

ColdFusion 9

Die neuen Funktionalitäten



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ColdFusion

STATE OF THE UNION

What's Been Going On?



- ColdFusion 9 Released!
- ColdFusion Builder
 - Public Beta 3 Coming Soon
 - Scheduled for release early 2010
- ColdFusion in the Cloud
 - Phase 1: ColdFusion on Amazon EC2
 - Private Beta underway
 - Phase 2: Scheduled for release early 2010

ColdFusion 8 – Gartner Report



- Upgraded to **Invest**
- Cited range from beginner to expert
- Cited Java Productivity



“...ColdFusion is unmatched by any competitor for ease of use and technical capabilities. When we combine this with cross-platform deployment, and significant integration into both Java and .NET, ColdFusion stands out as a compelling solution for many IT challenges.”

<http://bit.ly/CFGartnerReport>

What about ColdFusion 9?

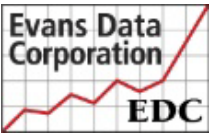
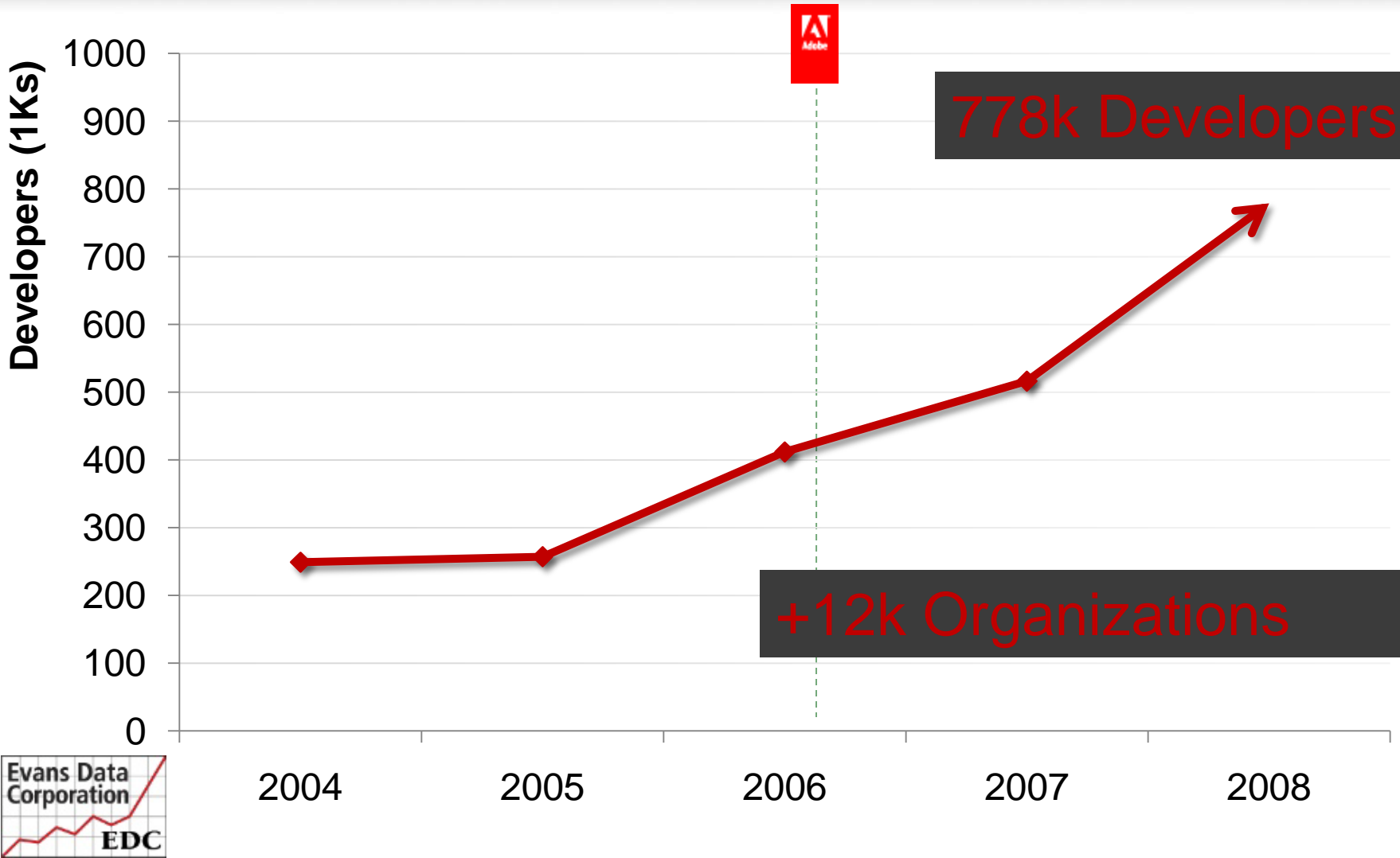
The Gartner logo, featuring the word 'Gartner' in white text on a blue background with a grid pattern. The logo is reflected below the main image.

Gartner.

“No other web development toolset available today gives you an equal balance of flexibility, scalability and out-of-the-box RAD experience for dynamic web applications than ColdFusion.”

<http://bit.ly/CFGartnerblog>

ColdFusion Population Growth



ColdFusion Builder

ONE TOOL TO RULE THEM ALL



Introducing ColdFusion Builder

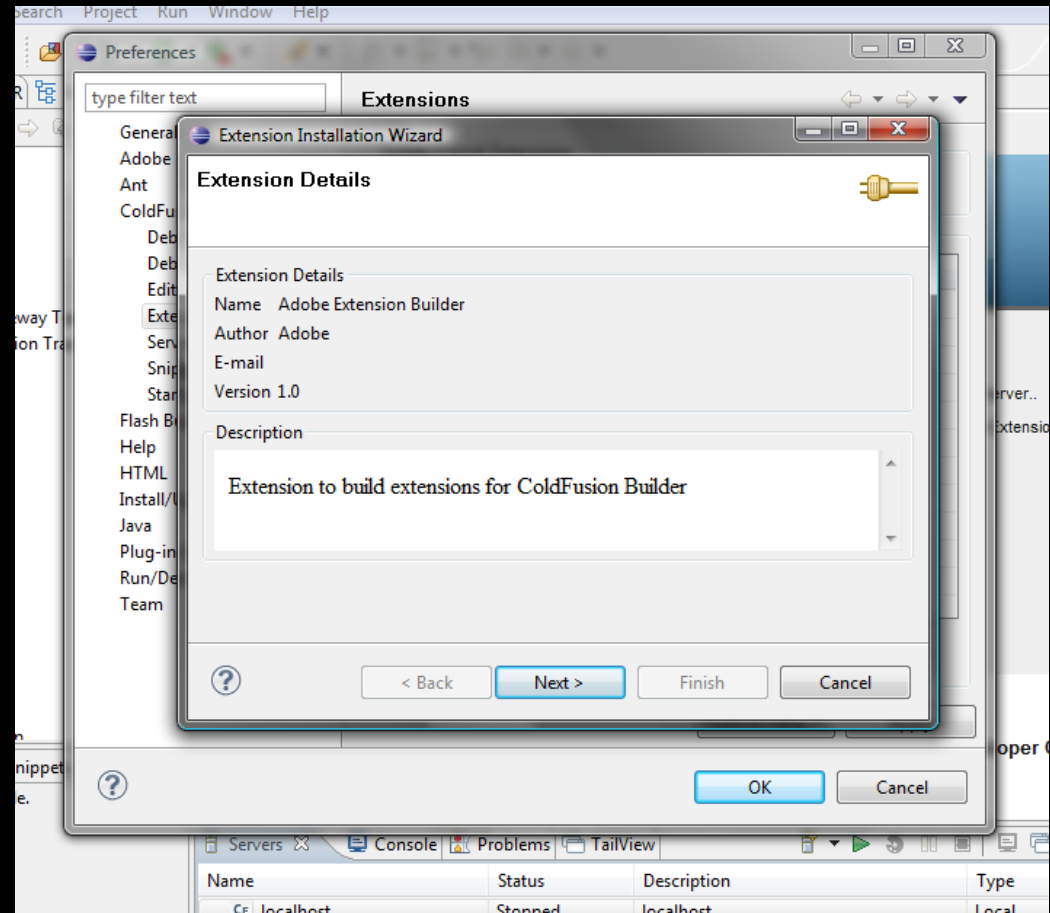


- Eclipse-based Editor
 - CFML Code Assist
 - CFML Insight
 - CFML Debugging
 - CFML ORM Insight
 - HTML, DOM & CSS Code Assist
 - JavaScript & AJAX Insight
 - jQuery, ExtJS, more!
 - SQL Code Assist
- Code Snippets
- FTP / SFTP Support
- Tail-View Log Viewer
- Server Management
- Database Tools

ColdFusion Builder Is Extensible



- Build ColdFusion Builder extensions using CFML
- Extensions can be attached to file navigator, RDS database, and more
- 21 extensions already posted to RIAForge!
- Extensions for popular frameworks under development



A photograph of two people on a stage. On the left, a man with short hair and sunglasses is speaking into a microphone. On the right, a woman with blonde hair is wearing a shimmering silver dress and holding a large, ornate silver trophy. The trophy has 'PHP' written on its base. The background is dark, suggesting a stage or awards ceremony.

ColdFusion 9

CFML IS THE BEST DEVELOPMENT
LANGUAGE OF ALL TIME!

- **Server.cfc**
 - `onServerStart()`
 - Defined via ColdFusion Administrator
- **Increased database control**
 - Nested `<CFTRANSACTION>`
- **Increased error control**
 - `CFFINALLY / finally` (The cffinally block code always executes, whether or not there is an exception.)
- **Enhanced looping**
 - `CFCONTINUE` (Returns processing to the top of a loop.)

- Pass implicit structures/arrays to tags and functions
- Assignment chaining
`a = b = c`
- Direct access to elements of returned arrays
`myFunction()[x]`
- Ternary operators
`a = (b < c) ? b : c`

- Core language support for **CFSCRIPT**
- Fully define ColdFusion Components (CFC)

```
component
{
    property string FirstName;
    property string LastName;

    public string function getFullname()
    {
        var fullName = FirstName & ' ' & LastName;
        return fullName;
    }
}
```

- **Explicit local scope for private function variables**
 - `<cfset LOCAL.myvar = 1 />` in addition to `<cfset var myVar = 1 />`
 - `var` scope variable anywhere within a function/method
- **Implicit getters/setters – based on CFPROPERTY**
 - 7x faster than explicit getters/setters
- **Import and New keyword**

```
<cfscript>
    import com.demo.*;
    obj = new User();
    obj.setFirstName('Adam');
    obj.setLastname('Lehman');
</cfscript>
```

A silhouette of a person wearing a head-mounted display (HMD) with two glowing circular lenses. The person is centered against a background of blue light rays radiating outwards from behind them.

ColdFusion 9

A NEW APPROACH TO DEVELOPMENT

- ColdFusion 9 includes ORM functionality
 - Powered by the Java Hibernate framework
 - Easy CFML functions: `ormXXX()` & `entityXXX()`
 - Unrestricted access to Hibernate settings and runtime for advanced use
- CFCs can be “auto-magically” saved to a database
- No need to write SQL
 - Write **less** code & develop applications **faster**
 - Build database independent applications



- Object cache

- Save / Retrieve objects from a built-in cache
- Programmatic access to cache metadata / properties
 - `cacheGet()`
 - `cachePut()`
 - `cacheGetMetaData()`

- Simple page cache

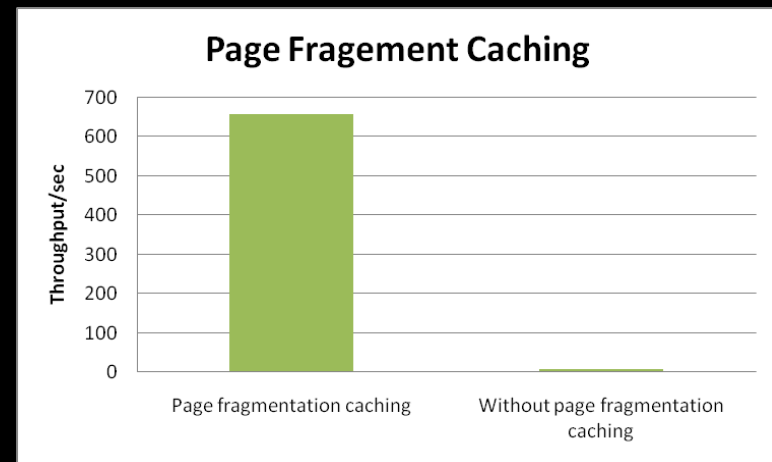
- 30% faster in ColdFusion 9

- Page fragment cache

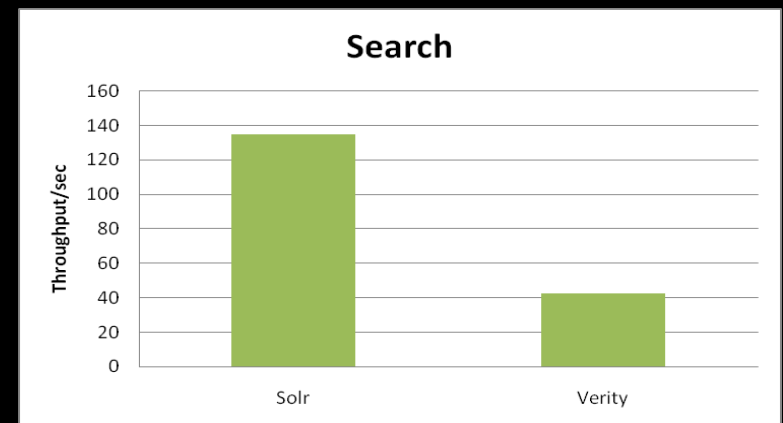
- Combination of static & dynamic
- HUGE performance boost

- Cache template on request

- 50x performance boost



- Native integration w/ Apache Lucene & Solr
 - Full CFSEARCH/CFINDEX functionality
 - Advanced Replication / Caching
 - No document limit
- Autonomy Verity still part of ColdFusion 9
 - Verity → Solr migration tool
- Apache Solr is faster!
 - Searching 6x faster
 - Indexing 2.5x faster



- Retrieve and manage email/folder via IMAP
 - Return headers-only for faster download
 - Download attachments
 - Manage Folders

```
1 <cfimap action = "open"
2     server = "imap.gmail.com"
3     username = "yourname"
4     password = "yourpassword"
5     secure = "yes"
6     connection = "gmail" />
7
8 <cfimap action = "getHeaderOnly"
9     connection = "gmail"
10    name = "qryMail" />
11
12 <cfdump var="#qryMail#" />
13
14 <cfimap action="close" connection="gmail" />
```

- Direct access to ColdFusion services
 - General Utilities
 - Includes file upload support
 - Charting (CFCHART)
 - Document Services (CFDOCUMENT)
 - PDF Utilities (CFPDF)
 - Image Manipulation (CFIMAGE)
 - Mail (CFMAIL)
 - Pop (CFPOP)
- Available as SOAP & AMF
- Granular Security Controls



- AS3 / MXML Libraries for Adobe Flex
 - `<cf:mail ...>`
 - `<cf:pdf ...>`
 - `<cf:image ...>`
 - etc.
- Flash Remoting is **9x** faster
 - Fastest Flash Remoting of any server-side technology (**maybe**)
- Full integration w/ BlazeDS
 - LCDS Express no longer available



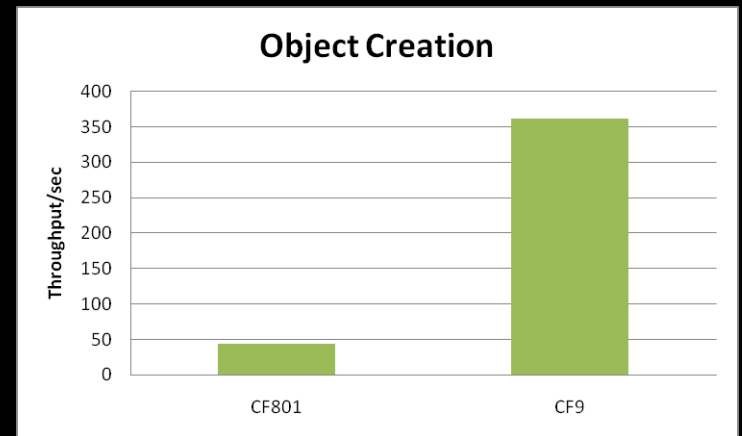
- AS3 data persistence library for Adobe AIR
 - Online/offline data synchronization
 - Support for conflict resolution
- Client-side ORM for ActionScript
 - Work with data as entities/properties not tables/columns
- Full support for AS3 / MXML libraries in Adobe AIR



Performance. Performance. Performance.

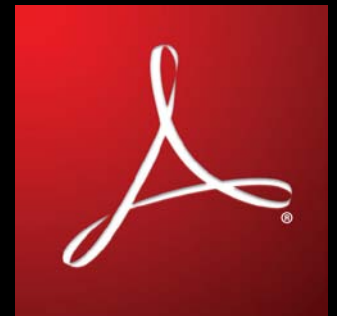


- Overall application performance
 - 40% faster than ColdFusion 8
 - 6x faster than ColdFusion 7
- CFC creation 8x faster
- CFC method invocation 3x faster
- UUID creation 100x faster
- More...



- Create PDF Packages
- Add/Remove Headers and Footers
- Optimize PDF's
 - Remove Unused Elements
 - Down-sample images
- Extract Text / Images
- High Quality Thumbnails
- Convert Microsoft Word documents to PDF

DEMO

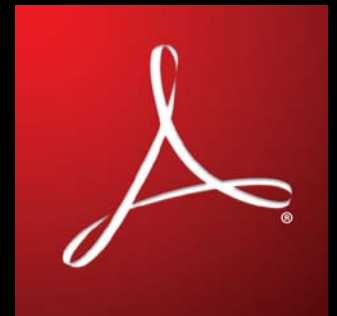


- Read Data Structure of a PDF Form
- Read Data from a PDF Form as XML
- Write XML Data in to a PDF Form (Prefilling)

DEMO

```
<cfpdfform source="C:\ColdFusion8\wwwroot\CFInsiderWorkShop\PDF-Tour\urlaub.pdf" action="read" result="fields"/>  
  
<cfdump var = "#fields#">
```

```
<cfpdfform action="populate" source="Urlaub.pdf" overwrite="yes">  
  <cfpdfsubform name="Formular1">  
    <cfpdfformparam name="vorname" value="Jan">  
    <cfpdfformparam name="Nachname" value="Hilmar">  
  </cfpdfsubform>  
</cfpdfform>
```



- CFPRESENTATION

- Generate PPT files from CFML/HTML content
- Convert PPT to HTML or Flash

- Support for

- Microsoft PowerPoint 97, 2000, 2003, 2007, 2008
- Open Office Presentations



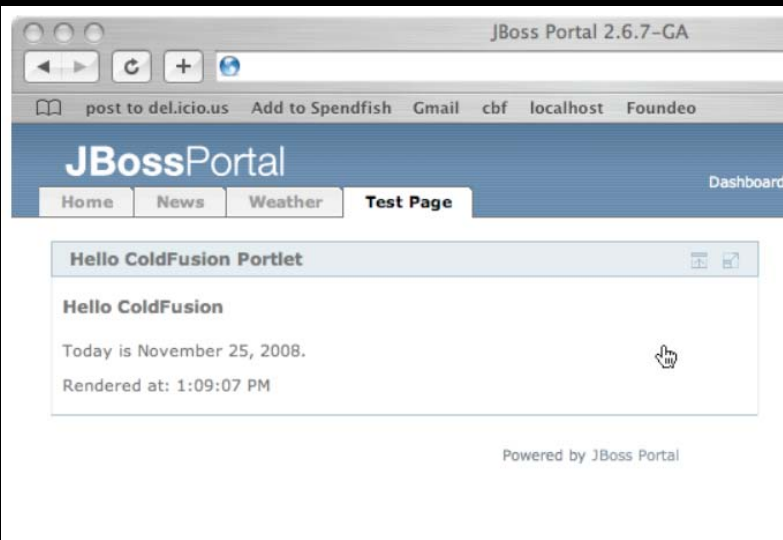
- CFSPREADSHEET
 - Create
 - Read
 - Merge
- Work with Excel formulas
- Complete formatting control
- Support for
 - Microsoft Excel 97, 2000, 2003, 2007, 2008
 - Open Office Spreadsheets



- Native access to SharePoint data and services
 - Sites, site templates, sub-sites, web parts, and work spaces
 - Lists including data, views, and alerts and querying against lists
 - Users, permissions, site groups, cross-site groups, security groups, and distribution groups
- Build web parts w/ CFML
 - Integrate w/ SharePoint Single Sign-On
- Extensible via WSDL
 - download
 - listpicturelibrary
 - upload
 - addlist
 - getlist
 - updatelist
 - deletelist
 - finddwsdoc
 - createdws
 - deleteview
 - addview
 - updateview
 - getusercollectionfromweb
 - addusercollectiontogroup



- Easily build ColdFusion powered content for industry leading portal servers
- Built-in support for portlet standards
 - JSR-168 & JSR-286
 - Web Services for Remote Portlets (WSRP)



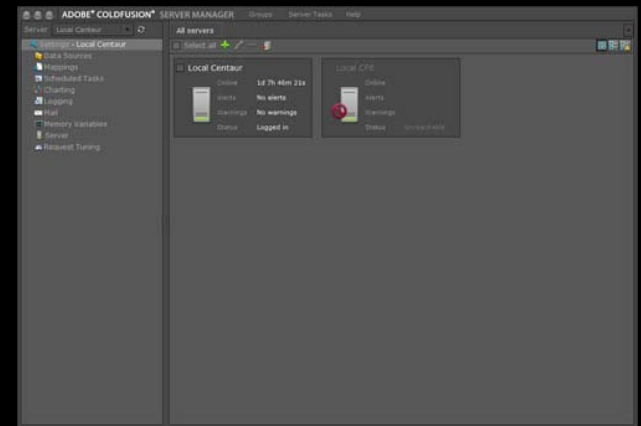
```
<cfcomponent extends="CFIDE.portlets.ColdFusionPortlet">

  <cffunction name="doView" returnType="void" output="true">
    <cfargument name="renderRequest" type="any" required="true">
    <cfargument name="renderResponse" type="any" required="true">
    <h1>Hello ColdFusion</h1>
    <cfoutput>
      <p>Today is #DateFormat(Now(), "long")#.</p>
      <p>Rendered at: #TimeFormat(Now(), "h:mm:ss tt")#</p>
    </cfoutput>
  </cffunction>

</cfcomponent>
```

- Desktop application for monitoring and managing ColdFusion servers
 - Flex-based AIR application
 - Run as a background service
 - Receive system notification & alerts
- Manage / Apply settings for **multiple** servers
 - Datasources, Mappings, etc.
 - Apply Hotfixes
 - More...

DEMO



Enhanced UI Controls

- Updated UI Controls
 - ExtJS 3.0+
- Powerful new controls
 - Multi-File Upload
 - Enhanced Data Grid
 - Progress Indicator
 - Message Box
 - Sliders
 - Accordion Layouts

DEMO

Standard

Workgroup or single applications deployed in an easy-to-manage configuration that is ideal for small to medium-sized businesses.

- CFML language features
- Single virtual machine
- Single cloud based instance*

Enterprise

Fast solutions that scale in the most demanding multiple application or J2EE application server environments

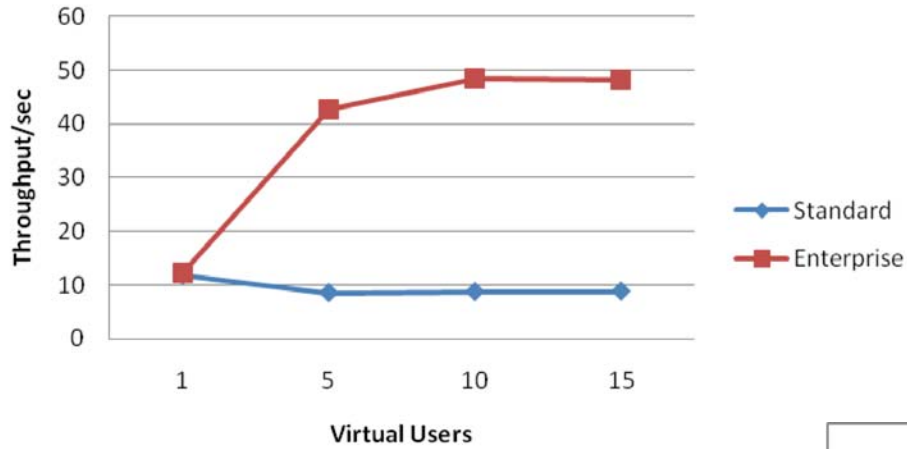
- J2EE Deployment
- Clustering
- Unlimited VMs on 2 CPUs
- 10 cloud based instances*
- Unlimited Enterprise Service Requests
- Additional OS and database support
- Additional Security
- Server monitoring

**EULA change only applicable for CF9*

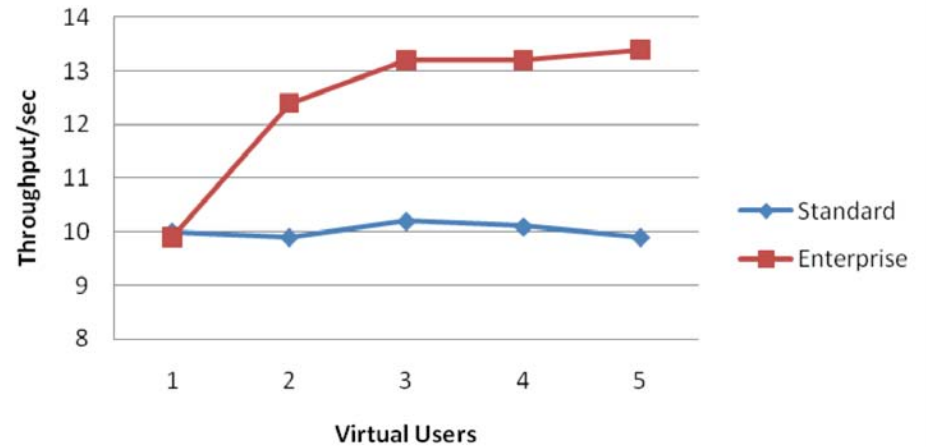
Enterprise vs Standard



Spreadsheet



Word to PDF





ColdFusion 9 Lizenzierung

- Wichtige Änderung der ColdFusion 9 EULA:
 - Nur noch Produktionslizenzen müssen lizenziert werden
 - Entwicklungs-, Test- und Staging-Server sind kostenlos, sofern mindest. eine ColdFusion 9 Produktionslizenz im Einsatz ist
 - Serien-Nummer dieser Produktionslizenz kann dann für die Entw.-, Test- und Staging Server verwendet werden



ColdFusion 9 Platinum Support

- Unlimited 24 x7 Support durch Adobe Enterprise Support
- Problemlösung ggf. auch durch Hotfixes vom Engineering
- Kostenfreie Upgrades- und Updates innerhalb des Wartungszeitraumes



ColdFusion 9 Lizenzierung

- Listenpreise wurden nach unten verändert ...
- Unser spezielles RoadShow Angebot:

Lizenz	Preis
CF 9 Enterprise	3.999,00 zzgl. MwSt.
CF 9 Standard	999,00 zzgl. MwSt.
Update CF 7/8 Standard auf CF 9 Standard	499,00 zzgl. MwSt.
Update CF 7/8 Enterprise auf CF 9 Enterprise	1.999,00 zzgl. MwSt.
CF 9 Standard Platinum Service 1 Jahr	223,80 zzgl. MwSt.
CF 9 Enterprise Platinum Service 1 Jahr	918,00 zzgl. MwSt.

What Now?



- Download ColdFusion 9
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- Download ColdFusion Builder (beta 2)
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