Open Source
&
The Apache Way

Aditya Sharma

Apache OFBiz Committer

Apache Roller PMC & Committer

Apache Local Community

ALC comprises local groups of Apache (Open Source) enthusiasts, called an 'ALC Chapter'.

https://s.apache.org/alc

ALC Chapters

- ALC Indore, India
- ALC Beijing, China
- ALC Warsaw, Poland
- ALC Budapest, Hungary

Agenda

- Open source software
  - a. What is Open source software?
  - b. History
  - c. Comparison with closed source
  - d. Why you should know Open Source?
  - e. Why you should contribute to Open Source?
  - f. How can you contribute?
  - g. License
  - h. Examples

Agenda

- Apache Software Foundation
  a. History
  b. How ASF works?
  c. Projects
  d. Apache Project Ecosystem
  e. The Apache Way
  f. Where to start?
  g. How to contribute?

What is Open Source Software?

- Open source software is software with source code that anyone can inspect, modify, and enhance.
- Source code is released under a license in which the copyright holder grants users the rights to study, change, and distribute the software to anyone and for any purpose.
- https://opensource.org/osd

Open Source Software - History

- If we have some good, it must be shared, 'A childhood learning'
- Richard Stallman started the GNU Project and founded the Free Software Foundation.

Open-Source Vs Closed Source

- Closed sources are often refer as proprietary
- What is not open-source
  a. The thing that you are freely using?

Why you should know Open Source?

- It's trending!
- Offers numerous benefits:
    a. Security
    b. Training
    c. Control
    d. Stability

Why you should contribute to Open Source?

- Improve software you rely on
- Improve existing skills
- Meet people who are interested in similar things
- Find mentors and teach others
- Build public artifacts that help you grow a reputation (and a career)
- Learn people skills
- It's empowering to be able to make changes, even small ones

How can you contribute?

- You don't have to contribute code
- Do you like planning events?
- Do you like to design?
- Do you like to write?
- Do you like organizing?
- Do you like to code?
- Do you like helping people?
- Do you like helping others code?
- You don't just have to work on software projects!

Open-Source license

- Open source licenses are licenses that comply with the Open Source Definition — in brief, they allow software to be freely used, modified, and shared.
- Popular Licenses
    a. Apache License 2.0
    b. GNU General Public License (GPL)
    c. MIT license
    d. Mozilla Public License 2.0

Examples

Apache Software Foundation

- The World's Largest Open Source Foundation
- Established in 1999, the ASF is a US 501(c)(3) charitable organization
- Funded by individual donations and corporate sponsors
- Our all-volunteer board oversees more than 350 leading Open Source projects, including Apache HTTP Server

History

- Started with Apache™ HTTP Web Server project - the web server often simply called "Apache".
- From the humble beginnings of less than a dozen software engineers sharing code patches via email in February of 1995, to the incorporation of the ASF in June of 1999
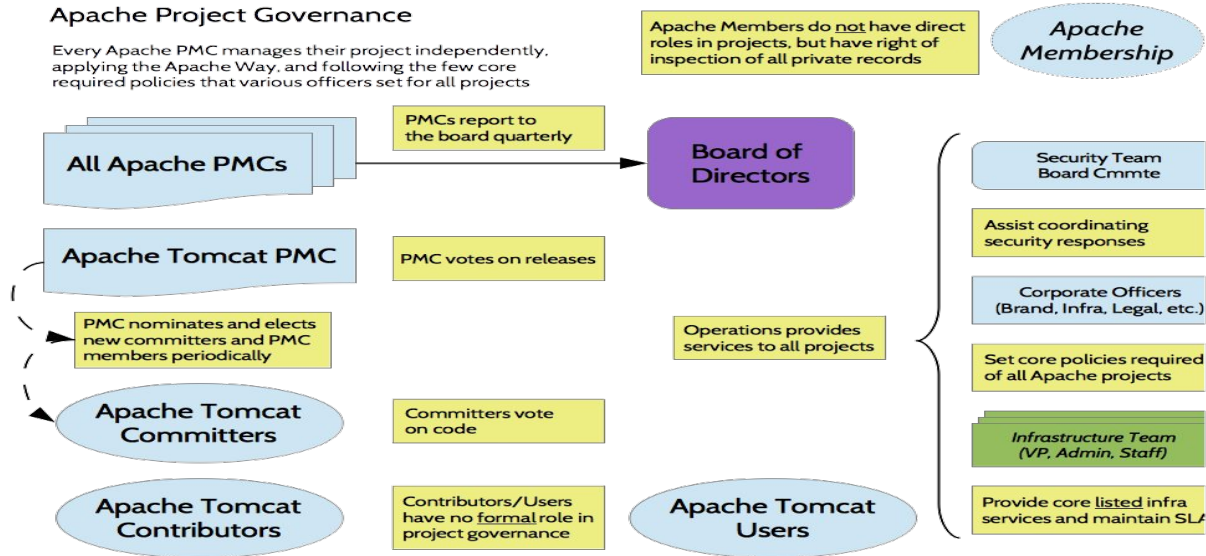
Projects

- Currently 350+ open source initiatives at the ASF
- Apache HTTP Server: Web/servers
- Apache Kafka: Big data
- Apache Maven: Build management
- Apache CloudStack: Cloud
- Apache CouchDB: Database
- Apache OFBiz: Enterprise resource planning
- Apache Spark: Machine learning
- Apache Cordova: Mobile
- Apache Tomcat: Java/servers
- Apache NetBeans
- And many many more…….

How Apache project works?

Apache Project Governance

Every Apache PMC manages their project independently, applying the Apache Way, and following the few core required policies that various officers set for all projects

Apache Members do not have direct roles in projects, but have right of inspection of all private records

Apache Membership

All Apache PMCs

PMCs report to the board quarterly

Board of Directors

Security Team Board Cmmte

Assist coordinating security responses

Apache Tomcat PMC

PMC votes on releases

Corporate Officers (Brand, Infra, Legal, etc.)

PMC nominates and elects new committers and PMC members periodically

Operations provides services to all projects

Set core policies required of all Apache projects

Apache Tomcat Committers

Committers vote on code

Infrastructure Team (VP, Admin, Staff)

Apache Tomcat Contributors

Contributors/Users have no formal role in project governance

Apache Tomcat Users

Provide core listed infra services and maintain SLA

Apache Project Ecosystem

- Website
- Community
- Code repository - SVN/Git
- Issue tracker - Jira, BugZilla
- Documentation - Confluence
- Mailing list
- Automated builds

The Apache Way

Methodology followed to ensure collaborative environment across the projects
- Community - over code
- Merit - recognizing your work
- Communication - how we write
- Open Development - for everything
- Decision Making - consensus & Votes

Where to start?

- Finding the right project
    a. https://projects.apache.org/projects.html
    b. https://projects.apache.org/projects.html?category
    c. https://projects.apache.org/projects.html?language
- Join the community

How to contribute?

- ICLA
- Subscribe to mailing list
- Project Documentation
- Code Development
- Testing and review patches

Thank You