



The Apache Way 101: Day 3



Sourabh Jain

Artist by heart & Developer by profession

Sr. Software Developer at HotWax Systems
4+ years of experience



Apache OFBiz Contributor





APACHE LOCAL COMMUNITY

- Local groups of Apache (Open Source) enthusiasts
- Similar to Java User Group, Google Developer Group, Facebook Developer Circles, Mozilla Reps
- Bring together local enthusiasts to meet and exchange knowledge, thoughts and ideas





Agenda

- Open source software
 - a. What is Open source software?
 - b. History
 - c. Comparison with closed source





Agenda

- Open Source Organizations
- Apache Software Foundation
 - a. History
 - b. Principles
 - c. Projects
 - d. Apache Project Ecosystem



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.
 - Apache License 2.0
 - GNU General Public License (GPL)
 - MIT license
 - Mozilla Public License 2.0





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.
- Breakthrough innovation - Linux

“Users should be empowered enough to fix and debug the software themselves-instead of simply operating it”



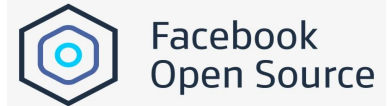
Open-Source Vs Closed Source

- Open Source software is technically superior
- No vendor lock-ins
- Fewer Bugs and Faster Fixes
- Open-source software boosts innovation
- Direct user input
- Better security (more eyes)



Why you should know Open Source?

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



Examples





Open Source Organization

Openness is becoming increasingly central to the ways groups and teams of all sizes are working together to achieve shared goals.

Today, the most forward-thinking organizations—whatever their missions—are embracing openness as a necessary orientation toward success.

Reason:

Greater agility, as members are more capable of working toward goals in shared vision.

Faster innovation, as more ideas rapid experimentation.

Increased engagement, as members clearly see connections between their particular activities, an organization's overarching values, mission, and spirit.



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Characteristics of an Open Organization

Openness is fluid. Openness is multifaceted. Openness is contested.

While every organization is different—and therefore every example of an open organization is unique—we believe these five characteristics serve as the basic conditions for openness in most contexts:

- Transparency
- Inclusivity
- Adaptability
- Collaboration
- Community



Open Source Organizations Characteristics

- Organisation is govern the project
- Provides Softwares for proper documentation
- Provides repositories for the code management
- Provides issue tracker to the project
- Make sure about the project branding
- Provide legal shelter to the project
- Make sure the divercity





Open Source Organizations

There are quite a number of not-for-profit and charitable organizations supporting the open source software movement. These are some we think you should know about.

- Apache Software Foundation
- Linux Foundation
- GNOME Foundation
- Mozilla Foundation
- Free Software Foundation
- Eclipse Foundation



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



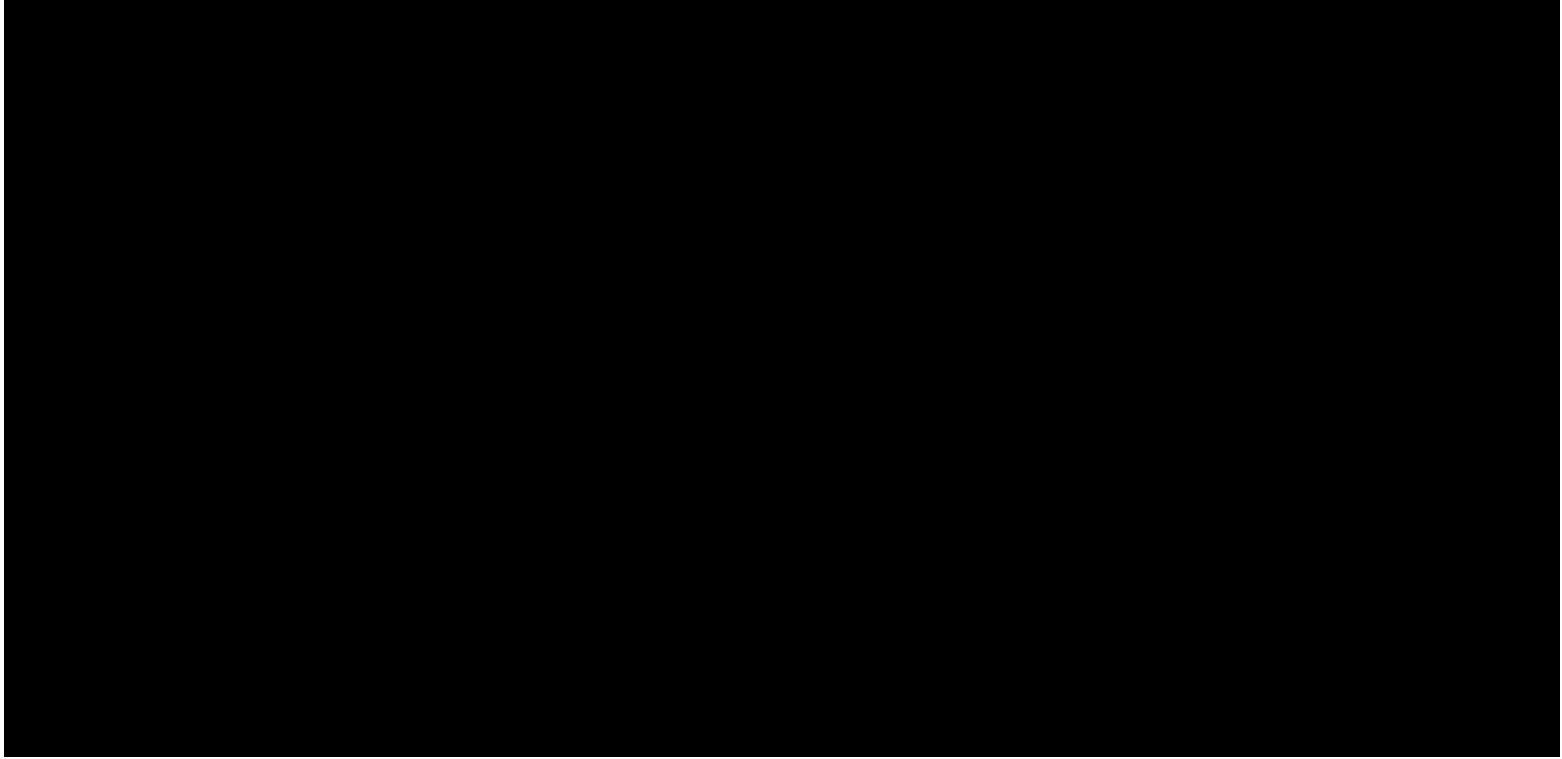
History

- 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 Tomcat: Java/servers
- Apache NetBeans
- And many many more.....





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ASF Stories



Sander Stricker
Board Member

Developer Experience (DevX)
at Bloomberg



Sam Ruby
Board Member

IBM



Roy T. Fielding
Board Member

Senior Principal Scientist,
Adobe



Bertrand Delacretaz
Board Member

Principal Scientist, Adobe



Griselda Cuevas
V.P., Diversity and Inclusion

Open Source Program
Manager at Google Cloud



Rich Bowen
VP Conferences

Red Hat

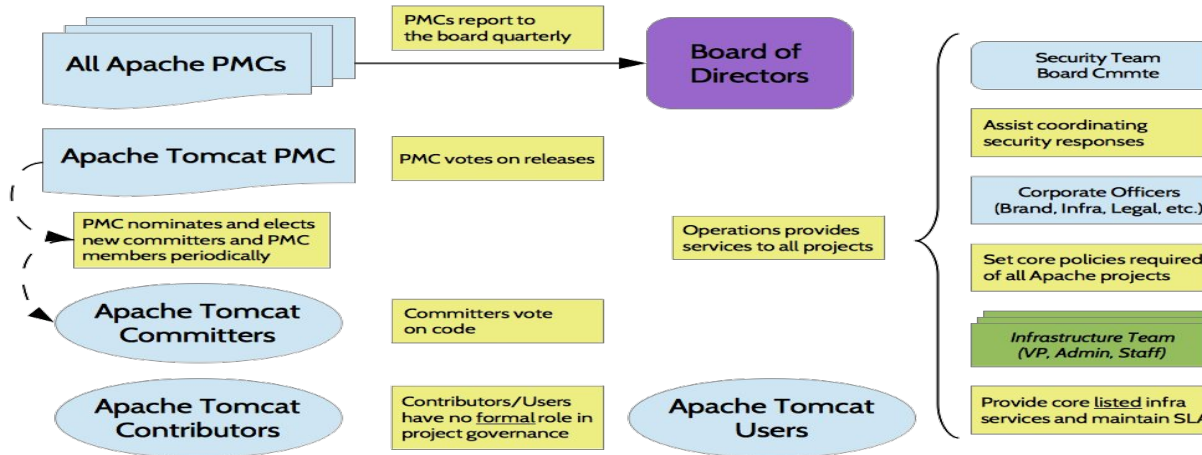
How Apache project works?

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

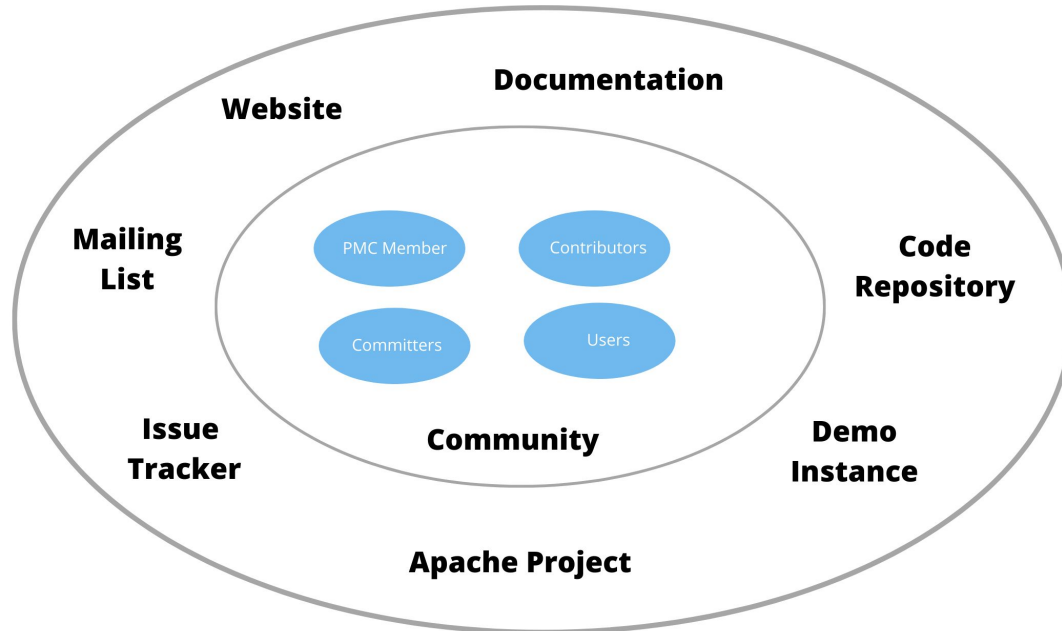
Apache Members do not have direct roles in projects, but have right of inspection of all private records

Apache Membership





Apache Project Ecosystem





Principles

Methodology followed to ensure collaborative environment across the projects

- Earned Authority
- Community of Peers
- Open Communications
- Consensus Decision Making
- Responsible Oversight
- Community Over Code
- Independence





Apache Project Ecosystem

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

 Jira Software

 git



 Confluence



Ways to Contribute

- Documentation, Tutorial and Examples
- Helping others with queries and questions
- Issue / Bug tracker triage
- Testing new fixes, helping reproduce problems
- Bug fixes and new features
- Writing addons and extensions
- Mentoring and volunteering for the foundation





Today's Task

Find out the top open-source foundation in the world and their popular softwares.



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