### HIDDEN GEMS IN CF2016



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- ▶ Updated Oct 20, 2016

#### HIDDEN GEMS IN CF2016

- Major features of CF2016 (quick overview)
- ► Hidden gems in many areas
  - Installation, configuration, administration, web server config
  - ▶ New/changed features, new language constructs, new member functions
  - ▶ New/changed CFML functions, tags
- ► As well as other topics:
  - ► Updates to underlying libraries' version numbers
  - ► Deprecated/obsoleted features
  - ▶ What's new in Standard vs Enterprise
  - Pricing, licensing, end of life support
  - ▶ And lots more
- ▶ Slides will be offered by Adobe, and at carehart.org/presentations

#### TOPICS

- ▶ I've been a speaker at nearly every CF conference, and all 4 CF Summits
- Focus on CF server troubleshooting, as an independent consultant
  - Assist organizations of all sizes, experience levels
  - ▶ Work remotely 99% of the time, safe, secure, easy (shared desktop)
  - ► Focus is not just solving problems but educating you
  - ► Satisfaction guaranteed. More on rates, approach, etc at carehart.org/consulting
- ▶ Love to share info, with my clients and the community
  - Active blogger
  - Contributor to/creator of many CF community resources
    - ▶ Online CFMeetup, CF411.com, UGTV, cf911.com, and more

#### ABOUT ME

- ▶ How many have started using CF2016 in prod? In dev?
  - ▶ Have at least seen resources about it?
  - Not surprised if few: people often wait
- Anyone "waiting for first point release"?
  - ► Have been 3 updates already
- ► How many likely won't use it until next release comes out (CF2018, or whatever)?
  - ▶ I do these talks, not just for those making the move <u>now</u>, soon, or have already
  - ▶ But also those who may see it in future ©
- ► Anyone know when I started doing hidden gems in CF?
  - ▶ 4.0.1 in 1999
- ▶ So, let's look first at the major new features (only brief overview)

#### SOME INTRO QUESTIONS FOR YOU

- API Manager
- Security Code Analyzer
- ▶ PDF Improvements (redaction, sanitization, more)
- CFML language improvements (tags, functions, and more)
- Security improvements (especially more NTLM support)
- ► Performance improvements
- ▶ More about some of these later
- ▶ Now, on to the more "hidden" gems!

#### MAJOR FEATURES OF CF2016

- Removal of Akamai Download Manager!
  - Previously, when downloading CF installer from Adobe, we were forced to use this
  - Now just generally a better experience (I suppose some may miss it)
  - carehart.org/blog/client/index.cfm/2016/2/19/cf2016\_download\_no\_longer\_requires Akamai DL mgr
- Unfortunately, CF install has gotten huge because of API Manager
  - ► Especially tragic if you'll be using CF Standard: by license can't use API Mgr
  - ▶ This is "to be fixed" (bugbase.adobe.com/index.cfm?event=bug&id=4155910)
- ▶ During installation, you're asked whether/how to install API Manager
  - ▶ And whether to implement it within JVM or as own service

#### INSTALLATION GEMS

- ► CFscripts folder now moved to its own directory, not in CFIDE!
  - ▶ Great move for security, administration
  - New folder called cf\_scripts, found in the cfusion wwwroot
  - ▶ Pointed to as a virtual directory in IIS, Apache, etc.
  - ▶ Related to this...
- ▶ CF Admin now available only via internal web server by default
  - ▶ This is another very good thing, for security
  - You REALLY should not try to override this, but I discuss options in my blog post below
- ▶ Let's move on to gems WITHIN the CF Admin...

#### CONFIGURATION GEMS

- CF Admin option to store CF sessions in redis (cache) rather than heap memory
  - helpx.adobe.com/content/help/en/coldfusion/2016/external-sessionstorage.html
  - ▶ Gotcha: works only with CF sessions, not "J2EE sessions"
    - ▶ Those using "j2ee sessions" could modify Tomcat (underlying CF) on their own
    - ▶ blog.svajlenka.com/post/125784752315/redis-and-coldfusion-because-why-not
- ▶ New admin setting to disable "REST discovery" by API Manager
  - See Settings page, last setting
- ▶ For more on these admin and config changes, see
  - carehart.org/blog/client/index.cfm/2016/2/23/cf2016\_CF\_Admin\_changes

#### ADMINISTRATION GEMS

- Many new improvements related to the web server config tool
- Fixed: no longer any need to manually reconfigure connectors after update!
  - ▶ CF Update mechanism handles this for us automatically now
  - WSConfig offers new "upgrade" option, if ever needed
- Fixed: for those using multiple instances (in CF Enterprise/Trial/Dev)
  - Wsconfig UI finally offers option to pick instance name to connect to (like <= CF9)!</p>
  - ▶ In CF10/11, we had to start wsconfig in instance's runtime\bin to connect site to it
- Fixed: if you open wsconfig UI while already open, you no longer get blanks
  - ▶ You get warning that you may already have it open

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## WEB SERVER CONFIG TOOL (WSCONFIG) GEMS

- WSConfig UI now tracks number of sites in web server configured or not
- ▶ Now offers both an "all" option (for all sites) and an "all individually"
  - Which instead creates a new connector for each site (using the selected settings)
  - Appears only if you do have more than 1 web site in web server
- Wsconfig UI now offers option to all 3 connector tuning args
  - ► Found under "advanced settings"
  - Previously only offered connection\_pool\_timeout, max\_reuse\_connection
    - ▶ Now offers allows configuration of connection\_pool\_size also
  - ▶ Sadly, installer's web config step does not offer these 3 configurable options
    - ▶ Due to be fixed in a new installer: bugbase.adobe.com/index.cfm?event=bug&id=4155913

▶ ...

# WEB SERVER CONFIG TOOL (WSCONFIG) GEMS (CONT.)

- Connector now defaults to timeout of 60 (seconds); was 0 (infinite) before
- ▶ For IIS: better connector tuning settings for 2-site setup by default
  - ► Connection\_pool\_size (500), max\_reuse\_connections (250):
  - Sadly, for now, this is not so for Apache configs, but is due to be fixed in upcoming update
- CF2016 also now includes maxthreads="500" and connectionTimeout="60000" in server.xml, by default
- "Advanced Settings" now also offers "skip iis custom errors" option
  - ▶ Disabled by default. Useful for some scenarios
  - ▶ Needed to add manually to isapi\_redirect.properties file in CF10/11
- Nice to see all these improvements to the wsconfig, which has been a source of heartburn in CF10 and 11. Let's move on to other gems...

# WEB SERVER CONFIG TOOL (WSCONFIG) GEMS (CONT.)

- ▶ New command-line interface (CLI)
  - Allows cmd line CFML execution by pointing to a cfm file, via cf.bat
    - ► As in, cf.bat some\_file.cfm
    - Not a real interactive shell (with tab completion, etc.)
    - No repl, no package manager, no extensibility as with CommandBox project
  - ▶ Still, is useful for cron jobs/windows scheduler, etc. to run cfml pages
  - Quite a few options and capabilities
- ▶ For more, see
  - ▶ helpx.adobe.com/coldfusion/2016/command-line-interface.html

#### NEW FEATURE GEMS

- Many enhancements to PDF support
  - ▶ Mentioned before sanitization, redaction, but also:
    - Export/import of comments, metadata
    - ► Archiving, including newer PDF/A-2b and -3b standards
    - Support for attachments, stamps
  - ▶ For more, see substantial article with examples, and code download
    - ▶ adobe.com/devnet/coldfusion/articles/pdf-enhancements.html
  - ▶ Not mentioned on that page:
    - ▶ CFPDF adds new encrypt attribute values: AES\_256R5 and AES\_256R6

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#### CHANGED FEATURE GEMS

- ▶ New argument for structnew, ordered, maintains insertion order
  - Looping over such a struct will also return in insertion order
  - ▶ All other forms of creating new structs keep same order as before
  - Also support for creating empty ordered struct
  - helpx.adobe.com/coldfusion/2016/languageenhancements.html#CollectionsupportOrdered

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CHANGED FEATURE GEMS (CONT.)

- ► New application-level controls
  - searchImplicitScopes, passArrayByReference
  - ► Each can change long-standing behavior for these operations, vastly improving performance (5x and 25x, respectively)
  - ▶ Set as either cfapplication attributes or via this scope in application.cfc
  - ► See:
    - adobe.com/devnet/coldfusion/articles/language-enhancements-cf-2016.html
    - ▶ helpx.adobe.com/coldfusion/2016/language-enhancements.html#Scopesearch
    - ▶ helpx.adobe.com/coldfusion/2016/language-enhancements.html#Arraysbr

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### CHANGED FEATURE GEMS (CONT.)

- ► CF Admin "enable whitespace management" option now suppresses whitespace at compile time as well as runtime
- Swagger doc generation (for restful api's and API Manager)
  - ▶ helpx.adobe.com/coldfusion/2016/swagger-document-generation.html
- ▶ Now on to language enhancements...

#### CHANGED FEATURE GEMS (CONT.)

- ► Safe navigation operator (?.)
  - Used when accessing members of a struct or values of an object
  - ▶ Used instead of ".", to prevent exception if not defined, null, etc.
  - ► Simplified code, versus nested isdefined tests
  - ► Examples:
    - <cfoutput>#employee?.firstname#</cfoutput>
      - ▶ Will output empty string if firstname does not exist/null
    - Writeoutput(employee?.name?.firstname?.trim());
      - ▶ Will output empty string if all 3 are undefined/null

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#### NEW LANGUAGE CONSTRUCTS

- ► For more info and examples (including setting variables with safe navigation):
  - ► helpx.adobe.com/coldfusion/2016/languageenhancements.html#Safenavigation
  - ► helpx.adobe.com/coldfusion/developing-applications/the-cfml-programming-language/using-coldfusion-variables/using-periods-in-variable-references.html#Usingthesafenavigationoperator
  - ▶ blog.adamcameron.me/2015/10/coldfusion-12-it-goes-to-show-you.html
  - adobe.com/devnet/coldfusion/articles/language-enhancements-cf-2016.html

# NEW LANGUAGE CONSTRUCTS (CONT.)

- ▶ Many new member functions (expanding on the new feature in CF11)
- ▶ New array member functions: arrayDeleteNoCase
- ▶ New string member functions:
  - encrypt, paragraphFormat, replaceListNoCase
  - ▶ decodeFromURL, decodeForHTML, encodeForHTML, encodeForHTMLAttribute
  - encodeForXML, encodeForXMLAttribute, encodeForXPath
  - encodeForCSS, encodeForJavaScript, encodeForURL
  - ▶ getSafeHTML, isSafeHTML
  - urlDecode, urlEncodedFormat

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#### NEW MEMBER FUNCTIONS

- ▶ New datetime member functions:
  - LSDateFormat
  - setSecond, setMinute, setHour
  - setDay, setMonth, setYear
- ▶ New query member functions:
  - queryEach, queryKeyExists, queryFilter, queryMap, queryReduce, querySort, valueArray
- ▶ New display and formatting member functions:
  - booleanFormat, yesNoFormat
- ▶ More info on member functions:
  - ► helpx.adobe.com/coldfusion/developing-applications/building-blocks-of-coldfusion-applications/using-the-member-functions.html

### NEW MEMBER FUNCTIONS (CONT.)

#### ▶ New CFML functions

- arrayContainsNoCase, arrayDeleteNoCase, valueArray
- querySort, queryEach, queryFilter, queryKeyExists, queryMap, queryReduce
- booleanFormat, floor, isPDFArchive, replaceListNoCase, spreadsheetGetColumnCount
- ► Changed functions:
  - arraynew, cacheRemove, dateFormat, timeFormat, createDateTime
  - replace, replaceList, spreadsheetAddRows, writeoutput
- ▶ More info, links to details on new/changed CFML functions:
  - ▶ helpx.adobe.com/coldfusion/2016/other-enhancements.html
  - ► helpx.adobe.com/coldfusion/2016/languageenhancements.html#ArrayFindNoCase

#### NEW/CHANGED CFML FUNCTIONS

- ► Changed CFML tags...
- ► CFLOOP
  - ▶ New item attribute, for use with loops over list, array, or file
  - ► Named item var will hold element looped over
  - ▶ Named index var (optional) will hold index value, if any
- ▶ Docs on these and the rest will follow

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#### CHANGED CFML TAGS

#### ► CFMAILPARAM

- ▶ New, optional **filename** attribute, to give different name for file attached to email when using **cfmailparam** file attribute
- ▶ **File** points to name as on server, **filename** points to name as shown in email

#### ▶ CFOUTPUT

New encodefor attribute: names encoding type to be used for strings within it tags, if not otherwise surrounded by an encodefor function (types: html, htmlattribute, url, javascript, css, xml, and so on)

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#### CHANGED CFML TAGS (CONT.)

- CFSEARCH (Solr searching)
  - ▶ New **Type** attribute values (for parser): **Standard**, **Dismax**
  - Old verity-based types no longer supported
    - simple, explicit, internet, internet\_basic, natural
- ► CFCOLLECTION
  - path attribute is now ignored
  - ► All collections are created in the **collections** directory at the location specified in **Solr\_Home** field in the ColdFusion admin
- ► CFSOCIALPLUGIN
  - ► See comments in [ColdFusion2016]\cfusion\CustomTags\socialplugin.cfm

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### CHANGED CFML TAGS (CONT.)

- ▶ More info on changed tags, with links to details:
  - ▶ helpx.adobe.com/coldfusion/2016/other-enhancements.htm
  - ▶ helpx.adobe.com/coldfusion/2016/language-enhancements.html
- ▶ Phew, so that's it for language, feature, admin and config gems
  - ► Think we're done?
  - ▶ Not yet!

### CHANGED CFML TAGS (CONT.)

- ▶ We're more than half-way home. Areas remaining...
- ► Deprecated features
- ► Updates to underlying libraries' versions numbers
- ► What's new in Standard vs Enterprise
- ▶ Pricing
- ► Updates since initial release
- ► And more!

#### OTHER TOPICS

- Deprecated features (nothing obsoleted)
  - ► These may (will likely) be dropped/obsoleted in later releases, but are still supported
- ► Language features:
  - ► CFCHART format="flash"
  - ► CFFILEUPLOAD Flash component
  - ► CFMEDIAPLAYER
  - ► CFTABLE
  - ▶ UI Tags based on YUI toolkit CFTREE, CFCALENDAR, CFAUTOSUGGEST, CFMENU
    - ▶ These uniquely are also "no longer supported"/updated
- ► Report Builder

#### DEPRECATED FEATURES

- Certain admin features deprecated
  - ► Event gateways Jabber, Flash Media server
  - ► Portlets
  - System Probes
  - Server Manager
  - Server Monitor (was listed as deprecated, but will not be)
- ▶ For more on deprecation, dropping of support for some things
  - helpx.adobe.com/coldfusion/deprecated-features.html
  - carehart.org/blog/client/index.cfm/2016/2/22/cf2016\_deprecated\_features
- ▶ Now, how about the status/versions of CF's underlying Java libraries?

#### DEPRECATED FEATURES (CONT.)

- Antisamy 1.5.3 (OWASP security library)
- Axis 2 1.7.0 (web services library, and note that's "Axis 2" v 1.7.0, not "Axis")
- Derby 10.11 (embedded DB)
- ► Ehcache 2.10.0 (caching library)
- Esapi 2.1.0 (OWASP Enterprise Security API)
- Ext JS 4.1 (JS library which underlies various UI tags)
- Ewsapi 1.1.5 (MS Exchange API)
- ► Hibernate 4.3.10 (ORM library)
- Httpclient 4.4.1 (underlies CFHTTP and more)
- ▶ Jetty 9.3.6v20151106 (underlies Solr, HTMLTOPDF, and more)
- ▶ Java 1.8.0\_72 (the JVM which underlies all of CF)
- ▶ JDBC Drivers 5.1.4.000138 (the built-in Merant DB drivers, such as for SQL Server, Oracle, and even MySQL. CF no longer includes the MySQL-provided driver, but you can add it yourself)

- jQuery 1.6.1 and jQuery UI 1.8.16 (JS library which underlies various UI tags and Admin interface features)
- Lucene 5.2.1 (underlies Solr, embedded search engine in CF)
- OpenSSL 1.0.2h (as of CF 2016 Update 2)
- ► POI 3.12 (underlies MS Office Integration features)
- PostgreSQL 9.4-1201 (db driver)
- Quartz 2.2.1 (underlies CF Schedule tasks)
- Servlets 3.1 (underlies CF/Tomcat processing)
- Solr 5.2.1 (the embedded search engine, used by CFSEARCH/CFINDEX/CFCOLLECTION, etc.)
- Tomcat 8.0.27.0, 8.0.32 as of Update 1 (the application server which underlies CF, when deployed in traditional "Server" configuration)
- ► YUI 2.3.0 (JS library which underlies various UI tags)

#### See:

carehart.org/blog/client/index.cfm/2016/2/17/what\_are\_cf2016\_embedded\_library\_version\_numbers

## UPDATES TO UNDERLYING LIBRARIES' VERSIONS NUMBERS

- ▶ Referring here only to what's new/changed in CF2016 and in Enterprise only
  - ▶ API Manager
  - Security Analyzer
- ▶ These do not work with CF 2016 Standard, nor even Developer edition!
  - ▶ They do work with the CF Trial edition
  - And you can take an enterprise license key and use it on a "dev" machine, of course
- ► More:
  - carehart.org/blog/client/index.cfm/2016/2/25/cf2016\_enterprise-only\_features

### WHAT'S NEW IN STANDARD VS ENTERPRISE

	Base Price	Upgrade Price				
		From CF12 Standard	From CF11 Standard	From CF11 Enterprise	From CF10 Standard	From CF10 Enterprise
CF 2016 Standard	\$1499	n/a	\$749	n/a	\$899	n/a
CF 2016 Enterprise	\$8499	\$7599	\$7599	\$4249	\$7599	\$5099

► For more, including how I found this info, see carehart.org/blog/client/index.cfm/2016/2/24/pricing\_for\_coldfusion\_2016

#### **PRICING**

- ▶ Some debate/confusion initially about aspects of new EULA
- ► See it for yourself
  - wwwimages.adobe.com/content/dam/acom/en/legal/licensesterms/pdf/ColdFusion-2016.pdf
- ▶ Reach out to CF Product Mgr, Rakshith Naren, with any questions
  - ▶ rakshith@adobe.com

#### LICENSING/EULA

- ► CF10 support **not** terminating at end of this year
  - ▶ As happened with CF9 in 2014 when 10 came out
  - ▶ Instead, ends May 2017 (extended support, May 2019)
- ► CF11 support ends April 2019 ("extended support" April 2021)
- ► CF9 "extended support" ends 12/31/16
- ► More: adobe.com/support/products/enterprise/eol/eol\_matrix.html#63

#### END OF LIFE/END OF SUPPORT

- ▶ There have been 3 updates to CF2016 since release (as of this date)
- ▶ Updates can be easily applied in CF Admin, "Server Update" page
  - Updates are cumulative, need only apply latest
  - ▶ If you have troubles applying CF updates (in 2016, or 10/11), see my blog post:
    - carehart.org/blog/client/index.cfm/2016/9/6/solve\_common\_problems\_with\_CF\_updates\_in\_ 10\_and\_above
- ▶ As for updating CFBuilder, should be prompted about available update
  - ▶ But you can implement it manually
  - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-builder-2016-update-2.html#Installation
- ▶ There's sometimes a fair bit that's included in CF updates
  - ▶ Bug fixes, security improvements, and sometimes even minor new/changed features
  - ▶ Let's take a look at them

#### UPDATES SINCE RELEASE OF CF2016

- ▶ Update 1 was released in May 2016, 3 months after initial release
  - ▶ Tomcat was updated to 8.0.32
  - Various updates to Security Analyzer
  - Several important bug fixes for security, core language features, server, and other areas (20 total bug fixes)
- ► CF Builder 2016 Update 1 released concurrently
  - ▶ Primarily addressed issues related to Security Code Analyzer and its performance

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#### **UPDATE 1**

#### ► Update 1 resources

- Overview
  - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-2016-update-1.html
  - ▶ helpx.adobe.com/coldfusion/kb/bugs-fixed-coldfusion-builder-2016-update-1.html
- Release notes (covers all updates)
  - ► helpx.adobe.com/content/help/en/coldfusion/release-note/coldfusion-2016-updates-release-notes.html
- ▶ Bug fixes and known issues
  - ▶ helpx.adobe.com/coldfusion/kb/bugs-fixed-coldfusion-2016-update-1.html
- Blog posts
  - ▶ blogs.coldfusion.com/post.cfm/updates-for-coldfusion-2016-coldfusion-11-and-coldfusion-10-released
  - ▶ blogs.coldfusion.com/post.cfm/coldfusion-builder-2016-update-1-released

## **UPDATE 1 (CONT.)**

- ▶ Update 2 was released in June 2016
  - ► Allowed specifying the type of data when serializing structs or arrays
  - ▶ New member functions:
    - ArrayDeleteNoCase
    - ▶ BooleanFormat
    - YesNoFormat
  - ► Introduction of CK Editor/deprecation of FCKEditor
    - ► In cftextarea, ajax form controls
  - ► Can configure SSL in API Manager: access API Mgr portals over HTTPS
  - **>** ...

### **UPDATE 2**

- ▶ Change related to new NTLMDomain attribute
  - helpx.adobe.com/coldfusion/2016/ntlm-support.html
- ▶ OpenSSL libraries upgraded to version 1.0.2h
- ► Addressed vulnerability mentioned in the security bulletin APSB16-22
- Several important bug fixes (77, total bug fixes)
  - Security, core language features, server, and other areas
- ► CF Builder 2016 Update 2 released concurrently
  - ▶ Standalone edition upgraded underlying Eclipse from Kepler to Mars
  - ▶ Important updates to Security Analyzer, updated FTP/SFTP support in import/export project, several bug fixes (especially performance), PhoneGap upgraded to 5.2

**UPDATE 2 (CONT.)** 

#### ► Update 2 resources

- Overview
  - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-2016-update-2.html
  - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-builder-2016-update-2.html
- Release notes (covers all updates)
  - ▶ helpx.adobe.com/content/help/en/coldfusion/release-note/coldfusion-2016-updates-release-notes.html
- ▶ Bug fixes and known issues
  - ▶ helpx.adobe.com/coldfusion/kb/bugs-fixed-coldfusion-2016-update-2.html
- Blog post
  - ▶ blogs.coldfusion.com/post.cfm/updates-for-coldfusion-2016-coldfusion-builder-2016-coldfusion-11-and-coldfusion-10-released

**UPDATE 2 (CONT.)** 

- ▶ Update 3 released in Oct 2016
  - ▶ Added support for Websphere 9, IIS 10.1 (in Windows 10)
    - ▶ But as for support for Windows 2016, due to be released late Sept 2016, that will follow in time
  - Support for sorted structs
    - New arg to StructNew(), including callback feature
    - New StructToSorted()
  - New argument in ArraySum(): ignoreUndefined
    - ▶ If true, ignores null or "" values when adding array elements
  - ▶ New language attribute for CFHTMLTOPDF, defaults to "English"
  - ► CFHTMLTOPDFITEM tag has new evalAtPrint attribute
    - ▶ If true, content of CFHTMLTOPDFITEM evaluated AFTER PDF is generated, page numbers available
    - Allows conditional code inside CFHTMLTOPDFITEM

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### **UPDATE 3**

- ► Also
  - New domain/user/password support in CFOBJECT, CreateObject()
  - ▶ New useSecureJSONPrefix arg for SerializeJSON()
  - New QueryGetResult(), returns metadata about queries
  - Several date-related changes in several functions, new IsDateObject()
  - ► Also 180 bug fixes (100+ as reported by users)
- CF Builder 2016 Update 3 released concurrently
  - ▶ PhoneGap updated to 6.0
  - ▶ 25 bug fixes, including for an important security fix and Security Analyzer
  - ► Enhancements to editor

**UPDATE 3 (CONT.)** 

- ► Special note for API Manager users
  - ▶ If you've installed Update 3 build 300357, Adobe recommend you uninstall it
  - ▶ Roll back to Update 1 (build 298513)
  - ► Then apply Update 3 build 300466

UPDATE 3 (CONT.)

#### ► Update 3 resources

- Overview
  - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-2016-update-3.html
  - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-builder-2016-update-3.html
- Release notes (covers all updates)
  - ▶ helpx.adobe.com/content/help/en/coldfusion/release-note/coldfusion-2016-updates-release-notes.html
- ▶ Bug fixes and known issues
  - ▶ helpx.adobe.com/coldfusion/kb/bugs-fixed-coldfusion-2016-update-3.html
- ▶ Blog post
  - ▶ blogs.coldfusion.com/post.cfm/updates-for-coldfusion-2016-and-coldfusion-builder-2016-is-available-now

**UPDATE 3 (CONT.)** 

- ▶ Lists updates, links to technotes, and offers jar download links!
  - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-2016-updates.html
- ► Also available for CF 11 and 10:
  - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-11-updates.html
  - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-10-updates.html

## SINGLE PAGE LISTING ALL CF2016 UPDATES

- ▶ Can no longer access CF11 installers on Adobe site
  - Look to cfmlrepo.com (community-run site)
- ▶ Can't even license CF11 anymore
  - ▶ Must buy CF2016 and request "backward license" to CF11
- ► Annoying: while there are PDFs of CF docs... (helpx.adobe.com/coldfusion/home.htm)
  - ▶ They generally show only one level within a section, then offer a link to online page for more detail (sometimes confusing)

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### TRAPS/GOTCHAS

- Mentioned previously
  - Security Analyzer works only with CF Enterprise (or trial)
    - Also requires CF installed in "Developer mode", with RDS enabled
  - API Manager included in CF download, whether you can or want to install it
  - ▶ New redis-based session vars support only CFML sessions, not j2ee sessions
  - ► CF Installer web server config does not yet offer tuning options
- ▶ See other (few) "known issues" listed in original release and update docs
- ▶ Be sure to apply updates before believing web reports of "known bugs". May since have been fixed!

TRAPS/GOTCHAS (CONT.)

- ▶ In addition to many mentioned so far (do see them also)...
- adobe.com/devnet/coldfusion/articles/whats-new-cf-2016.html
- ▶ helpx.adobe.com/coldfusion/whats-new.html
- ▶ helpx.adobe.com/coldfusion/2016/topics/features.html
- ► helpx.adobe.com/coldfusion/release-note/coldfusion-2016-release-notes.html
- ▶ Video on CF2016 (8-minute overview): youtube.com/watch?v=Bm6dJjNSPNg
- ▶ helpx.adobe.com/coldfusion/home.htm (CF2016 docs)
- **...**

### RESOURCES FOR MORE ON CF2016

- adobe.com/products/coldfusion-standard/features.html
- ▶ helpx.adobe.com/pdf/Cf2016-standard-datasheet.pdf
- helpx.adobe.com/pdf/Cf2016-standard-comparison.pdf (compares to previous releases)
- adobe.com/products/coldfusion-enterprise/features.html
- ▶ helpx.adobe.com/pdf/Cf2016-enterprise-datasheet.pdf
- ▶ helpx.adobe.com/pdf/Cf2016-enterprise-comparison.pdf (compares to previous releases)

**>** ...

# RESOURCES FOR MORE ON CF2016 (CONT.)

- ▶ helpx.adobe.com/coldfusion/standard/system-requirements.html
- ▶ helpx.adobe.com/coldfusion/enterprise/system-requirements.html
- helpx.adobe.com/pdf/coldfusion2016-support-matrix.pdf (web servers, OS's, DB's supported)
- adobe.com/products/coldfusion-standard/buying-guide.html
- adobe.com/products/coldfusion-enterprise/buying-guide.html
- **>** ...

## RESOURCES FOR MORE ON CF2016 (CONT.)

#### ▶ Whitepapers

- ► CF2016 Security audit report:
  - ▶ blogs.coldfusion.com/post.cfm/coldfusion-2016-release-security-audit-report
- ► CF2016 Performance report:
  - wwwimages.adobe.com/content/dam/acom/en/products/coldfusion/pdfs/cf2016/C F2016\_Performance.pdf
- ► CF2016 lockdown guide:
  - wwwimages.adobe.com/content/dam/acom/en/products/coldfusion/pdfs/coldfusion-2016-lockdown-guide.pdf
- ► CF2016 migration guide:
  - wwwimages.adobe.com/content/dam/acom/en/products/coldfusion/pdfs/cf2016/cf 2016-migration-guide.pdf

# RESOURCES FOR MORE ON CF2016 (CONT.)

- Adobe CF team blog: blogs.coldfusion.com
- ▶ Anit (CF team member) blog: coldfusionsolution.wordpress.com
- Akbarsait's CF2016 meta resource guide: akbarsait.com/blog/index.cfm/2016/2/21/ColdFusion-2016-Tutorials-and-Articles-by-ColdFusion-Community/
- ▶ My sites: cf411.com and cf911.com (and carehart.org)
  - ▶ I often link to the resources of others in the community, past/present
  - ▶ I can help you with any CF server troubleshooting/admin challenges

## SOME RESOURCE GEMS FOR CF2016 AND EARLIER

- ▶ So, how many changes did we cover? Any guesses?
  - ▶ I counted about 80! (not including bug fixes)
  - ▶ As is often the case, most can name only a few
- ▶ Hope you may be more motivated—and informed—to consider CF2016
  - ▶ To understand if and how it may work for you
  - Or at least where things stand regarding it as of now
- ► Again, my contact info for followup:
  - ▶ Charlie Arehart
  - charlie@carehart.org
  - ▶ @carehart (Tw, Fb, Li, Slack)
- ► Thanks, and don't forget to fill out your evals

### SUMMARY