

Looking Forward to 2021 and Beyond

Jim Zemlin / The Linux Foundation





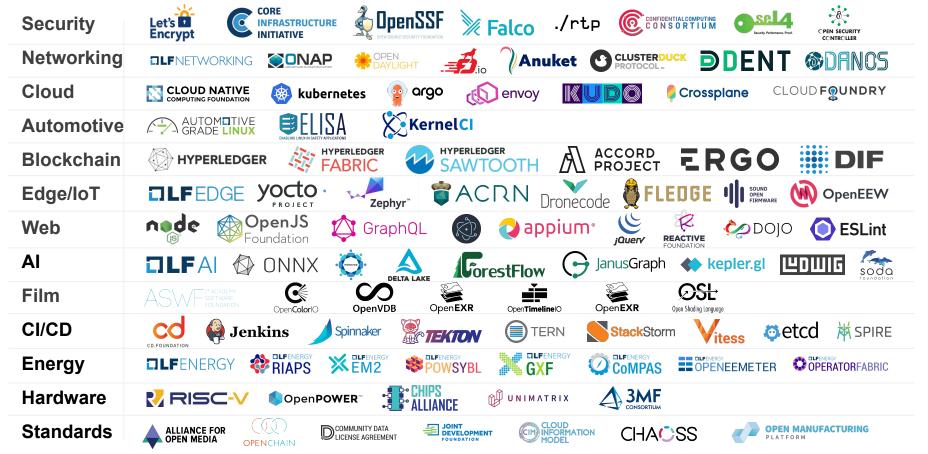
2020 proved that we need to work together in tough times.

After a VERY challenging 2020, Linux Foundation is off to its best start ever



- We exceeded 2M trainings and exams delivered in January
- We are adding new members at our fastest rate ever: more than one a day
- We are adding 2-3 new projects a week: 34 launched or will launch in 1Q21
- We Announced <u>A Racial Justice Initiative</u>
- Launched a new <u>Security Initiative for the Linux Kernel</u>
- Announced a <u>New Self Sovereign Identity Effort</u>
- Started a new <u>5G R&D Effort</u> and a new <u>5G Packet Core Effort (Magma)</u>
- Launched a <u>Mobile Native Foundation</u> to make it easier to build large scale mobile apps
- We created publications on <u>Supply Chain Security</u> and more
- AND... Today we are announcing several other new initiatives

In 2021 we are privileged home to some of the most important technology projects on earth (and mars)





From Open Source Repo to International Standards: We have a range of collaboration tools for collective innovation Governance **Open Source** Community Formal International Open **Open Data** Networks Software Hardware **Specifications** Standards Standards **Collective Innovation** Capabilities Required to Engage: **Capabilities Required to Scale:** Legal coordination and structures Self-service options Industry vertical experience

Technical sector experience Successful track record Self-service options Umbrella and flexible structures Membership model & network effects Systems and process focus Rigorous IP mgmt and security focus

SPDX accepted as international standard for how open source metadata is shared

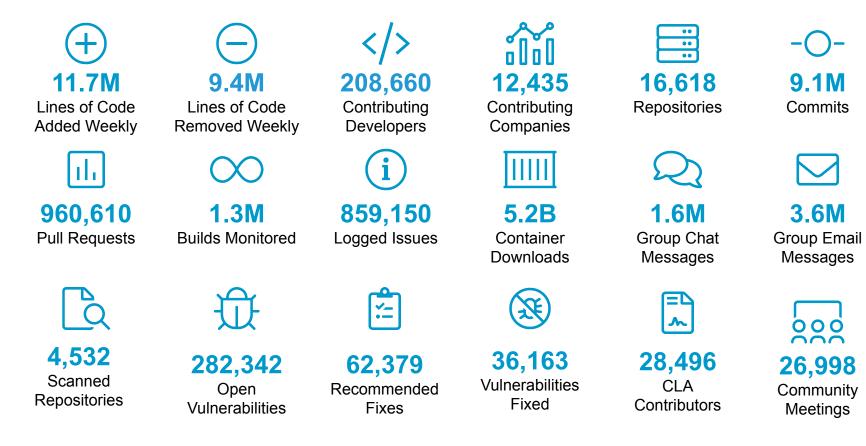


SPDX



As a critical part of the global tech supply chain, creating a reliable, secure, and sustainable technology effort requires many moving parts





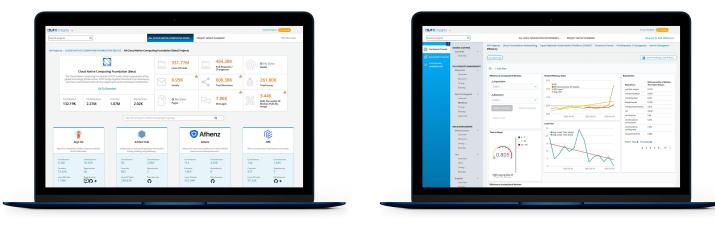
We created LFx to help our communities innovate and scale

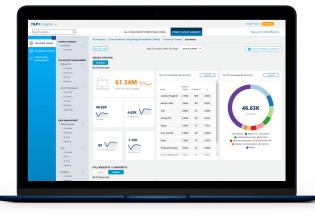




DLFX Insights

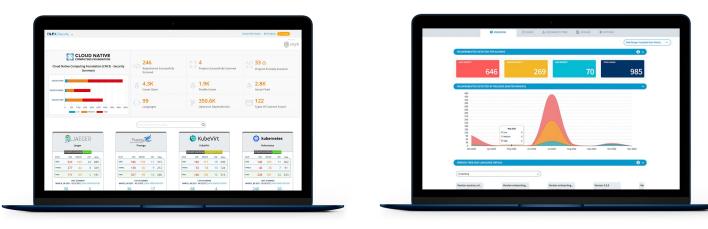






DLFX Security

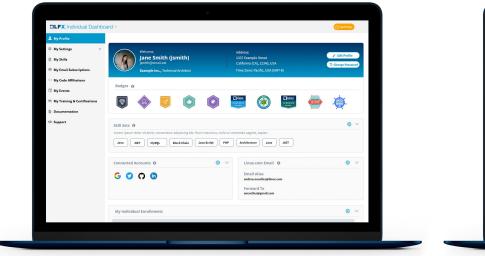


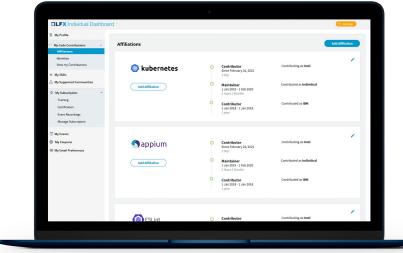


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TLFX Individual Dashboard



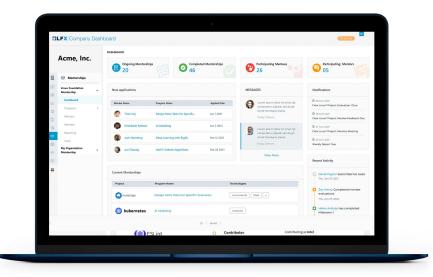




TLFX Mentorship

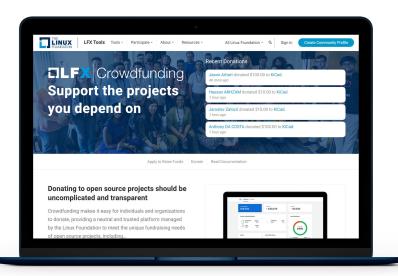


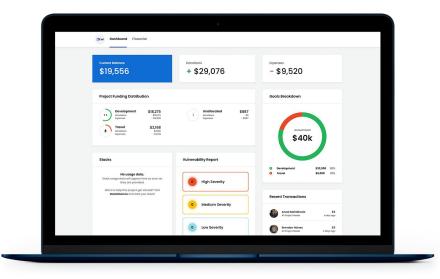




TLFX Crowdfunding



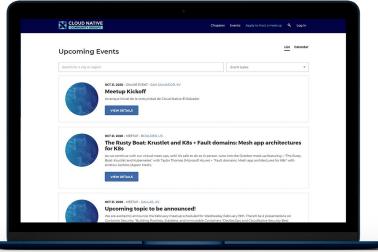




Community Events







TLFX Training Portal



× Hide ≔ Lessons ~	Course Information	
Course Information Welcome to UFD1031 Course Learning Objectives Meet Your Instructor: Shuah Khan Course Audience and Requirements Before You Begi The Linux Soundation	< Course Learning Objectives	\rightarrow
02. LINUX KERNEL DEVELOPMENT PROCESS > Introduction > Linux Kernel Development Process > Knowledge Check	The course will cover the following: • Select and configure the development system. • Provide an overview of Linux kernel repositories and releases.	
CI PROGRESS 2%	Understand git basics - checking out kernel repositories and working with them. Build your first kernel and install it. Understand the Linux kernel Contributor Covenant Code of Conduct.	
Show Details	 Familiarize yourself with the Linux kernel Enforcement Statement. Write kernel patches and test them. Understand the do's and don'ts of the communications with the kernel community. Know who to and how to send patches (checkpatch.pl and get_maintainers.pl). Re-work patches and act on feedback from reviewers. 	
& ASSIGNMENTS		<i>→</i>

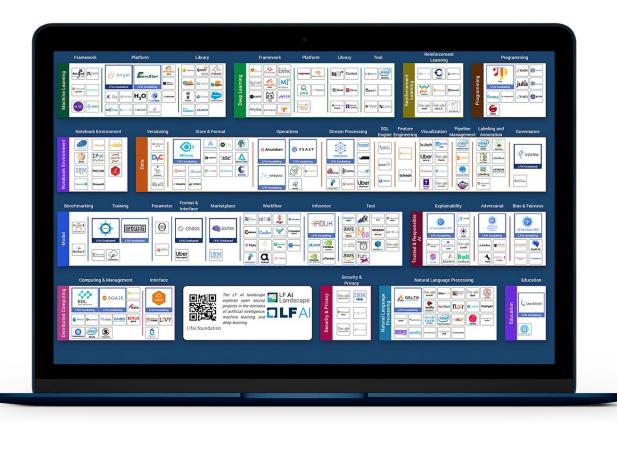
TLFX Project Control Center



My Organization >							
Dashboard () ~ Joint Development F Q	Joint Development	elopment Found nent Foundation provides the co the lightweight collaborations to Foundation Projects are ideal for	ation orporate and legal i develop technical or specification dev	nfrastructure to enable groups to quickly specifications, standards, and source code. elonment projects or as a place to do	ACTIVE		
Setup IT Services Tools	The Joint Development Foundation provides the corporate and legal infrastructure to enable groups to quickly establish and operate [ethrebric fouldbardings to elevel to fachinal specifications, and source costs joint Development Foundation Projects are ideal for specification development projects or as a place to do incubation projects before taking those projects to a larger standards organization.						
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ILFX Landscape



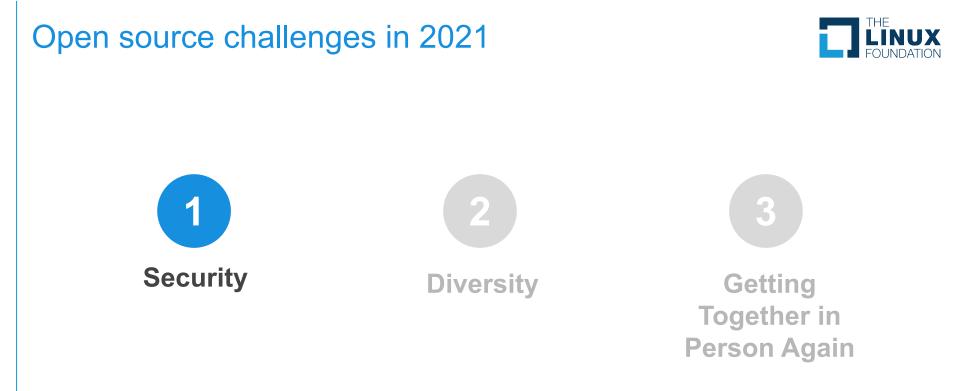
TLFX Organization Dashboard



	-	management of	known as K8s, is an open-source system for automating deplo containerized applications.It groups containers that make up a	n application into logical		
My Organization	>		gement and discovery. Kubernetes builds upon 15 years of experience of running is at Google, combined with best-of-breed ideas and practices from the community.			
Project 🚯	° Q	Technical trends Co	ommittees Resources	*St	atistics showing all time data	
CNCF Kubernetes Project Overview	30 ~					
Insights Cecurity EasyCLA Crowdfunding		TOP ORGANIZATIONS BY COMMITS (ALL TIME	Arnav Dinesh Kulkarni 280 Commits		D.26M Code changed	
^영 Mentorship		2000 28% OF COMMITS MADE BY GOOGLE	Abhimanyu Kumar Kapoor 245 Commits Craig Ross 240 Commits	53.23K	5.00K Contributors	
		GOOGLE(40%) INTEL(60%) ACCENTURE(40%) IBM(40%) OTHERS(60%)	Adul Patil 215 Commits Steve P. George 198 Commits			
ACCENTURE(40%)	ACCENTURE(40%) CISCO(60%) IBM(40%) OTHERS(60%)	CO(60%) Steve P. George 198 Commits	1.10K Repositories			



Person Again



Open Source Security Foundation (OpenSSF) since October



- As of Feb: 36 member organizations, 263 individual participants
- Lots of accomplishments since 2020-08-03 launch, e.g.:
 - Free edX courses on how to develop secure software 2,254 registrants as of Feb 2021
 - CII Best Practices badge >3600 participating projects, >500 passing badges
 - OSSF Scorecard simple automated evaluation of OSS project
 - Developed PoC security metric dashboard for OSS projects (building on badge & scorecard)
 - Begun development of curated, community-driven collection of security reviews of OSS
 - "CVE benchmark" dataset of vulnerabilities & fixes, to better benchmark security tools
- See OpenSSF website <<u>https://openssf.org</u>>, esp. "Town Halls" on 2020-11-09 & 2021-02-22



Announcing new OpenSSF members



New members dedicated to helping advance open source security education and best practices.









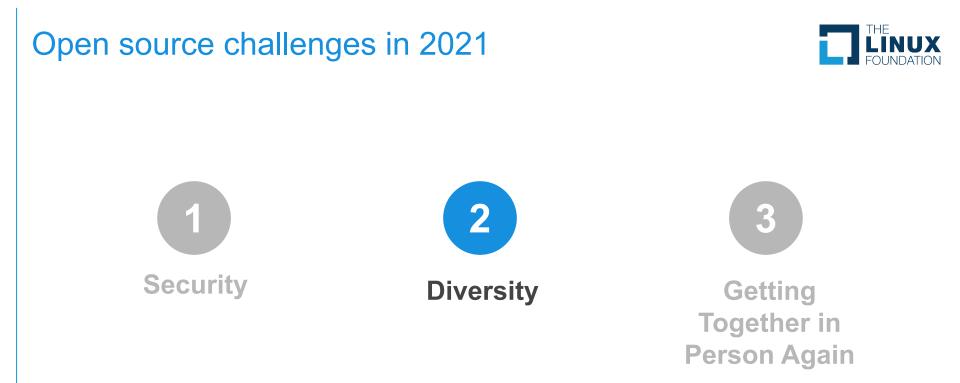


Report on the 2020 FOSS Contributor Survey



- "Report on the 2020 FOSS Contributor Survey"
 - Collaboration between LF & Laboratory for Innovation Science at Harvard (LISH)
 - Incorporated into OpenSSF working group on securing critical projects
 - Focused on security & sustainability
 - Analyzed survey responses from 1,196 participants (not everyone completed every question)
- Top three motivations for contributors are non-monetary
 - Top motivations: adding needed feature/fix, enjoying learning, and creative/enjoyable work
 - Majority (74.87%) already employed full-time, ~half (51.65%) paid to develop OSS
- OSS security should receive more effort, burden should be beyond contributors
 - Providing bug/security fixes, audits, simplifying adding security tools to CI pipelines, memory safety...
- Enhance trend of corporate support for employees' contribution to FOSS
 - It's improved over 10 years, but 17.5% reported unclear policies, 5.6% unaware of policies

See: https://www.linuxfoundation.org/en/resources/publications/2020-foss-contributor-survey/



Programs to support diversity in our communities



- Inclusive Naming Initiative
- Software Developer Diversity and Inclusion (SDDI) project
- Expanded Formal Mentorship Program
- LiFT Scholarship program
- Live Online Mentorship Program
- Diversity Scholarships & Travel Funding for Events
- Inclusive Speaker Orientation Course (created with National Center for Women in IT)
- Partnership with Blacks in Technology
- Ally Workshops
- Call for Code Racial Justice Initiative
- And more....

Inclusive Naming Initiative



Helping projects and companies make consistent, responsible choices to remove harmful language.

Priyanka Sharma General Manager, Cloud Native Computing Foundation













vmware[®]

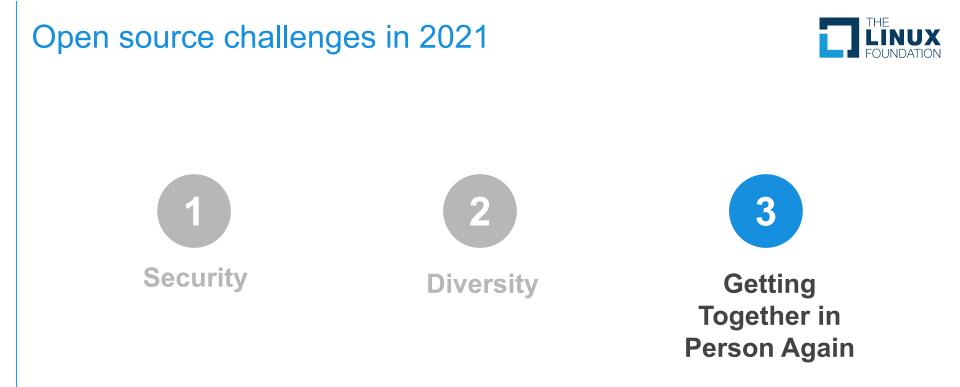


Creating events that are welcoming to all



- No all-male panels, all-male speaker line-ups or all-male keynote line-ups
- Request speakers to take our Inclusive Speaker Orientation, created in collaboration with the National Center for Women & Information Technology
- Onsite Nursing Rooms
- Free, onsite Child Care
- Onsite prayer rooms, quiet rooms and 'zen zones'
- Attendee Communication Preference Stickers
 & Pronoun Stickers
- Non-Binary Restrooms
- Gender Neutral Event Shirt Sizing

- Accessibility– captioning on video recordings, wheelchair accessible venues, food allergy management, information on event websites on wheelchair and medical equipment rental
- Non-Alcoholic Beverages available at all social events
- Diversity & Inclusion Handouts with an overview of our onsite offerings and a reminder on our Code of Conduct
- Event Code of Conduct Signage prominently displayed onsite
- Special Events to Promote Diversity + Inclusion (such as the Better Together Diversity Social, Women in Open Source lunch, Speed Mentoring Programs and Kids Coding Workshops



Virtual Event Fatigue







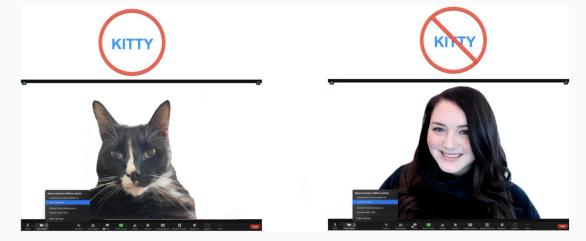
Removing your cat filter

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- 1. While in a Zoom meeting with your video on, click the **Up Arrow** next to the **Stop Video** icon.
- 2. Select a different camera setting, or try selecting each camera listed until you return to normal. For example, for macOS users, click FaceTime HD Camera (Built-in).

The cat filter will now be removed and you can go back to your purr-fessional meeting.



Read other great tips on how to use cool Zoom video features.

Call for Code for Racial Justice

- Police & Judicial Reform and Accountability
 - Incident Accuracy Reporting System (IARS)
 - Fair Change
 - Open Sentencing
- Policy & Legislation Reform
 - Truth Loop
 - Five Fifths Voter
 - Legit-Info
- Diverse Representation
 - TakeTwo

Special Guest: **Jo Ann Hill** *Open Sentencing Project & IBM*







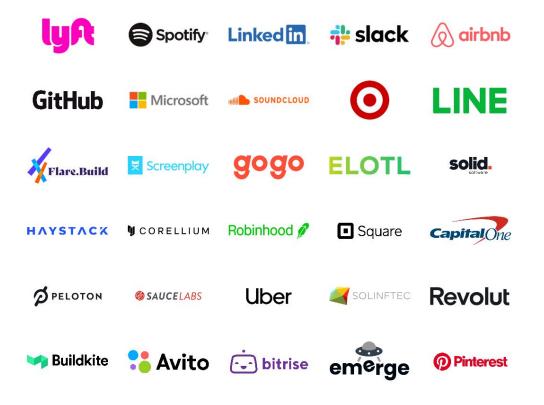


Mobile Native Foundation

Bringing developers together to improve processes and technologies that support large-scale Android and iOS applications.

Special Guest:

Keith Smiley Lyft





Servo Project

- Modern and open web engine for building applications and immersive experiences using web technologies.
- Started by Mozilla in 2012 and brought to the Linux Foundation in November 2020 to expand the contributor community



Special Guest: Alan Jeffrey Servo Project technical chair





Shane Coughlan

General Manager

OpenChain Project







Sigstore Announcement



Linux Foundation Announces Free sigstore Signing Service to Confirm Origin and Authenticity of Software

sigstore improves the security of the software supply chain by enabling the easy adoption of cryptographic software signing backed by transparency log technologies.

Special Guest:

Luke Hinds Red Hat



Founding Members Google Red Hat PURDUE UNIVERSITY.

THE LINUX FOUNDATION SPRING MEMBER MEETING

