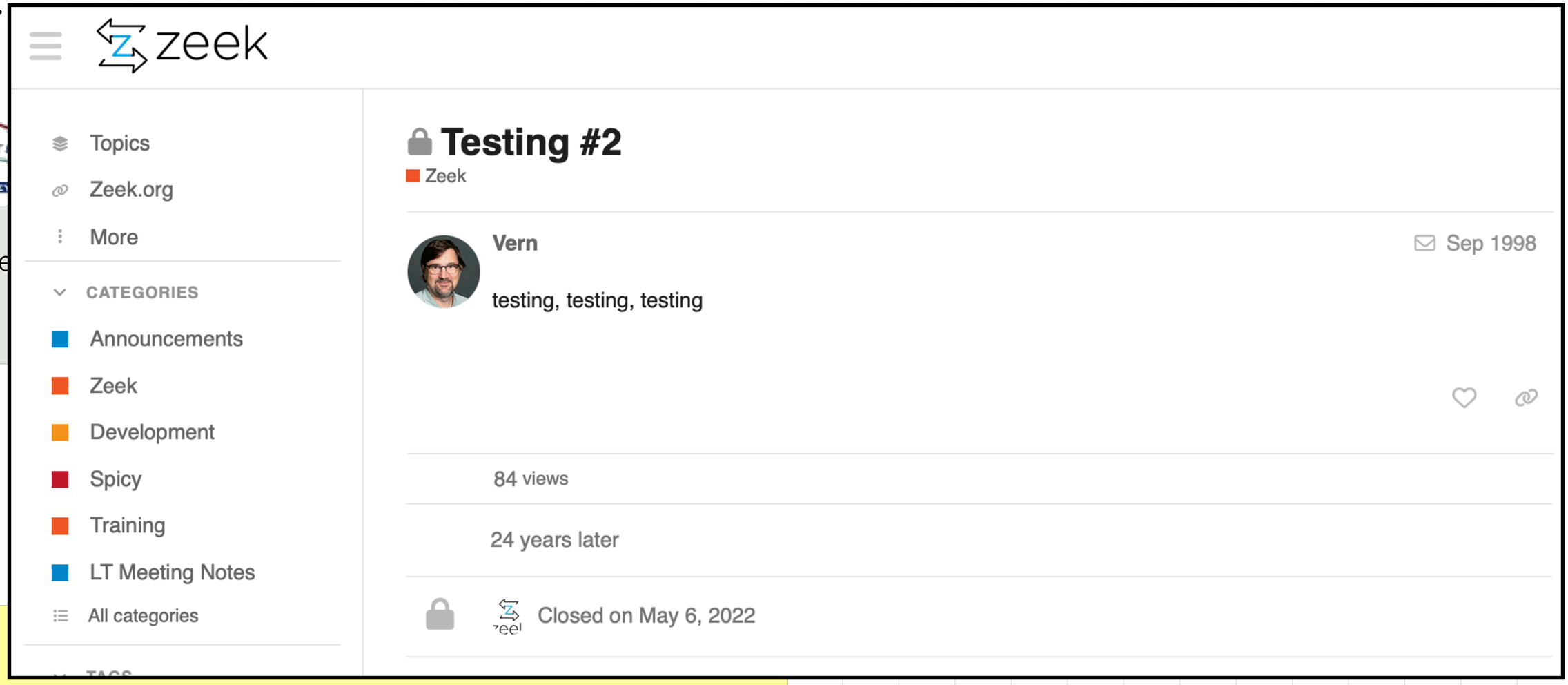

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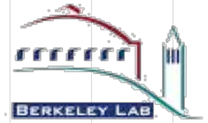

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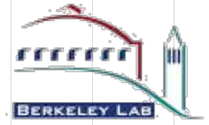

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SVN access

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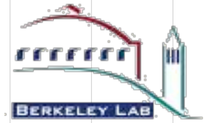

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Mailing List

SVN access

Bug tracker

Community: researchers and enthusiasts

Develops from research project into open source project

How did we get there?

1995 1996 2024 2025

Ticket	Type	Summary	Status	Component	Reporter	Owner	Priority	Created
#5	Problem	Bug with table[] of set[] initializers	seen	Bro	Christian	--	Normal	4 months
#6	Problem	Switching between plain ./configure and ./configure --enable-debug requires make clean	accepted	Bro	Christian	kreibich	Normal	4 months
#8	Task	Handling optional fields	accepted	Broccoli	vallenti	kreibich	Normal	4 months
#9	Task	Creating a Broccoli event from raw pointers	accepted	Broccoli	vallenti	kreibich	Normal	4 months
#10	Problem	Segmentation fault when running Bro with all.bro	accepted	Bro	vallenti	robin	Normal	4 months
#11	Task	Remove global _attr from the script interpreter code	accepted	Bro	robin	robin	Normal	4 months
#12	Feature Request	Capture from multiple interfaces	accepted	Cluster Shell	robin	robin	Normal	4 months
#13	Feature Request	Run custom script with cluster	accepted	Cluster Shell	robin	robin	Normal	4 months
#14	Problem	Fix "make install"	seen	Bro	robin		Normal	4 months
#16	Problem	Core dump with duplicates in subnets sets	seen	Bro	robin		Normal	4 months
#17	Problem	MemoryAllocation() core dumps at termination	accepted	Bro	robin	robin	Normal	4 months
#18	Problem	Packet drop numbers incorrect on Linux with new libpcap	seen	Bro	pw@…	--	High	4 months
#20	Feature Request	notice handling needs to accommodate a set of actions, not just one action	seen	Bro	vern		Normal	4 months
#21	Feature Request	$msg text in notices/alarms is ad hoc in structure	seen	Bro	vern		Normal	4 months
#22	Feature Request	sub/gsub support for '&'	seen	Bro	vern		Normal	4 months
#23	Feature Request	DNS log format is hard to parse	seen	Bro	vern		Normal	4 months
#24	Problem	inconsistent behavior with respect to out-of-range vector references	seen	Bro	vern		Normal	4 months
#25	Feature Request	TRW should be more flexible in determining what connections to skip	seen	Bro	vern		Normal	4 months
#26	Feature Request	case insensitive regular expressions	seen	Bro	vern		Normal	4 months
#27	Feature Request	conversion of tables to vectors	seen	Bro	vern		Normal	4 months
#28	Feature Request	TFTP analyzer	seen	Bro	vern		Normal	4 months
#30	Problem	Drop logic doesn't pass reason to external script	seen	Bro	rreitz@…	--	Normal	4 months
#31	Problem	Loading listen-clear causes CPU load to increase dramatically	seen	Bro	seth		Normal	4 months
#32	Problem	Bug in SteppingStone analyzer causes segmentation faults	seen	Bro	vallenti		Normal	4 months
#33	Problem	Broccoli: race condition during concurrent connection intialization	accepted	Broccoli	vallenti	kreibich	Normal	4 months

Zeek

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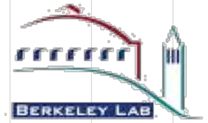

Zeek fills operational need at LBL

Zeek used as a research tool, driving development and innovation

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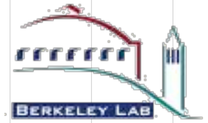

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NSF finances tech transfer at ICSI & NCSA

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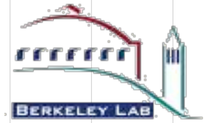

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Focus on community building

Much larger uptake in R&E

How did we get there?

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Version 2.0

Focus on community building

Much larger uptake in R&E

Public Beta of Bro 2.0 Released

by Robin Sommer | Oct 28, 2011 | 2.0, beta, bro | 0 comments

As the version number jump suggests, this is a major update that looks quite different from previous 1.x versions. While internally, there's actually not that much that has changed—besides some new functionality, some stale one that's been removed, and lots of bugfixes—**at the user-level, Bro 2.0 looks completely different**. We pretty much rewrote all default policy scripts that ship with the distribution, **focusing more on operational deployment** than in the past. The new Bro **does much more out of the box** now, and it's also quite a bit easier to customize and extend its processing. The one thing you'll probably notice first is the **completely overhauled logging output**: every log file is now well structured into typed columns that are easily parseable with other tools.


~/Z/data
09:54
zeek --version
zeek version 7.2.0-dev.194-debug
~/Z/data
09:54
zeek -C -r ~/zeek/main/testing/btest/Traces/wikipedia.trace
~/Z/data
09:54
ls
conn.log
dns.log
http.log
packet_filter.log
~/Z/data
09:54

```
root@u2004test:~/data# bro --version
bro version 1.5.3
root@u2004test:~/data# bro -C -r ~/zeek/testing/btest/Traces/wikipedia.trace
weird: 1300475167.097012 non_IPv4_packet
weird: 1300475171.675372 non_IPv4_packet
weird: 1300475171.775468 non_IPv4_packet
weird: 1300475173.116749 non_IPv4_packet
weird: 1300475173.216550 non_IPv4_packet
root@u2004test:~/data# ls
root@u2004test:~/data#
```

dns.log

1300475168.853899 #1 141.142.220.118/43927 > 141.142.2.2/dns start

1300475168.853899 #1 141.142.220.118 <query ?AAAA> upload.wikimedia.org Trunc:F Recurs:T

1300475168.854378 #2 141.142.220.118/37676 > 141.142.2.2/dns start

1300475168.854378 #2 141.142.220.118 <query ?AAAA> upload.wikimedia.org.ncsa.uiuc.edu Trunc:F Recurs:T

1300475168.854837 #3 141.142.220.118/40526 > 141.142.2.2/dns start

1300475168.854837 #3 141.142.220.118 <query ?A> upload.wikimedia.org Trunc:F Recurs:T

1300475168.855229 #3 141.142.220.118 A upload.wikimedia.org = <ans CNAME> CNAME upload.pmtpa.wikimedia.org RCode:NOERROR AA=F TR=F 1/2/3/3 TTL=124

1300475168.855229 #3 141.142.220.118 <ans A> 208.80.152.3 RCode:NOERROR AA=F TR=F 1/2/3/3 TTL=2156

1300475168.857956 #4 141.142.220.118/32902 > 141.142.2.2/dns start

1300475168.857956 #4 141.142.220.118 <query ?AAAA> upload.wikimedia.org Trunc:F Recurs:T

1300475168.858306 #5 141.142.220.118/59816 > 141.142.2.2/dns start

1300475168.858306 #5 141.142.220.118 <query ?AAAA> upload.wikimedia.org.ncsa.uiuc.edu Trunc:F Recurs:T

1300475168.858713 #6 141.142.220.118/59714 > 141.142.2.2/dns start

1300475168.858713 #6 141.142.220.118 <query ?A> upload.wikimedia.org Trunc:F Recurs:T

1300475168.859088 #6 141.142.220.118 A upload.wikimedia.org = <ans CNAME> CNAME upload.pmtpa.wikimedia.org RCode:NOERROR AA=F TR=F 1/2/3/3 TTL=124

http.log

1300475168.784020 %1 start 141.142.220.118:48649 > 208.80.152.118:80

1300475168.843894 %1 GET /skins-1.5/monobook/main.css (304 "Not Modified" [0] bits.wikimedia.org)

1300475168.916018 %2 start 141.142.220.118:49997 > 208.80.152.3:80

1300475168.916183 %3 start 141.142.220.118:49996 > 208.80.152.3:80

1300475168.918358 %4 start 141.142.220.118:49998 > 208.80.152.3:80

1300475168.952296 %5 start 141.142.220.118:49999 > 208.80.152.3:80

1300475168.952307 %6 start 141.142.220.118:50000 > 208.80.152.3:80

1300475168.954820 %7 start 141.142.220.118:50001 > 208.80.152.3:80

1300475168.962687 %8 start 141.142.220.118:35642 > 208.80.152.2:80

1300475168.975800 %2 GET /wikipedia/commons/6/63/Wikipedia-logo.png (304 "Not Modified" [0] upload.wikimedia.org)

1300475168.976327 %3 GET /wikipedia/commons/thumb/b/bb/Wikipedia_wordmark.svg/174px-Wikipedia_wordmark.svg.png (304 "Not Modified" [0] upload.wikimedia.org)

1300475168.979160 %4 GET /wikipedia/commons/b/bd/Bookshelf-40x201_6.png (304 "Not Modified" [0] upload.wikimedia.org)

1300475169.012666 %6 GET /wikipedia/commons/thumb/8/8a/Wikinews-logo.png/35px-Wikinews-logo.png (304 "Not Modified" [0] upload.wikimedia.org)

1300475169.012730 %5 GET /wikipedia/commons/4/4a/Wiktionary-logo-en-35px.png (304 "Not Modified" [0] upload.wikimedia.org)

1300475169.014860 %7 GET /wikipedia/commons/thumb/f/fa/Wikiquote-logo.svg/35px-Wikiquote-logo.svg.png (304 "Not Modified" [0] upload.wikimedia.org)

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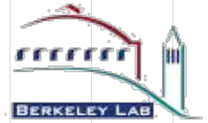

Zeek fills operational need at LBL

Zeek used as a research tool, driving development and innovation

NSF finances tech transfer at ICSI & NCSA

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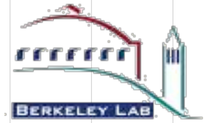

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LT is formed, as a consequence of joining the SFC

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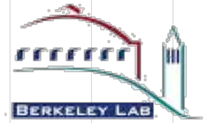

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Zeek leaves SFC

ICSI is, again, home of project

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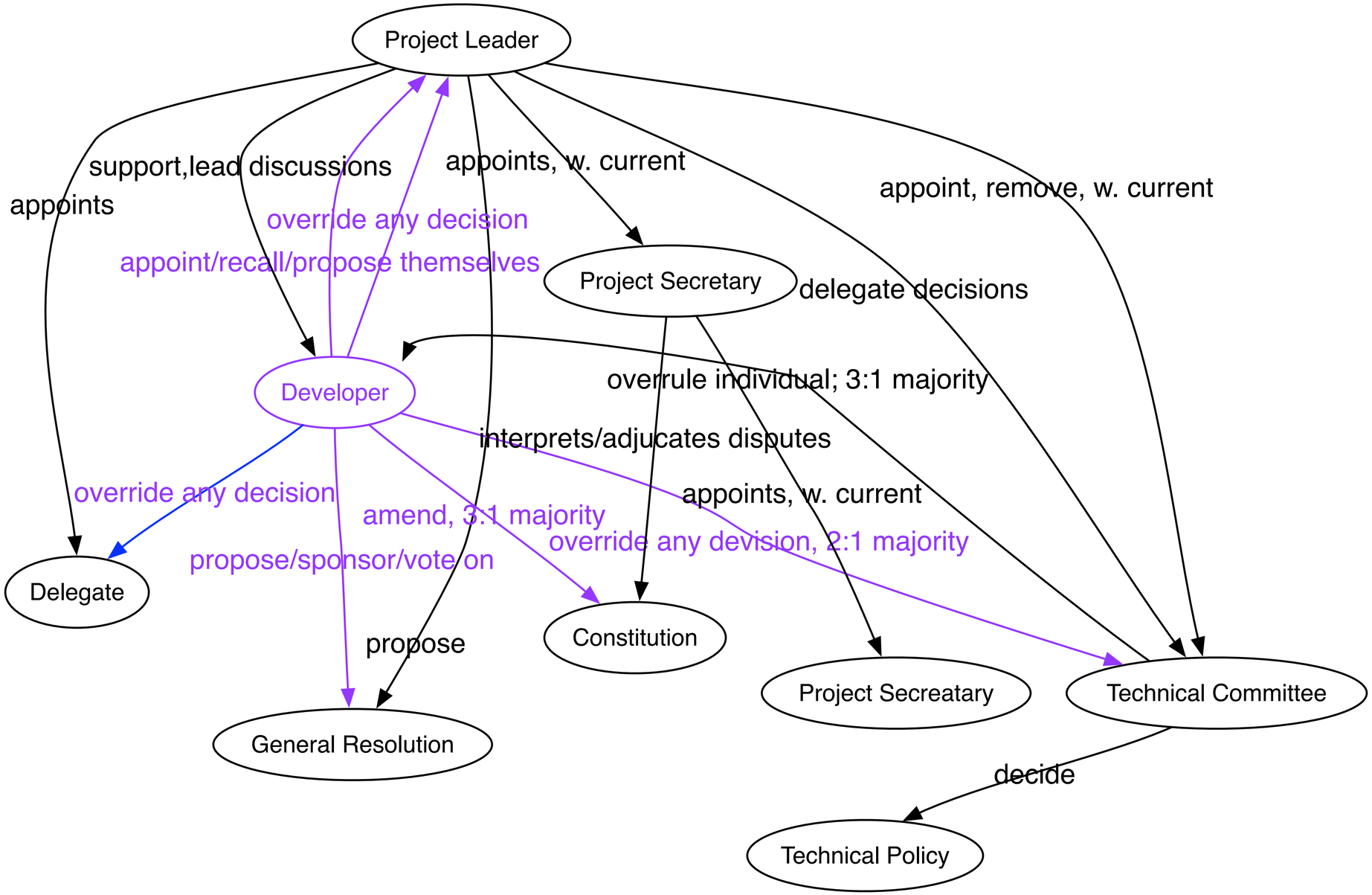
First elections

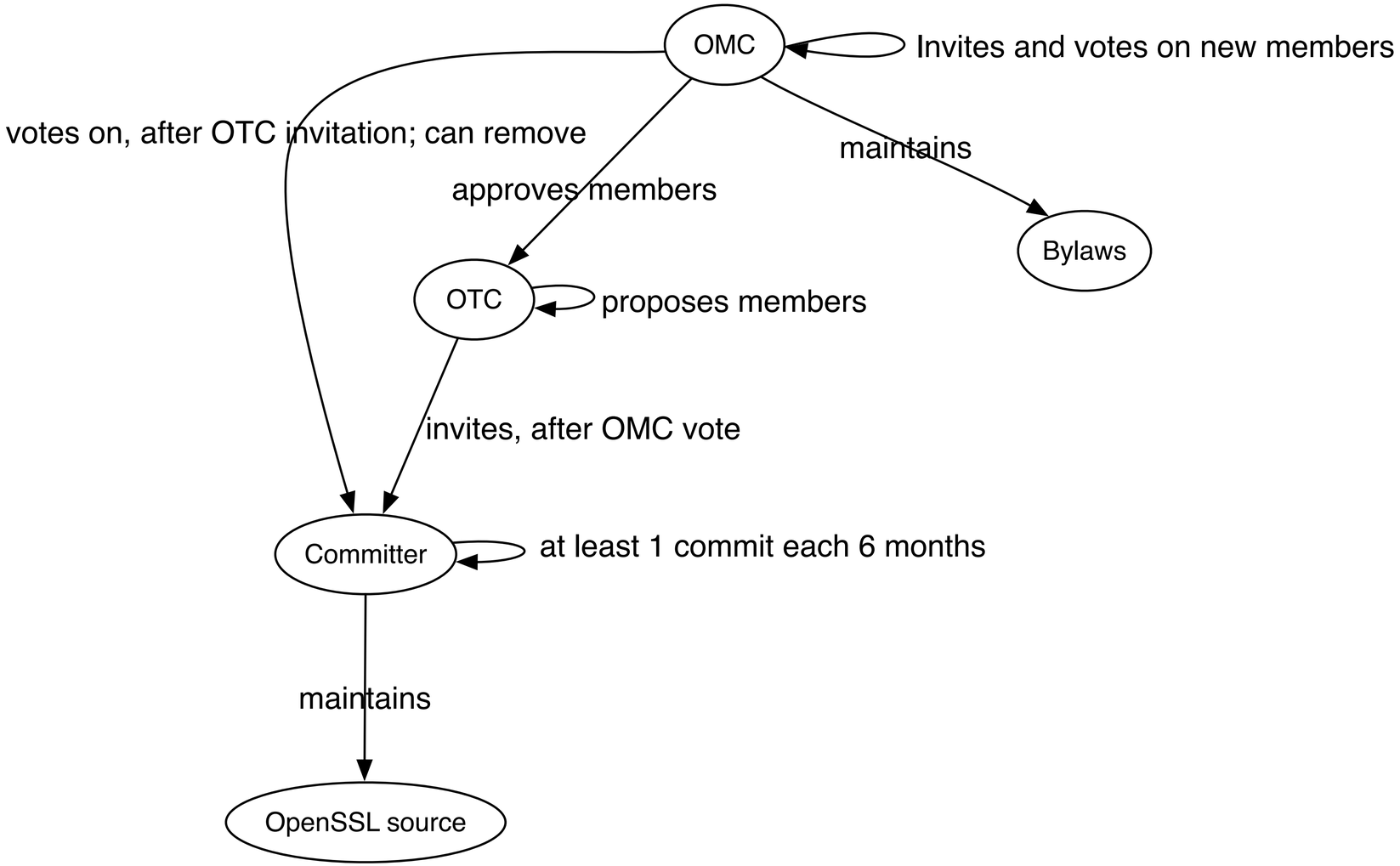
Evolution of project structure

Debian Constitution

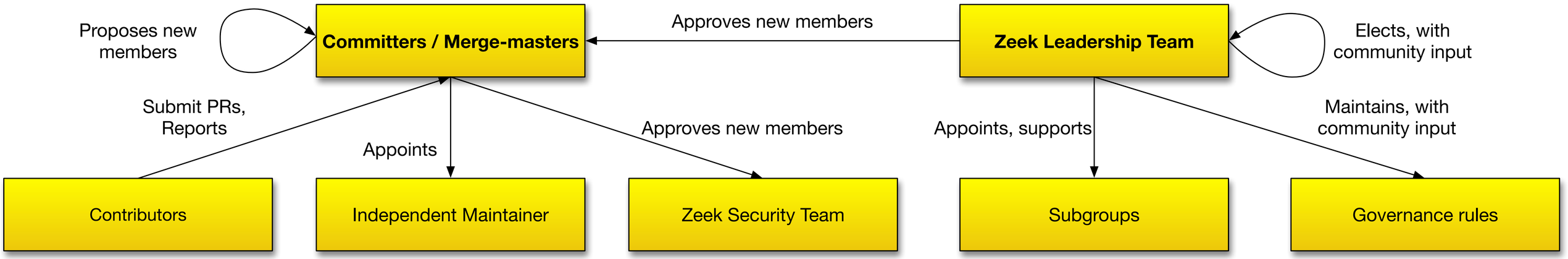


OpenSSL structure

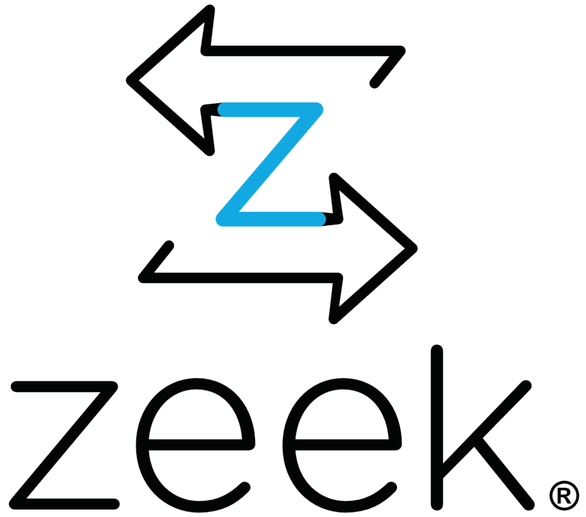
Till March 2024

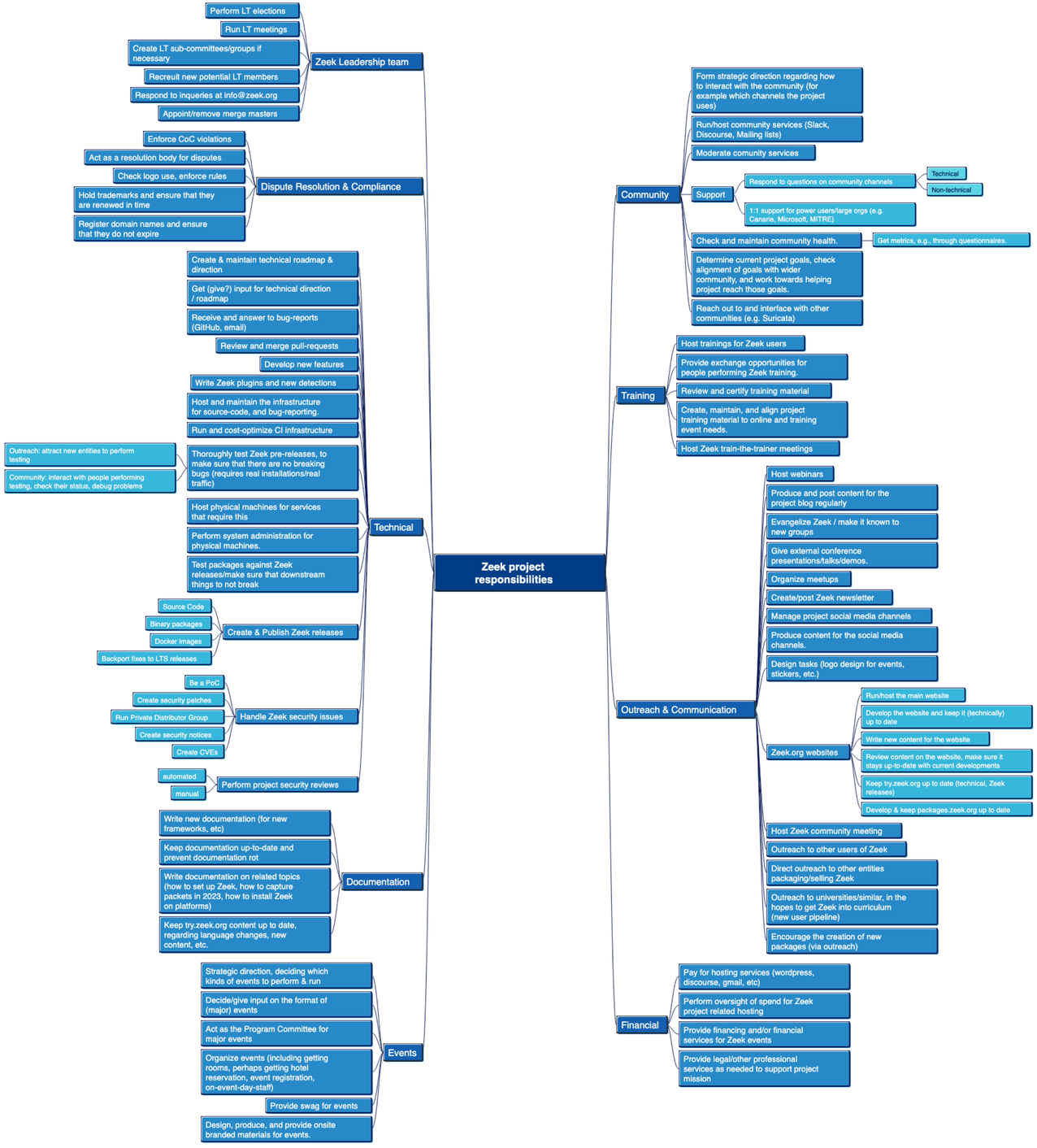


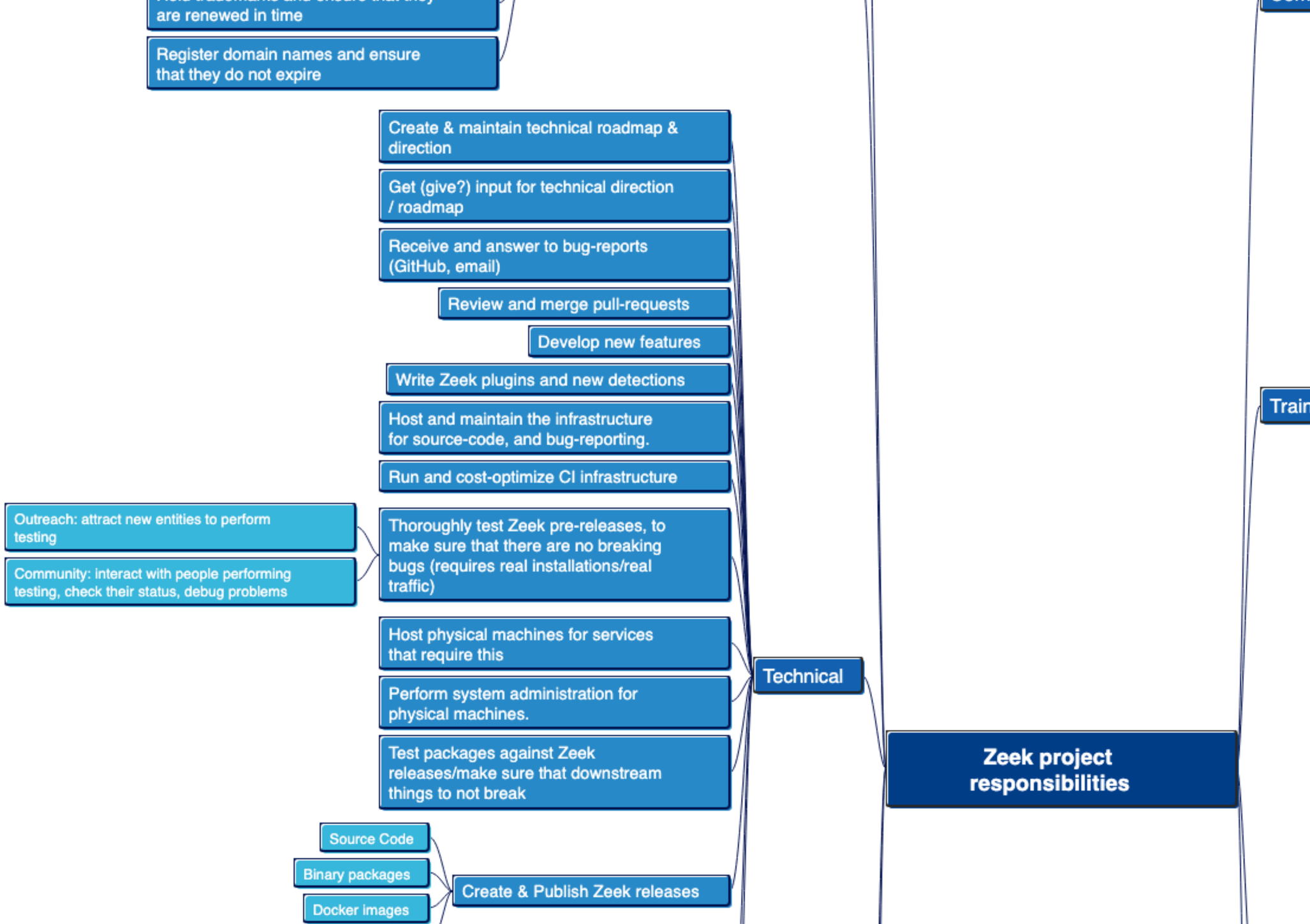
Zeek Project Structure




corelight


zeek®


Zeek project responsibilities
Zeek Leadership team
Perform LT elections
Run LT meetings
Create LT sub-committees/groups if necessary
Recreuit new potential LT members
Respond to inqueries at info@zeek.org
Appoint/remove merge masters
Dispute Resolution & Compliance
Enforce CoC violations
Act as a resolution body for disputes
Check logo use, enforce rules
Hold trademarks and ensure that they are renewed in time
Register domain names and ensure that they do not expire
Technical
Create & maintain technical roadmap & direction
Get (give?) input for technical direction / roadmap
Receive and answer to bug-reports (GitHub, email)
Review and merge pull-requests
Develop new features
Write Zeek plugins and new detections
Host and maintain the infrastructure for source-code, and bug-reporting.
Run and cost-optimize CI infrastructure
Thoroughly test Zeek pre-releases, to make sure that there are no breaking bugs (requires real installations/real traffic)
Outreach: attract new entities to perform testing
Community: interact with people performing testing, check their status, debug problems
Host physical machines for services that require this
Perform system administration for physical machines.
Test packages against Zeek releases/make sure that downstream things to not break
Create & Publish Zeek releases
Source Code
Binary packages
Docker images
Backport fixes to LTS releases
Handle Zeek security issues
Be a PoC
Create security patches
Run Private Distributor Group
Create security notices
Create CVEs
Perform project security reviews
automated
manual
Documentation
Write new documentation (for new frameworks, etc)
Keep documentation up-to-date and prevent documentation rot
Write documentation on related topics (how to set up Zeek, how to capture packets in 2023, how to install Zeek on platforms)
Keep try.zeek.org content up to date, regarding language changes, new content, etc.
Events
Strategic direction, deciding which kinds of events to perform & run
Decide/give input on the format of (major) events
Act as the Program Committee for major events
Organize events (including getting rooms, perhaps getting hotel reservation, event registration, on-event-day-staff)
Provide swag for events
Design, produce, and provide onsite branded materials for events.
Community
Form strategic direction regarding how to interact with the community (for example which channels the project uses)
Run/host community services (Slack, Discourse, Mailing lists)
Moderate comunity services
Support
Respond to questions on community channels
Technical
Non-technical
1:1 support for power users/large orgs (e.g. Canarie, Microsoft, MITRE)
Check and maintain community health.
Get metrics, e.g., through questionnaires.
Determine current project goals, check alignment of goals with wider community, and work towards helping project reach those goals.
Reach out to and interface with other communities (e.g. Suricata)
Training
Host trainings for Zeek users
Provide exchange opportunities for people performing Zeek training.
Review and certify training material
Create, maintain, and align project training material to online and training event needs.
Host Zeek train-the-trainer meetings
Outreach & Communication
Host webinars
Produce and post content for the project blog regularly
Evangelize Zeek / make it known to new groups
Give external conference presentations/talks/demos.
Organize meetups
Create/post Zeek newsletter
Manage project social media channels
Produce content for the social media channels.
Design tasks (logo design for events, stickers, etc.)
Zeek.org websites
Run/host the main website
Develop the website and keep it (technically) up to date
Write new content for the website
Review content on the website, make sure it stays up-to-date with current developments
Keep try.zeek.org up to date (technical, Zeek releases)
Develop & keep packages.zeek.org up to date
Host Zeek community meeting
Outreach to other users of Zeek
Direct outreach to other entities packaging/selling Zeek
Outreach to universities/similar, in the hopes to get Zeek into curriculum (new user pipeline)
Encourage the creation of new packages (via outreach)
Financial
Pay for hosting services (wordpress, discourse, gmail, etc)
Perform oversight of spend for Zeek project related hosting
Provide financing and/or financial services for Zeek events
Provide legal/other professional services as needed to support project mission


are renewed in time
Register domain names and ensure that they do not expire
Create & maintain technical roadmap & direction
Get (give?) input for technical direction / roadmap
Receive and answer to bug-reports (GitHub, email)
Review and merge pull-requests
Develop new features
Write Zeek plugins and new detections
Host and maintain the infrastructure for source-code, and bug-reporting.
Run and cost-optimize CI infrastructure
Outreach: attract new entities to perform testing
Community: interact with people performing testing, check their status, debug problems
Thoroughly test Zeek pre-releases, to make sure that there are no breaking bugs (requires real installations/real traffic)
Host physical machines for services that require this
Perform system administration for physical machines.
Test packages against Zeek releases/make sure that downstream things to not break
Source Code
Binary packages
Docker images
Create & Publish Zeek releases
Technical
Zeek project responsibilities
Train

	Zeek Leadership Team	Corelight (Open Source)	Zeek Merge Masters	Zeek Benefit Corporation	Zeek Users	Z
Zeek Leadership Team						
Run LT meetings.	A & R	I	X	X	I	
Perform LT elections.	A & R	I	X	X	I	
Create LT sub-committees/groups if necessary.	A & R	I	X	X	I	
Recruit new potential LT members.	R	S	X	X	C	
Respond to inquiries to info@zeek.org.	A	R	X	X	X	
Appoint/remove merge masters	A & R	C	R	X	I	
Dispute Resolution, Compliance & Marks						
Enforce CoC violations.	R	I	X	X	X	
Act as a resolution body for disputes.	R	I	X	X	X	
Check logo use and enforce rules.	R	S	X	I	I	
Hold trademarks, and ensure that they are renewed in time.	A	I	X	R	X	
Register domain names, and ensure that they do not expire.	A	I	X	R	X	
Technical						
Create & maintain technical roadmap & direction.	A	C (intensely) & S	R	X	C	
Get (give?) input for technical direction / roadmap	I	R	R	X	C	
Receive and answer to bug-reports (GitHub, email).	X	R	R	X	X	
Review and merge pull requests.	X	C	R	X	X	
Develop new features.	X	R	R	X	C/ S	
Write Zeek packages and new detections.	X	S	S	X	R	
Host and maintain the infrastructure for source code and bug-reporting.	A	S	R	X	X	
Run and cost-optimize CI infrastructure.	X	R	C	X	X	
Thoroughly test Zeek pre-releases, to make sure that there are no	**A / X**	**I**	**A**	**X**	**X**	
Outreach: attract new entities to perform testing	A	S (pot. R)	S	X	X	
Community: interact with people performing testing, check their status, debug	I	S	A	X	X	
Host physical machines for services that require this.	I	X	X	X	X	
Perform system administration for physical machines.	X	X	X	X	X	
Test packages against Zeek releases/make sure that downstream things do not	X	S	A	X	X	
Create & Publish Zeek releases.	**A**	**S**	**R**	**X**	**I**	
Source Code	X	S	R	X	X	
Binary packages	X	S	R	X	X	
Docker images	X	S	R	X	X	
Backport fixes to LTS releases.	X	S	R	X	X	
Handle Zeek security issues	**I**	**S**	**A**	**X**	**X**	
Be a PoC	X	S	A	X	X	
Create security patches.	X	S	R	X	X	
Run Private Distributor Group	X	S	A	X	X	
Create security notices.	X	S	A & C	X	X	
Create CVEs	X	S	A & C	X	X	
Perform project security reviews.	**A**	**S**	**R**	**X**	**X**	
Automated	X	S	R	X	X	
Manual	X	S	R (for PR)	X	X	
Documentation						

We depend on you

Give us Feedback

- How do you use Zeek?
- Tell us if you notice bugs, or something that could be improved
- Join our Community call
- Join our Slack, Forum, Discussions

Join one of our subgroups

- Interested in training - training subgroup
- Can you test Zeek in a large deployment? - join the testing group
- Help improve our documentation

Contributions

- Contribute packages
- Interested working on Zeek - we are happy to point you to our guidance
- Present talks

Stay in contact

zeek.org

@zeek@infosec.exchange

@zeek.org

zeekorg.slack.com

community.zeek.org

github.com/zeek