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Introduction

- Who the Apache Group are
- How the group works
- Open Source & Licensing
- Commercial Spin-offs
- What is coming next
- Questions



The Apache Group

- Apache Web Server
 - Serves web pages via HTTP
 - ◆ Used by over 50% of all sites
 - Written because nothing else was available
- Apache Group
 - ◆ Founded in 1995
 - Small group of programmers
 - Incorporated in 1999



Apache Group Structure

- Over 20 core members
- Many hundred contributors
- Varied Backgrounds
 - Programmers
 - Technical
 - Management
- Distributed geographically
 - USA, Europe
- Press Perception



Apache Group Members



"a loose confederation of programmers ... working in their spare time over gin and tonics at home" -- The Wall Street Journal



How the group works

- No leader or hierarchy
- Mixed backgrounds
- Mixed agendas
- "Core Group"
- Evolved working practices
- Voting System
 - +1 / 0 / -1
 - Not needed for all code changes
- Release procedures



Problems

- Release Pressures
- When everyone is too busy
- Apathy
- Microsoft Windows
- Differences of Opinion
 - ◆ C / C++ debate
- "Too many cooks"
- Conflict of Interests
- Reasons for changes
 - Market Led or Technology Led



Group Activities

- More than just coding
- Deciding direction
- Fixing bugs
- Documentation
- Support
- Release management
- External relationships
- Legal and licensing



Distributed Working

- Evolution
- Mailing Lists
 - Public
 - Private
- Web site
- Support tools
 - CVS for shared code
 - SSH for security
 - Bug Database



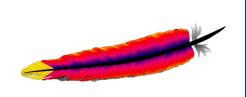
Licensing

- Assumptions
 - Group not for profit
 - Authors assign code to group
 - Commercial use okay
- Apache License
 - Advertising clause
 - Commercial use
- Library Issues
 - ◆ GPL & other licenses



Commercial Spin-Offs

- Services
 - ◆ ISP's running Apache Servers
 - Email Support (UK Web)
- Consultancy
 - Custom design work
- Add-on modules
 - ◆ SSL (RedHat, Covalent)
- Commercial "based-on" servers
 - Apple
 - **♦ IBM**
 - C2Net



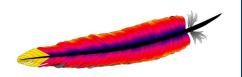
Apple

- Mac OS X Server
- Made Apache work with Mac
- Contributed changes back

IBM

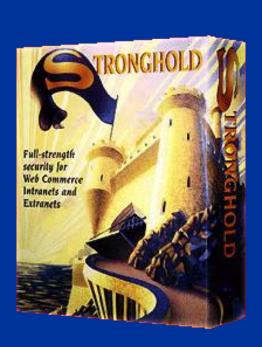
- Had a proprietary web server
- Replaced it with Apache
- Contributed code and resources
- Added value to IBM's version
 - Security
 - In-kernel cache

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C2Net - Stronghold

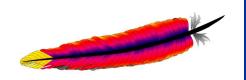
- Value add
 - Secure server
 - ◆ Box
 - Manuals / CD
 - Support
 - Bundles
- Core developers
- Gives back code
- Publishes Apache Week
- Ran ApacheCon 98





What's next

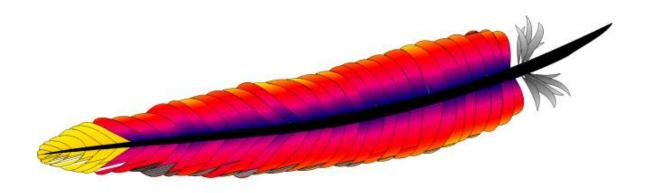
- Coding
 - New architecture
 - Apache Runtime
 - DAV
- People
- Market or Technology led?
 - Netcraft survey
 - Microsoft threat



Why is Apache popular?

- Open Source
- Binaries available
- Customisable and Extendable
- Free
- Proven
- Performance
- Reliable
- Does its job
- Commercial backup available

Questions?



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