

HIDDEN GEMS IN CF10

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INTRODUCTION

- NOT discussing ALL that is new/updated in CF10!
 - Only the things that don't get much PR
- Adobe always lists a dozen or so key features
 - There's often a LOT more
- Some may have been documented, but you may miss them
 - No single document listing all new release changes. In many docs
- These slides are online at my site

ABOUT CHARLIE AREHART

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- 15 yrs CF experience (30 in Enterprise IT)
- Certified Adv CF Developer, Instructor
- Frequent speaker to conf's worldwide
- Organizer, Online ColdFusion Meetup (coldfusionmeetup.com), 2800+ members
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- ~100 presentations, 80+ articles, ~300 blog entries
- UGTV: recordings of 600+ presos by 300+ speakers
- CF411.com: 1800+ tools/resources, 150+ categories
- CF911.com :CF server troubleshooting resources
- Hosting courtesy of EdgeWeb Hosting
- Consulting: available for CF troubleshooting, tuning
 - Remote or on-site; on-demand, single instance is ok

HOW MANY NEW/CHANGED FEATURES?

- So how many new features do you think can be named?
 - I don't mean counting every new/changed tag/function, but "features"
 - Some of you may know I posted a blog entry listing all I'd found
- "Charlie Arehart's Ultimate List of 200+ New #ColdFusion 10 Features"
 - <http://tinyurl.com/ultimatecf10list>
- Again, though, many of those are among the things that Adobe has highlighted
 - And others have perhaps highlighted still more of them over time
- I want to fill in the gaps where they did not mention everything
 - But you'll want to explore more on your own. Beside this talk, see the docs...

DON'T MISS THE DOCS

- Online (HTML or PDF) at http://help.adobe.com/en_US/ColdFusion/10.0/Admin/index.html
 - ColdFusion 10 CFML Reference
 - Developing ColdFusion 10 Applications
 - Installing ColdFusion 10
 - Configuring and Administering ColdFusion 10
- Yes, you can get PDF of each. Use icon in top right corner
- There are "what's new" sections in first two above
 - And Chapter 1 in Dev Guide is "Chapter 1: What's new in ColdFusion 10"
 - But some new items in all are not described as "new"

ARCHITECTURAL GEMS: TOMCAT

- Of course, by now most know that CF now runs on Tomcat, not JRun
- Should generally not be noticeable to most developers
 - Though many are reporting much better performance!
- Tomcat does offer many features, on its own
 - I talk about that in “What’s New and Different about CF 10 on Tomcat”

ARCHITECTURAL GEMS: VERITY

- Verity text search engine removed (in favor of Solr, added in CF9)
- Some good news:
 - Also removed the document limits Verity imposed
- Some news that may seem not as good:
 - Search syntax not quite compatible. Yet also some new capabilities.
 - For more, see docs
 - and <http://kunalasaini.blogspot.in/2009/07/searching-in-solr.html>
 - What if you did not run the migration wizard in CF9?
 - That wizard is now no longer available in CF10
 - More good news: Adobe offering the tool separately
 - <http://blogs.coldfusion.com/post.cfm/verity-to-solr-migration>

ARCHITECTURAL GEMS: VERITY (CONT.)

- CF9.0/9.0.1 (w/Verity) no longer available even to download after May 30
 - Adobe came out w/ 9.0.2, which removes Verity
 - Also adds hotfixes, jvm update
 - Is a complete installer, not updater
 - (not meant to update or be installed alongside 9.0/ 9.0.1)
 - More at
 - <http://helpx.adobe.com/coldfusion/release-note/coldfusion-9-0-update-2.html>
 - <http://blogs.coldfusion.com/post.cfm/availability-of-coldfusion-9>

ARCHITECTURAL GEMS: CLOUD DEPLOYMENT

- CF instances to be available on Amazon Cloud (AWS)
 - AMIs to be released on AWS marketplace soon
 - \$60-80 per month for large instance, 720 hours of free usage
- Related to this, many have questions about CF10 Licensing
 - See blog post addressing the confusion
 - <http://blogs.coldfusion.com/post.cfm/coldfusion-10-eula>

ADMIN HIDDEN GEMS/ENHANCEMENTS

- Lots of “little” things that can make a big difference
- Ever forget your Admin password? Had to know how to edit files to recover
 - New password reset scripts in \ColdFusion10\cfusion\bin
- Ever noticed what’s in Admin used for choosing files/folders?
 - Replaced with jQuery control
- Ever wondered why scheduled tasks was in Debugging & Logging section?
 - Moved to “server settings” section
- Ever want to enable/disable RDS? Had to know how to edit xml file
 - Can now change within CFAdmin (Security>RDS page)

ADMIN ENHANCEMENTS (CONT.)

- Nearly all Admin changes are now logged (audit.log) in CF logs directory
 - Tracks user, date, time, action
 - Only some changes are logged for most Admin pages
 - For some pages, all changes are logged
 - Server Settings, Request Tuning, Caching, Memory Variables, Java&JVM
 - Adobe plans to expand on this to log more things

ADMIN ENHANCEMENTS (CONT.)

- Several changes related to troubleshooting...
- Old "out" logs, previously in [cf]\runtime\logs or [jrun]\logs
 - Now in [cf10]\cfusion\logs, with other traditional CF logs
- Web server connector logs: [cf10]\config\wsconfig\wsconfig.log
- Request Thread IDs
 - Previously, jrpp-## for external web server, web-## for internal web server
 - CF10: ajp-bio-[port]-exec-## for ext web svr, catalina-exec-## for int web svr
- New metrics logging (similar to JRun metrics), can be enabled in CF Admin...

ADMIN ENHANCEMENTS (CONT.)

- "Enable metrics logging" on "Debugging output settings" page
 - Writes to [cf10]\[instance]\logs\metrics.log
 - or console if started from cmd line
 - Writes a line every minute
 - Sample line:
 - "Information", "scheduler-2", "08/06/12", "16:08:50", "Max threads: 150
Current thread count: 4 Current thread busy: 1 Max processing time:
279876 Request count: 748 Error count: 3 Bytes received: 281578 Bytes
sent: 7375153 Free memory: 120128728 Total memory: 442957824
Active Sessions: 9"

ADMIN ENHANCEMENTS (CONT.)

- New “access logs” enabled by default (in addition to your web server logs)
 - in [cf10]\cfusion\runtime\logs, in form localhost_access_log.2012-03-14.txt
 - Beware: file extension of .txt, could miss if searching for all “cf logs”
 - Format: [ip] - [date/time] "GET [path/file] HTTP/1.1" [statuscode] [bytessent]
 - Configuration (of name, content) covered in my Tomcat session
- Solr access logs also enabled by default
 - in [cf10]\cfusion\jetty\logs\, in form 2012_03_14.request.log
 - Configuration controlled similarly in [cf10]\cfusion\jetty\etc\jetty.xml
- Also, note folder change from [cf9]\solr to [cf10]\cfusion\jetty
 - “ColdFusion 9 Solr Service” renamed “ColdFusion 10 Jetty Service”

ADMIN ENHANCEMENTS (CONT.)

- Can now disable **creation of unnamed application** scopes
 - Server Settings>Settings page
 - Requires a restart of CF to take effect
- Can now specify web service proxy details in Admin (versus on CFINVOKE)
 - Data & Services > Web Services page
- Several Admin cache page changes (Server Settings>Caching page)
 - Can clear template cache for given folder
 - Also new AdminAPI method `clearTemplateFolderFromCache` (runtime.cfc)
 - CF8 had enhanced `cleartrustedcache` API call to clear by filename/path (only)
 - Can clear query cache (more in a moment)
 - Also new Admin API method `clearquerycache` (runtime.cfc)

ADMIN ENHANCEMENTS (CONT.)

- Other AdminAPI enhancements
 - Administrator.cfc: getUpdates, getUpdateCount, getBuildNumber,
 - Extensions.cfc: various methods related to REST
 - Scheduler.cfc: new, various methods related to scheduler
 - ServerMonitoring.cfc: new getAllApplicationCacheMetadata, getAllServerCacheMetadata methods

MULTISERVER ENHANCEMENTS

- No longer a separate Multiserver Install option. Instead:
 - If CF10 "Server" deployed w/ Enterprise license or as Trial/Developer edition
 - Instance Manager offered to create/manage instances/clusters as before
- By default, with "Server" deployment (whether Standard or Enterprise/Trial/Dev):
 - Main instance name is cfusion, files in [cf10]\cfusion
 - New instances, no longer buried deep in instance dir, but [cf10]\[instance]
- Option to create EAR/WAR still offered during Enterprise/Trial/Dev installation
 - To deploy on any of many supported JEE servers and servlet engines
- One feature lost: can no longer create an instance and deploy ear/war into it
 - See "What's the deal with Tomcat in ColdFusion 10?", Rupesh Kumar
 - <http://blogs.coldfusion.com/post.cfm/what-s-the-deal-with-tomcat-in-coldfusion-10>

MULTISERVER ENHANCEMENTS (CONT.)

- Other Multiserver enhancements
 - Each instance has its own JVM.config (yea!), used on instance startup
 - Also “Java & JVM page” now available within instances
 - New AdminAPI method to get instancename (versus old JRun API)
 - getInstanceName in runtime.cfc
 - http://www.carehart.org/blog/client/index.cfm/2012/6/30/get_instancename_in_cf10
 - Supposed to be able to finally run CFSTAT on instances (was not supported in CF 6-9)
 - CF Admin “Debug Output Settings” page lets you set port for it to use
 - I am having difficulty getting it to work. Have reported to Adobe

ADMIN/SECURITY ENHANCEMENTS

- New “secure profile” feature
 - Offered during CF10 installation. Controls nearly 20 admin settings
- Note also that even without secure profile, some admin defaults have changed!
 - Though if you import CF admin settings from previous release, those are set
 - Example: default clientstorage is now cookie, not registry (if not imported)
 - Even so, some settings will be overwritten by Adobe to new defaults, even if settings are imported
- For more info on all this (the “secure profile”):
 - See p112 of “Config and Admin” manual in CF docs

ADMIN/SECURITY ENHANCEMENTS (CONT.)

- Can now restrict Admin Access by IP Address (also asked during installer)
 - Can also restrict exposable services (cfpdf, cfimage, cfdocument, cfchart, etc.)
 - Security>Allowed IP Addresses page
- CF10 includes changes that came with the CF8/9 security hotfixes
 - "Maximum number of POST request parameters" defaults to 100 ("Settings" page)
 - Option to reset JVM arg -Dcoldfusion.session.protectfixation=false
 - Needed for some apps, where you find sessions being lost immediately
 - JVM arg discussed in 2011 hotfix for 8/9
 - <http://helpx.adobe.com/coldfusion/kb/security-hotfix-coldfusion-8-8.html>
- Change in adding Sandbox permissions for Users with RDS access
 - <http://www.shilpikhariwal.com/2012/03/new-way-to-add-sandbox-permissions-for.html>

SECURITY ENHANCEMENTS

- Many security enhancements regarding XSS, CSRF, Session Fixation, etc.
 - <http://blogs.coldfusion.com/post.cfm/catch-e-seminar-on-coldfusion-10-security-enhancements>
 - Also various changes related to session handling security improvements
 - New `sessioninvalidate()` and `sessionrotate()` functions
 - Also implicit session rotation behavior
 - See also "Session Cookie Settings" on "Memory Variables" page
- Verification of mime type on CFFILE uploads (optional STRICT attribute)
 - Reads first several bytes of file to determine its mime type
 - Also new `fileGetMimeType` to check type for given file or object
- CFLOGIN now uses ehcache for an authentication cache
 - See p378 of "Developing CF Apps" manual

QUERY CACHING ENHANCEMENTS

- Query caching now stored in ehcache
 - Option on caching page to revert to previous internal jvm heap storage
 - Or in application.cfc using `this.cache.useinternalquerycache=true`
- Can set max number of cached queries in Application.cfc: `this.cache.querysize`
- Can specify user-defined query cache region using CFQUERY CACHEREGION
 - If none, default cache region is used as set at application or server level
 - Default cache region set at system level is "query"
- Can also set keys for cache entries for a given CFQUERY using CACHEID
- Can then remove entries with new `removeCachedQuery` function
 - Referring either to the region or the id...

QUERY CACHING (CONT.)

- Example of one way of managing cached query:

```
<cfquery name="q" datasource="cfartgallery"  
cachedwithin="#CreateTimeSpan(0, 6, 0, 0)#" cacheid="Q1">  
SELECT * from art  
where artid = <cfqueryPARAM value = "3" CFSQLType = 'CF_SQL_INTEGER'>  
</cfquery>
```

<!-- done in another page, typically. The 3rd arg refers to the "region" --->

```
<cfset cacheremove("Q1",true,"query")>
```

OTHER CACHING ENHANCEMENTS

- Other new cache functions (for all ehCache caching, not just query caching)
 - `cacheIdExists`, `cacheRegionNew`, `cacheRegionRemove`, `cacheRegionExists`, `cacheRemoveAll`
- New `Region` argument for most caching functions (to define caching regions)
- `CFCache` now offers `THROWONERROR` attribute
- `cacheRemove` function adds an `EXACT` argument
- ehCache caching can also be app-specific (not new in 10)
 - See p265 of "Developing CF Apps"

VFS ENHANCEMENTS

- In-memory file system (VFS) can now be app-specific
 - CF9 introduced VFS, but was system-wide (shared by all)
 - In `application.cfc`:
 - `this.inmemoryfilesystem.enabled` and `this.inmemoryfilesystem.size`
 - See p277-283 of "Developing CF Apps" (esp p 283 on changes in CF10)
- VFS can now let you access files over network via FTP or HTTP; or as ZIP
 - See p 283 of "Developing CF Apps" manual
- New Admin API method: `getGlobalVFSMemoryStats`

OTHER QUERY ENHANCEMENTS

- Support for GROUP attribute in cfloop

```
<cfquery name="arts" datasource="cfartgallery">
    select * from art order by price desc
</cfquery>
```

```
<cfoutput query="arts" group="price">
    #dollarformat(price)#
    <ul>
<cfoutput><li>#artname#<br></cfoutput>
    </ul>
</cfoutput>
```

```
<cfoutput>
<cfloop query="arts" group="price">
    #dollarformat(price)#
    <ul>
<cfloop><li>#artname#<br></cfloop>
    </ul>
</cloop>
</cfoutput>
```

OTHER QUERY ENHANCEMENTS

- Enhancements to queryAddRow and queryNew functions
 - New arguments let you initialize the query data to simulate
 - `myQuery = queryNew("id,name","Integer,Varchar", [[1,"Bob"], [2,"Jane"], [3,"Bill"]]);`
- Dynamic references supported in query looping (vs string naming var w/ query result)
 - As in, `<cfloop query = "#getEmployees()#">`
- New fetchClientInfo attribute on all query-related tags (cfquery, cfinsert, cfstoredproc)
 - And associated settings in CF Admin Datasource "advanced settings"
 - See p448 of "Developing CF10 Apps" manual
- CFStoredProc Timeout
 - Number of seconds each action permitted to execute, else error
 - Cumulative time of all actions may exceed this value

HALF-TIME!

- We're half-way through the gems
 - Impressed so far? Not impressed yet?
- Let's keep going. What's left?
 - Language Enhancements
 - CFSCRIPT, CFC, and ORM Enhancements
 - Image, Solr, and Java Enhancements
 - Updated Embedded Libraries
 - Dev Edition Enhancements
 - Recent Updaters 1 & 2

LANGUAGE ENHANCEMENTS

- CFIMAGE action="resize" now includes INTERPOLATION attribute
 - Previously offered only in imageresize()
 - Both default to "highestquality". Try changing to "highestperformance" or any of several levels in between
- CFMap/CFMapItem offer new optional ShowUser attribute
 - For HTML5 browsers, shows user's current location on map
 - User is prompted to authorize this
 - For other browsers, falls back to CenterAddress attribute value
- New CFInclude RunOnce attribute
 - <http://www.raymondcamden.com/index.cfm/2011/10/17/ColdFusion-Zeus-POTW-CFINCLUDE-Improvement>

LANGUAGE ENHANCEMENTS (CONT.)

- Implicit struct now supports use of : (colon) separator
 - Old: `<cfset emp={firstName="Tom", lastName="Nash"}>`
 - New: `<cfset emp={firstName:"Tom", lastName:"Nash"}>`
- CFFILE support of output content in tag body

```
<cffile action="write" file="#filename#">
some tag body
</cffile>
```

 - As alternative to older output attribute
- New Application.cfc event method: onAbort (to intercept CFABORT)
- CFParam has new attribute for maxLength validation
- CFPOP offers new Secure attribute for SSL

LANGUAGE ENHANCEMENTS (CONT.)

- Enhancements to Amazon S3 integration regarding file uploads
 - See "Developing CF Apps" p277
- New tags for Exchange integration: CFExchangeConversation, CFExchangeFolder
 - Exchange 2010 support, including EWS (web svcs)
 - Some new attributes for CFExchangeCalendar
 - New ServerVersion attribute for all Exchange-related CF tags

LANGUAGE ENHANCEMENTS (CONT.)

- Several new functions...
- `dateTimeFormat()` and `IsDateTimeFormat()`
 - Returns date AND time, formatted, in a single function
- `getApplicationMetaData()`
 - Returns all settings specified in application `cfc/cfm`
 - Or defaults for them, as set in CF admin
 - Listed in docs by mistake as `applicationGetMetaData()`
- `sessionGetMetaData()` returns start time of current session
- `callStackGet/callStackDump` functions: returns location of call in stack
 - Useful when a request has several levels of function/file recursion
 - Identifies calling `templatename`, `line #`, `functionname` at that point in code
 - `CallStackGet` returns array of structs; `CallStackDump` returns string

LANGUAGE ENHANCEMENTS (CONT.)

- System Functions
 - GetCpuUsage(time)
 - CPU usage in percentage over interval (1 second default)
 - GetSystemTotalMemory()
 - Available total memory in the system (OS)
 - GetSystemFreeMemory()
 - Available free memory in the system (OS)
 - GetTotalSpace("system_root")
 - Get total disk space for given path (hard drive or CF Virtual FileSystem)
 - GetFreeSpace("system_root")
 - Get free disk space for given path (hard drive or VFS)

LANGUAGE ENHANCEMENTS (CONT.)

- Other new functions
 - DirectoryCopy, and new Action="copy" for CFDirectory
 - ArraySlice: returns only part of an array (offset and count)
 - reEscape, listRemoveDuplicates
- Several new functions added in context of Closures, useful on their own
 - ArrayEach, ArrayFilter, ArrayFindAll, ArrayFindAllNoCase
 - ListFilter
 - StructEach, StructFilter
- New functions related to security
 - Canonicalize, encodefor*, decodefor*, csrf*, decodeFromURL, hmac

LANGUAGE ENHANCEMENTS (CONT.)

- Modified functions:
 - Expandpath now can resolve for files found in custom tag paths
 - arrayAppend has new merge feature/argument
 - replaceList takes delimiters (for search, replace, or both)
 - LSParseDateTime has new format argument
 - arraySort, listSort, and structSort
 - Modified to support for all Java supported locale-specific characters

CFSCRIPT ENHANCEMENTS

- Several CFScript-related enhancements...
- CFSETTING can be done in script, such as:
 - setting requesttimeout="0" showdebugoutput="yes";
- New invoke function, to invoke CFCs or web services from script
- Cookies can be set in script (including all needed properties)
- For-In script support for complex objects: query results, java arrays
 - See p119 of "Developing CF Applications" manual in CF Docs
 - Example...

CFSCRIPT ENHANCEMENTS (CONT.)

```
<cfquery name="arts" datasource="cfartgallery">
    select * from art
</cfquery>
<cfscript>
    for(row in arts) {
        writeoutput(arts.currentrow & " :" & row.artname & ' '
            & dollarformat(row["price"]) & "<br>");}
</cfscript>
```

CFC ENHANCEMENTS

- Implicit constructors for CFCs (optional)
 - Can initialize CFC properties on instantiation, passing key-value pairs/struct
 - Properties set either using explicit or implicit setters (introduced in CF9)
 - See p212 of "Developing CF Apps"
- Implicit notation for properties (get/set, without specifying getters/setters)
 - See p25 of "Developing CF Apps"
- CFC Method chaining
 - `new employee("").setFirstName("Tom").setAge(30)`
 - See p214 of "Developing CF Apps"

ORM ENHANCEMENTS

- New functions related to ORM Search:
 - ORMSearch, ORMSearchOffline, ORMIndex, ORMIndexPurge
- Lazy loading for Flex/Air clients talking to CF ORM
 - Related entities of main entity returned only if/when needed by client
 - Configurable per server, per CFC
 - See p 638 of "Developing CF Apps"
- HQL in debug output
 - Could also monitor (even without debug output, such as in production) using tools like CF Server monitor, FusionReactor, SeeFusion
 - See my blog entry on "Spying on ORM Transactions"
 - http://www.carehart.org/blog/client/index.cfm/2009/11/14/spy_on_orm

IMAGE ENHANCEMENTS

- Mentioned change of cfimage action = "resize" for interpolation
- Others:
 - Change of behavior if attribute NAME used for cfimage action = "captcha" (with respect to DESTINATION)
 - imageDrawText now returns struct with width, height of text drawn
 - Fallback to system font for cfimage action = "captcha"
 - New function imageCreateCaptcha
 - New function ImageMakeColorTransparent creates image, sets transparent color
 - New function ImageMakeTranslucent creates new translucent image with given percentage of translucence
 - New parameters rule and alpha for the function imageOverlay
- See also <http://blogs.coldfusion.com/post.cfm/image-enhancements-in-coldfusion-10>

SOLR ENHANCEMENTS

- Improved indexing of database-based data
 - New “data import handler” feature vs traditional cfquery/cfindex operation
 - Supports full indexing (first load) or partial indexing (if db is updated)
- Improved means of adding custom fields to index entry
 - Previously had only custom1, custom2, etc. Now can use real field names
- Support for additional languages
 - More: <http://wiki.apache.org/solr/LanguageAnalysis>
- See p501 of “Developing CF Apps”

JAVA INTEGRATION ENHANCEMENTS

- Load Java libraries from custom path (versus drop in CF lib directory)
 - Application.cfc
 - `this.javasettings.loadpath = ["C:\mylibs\", "C:\myapp\mylib.jar"];`
 - Dynamic loading without server restart
 - "watch" arguments can be added to detect and pickup class changes
- Access to CFC files from within Java (improved)
 - Call CFCs from JAva
 - `CFCProxy myCFC = new CFCProxy(cfcPath, true);`
 - Pass ColdFusion components to Java objects
 - `createDynamicProxy` (CFML function)
 - See p 1187 of "Developing CF Apps" on these java integration enhancements

UPDATED EMBEDDED LIBRARIES

- Web Services now Axis 2 (adds REST, WDSL 2.0 and much more)
 - Create and publish REST-based services (using JSON, XML)
 - SOAP 1.2 can be specified at component, application, or server level
 - Backwards-compatibility is always a goal for CF
 - For more, see docs and adobe CF blog entries:
 - "ColdFusion 10 WebServices - Axis2 vs Axis1"
 - <http://blogs.coldfusion.com/post.cfm/coldfusion-10-webservices-axis2-vs-axis1>
 - "Axis-2 and Axis-1 compatibility issues"
 - <http://blogs.coldfusion.com/post.cfm/axis-2-and-axis-1-compatibility-issues>

UPDATED EMBEDDED LIBRARIES (CONT)

- xmlSearch/xmlTransform now support xpath 2.0 syntax
- Built-in JVM is 1.6.0_29 (Tomcat is 7.0.23)
 - Both viewable on CF Admin System Information screen ("i" icon in top right)
 - Both said to be updatable by Adobe using the new Auto Hotfix mechanism
 - Planned quarterly updates of Tomcat, and sooner if needed for security

DEVELOPER EDITION RESTRICTIONS EASED

- Before, a few IP addresses at most could access free Dev edition
 - Requests from any further IP addresses were blocked
 - Needed to restart CF to reset that
- In CF10, now any 2 simult ip addresses can access Dev edition at once
 - Could allow you to show your dev work to more clients, colleagues, testers
 - <http://blogs.coldfusion.com/post.cfm/coldfusion-10-developer-edition-can-now-be-accessed-by-any-ip-address>

ONE LAST POTENTIALLY HUGE HIDDEN GEM

- I've not seen anyone else yet mention this
- Session Persistence across restarts
 - But it's a feature of Tomcat, and requires some tweaking to use best
 - Has some pros and cons to consider
 - See my "What's New and Different About ColdFusion 10 on Tomcat" talk to learn more!

WHAT NEW IS IN ENTERPRISE-ONLY? OR LIMITED IN STANDARD?

- Not referring to existing Enterprise/Standard distinctions, just new features

New, but in Enterprise-Only	New, limited in Standard
Some (though not all) scheduling improvements (listeners, chaining, app-specific tasks, clustering, and exception handling)	Web sockets (Good news: throttle is 100 simult requests, not 5 as in docs)
HTML 5 charting	
ORM search	
Data import handler for Solr	

- Besides docs, Adobe identifies here (HTML and PDF)
 - <http://www.adobe.com/products/coldfusion-enterprise/buying-guide.html>
- I've tried to highlight the differences here:
 - http://www.carehart.org/blog/client/index.cfm/2012/5/15/cf10_enterprise_or_standard_restrictions

GOTCHAS

- Some people are finding case sensitivity issues with respect to CF file names, even on Windows
- Only one person can login to a given CF Admin account at a time
 - If you find you keep getting logged out of the admin, likely just someone else logging in to same account
 - http://www.carehart.org/blog/client/index.cfm/2012/6/13/cf10_admin_allows_one_logon_at_a_time
- A few other bugs have since been fixed with free Update 1...

RECENT FREE CF10 UPDATES

- Adobe has released recent free updates for CF10
 - To be installed using the new CF10 autohotfix mechanism
- Update 1 fixes two dozen bugs in CF10
 - Especially: couldn't run recurring tasks in Standard, only Enterprise
 - <http://helpx.adobe.com/coldfusion/kb/coldfusion10-update-01.html>
- Update 2 is a security hotfix (potential DOS vulnerability)
 - <http://helpx.adobe.com/coldfusion/kb/coldfusion-security-hotfix-apsb12-21.html>
- Brand new "mandatory" hotfix must be applied (manually) before any CF10 autohotfixes
 - If Update 1 or 2 applied, needed before any more can be applied
 - If neither yet applied, needed before they or any more can be applied
 - <http://blogs.coldfusion.com/post.cfm/coldfusion-10-mandatory-update>
 - <http://helpx.adobe.com/coldfusion/kb/coldfusion-10-mandatory-update.html>

MORE ON CF10 AUTOHOTFIX FEATURE

- For more on autohotfix mechanism, with tips and traps, see this blog entry from Adobe engineer Krishna P
 - Written after first update, and tweaked again after second update
 - Nearly 50 questions and answers!
 - <http://www.krishnap.com/2012/09/coldfusion-10-hotfix-update-installer.html>

SOME RECENT CF TEAM BLOG ENTRIES

- At blogs.coldfusion.com:
 - "ColdFusion 10 support on Windows 8 and OS X Mountain Lion" (still not yet)
 - "ColdFusion 10 developer edition can now be accessed by any IP address"
 - "Next versions of ColdFusion and ColdFusion Builder"
 - "Debugging ColdFusion WebSockets"
 - "ColdFusion 10 WebServices - Axis2 vs Axis1"
 - "ColdFusion-10 64bit and MSAccess"
 - "Axis-2 and Axis-1 compatibility issues"
 - "CF html to pdf service - consume from node.js using rest api"
 - "my first REST resource"
 - "ColdFusion Builder 2 Silent Installation"
 - "Registering a REST application in ColdFusion10"
 - "Getting Started with REST in ColdFusion 10"
 - "Rancho: The Code Coverage tool for ColdFusion"

MANY MORE "NEW" THINGS

- Again, this was not a list of "all that's new" but seeming hidden gems
 - See docs for more on so many things
 - Scheduled task enhancements
 - Web sockets
 - HTML5 charting
 - Autohotfix mechanism
 - Closures
 - And so much more
- Again, see the docs for more on those, or as people blog/speak about them
- Even more hidden gems, just no time here

WHERE TO LEARN MORE

- Again, the Adobe CF Docs
 - So much more than just the CFML Reference
- Some Key Adobe CF Blogs:
 - <http://blogs.coldfusion.com>
 - Sometimes links to blogs of the CF engineers
 - <http://www.raymondcamden.com>
- See also Akbar Sait's ever-growing list of CF10 Tutorials
 - <http://www.akbarsait.com/cf10tutorials.cfm>

CONCLUSION

- Hope you agree that there's a lot more than just a dozen or so new features
- How many do you think we covered?
 - Over 100!
- How many were valuable to you?
 - We're done, so share your opinion by your applause, please! :-)
- Questions, if we have time?
 - And if I can help you with CF Server Troubleshooting, contact me below!