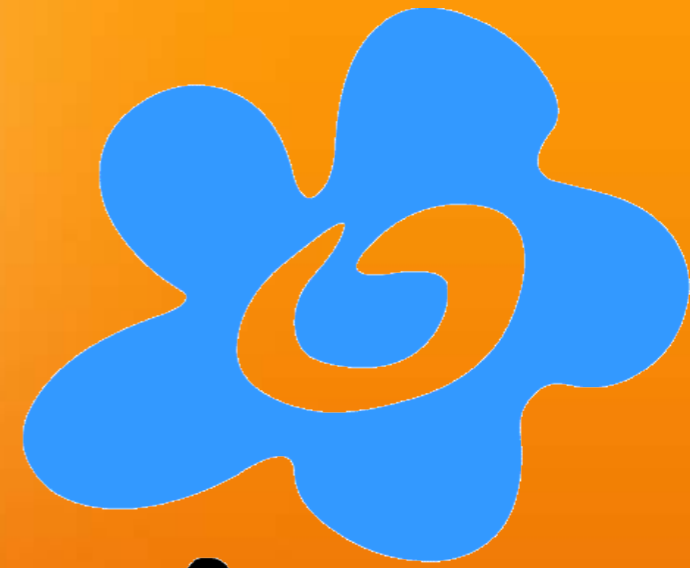


Rails 3.1

Open Source



Rails

Gert Franz
Railo Technologies
CFUnited 2009



About the speaker

- Into Coldfusion since 2000
- Delphi/Java background
- Studied astrophysics in Munich
- I work for Railo Technologies
- Initial member of the CFML Advisory committee
- Performance Tuning, SQL Tuning, algorithms





What is Railo?

- Railo is a CFML engine
- Compiles CFML into Java Byte code
- Different architecture
- New improved features
- Free & Open Source (LGPL V2)



What is different?

- Programming wise: nothing
- Separated context (sandboxes by default)
- Security settings by context
- New features, tags & functions
- Strict concept, syntax enforcement





What are web contexts?

- Integrated sandboxes
- Each web application (defined by a hostname) is an isolated context
- Each context can share resources
- Security settings context wise



Why use them?

- Data sources where you need them
- Two contexts can use different versions of a framework
- Local admin for each context
- Copying an application is very easy, all settings are “saved”
- Global admin console available



Reasons for Railo?

- Performance, better than PHP
- Small memory footprint
- Stability
- Compatibility (highly compatible with the standard)
- Server resource consumption
- Security & Features
- ... and of course price





Higher Performance?

Never trust what a vendor says

Find it out yourself!!!



Memory footprint

- Can be used with as little as 64MB
- On a 2GB machine about 20 instances of Railo can run parallel started with 64MB memory allocation
- One instance might contain several web contexts



Compatibility

- Change of the engine almost without code changes

| Frameworks | Applications |
|---------------------|---------------------------|
| Fusebox 5.5 | Contens 3.x |
| Mach II 1.5 | Mura 5.x |
| ModelGlue x | Farcry 5.x |
| ColdBox x | BlogCFC 5.x |
| Transfer 1.x | MangoBlog 1.3.x |
| Reactor 1.x | ShadoCMS, ZoomFlex |





A word about the price

- FREE!



A word about the price

- You get a basic car for free
 - Everything you need to drive
- You can buy
 - Formula 1 extension
 - Kids extension
 - Farmer extension etc.
 - First class professional OS support





Some things about Railo

- internal database (HSQL, H2, Derby will come)
- var scope as the default scope in functions
- Synchronized components, Railo archives
- cffinally, cfcontinue, cfdump eval= " "
- cffile action="info", cfcache type="content"
- Implicit getters/setters, onMissingMethod, magic functions





Some things about Railo

- `struct()`, `array()`, `query()`, `serialize()`, `duplicate()`
- `myArrayFunc()[5]`
- Optional semicolons in `cfscript`
- `compress()`, `extract()`, `dump()`
- `nowServer()`, `now()` per timezone
- and many more like:
- **RESOURCES**





Resources... Just cool

- Store your files wherever you like
- Usable in all file operations mappings and in almost all admin settings
- No special knowledge necessary





Resources: How to use?

```
<cffile action="copy" source="c:\temp.txt"  
  destination="ftp://user:pass@somehost/pub/temp.txt" >
```

```
<cffile action="copy" source="c:\temp.txt"  
  destination="zip://c:/temp.zip!/pub/temp.txt" >
```

```
<cffile action="copy" source="c:\temp.txt"  
  destination="ram:///pub/temp.txt" >
```

```
<cffile action="copy" source="c:\temp.txt"  
  destination="db://datasourcename/temp.txt" >
```

```
<cffile action="copy" source="http://www.mypage.com/pub/temp.txt"  
  destination="c:\temp.txt" >
```



Resources: benefits

- Based on an interface
- New implementations possible like: svn, ssh, webdav, encrypted, flat file etc.
- Railo resources are transaction safe
- Resources can be case sensitive or not



Resources: benefits

- Implemented Resources
 - FTP, ZIP, TAR, RAR, RAM, HTTP, file system, **S3, Database**

- Planned resources
 - Railo Archive, SFTP, SVN, XML, WebDav





Railo 3.x

- Compatible to CFML2009





New in Railo 3.x

- `arrayContains(NoCase)`
- `getMetaData()` for Scopes
- `cfapplication` (mappings, customtags)
- `cfthread` (attribute type, retryinterval)
- `cfvideo`, `cfvideoPlayer[Param]`





New in Railo 3.x

- Amazon S3 resource
- Cluster Scope
- Instance synchronization
- Task manager
- Can be filled with the tag `CFTHREAD type="task"`





Multimedia with Railo 3.x

- Display single videos
- Display many videos with a playlists
- Two new tags
 - CFVIDEOPLAYER
 - CFVIDEOPLAYERPARAM



Display videos

- Simple example: display a video

```
<cfvideoplayer video="simpson.flv"  
preview="simpson.jpg">
```



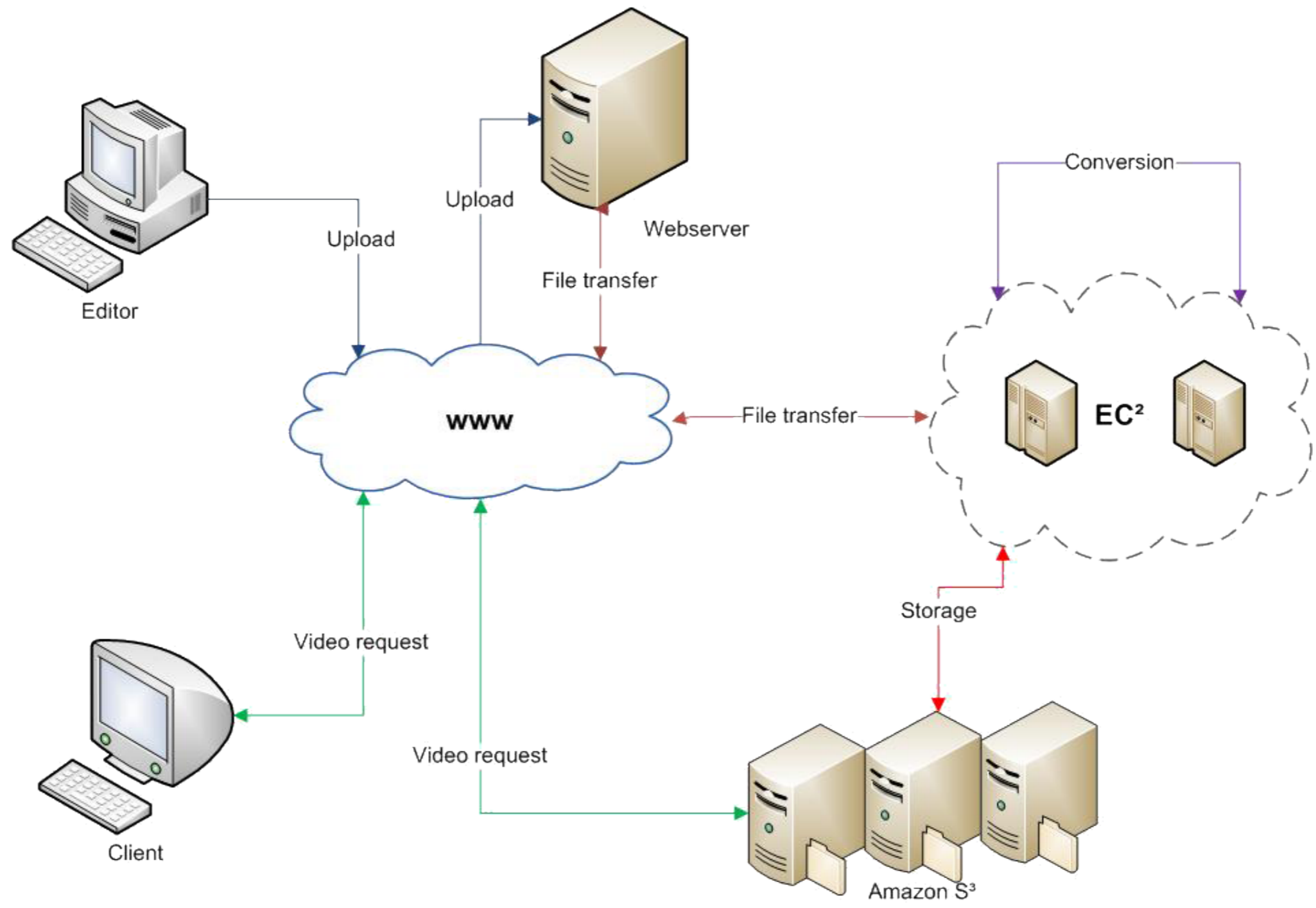
Display videos

- With CFVIDEOPLAYER you can easily create the following playlist:





Multimedia with Railo 3.x





Multimedia with Railo 3.x

- Paid extension
- New tag
 - CFVIDEO
- Convert videos or audio files
- Extract images
- Extract audio



- Extensions
 - tags, functions, applications
- Permanent tag libraries
 - JSP or CFML
- Permanent CFML built tags or functions
 - Create your own tags or functions



Extend Railo 3.1

- Write your own custom tag (DATAGRID)
- Define the requirements
- Copy it to {railo-web}/library/tag
- Or {railo-server}/library/tag
- Use it like this CFDATAGRID



Extend Railo 3.1

- Write your own custom function toString()
- Define the requirements
- Copy it to {railo-web}/library/function
- Or {railo-server}/library/function
- Overwrites existing functions





CFC Custom Tags

- Let's have a look



Extension Manager

- Is available in each Railo Admin
- Usable for application- and Railo extensions (like CFVIDEO, clustering)
- Extensions
 - can be free or not
 - can be updated
- Write your own provider





Extension Manager

- Railo providers are always available
- Free frameworks and applications
- Free and non free Railo extensions



Extension Manager

- Creating extensions is very easy
- Just follow the API
- Test your extension locally
- Upload it to the official Railo provider
 - Or add it to any extension provider
 - Or create your own provider



- Easy to share applications/extensions
- No advertising necessary
- All Railo users see your applications
- Update easy to maintain
- One global resource
- No installation manual necessary





Licensing Railo 3.1 OS

- LGPL V2 license
- No restrictions!
- Distribute your Applications and include Railo OS in it without costs
- Hosted on JBoss.org
- Beta released March 31th 2009





Licensing Railo 3.1 OS

- Basic things FREE!
- Buy what you need
- Professional open source services





Websites

The screenshot shows the Railo Technologies website homepage. At the top, there are two versions of the Railo logo and a search bar. A navigation menu includes links for 'Why CFML?', 'Download', 'Documentation', 'Community', 'About Railo', and 'Contact Us'. The main content area features a large orange banner with the text: 'ACCELERATE YOUR CFML DEVELOPMENT. Railo has a free, open-source alternative for ColdFusion application development. It's (super) fast, feature-rich, syntax compatible, and did we mention that it's free?'. Below this is a button labeled 'What Railo User Are You?' with sub-links for 'CFML Developer', 'Java Developer', 'PHP Developer', and '.NET Developer'. To the right, there is a section for 'RAILO + JBOSS GREAT NEWS FOR CFML & JAVA DEVELOPERS', mentioning a 100% Open Source version of the Railo CFML server, with 'Learn More' and 'Download' links. The footer area is dark grey and contains three columns: 'Questions?' (with links to 'Documentation' and 'Mailing List'), 'Extensions & Applications' (with a 'Learn More' link), and 'Railo Services' (with links for 'Services Overview' and 'Request a Quote').

From Our Blog

OCT 27

Railo 3.0 Released - Features Part IV - Task Manager & Remote Sync

Praesent erat nisi, dapibus lobortis, tempor vitae, scelerisque ut, lacus. Aliquam aliquet vehicula magna. Curabitur augue. Morbi ac tellus quis nunc adipiscing varius.

OCT 23



PCWorld.de Chooses Railo for a Speed Upgrade

Aliquam a tortor et est ullamcorper pellentesque. Fusce pulvinar massa ac velit. Praesent vehicula

TOP LINKS

> Which Railo is right for me?

> Railo is compatible with Fusebox, ModelGlue, Mach II, Coldbox, and more...

> Latest performance tests of Railo from around the Web



The screenshot shows the Railo website homepage with a purple header. The header includes the Railo logo with a 'BETA' tag, navigation links for 'Services', 'Products', 'Why Railo?', 'Partners', 'About Us', and 'Contact Us', and a search bar. The main content area features a 'Come see us' section for the CFUnited 2009 conference, a 'Ticket discount' section, and a 'New Debugger for Railo' section. Below this are three columns: 'Railo Professional Extensions', 'Railo Products', and 'Railo Services', each with a brief description and links to more information.

[Railo Blog CFC](#)

[TOP LINKS](#)





What's in Railo 3.x

- Basic CFML is free
- Free application extensions
- Bundled with Fusion Debug/Reactor
- Extend Railo





What's going to happen?

- Approach other communities
 - Java, Flex, PHP
- Extend Railo
 - Cluster Cache
 - Java Reflection
 - Event gateways
- Tightly Integrate with JBoss Web



What do we want?

- Be a #1 CFML engine
- Extend the community
- Offer professional support
- BE THERE for the community
- Sponsor and help the community



- Late 2009 Railo 3.2
 - Hibernate Integration
 - *JBoss Cache Integration*
- Summer 2010 Railo 4.0
 - Extend Java Objects
 - Extend Webservices
 - Drop Java Reflection
- Support from Jboss.com



Let me out

- Have fun using Railo

