



Bridging the gap - forward thinking enterprises are hybrid

*John Mertic
Director, Open Mainframe Project*

A (Brief)* History of Computing Infrastructure



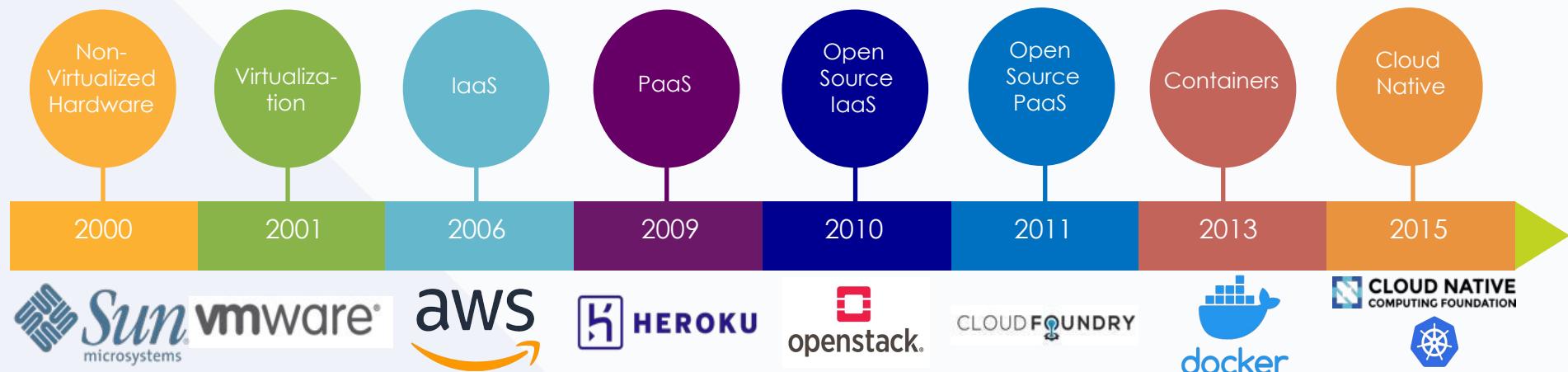
(*) note that this is intentionally NOT an *an* through history. We only have so much time :-)

1960s through mid 2000s

- Physical infrastructure under one roof
- Proprietary, single vendor to streamline support
- Slowly evolving - business adapted to technology instead of technology adapting to business



Infrastructure evolves





Technology now adapts to business

- Infrastructure is hybrid and fluid
- Applications are deployed across infrastructures
 - “Microservices”
- Nodes are interconnected
- Open source is the connective thread





So what about mainframe?

Mainframe is the only platform with these design principles...

- Security
- Availability
- Scalability
- Performance

...all turned up to an 11, built on decades of expertise and critical infrastructure use.

(queue Spinal Tap :-))



How to cross the gap? Open Source



Enter Open Mainframe Project



Open Mainframe Project believes...

- that leading organizations leverage their **technology infrastructure as a competitive advantage**.
- that the mainframe design principles of **security, stability, scalability, and performance are important** to these leading organizations
- **having the mainframe interoperable** in a hybrid infrastructure enables leading organizations to realize its benefits.
- technical advancements that are needed by the mainframe community can be **better achieved through open source**.

Vision

The mainframe is an active, integrated, and essential part of modern enterprise IT, consumable by mainstream developers and users, and driven by a vibrant open source community.

Mission

To achieve the vision of the Open Mainframe Project by...



Setting a high bar for application development on the mainframe through documentation, API development, and a security-first approach.



Showcase the mainframe of today to both the mainframe ecosystem as well as the broad enterprise IT community.



Enable the mainframe to be more consumable by developers with a transparent experience in leveraging the value propositions of the mainframe.



Ensure the mainframe aligns well in the changing enterprise IT landscape of cloud-native and DevOps.



Most importantly, Open Mainframe Project sustainability enables this innovation



Successful projects depend on members, developers, standards and infrastructure to develop products that the market will adopt



Open Mainframe Project:

part of The Linux Foundation ecosystem of sustainable open source



For the last 16 years, The Linux Foundation has provided unparalleled support for open source communities through financial and intellectual resources, governance structure, IT infrastructure, services, events, and training.

Dedicated to building sustainable ecosystems around open source projects, The Linux Foundation is working with the global technology community to solve the world's hardest problems through open source and **creating the largest shared technology investment in history.**

The Linux Foundation is the umbrella organization for **more than 700 open source projects** accelerating open technology development and commercial adoption. Some of the game-changing initiatives hosted by The Linux Foundation include:



CLOUD NATIVE
COMPUTING FOUNDATION



HYPERLEDGER
BLOCKCHAIN TECHNOLOGIES FOR BUSINESS



Zephyr™
Project



kubernetes



OpenSSF
OPEN SOURCE SECURITY FOUNDATION



Fintech
Open Source
Foundation



ASWF
/* ACADEMY
SOFTWARE
FOUNDATION



Let's
Encrypt



RISC-V®



CALL
FOR
CODE®



Linux



z/VM



z/OS



Development Tools



Learning and Mentoring



Other



Projects

OPEN MAINFRAME PROJECT Landscape

This landscape is intended as a map to explore open source projects within the mainframe industry, and also shows the member companies of the Open Mainframe Project.

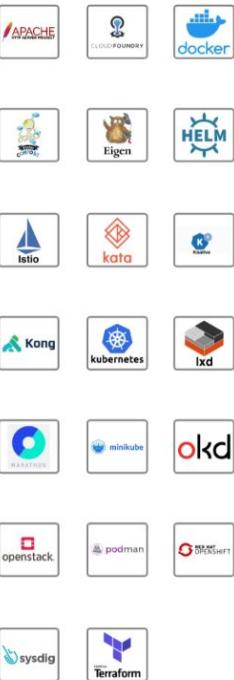
[l.openmainframeproject.org](https://openmainframeproject.org)

OPEN MAINFRAME PROJECT

Linux Distributions



Cloud and Container Services



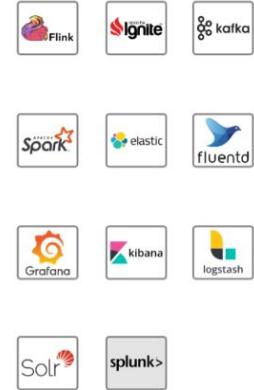
Languages and Runtimes



Devops and Automation



Big Data, Observability, Analytics



Networking and Monitoring



Middleware



Databases



Enabling innovation - connecting z/OS to enterprise devops with Zowe



Major Problem

- Modernize integration with z/OS based applications and services
- Bridge the talent gap by enabling modern development stacks on z/OS

How OMP Innovated

- 2018 Open Mainframe Project added Zowe from contributions from Broadcom, IBM, Rocket Software
- 2019 Zowe reached 1.0, launched Zowe Conformant to enable downstream ecosystem
- Investments in collaboration, ecosystem development, and infrastructure
- 2021 Zowe formed TSC to have technologists lead project direction.

Results - 2021

- 30000+ Commits, 250+ committers all time
- Zowe gaining significant mindshare in DevOps community
- 50+ Zowe Conformant offerings from vendors Broadcom, IBM, MicroFocus, Phoenix Software International, Rocket Software, Software Engineering AG
- 2 Zowe Conformant Support Providers - Broadcom and IBM
- New project contributions from BMC, IBA Group, Vicom Infinity, and others, has grown codebase

Enabling innovation - modernize z/VM integration with cloud technologies and deployment



Major Problem

- Users want to manage their mainframes with the same modern cloud technologies used across the enterprise.
- z/VM integration with technologies such as OpenStack have long been a challenge.
- Contribution base was IBM only, making it challenging to get wider adoption

How OMP Innovated

- 2019 Open Mainframe Project added Feilong
- Feilong TSC elects co-chairs from SUSE and Velocity Software
- 2020 Tessia is added as a project
- 2021 Consolez is added as a project

Results - 2021

- ADP, SUSE, Velocity Software, Vicom Infinity, and ICU IT engaging in addition to IBM
- New innovations and integrations being created in the community to upstream.
- Projects running independently, but coordinating to ensure a streamlined solution.

Enabling innovation - modernizing COBOL



Major Problem

- **COBOL talent is critical to our society, and the need has amplified in the COVID-19 pandemic.**
- **Enabling the next generation to have COBOL skills done in isolation, causing repeated efforts and lower uptick.**
- **COBOL lacking tools that align with modern development**

How OMP Innovated

- Launched **COBOL Programming Course** as an open source project in April 2020
- Created collaboration forums and ways that **COBOL** talent can advertise their availability
- Launched **COBOL Working Group** to bring together leaders in thinking about the future of **COBOL**
- **COBOL Check** project launched, bringing TDD practices to **COBOL**

Results - 2021

- “Calling all **COBOL Programmers**” forum has had over 1800 individuals make themselves available since April 2020
- **COBOL Programming Course** has 1.9k stars and 400+ forks, along with 17 contributors from several organizations.
- **COBOL Working Group** getting broad feedback on the future direction of **COBOL**
- **COBOL Check** a step forward in modern dev practices

Enabling innovation - with the next generation



Major Problem

- Aging tenured mainframe talent, with a growing mainframe talent gap and skills decline in next generation talent.
- Needing to help connect students with opportunities in mainframe, aligning the interests in open source

How OMP Innovated

- Launched first mentorship program in 2016 with 7 mentees.
- Connected within the mainframe and broad open source community to ensure mentorship work has upstream project value.
- Enabled universities to also leverage the program within class work; successful with VCU and Western University (Ontario)

Results - 2020

- 40+ mentees completed the program, with broader classwork focus reaching 100+ more.
- Upstream work has included ports of Alpine Linux, contributions to HyperLedger, OpenStack, CloudFoundry, Kubernetes, and more.
- Several mentees are now employed in mainframe roles with IBM, SUSE, ADP, and more.



Open Mainframe Project enables innovation through
community building

A Focal point for open source on mainframe



Open Mainframe Summit is the annual event that brings together the open source and mainframe ecosystems, discussing projects, trends, and executive insights.



September 21 – 22, 2022

Philadelphia, PA

<https://events.linuxfoundation.org/open-mainframe-summit-2022>

Telling the “mainframer” story



- Monthly interview series that highlights diversity in mainframe
- Showcases why people have mainframe in their careers and their views of the technology and career field
- Read and listen at
<https://www.openmainframeproject.org/news/podcast>



openmainframe.org

Building an ecosystem through Zowe Conformance



Zowe Conformance Program enables vendors to showcase their offerings based on Zowe, as well as their capabilities in supporting Zowe end-users.

Zowe Support Provider Conformance Program gives vendors the ability to showcase their Zowe support competencies.

Benefits

- Your offering and logo listed in the [Zowe Conformant offering directory](#) or [Zowe Conformant Support Provider directory](#) and showcased in Zowe outreach materials
- Exclusive branding marks to use in your product materials
- Participation in the Zowe Advisory Council (ZAC)



Growing diversity in mainframe





Open Mainframe Project Female Leadership

**Coreen Wilson**

Senior Product Marketing Manager at Rocket Software

Coreen is a senior product marketing manager, driving Z Systems market strategy and Rocket's mission to keep the mainframe relevant.

[Read More](#)**Donna J. Hudi**

Chief Marketing Officer at Phoenix Software

Donna has more than 30 years of financial service, technology, marketing, and executive management experience spanning the asset management, software development, consulting, and non-profit industries.

[Read More](#)**Sudharsana Srinivasan**
IBM Z Influencer Program Manager at IBM

Sudharsana is the IBM Z Influencer Program Manager at IBM and TSC Chairperson of the COBOL Programming Course project

[Read More](#)**Meredith Stowell**
VP, IBM Z Ecosystem at IBM

Meredith is the VP, IBM Z Ecosystem, helping to build skills and a strong community of partners for IBM Z.

[Read More](#)**Tatiana Balaburkina**
Engineering Manager for Open Source products at Rocket Software

Tatiana is an Engineering Manager for Open Source products at Rocket Software.

[Read More](#)**Deb Giles**

Open Mainframe Summit

Deb is leading the Open Mainframe Summit event

[Read More](#)**Yvette LaMar**

Director of the IBM Z Influencer Ecosystem at IBM

Yvette LaMar is the Director of the IBM Z Influencer Ecosystem for IBM. Her mission is to help build a vibrant IBM Z community, and a strong mainframe technical talent pipeline.

[Read More](#)**Chris Blum**

Podcast and Social

Chris Blum leads Podcast and Social programs for Open Mainframe Project

[Read More](#)**Maemalynn Meanor**
Marketing and PR Communications

Maemalynn is the Marketing and PR Communications lead for Open Mainframe Project.

[Read More](#)**Tin Matienzo**
Events

Tin Matienzo is a member of the Linux Foundation events team and coordinates event participation for Open Mainframe Project.

[Read More](#)**Stacey Miller**

Global Product Marketing Manager for SUSE Linux Enterprise Server for IBM Z and LinuxOne, Real Time, Geo Clustering and Global Services

Stacey is responsible for driving SUSE product market strategy and communicating their value to SUSE partners and customers.

[Read More](#)

Over 35% of Open Mainframe Project Leadership is Female

MAKING OUR STRONG COMMUNITY, STRONGER: A COLLABORATIVE INITIATIVE



A REAL CONVERSATION TO ACCELERATE OUR WAY FORWARD

MAKING OUR STRONG COMMUNITY, STRONGER: A COLLABORATIVE INITIATIVE

Webinar: How Personal Experiences Shape Corporate Inclusion

April 28th 2021 | 11:00 CST / 12:00 EST



MODERATOR

Dr. Gloria Chance
President/CEO
The Mousai Group
Peak Performance Psychologist
Innovation & Creativity Expert
Author
Former CIO



Ashley Peterson

Product Marketing Manager,
IBM Z and LinuxONE

Broadcom



Jeff Henry

VP, Strategy, Product Mgmt & Design Mainframe Software Division

Rocket Software



Sharra Owens-Schwartz
Inclusion, Diversity and Equity Senior Director

Rocket Software



Jerry Chuaypradit
Manager, IBM Z Enterprise Networking Solutions

MAKING OUR STRONG COMMUNITY, STRONGER: A COLLABORATIVE INITIATIVE

Webinar: Unmasking Our 'Whole Self' - Can We Create Inclusive Psychologically Safe Spaces in the Workplace?

July 28th 2021 | 9:00 PDT / 12:00 EDT



MODERATOR

Dr. Gloria Chance
President/CEO
The Mousai Group
Peak Performance Psychologist
Innovation & Creativity Expert
Author
Former CIO



Allyson Cook

Program Lead, Customer Engagement Programs

Broadcom



Tina Tarquinio

Product Management Director for IBM Z

IBM



Kevin Norlin

Chief Revenue Officer

Rocket Software



Earl Dixon Jr.

Principal Client Services,
Vitality Program Tech Lead

Broadcom

Sponsored by Broadcom, IBM, Open Mainframe Project, Rocket Software, TechChannel & VirtualZ Computing.

Sponsored by Broadcom, IBM, Open Mainframe Project, Rocket Software, TechChannel & VirtualZ Computing.

Watch the videos on [Open Mainframe Project's Youtube Channel](#)



Building a diverse and inclusive community

The Open Mainframe Project promotes diverse and inclusive communities, partnering with groups and efforts to increase diversity in mainframe.

Check out our Diversity and Inclusion working group at

<https://lists.openmainframeproject.org/g/wg-diversity> and events at

<https://www.openmainframeproject.org/events/category/diversity-inclusion>



OMP Ambassadors driving awareness



Open Mainframe Project Ambassadors are individuals who are passionate about the mainframe technology, recognized for their expertise, and willing to help others learn about it and community. Successful ambassadors are people such as bloggers, influencers, evangelists who are already engaged with an Open Mainframe project in some way including contributing to forums, online groups, community events, etc.

If you would like an ambassador to speak at your event, please contact pr@openmainframeproject.org with the name of the conference, date and links.



OPEN **MAINFRAME** PROJECT
AMBASSADOR



Dan Kelosky
Broadcom

Dan is a Software Architect at Broadcom.

[Read More](#)



Greg MacKinnon
Broadcom

Greg is a Distinguished Engineer at Broadcom and participant in OMP's Zowe community.

[Read More](#)



Jerry Edgington
Western Southern

Jerry Edgington is a Senior Technical Analyst at Western Southern and a lead of OMP's Polycephaly project.

[Read More](#)



Jessielaine Punongbayan
Broadcom

Jessielaine Punongbayan is a Product Owner at Broadcom and the Lead for Zowe Explorer Squad.

[Read More](#)



Joe Bostian
IBM

Joe Bostian is a Senior Software Engineer at IBM and lead of OMP's Ambitus project.

[Read More](#)



Joe Winchester
IBM

Joe Winchester is a Senior Technical Staff Member at IBM and participates on OMP's Zowe Leadership Committee.

[Read More](#)



Matt Hogstrom
Broadcom

Matt Hogstrom is a Distinguished Engineer at Broadcom and one of the original committers of OMP's Zowe project.

[Read More](#)



Michael Bauer
Broadcom

Michael Bauer is a Product Owner at Broadcom, Zowe Command Line Interface Squad lead, and a TSC member of the COBOL Programming Course and Zowe.

[Read More](#)



Richelle Anne Craw
Broadcom

Richelle Craw is a Senior Software Engineer at Broadcom and a member of OMP's Zowe Explorer Squad.

[Read More](#)



Rose Sakach
Broadcom

Rose is a Global Product Manager at Broadcom and participates on OMP's Zowe Leadership Committee.

[Read More](#)

Bringing together the open source and mainframe conversation



Slack Channel

<https://slack.openmainframeproject.org>

A screenshot of the Open Mainframe Project Community Forum website. The header features the project's logo and navigation links for About, Members, Blog, News, and Contact. A search bar and user profile icons are also present. The main content area shows a list of forum categories and their topics. Categories include Uncategorized, Calling all COBOL Programmers, Jobs, Mainframers, Zowe, and COBOL technical questions. Each category has a count of topics and unread messages, along with a brief description and a list of recent posts. A sidebar on the right shows a list of recent posts from users A, J, S, O, and O.

Community Forums
<https://community.openmainframeproject.org/>

6

46

22

50+

1000+

61,000+

years since
launch

Supporting
Organizations

Hosted Projects and
Working Groups

Mentees
Sponsored

Project
Contributors

Project
Contributions



How to participate in Open Mainframe Project



Open participation for all interested in Mainframe and Open Source

Join the community discussion via communication channels, social, and at events

20 Shared R&D open source projects and working groups - or bring your project to be hosted here

Corporate sponsorship for showing stewardship in the community

<https://www.openmainframeproject.org/about/join>

Make sure you are following us on social!



The Open Mainframe Project
Information Technology & Services · 1,578 followers

The focal point for deployment and use of Linux and Open Source on the mainframe
WWW.OPENMAINFRAMEPROJECT.ORG

OpenMainframeProject
@OpenMFProject Follows you
A @LinuxFoundation Project for Open Source on the Mainframe as the standard for enterprise class systems and applications.
openmainframeproject.org Joined October 2015

Follow us on LinkedIn at
<https://www.linkedin.com/company/the-open-mainframe-project>

Follow us on Twitter at
<https://twitter.com/OpenMFProject>

And sign up for the [Open Mainframe Project newsletter](#) to keep up to date on project happenings



Learn more about the Open Mainframe Project



- Find out more at openmainframeproject.org
- See the breadth of open source on the mainframe at l.openmainframeproject.org
- Discover and participate in any of our 20 hosted projects and working groups at openmainframeproject.org/projects
- Take part in our upcoming events and webinars at openmainframeproject.org/events



Thank you!

Endnotes



- Slide 2, image from
https://www.flickr.com/photos/boston_public_library/6280049616/
- Slide 3, image from
<https://nara.getarchive.net/media/data-processing-technician-2nd-class-holt-monitors-a-telecommunications-console-4db71d>
- Slide 18, image from <https://pxhere.com/en/photo/1432563>



Why become a member?

Becoming an Open Mainframe Project member means your organization is...



- a leader in the open source on mainframe community
- wants to drive the technical vision of open source on mainframe
- a thought leader or aims to be a thought leader in open source on mainframe
- bringing solutions to market based on projects hosted at the Open Mainframe Project, and wanting to show your stewardship towards those communities

Leverage our industry presence to advance your thought leadership.



Through our large audience, extensive media outreach, and with key partnership with publications such as [Linux.com](#), [TFiR](#), [TechChannel](#), and [MediaOps](#), you will be positioned to be a thought leader in open source.

We also support member announcements with social outreach and quotes from John Mertic as appropriate.



4300+ followers



2600+ followers
1350+ shares in 2020



900+ global media articles in 2020 from 5 press announcements

Be a part of Open Mainframe Summit



Open Mainframe Summit is the premier event focusing on the intersection of open source and the mainframe, bringing together thought leaders, executives, practitioners, and developers.

Learn more about the 2020 event in the [Open Mainframe Summit Transparency Report 2020.](#)

Open Mainframe Project members receive discounts on sponsorship at Open Mainframe Summit - contact us to learn more!



Other countries with a sizeable audience at the event include:
16% 7% 5% 3%
India Brazil UK Canada

176 Companies
Participated



1,217 Total leads captured at virtual exhibit booths, an **average of 174** leads per booth

Stats from 2020 event

Showcase your career opportunities in Mainframe



Have your organization showcase to those coming to the Open Mainframe Project on members looking to hire.

Not a job board - links to each member's job listings.



Are you looking to see where mainframe and open source skills can take you? Check out the many open opportunities from Open Mainframe Project members below for the next step in your career.



[LEARN MORE](#)



[LEARN MORE](#)



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Zowe Conformance Program

Zowe Conformance Program enables vendors to showcase their offerings based on Zowe, as well as their capabilities in supporting Zowe end-users.

Zowe Support Provider Conformance Program gives vendors the ability to showcase their Zowe support competencies.

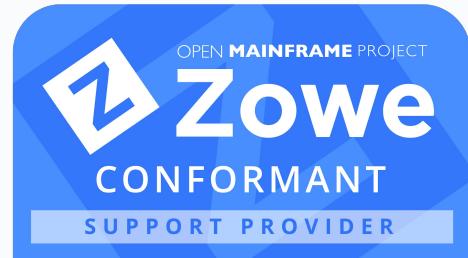
Benefits

- Your offering and logo listed in the [Zowe Conformant offering directory](#) or [Zowe Conformant Support Provider directory](#) and showcased in Zowe outreach materials
- Exclusive branding marks to use in your product materials
- Participation in the Zowe Advisory Council (ZAC)

Fees are waived for Open Mainframe Project members

More details at

<https://www.openmainframeproject.org/projects/zowe/conformance>



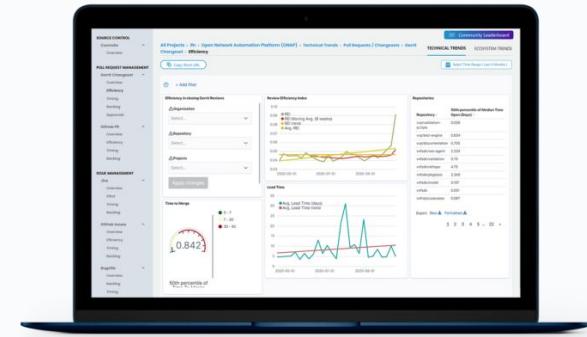
Measure your project impact with LFX Insights



LFX Insights (Technical Trends) is a new analytics tool that is provided to all open source projects hosted by the Linux Foundation. Its capabilities include:

- Getting the visibility you need to remove bottlenecks at any stage of your project's code pipeline. Drill down into performance metrics across every step in the development lifecycle to identify where you should be focusing your resources.
- Ensuring the health and viability of the open source projects you care about. Leverage data to help validate projects for investment, and track the activity and growth of projects your organization is already involved in.
- Showcasing your organization's leadership and subject matter expertise in the open source community. Leverage affiliations to measure the impact of your employees' contributions and capture the full picture of your team's impact

In addition to the use of the other LFX tools provided by the Linux Foundation, access to **LFX Insights (Ecosystem Trends)** tool is available to Open Mainframe Project Silver and Platinum members, which provides additional visibility into tracking your project's performance beyond code with a more holistic view of your ecosystem. Identify opportunities to grow your community and increase awareness with ecosystem trend metrics including share of voice, top influencers, email list collaborators, and more.



LFX | Insights

Maximize Your Open Source Investment with training credits



THE
LINUX
FOUNDATION

Training & Certification

The Linux Foundation offers training and certification direct from the source, those contributing to the world's most important open source projects.

As an Open Mainframe Project Silver or Platinum member, you are entitled to 10 vouchers for 100% off any...

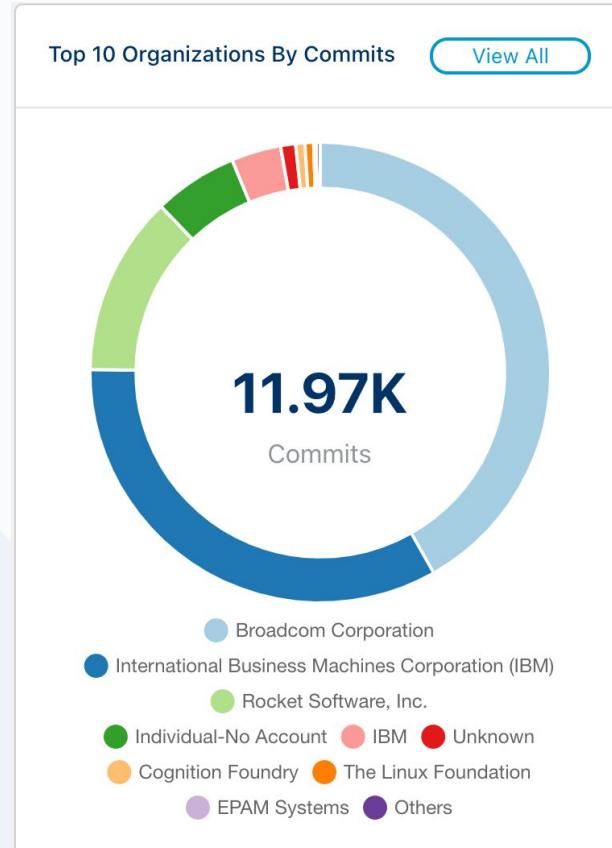
- LF eLearning Class
- Certification Exam
- eLearning+Certification Exam "Bundle".

The value is \$299+ per course.

But most importantly, you support innovation



20 collaborative projects and working groups are successful because of the investment of members funding these initiatives.



Stats for 2020 listed at left

Drive the direction of the foundation through Platinum Membership



Platinum members are the key stewards of the Open Mainframe Project, and as such hold key leadership positions in the various governance structures. Their investment is key to the sustainability of open source in mainframe.

Specific Benefits include:

- Voting seat on the Governing Board, TAC, and Marketing Committee, enabling the member to direct the strategic direction, budget, and priorities of the Open Mainframe Project.
- Host an Open Mainframe Project webinar and have a guest on the “I Am A Mainframer” podcast annually, if desired.
- Monthly meetings to brief on project activities, and an annual membership check-in to review engagement opportunities and provide feedback to project leadership.
- First opportunity to participate and drive event and outreach opportunities, and the project will ensure partnership with Platinum Members in relevant events.
- Open Mainframe Project leadership will support Platinum Member events, internal open source program efforts, and be available for customer and prospect engagement.



And more benefits from your Linux Foundation membership



Your contributions and support help the Foundation to provide its supporting programs that enable its many hosted open source project communities to thrive. In addition to the opportunities presented by networking, learning, and working with other member organizations that are using and contributing to Linux Foundation open source projects, there are many other benefits associated with a membership that include Marketing, Training, and Event opportunities. Silver Membership benefits include...

Events Benefits

- One invite to our member-exclusive [Linux Foundation Member Summit](#), which fosters collaboration, innovation, and partnerships among the leading projects and organizations working to drive digital transformation with open source technologies.
- Employees at your organization receive a 20% registration discount to eligible [Linux Foundation events](#).
- A 5% Discount on [Linux Foundation Event Sponsorship](#) (7% discount on multi-event Sponsorships). Sponsorships offer a valuable way to reach the community of Open Source Developers, Engineers, C-level Executives, and more.

Training Benefits

- Ten coupon codes good for any eLearning, certification exam, or eLearning/exam bundle. Additional terms apply.

Legal Benefits

- Your legal counsel's ability to participate in bi-monthly legal calls
- One invite for your in-house counsel to [LF Legal Summit](#), which helps connect your counsel to their peers at other member companies and advance your organization's open source licensing, litigation, compliance, and best practices.

Marketing Benefits

- Your company logo on the [LF website](#)
- Post one technical article about an open source project you care about to [Linux.com](#), which has over 1 million unique visitors per month.
- Exposure through new Silver members group press release, with social media promotion.
- Have your company's events featured on our [events.linuxfoundation.org community events calendar](#)

More details at <https://linuxfoundation.org/en/join/#benefits>. Let us know how we can help connect you to these opportunities! Sign up for the [Linux Foundation newsletter](#) to keep on top of the activities across our 350+ hosted projects.

Corporate, Academic, Associate Membership Levels



Level	Annual Fee	Board Seat	TAC Seat	Marketing Committee	Notes
Platinum	\$120,000	Yes	Voting	Yes	Initial 2-year participant commitment
Platinum End-User	\$30,000	Yes	Voting	Yes	Initial 2-year participant commitment
Silver	5,000 employees or more = \$50,000 2,000 < 5,000 employees = \$35,000 1,000 < 2,000 employees = \$30,000 500 < 1000 employees = \$25,000 100 < 500 employees = \$15,000 < 100 employees = \$10,000	1 per 10	Non Voting	Yes	
Academic	Free	1 per 10	Non Voting	Yes	Restricted to academic institutions
Associate	Free	No	Non Voting	Yes	Non-profits, open source projects

To join Open Mainframe Project, go to <https://www.openmainframeproject.org/about/join> or email at membership@openmainframeproject.com

Listed fees include Linux Foundation Silver membership. If you are already a Linux Foundation Member, reduced pricing is available.