

HIDDEN GEMS IN CF2018



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Updated Dec 5, 2018

- ▶ Major features of CF2018 (quick overview)
- ▶ Hidden gems in many areas
 - ▶ Installation, administration, web server config, monitoring
 - ▶ New/changed features, new language constructs, etc.
- ▶ As well as other topics:
 - ▶ Updates to underlying libraries' version numbers
 - ▶ Deprecated/obsoleted features
 - ▶ Compatibility issues
 - ▶ What's new in Standard vs Enterprise
 - ▶ Pricing, licensing, end of life support
 - ▶ And more
- ▶ So much to cover, so will be just quick discussion of each
 - ▶ Also, we saw demos of many things by Rakshith in the keynote
- ▶ Slides carehart.org/presentations

TOPICS

- ▶ 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 (via **shared desktop**)
 - ▶ **Solve most problems in less than an hour**, teaching you also as we go
 - ▶ **Satisfaction guaranteed.** More on rates, approach, etc at carehart.org/consulting
- ▶ Love to share info, with my clients and the community
 - ▶ Active blogger
 - ▶ Speaker at nearly every CF conference
 - ▶ Contributor to/creator of many CF community resources
 - ▶ As well as CF411.com, CF911.com, and more

ABOUT ME

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- ▶ How many have started using CF2018 in prod? In dev?
 - ▶ How many have at least seen resources about it?
 - ▶ Not surprised if not even many: people often wait
- ▶ Anyone “waiting for first point release”?
 - ▶ Update 1 came out last month
- ▶ How many likely won't use it until next release (CF 2020, or 2022)?
- ▶ I do these talks, not just for those making the move now or soon
 - ▶ But also those who may see it in future 😊
- ▶ Anyone know when I started writing about hidden gems in CF?
 - ▶ 4.0.1 in 1999

SOME INTRO QUESTIONS FOR YOU

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- ▶ If you may be jumping to 2018 from 2016 or earlier...
 - ▶ Don't miss changes (and hidden gems I'd identified) in 2016, 11, 10, etc.
 - ▶ See my hidden gems talks on each: carehart.org/presentations
 - ▶ I discuss also compatibility issues moving to each, as I will today

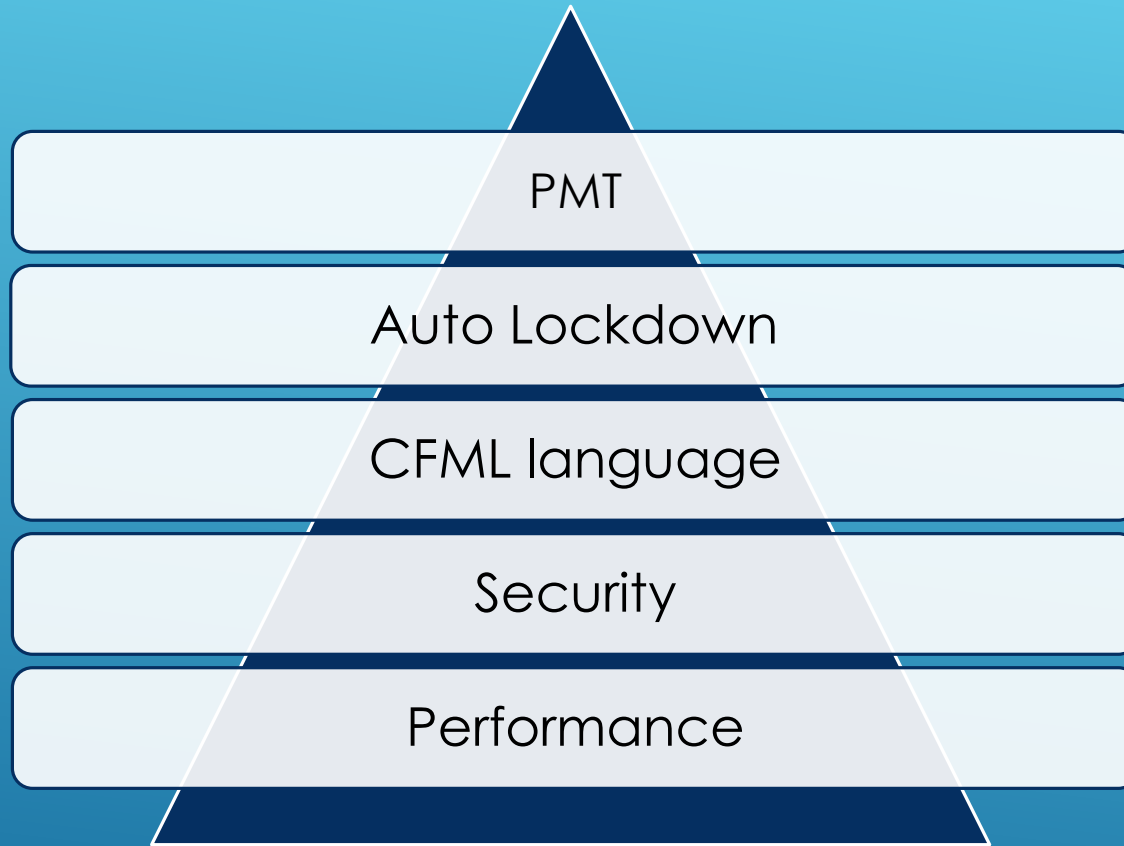
JUMPING FROM CF11 OR EARLIER?

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- ▶ While normally I'd be pointing mainly to CF docs for more...
 - ▶ At CF2018 launch, Adobe offered several blog posts
 - ▶ coldfusion.adobe.com/category/coldfusion-2018/
 - ▶ coldfusion.adobe.com/tagpage/?tag=coldfusion%202018
 - ▶ Sadly, doesn't list ALL of them. See my post listing them just after launch:
 - ▶ carehart.org/blog/client/index.cfm/2018/7/19/whats_new_in_CF2018
- ▶ Also, at CFSummit there were several Adobe sessions on CF2018
 - ▶ Of course they go into MUCH more depth on many of the topics I'll only mention
 - ▶ Hopefully some of them will be offered online
 - ▶ Slides:
 - ▶ <https://coldfusion.adobe.com/2018/11/presentation-files-adobe-coldfusion-summit-2018/>

MORE ABOUT CF2018 THAN JUST IN DOCS

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MAJOR FEATURES OF CF2018

- ▶ New UI for CF Admin
- ▶ Command-line REPL
- ▶ REST Playground
- ▶ New caching engines
- ▶ New language features
- ▶ Changes in CF Builder
- ▶ We'll quickly review this and then still other perhaps "hidden" gems

SOME LESS NOTED (BUT NOT SO MUCH "HIDDEN")
FEATURES

INSTALLATION, ADMINISTRATION,
CONFIGURATION, ETC.

- ▶ First up, not so much a feature but a warning for some:
 - ▶ As of CF2018 there is no longer a 32-bit installer
- ▶ More:
 - ▶ coldfusion.adobe.com/2018/10/does-adobe-coldfusion-2018-release-have-32-bit-support/

INSTALLATION NOTE

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- ▶ Have you seen the CF 2018 Admin? Let's take a look
 - ▶ Real hidden gem: don't miss the offered "search" feature at the top right
- ▶ Another Admin hidden gem:
 - ▶ Scheduled tasks page finally adds "pause all" and "resume all" buttons
 - ▶ CFSCHEDULE has been able to do that also, since CF10, but not Admin
 - ▶ In CF2018, that tag action no longer requires use of GROUP or MODE attributes
 - ▶ Though will only stop "Server" mode tasks and "application" mode tasks in same app where cfschedule tag is running
 - ▶ More:
 - ▶ helpx.adobe.com/coldfusion/cfml-reference/coldfusion-tags/tags-r-s/cfschedule.html

ADMINISTRATOR CHANGES

- ▶ Some may know CF has long had a lockdown guide
 - ▶ Written by Pete Freitag and offered as part of CF docs for several years
- ▶ CF2018 adds a new (optional) auto-lockdown tool
 - ▶ Tries to handle all at once the 84-pages of steps in the past Lockdown Guides
- ▶ Available for Windows and Linux, IIS and Apache
- ▶ Does offer rollback and uninstall features
 - ▶ As well as logs of what it does, if it rolls back
 - ▶ After running autolockdown , see [CF Home]\lockdown\
▶ Uninstall at ([CF Home]\lockdown\[Instance locked down]\Uninstall)
- ▶ ...

NEW AUTO LOCKDOWN

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- ▶ Also offers silent install option
- ▶ Downloading it: adobe.com/support/coldfusion/downloads.html
- ▶ More:
 - ▶ helpx.adobe.com/coldfusion/using/server-lockdown.html
 - ▶ coldfusion.adobe.com/2018/07/server-auto-lockdown/
- ▶ **One potential trap:**
 - ▶ Release notes for update 1 shows extra steps to take if autolockdown applied
 - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-2018-update-1.html

NEW AUTO LOCKDOWN (CONT.)

- ▶ New monitoring solution for CF2018
 - ▶ Is a substantial tool, really worthy of an entire talk, indeed multiple talks
 - ▶ Sharing here tips to help you get started with it
- ▶ Downloading it: adobe.com/support/coldfusion/downloads.html
- ▶ Configuring it
 - ▶ Auto discovery, or manual config
 - ▶ coldfusion.adobe.com/2018/07/auto-discovery/
 - ▶ As of initial release, server auto-discovery does not support https
 - ▶ coldfusion.adobe.com/discussion/2539323/
- ▶ Launching it: no start menu option, but instead link within CF Admin
- ▶ ...

PERFORMANCE MONITORING TOOLSET (PMT)

- ▶ Gotchas/notices:
 - ▶ Is included only IN CF2018 and **can only MONITOR** CF2018
 - ▶ Ensure adequate resources to run the PMT and its datastore on same box as CF
- ▶ Is supported in all editions of CF2018 (Standard and Enterprise; Trial/Dev)
 - ▶ Works fine w/ FusionReactor, SeeFusion or other JVM monitoring that may be enabled
- ▶ Also supports code profiling integration with CFBuilder
- ▶ Something you might miss: alerts
 - ▶ coldfusion.adobe.com/2018/07/alerts-and-notification/
- ▶ Learning more:
 - ▶ helpx.adobe.com/coldfusion/user-guide.html?topic=/coldfusion/morehelp/pmt.ug.js
 - ▶ And blog posts ...

PERFORMANCE MONITORING TOOLSET (PMT)

▶ Several CF team blog posts

- ▶ coldfusion.adobe.com/2018/07/monitoring-coldfusion-servers/
- ▶ coldfusion.adobe.com/2018/07/topology-birds-eye-view-of-coldfusion-deployment/
- ▶ coldfusion.adobe.com/2018/07/database-discovery/
- ▶ coldfusion.adobe.com/2018/07/external-services/
- ▶ coldfusion.adobe.com/2018/07/code-profiler/
- ▶ coldfusion.adobe.com/2018/07/server-monitor-thread-dump-analysis/
- ▶ coldfusion.adobe.com/2018/07/server-monitor-mystery-of-health-score-pmt/
- ▶ coldfusion.adobe.com/2018/07/performance-monitoring-toolset-connecting-the-dots-using-jvm-metrics/

PERFORMANCE MONITORING TOOLSET (PMT)

- ▶ Note there were some important improvements in CF2016
 - ▶ Much better defaults than CF10, 11, and also enhanced config options
- ▶ Still more enhancements to wsconfig UI in CF2018
 - ▶ Choice of expected “load levels”
- ▶ Again, new connector auto-tuning, within PMT
 - ▶ Bummer: only for IIS, and it doesn't tune server.xml maxthreads value if needed
 - ▶ See my comments and Adobe's reply in their blog post below
- ▶ More:
 - ▶ coldfusion.adobe.com/2018/07/connector-tuning/
 - ▶ helpx.adobe.com/coldfusion/performance-monitoring-toolset/view-list-sites-busy-connections.html

WEB SERVER CONFIG TOOL (WSCONFIG) CHANGES

- ▶ Since CF9, ehcache underlies CF caching
 - ▶ Now adds JCS (like ehcache, implemented within jvm)
 - ▶ And new options for **distributed** caching: memcached, redis
 - ▶ These 2 offered in CF Enterprise (and trial and developer) only
 - ▶ See CF Admin setting
- ▶ Can also override caching features/settings at application-level
- ▶ Also related new AdminAPI methods
- ▶ For more:
 - ▶ coldfusion.adobe.com/2018/07/distributed-caching-coldfusion-2018-release/
 - ▶ useful table at bottom
 - ▶ helpx.adobe.com/coldfusion/developing-applications/changes-in-coldfusion/caching-enhancements.html

NEW CACHING OPTIONS

- ▶ Web server connector is now an NIO rather than BIO connector
- ▶ Some Adobe resources say that CF2018 uses G1 jvm garbage collector
 - ▶ But by default, per the original install (and update 1), it does not
 - ▶ You will see it uses the `-XX:+UseParallelGC` jvm arg in `jvm.config`
 - ▶ If that was REMOVED, then Java 10 underlying CF WOULD use G1GC

OTHER ADMIN-ORIENTED GEMS

- ▶ CF2018 Performance Whitepaper discusses several improvements:
 - ▶ XML parsing much faster (parser instances now pooled/cached)
 - ▶ Regex compilation now being cached
 - ▶ Cache web server path enhanced
 - ▶ Caching of application.cfm/cfc search
 - ▶ Also cf mappings/custom tags, and cfcs when implementing an interface
- ▶ More:
 - ▶ www.images2.adobe.com/content/dam/acom/en/products/coldfusion/pdfs/CF2018_Performance.pdf

PERFORMANCE IMPROVEMENTS

DEVELOPER-ORIENTED FEATURES, LANGUAGE CHANGES

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- ▶ CF2016 had added new command-line interface (CLI)
 - ▶ Accessed using cf.bat or cf.sh in cfusion/bin folder
 - ▶ Allowed cmd line CFML execution by pointing to a cfm file
- ▶ CF2018 adds true REPL (read-eval-print-loop)
 - ▶ Essentially, able to write **cfscript** at command line (still started via cf.bat / .sh)
 - ▶ **CAN** do tags, using file approach above
 - ▶ CF does not even need to be running
 - ▶ Supports multi-line statements, either implicitly, an open “{“ block, or via “^”
 - ▶ To exit this multiline mode, use special statement "multilineexit"
 - ▶ To exit repl: q or ctrl-c
 - ▶ Use “help” command to find more (and more info offered here in a moment)
- ▶ ...

NEW CFML REPL

- ▶ Can output to terminal with `writeoutput`, `writeDump`, of course
 - ▶ But also, output gets auto-printed to the console when typing
 - ▶ an assignment
 - ▶ an expression evaluating to some value
 - ▶ a function
 - ▶ How to disable automatic printing of output in the console?
 - ▶ In `cfusion/bin/cf.bat` file, change setting `PRINT_REPL_VARS_AUTO` to `false`
- ▶ For more on REPL and CLI:
 - ▶ coldfusion.adobe.com/2018/07/repl-coldfusion-2018-release/
 - ▶ helpx.adobe.com/coldfusion/using/command-line-interface.html

NEW CFML REPL (CONT.)

- ▶ On the topic of “trying out code” easily, consider Adobe’s CFFiddle
 - ▶ cffiddle.org
 - ▶ Not new or CF2018-specific, but recent update: no longer need to login
 - ▶ Can save scripts to share with others, and more
- ▶ Consider also *trycf.com*
- ▶ Let’s move on to language feature gems

CONSIDER ALSO CFFIDDLE

- ▶ Somewhat along the same lines...
- ▶ The REST playground is a new way to work with CF rest services
 - ▶ Application bundled with CF, to help visualize, test, and debug them
- ▶ More
 - ▶ coldfusion.adobe.com/2018/07/rest-playground-ion-2018-release/
 - ▶ helpx.adobe.com/coldfusion/using/rest-enhancements-coldfusion.html#restplay

REST PLAYGROUND

- ▶ Also dozens of languages enhancements. Again, can only list them here
- ▶ Null support
 - ▶ coldfusion.adobe.com/2018/07/null-support-in-coldfusion-2018/
 - ▶ helpx.adobe.com/coldfusion/developing-applications/the-cfml-programming-language/using-coldfusion-variables/data-types-developing-guide.html#null-support
- ▶ Async feature
 - ▶ coldfusion.adobe.com/2018/07/asynchronous-programming-in-coldfusion-2018-release/
 - ▶ helpx.adobe.com/coldfusion/using/asynchronous-programming.html
- ▶ Enhanced support for new operator
 - ▶ coldfusion.adobe.com/2018/07/enhanced-support-for-new-operator
 - ▶ helpx.adobe.com/coldfusion/using/whats-new.html#new
- ▶ ...

CHANGED LANGUAGE FEATURES

- ▶ Semi-colon optional
 - ▶ coldfusion.adobe.com/2018/07/writing-cfms-without-semicolons/
 - ▶ helpx.adobe.com/coldfusion/using/whats-new.html#Otherchanges
- ▶ Closures in tags (previously only in script)
 - ▶ coldfusion.adobe.com/2018/07/closures-in-coldfusion-tags/
 - ▶ helpx.adobe.com/coldfusion/developing-applications/the-cfml-programming-language/extending-coldfusion-pages-with-cfml-scripting/using-closures.html#closure-tags
- ▶ Named parameters
 - ▶ coldfusion.adobe.com/2018/07/named-parameters-in-coldfusion/
 - ▶ <ftp://ftp.adobe.com/pub/adobe/coldfusion/2018/NamedParametersColdFusion2018.pdf>
- ▶ ...

CHANGED LANGUAGE FEATURES (CONT)

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- ▶ New control of query auto-generation of primary keys
 - ▶ **cfquery** attribute **disableAutoGenKeys**
 - ▶ **queryexecute**
 - ▶ Added the value **disableAutoGenKeys** in queryOptions struct
- ▶ **cfchart**
 - ▶ Adds support for responsive client-side charts
 - ▶ Can specify the height and width in percentages
- ▶ And still more groups of changes ...

CHANGED LANGUAGE FEATURES

- ▶ Typed arrays
- ▶ Array negative indexes
- ▶ Array slices
- ▶ Member functions now supported for string literals
- ▶ More:
 - ▶ coldfusion.adobe.com/2018/07/arrays-and-string-enhancements-in-coldfusion-2018/

ARRAY AND STRING ENHANCEMENTS

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- ▶ ArrayFirst
- ▶ ArrayLast
- ▶ QueryDeleteColumn
- ▶ QueryDeleteRow
- ▶ CacheGetEngineProperties
- ▶ RunAsync
- ▶ StructIsOrdered
- ▶ More:
 - ▶ helpx.adobe.com/coldfusion/cfml-reference/new-functions-coldfusion-2018.html

NEW CFML FUNCTIONS

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- ▶ Too many to list, but in categories of:
 - ▶ query functions
 - ▶ array functions
 - ▶ xml functions
 - ▶ async functions
 - ▶ numeric functions
 - ▶ date functions
 - ▶ As well as changes to some existing member functions
- ▶ coldfusion.adobe.com/2018/07/member-functions-coldfusion-2018/
- ▶ helpx.adobe.com/coldfusion/developing-applications/building-blocks-of-coldfusion-applications/using-the-member-functions.html

NEW MEMBER FUNCTIONS

- ▶ Abstract CFCs & Methods
- ▶ Subtyping/covariant method return types
- ▶ Final variables, methods, components
- ▶ Default functions in interface
- ▶ More:
 - ▶ coldfusion.adobe.com/2018/07/oop-and-coldfusion/
 - ▶ coldfusion.adobe.com/2018/07/oop-and-coldfusion-part-2/
 - ▶ coldfusion.adobe.com/2018/07/default-function-in-interface/
- ▶ ...and that's it for language enhancements

OO LANGUAGE ENHANCEMENTS

OTHER HIDDEN GEMS

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- ▶ We're almost home. But a few areas remain...
 - ▶ Deprecated features
 - ▶ Compatibility issues
 - ▶ Updates to underlying libraries' versions numbers
 - ▶ What's new in Standard vs Enterprise
 - ▶ Pricing, Licensing
 - ▶ Updates since initial release
 - ▶ CF Builder enhancements
 - ▶ And more!

OTHER HIDDEN GEMS

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- ▶ See:
 - ▶ helpx.adobe.com/coldfusion/deprecated-features.html
- ▶ Some features listed as deprecated (there, but should not be used)
 - ▶ Mostly things rarely used by most anymore
 - ▶ Also concept there of “obsoleted” or “not supported”
- ▶ New concept: “retired” (feature **not enabled by default**)
 - ▶ Some may be things rarely used by most (flash remoting, flash forms, flash-based UI elements, blazeds, lcds, AIR, CF actionscript functions, CORBA etc.)
 - ▶ Some you may use: UI tags (more on that in a moment)
- ▶ Potential trap...

DEPRECATED FEATURES

- ▶ That page says only the thing removed in CF2018 is CF Server Monitor
 - ▶ I ran into some other compatibility issues
- ▶ First, the page lists some things as “removed since 11” that worked in 2016, but no more
 - ▶ **cfschedule’s timeout** attribute (used in creating a new task)
 - ▶ can add **cfsetting requesttimeout** to page being called (if under your control)
 - ▶ **cfcache’s cachedirectory** and **timeout** attributes
 - ▶ **cfcollection’s map** and **repair** values for **action** attribute
 - ▶ **cferror’s monitor** and **option** values for **type** attribute
 - ▶ And more. See helpx.adobe.com/coldfusion/deprecated-features.html

DEPRECATED FEATURES

- ▶ Watch out: newly reserve words
 - ▶ As part of the new OO support: **abstract** and **function**
 - ▶ And **null**, if null support enabled
- ▶ If you have code using those as variables, etc., will have conflicts/errors
- ▶ You may think you don't use these, but frameworks might
 - ▶ ColdSpring does use both abstract and function as variables (as in `coldspring\oop\framework\AopProxyUtils.cfc`)
- ▶ You must carefully find and replace those variable names, properties
 - ▶ May not want to do global replace, as you may have text that shouldn't be replaced
 - ▶ Could just run through code and fix those which get errors, but that's risky, too
- ▶ helpx.adobe.com/coldfusion/developing-applications/the-cfml-programming-language/elements-of-cfml/reserved-words-in-coldfusion.html

NEWLY RESERVED WORDS

- ▶ Also, though not listed on the page, I found:
 - ▶ **cfqueryparam/cfprocparam** fail if undocumented **cfsqltype** abbreviation used
 - ▶ **CF_SQL_int** should instead be **CF_SQL_integer**
 - ▶ **CF_SQL_DateTime** should be **CF_SQL_date**, **_time**, or **_timestamp**
 - ▶ **CF_SQL_Num** should be **CF_SQL_Numeric**
 - ▶ *And so on*
 - ▶ **cfsocialplugin** failed if width attribute specified

UNDOCUMENTED OBSOLETION?

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- ▶ Among things listed as “retired” are UI tags based on YUI javascript library
 - ▶ So these will not work out of the box with 2018, but you can “enable” them
 - ▶ This was also true as of CF2016 update 3 and installers after Dec 2016
- ▶ Includes these tags
 - ▶ ***cfmenu, cftree, cftooltip, cfcalendar, cfinput*** (***autosuggest*** attribute), ***cfinput*** (***sourcefortooltip*** attribute)
- ▶ To re-enable these, just copy needed YUI library files back into CF
 - ▶ See bottom of helpx.adobe.com/coldfusion/deprecated-features.html

YUI-BASED TAGS

- ▶ Beware that with each version, there can be compat issues
 - ▶ In moving to 2018, you will experience also compat issues from 2016, 11, 10, etc.
 - ▶ I have discussed these more in my “hidden gems” talk on each version
- ▶ Here they are again, in brief...

UPGRADING FROM EARLIER VERSIONS

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▶ CF10

- ▶ Removed Verity search engine, replaced with Solr
- ▶ Web services changed to support version 2, can change back to v1
 - ▶ See Admin-, application-, and code-level options to change wsversion, etc
- ▶ Can no longer run JSPs via external web server, but web server only
- ▶ So not too many issues (but the move to CF on Tomcat affected config issues)

- ▶ CF11 (quite a bit more compat issues)
 - ▶ Update 3 re-enabled long-dormant DBVARNAME on CFProcparam
 - ▶ Had been ignored since CF6, except briefly in 7.0.1
 - ▶ Problem: some DBs now require prefix to dbvarname value (“:” for Oracle and “@” for SQLServer)
 - ▶ You may have old code that just says dbvarname = “param1” which would now fail
 - ▶ For SQL Server, should be dbvarname = “@param1”, for instance
 - ▶ Note: a jvm arg was added then to revert this, but it is NOT supported in CF2016 and above
 - ▶ blogs.coldfusion.com/coldfusion-11-and-dbvarname-attribute/
 - ▶ CF11 update 11 broke any use of an /api folder off the root of your site
 - ▶ CF now uses that (like /rest folder) for REST feature
 - ▶ If you will never use that CF REST feature, could tweak/remove config file references to /api:
 - ▶ [cf]\cfusion\wwwroot\WEB-INF\web.xml (and [cf]\config\wsconfig\[n]\uriworkermap.properties)
 - ▶ ...

▶ CF11 (cont.)

- ▶ CFCHART removed use of XML to configure charts--now must pass json
 - ▶ Tool to help: cfusion/bin/cfchart_xmltojson (bat/sh)
- ▶ New strict number validation: if true (default), results of numeric validations (in tags, functions, return from methods) fail if value is not truly numeric
 - ▶ Settable in cfapplication or application.cfc: strictNumberValidation
- ▶ Good news: things formerly Enterprise-only ARE now available in Standard
 - ▶ CF archive (car) mechanism (to move CF admin settings from server to server)
 - ▶ Security Sandbox (to lockdown what code in different directories can do)
 - ▶ HTML5 charts
 - ▶ Web socket limit lifted

- ▶ CF2016 (again, very little)
 - ▶ The aforementioned removal of YUI, spry, portlets libraries in Update 3
 - ▶ MS Access: workarounds from 10/11 to enable it no longer work
 - ▶ CFCollection ignores PATH attribute, uses path defined in CF Admin
- ▶ So clearly, CF11 had more compat issues than 10 or 2016

UPGRADING FROM EARLIER VERSIONS (CONT.)

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- ▶ Antismy 1.5.7 (OWASP security library)
- ▶ Derby 10.11 (embedded DB)
- ▶ Ehcache 2.10.3 (caching library)
- ▶ Esapi 2.1.0 (OWASP Enterprise Security API)
- ▶ Hibernate 5.2.11 (ORM library)
- ▶ HttpClient 4.5.2 (underlies CFHTTP and more)
- ▶ Java 10.0.1 (the JVM which underlies CF)
- ▶ jQuery 3.1.1 and jQuery UI 1.12.1 (JS library which underlies various UI tags and Admin interface features)
- ▶ Lucene 6.6 (underlies Solr search engine in CF)
- ▶ POI 3.7 (underlies MS Office Integration features)
- ▶ Solr 7.2.1 (the embedded search engine, used by CFSEARCH/CFINDEX, etc.)
- ▶ Tomcat 9.0.10 (app server underlying CF, when deployed in traditional "Server" configuration)

UPDATES TO SOME UNDERLYING LIBRARIES' VERSIONS NUMBERS

- ▶ Only thing **new** that is Enterprise only is distributed caching
 - ▶ redis and memcached options
 - ▶ Standard **does** support long-standing ehCache and the new JCS option
- ▶ The CF2018 perf. whitepaper says “web server path caching” is Ent-only
 - ▶ But it’s not a new feature (has been there for many releases)
 - ▶ And I see the option in the CF2018 Standard Admin Caching page
- ▶ LET ME BE CLEAR: **I am NOT saying that’s the ONLY difference between CF2018 Standard and Enterprise**
 - ▶ I’m saying that’s the only thing **NEW** in 2018 that **is** Enterprise-only
- ▶ For more on differences between CF Std and Ent:
 - ▶ adobe.com/products/coldfusion-standard/buying-guide.html

STANDARD VS ENTERPRISE

- ▶ And now, the shoe drops. The price of CF2018 has increased
 - ▶ Standard: US\$ 2,499 (per 2 cores)
 - ▶ Enterprise US\$ 9,499 (per 8 cores)
- ▶ Upgrade discount for those on CF2016 (none for those on CF11 or earlier)
- ▶ Consider buying CF from resellers, for still more discounts
 - ▶ *buy-adobe-software.com* (from makers of FusionReactor)

PRICING

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- ▶ Can no longer access CF2016 installers on Adobe site
 - ▶ Look instead to *cfmlrepo.com* (community-run site)
- ▶ Can't even license CF2016 anymore
 - ▶ Must buy CF2018 (if from Adobe, only via "volume licensing")
 - ▶ and request "backward license" to CF2016
 - ▶ *blogs.coldfusion.com/post.cfm/adobe-coldfusion-backward-licensing*
- ▶ Great news: can buy CF2016 from a reseller like Intergral, at discount!
 - ▶ *buy-adobe-software.com*
- ▶ CF2016 public support ends 2021 (CF11 public supports ends in 2019)

WHAT IF YOU STILL WANT CF2016?

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- ▶ No real difference from CF2016
- ▶ More:
 - ▶ adobe.com/content/dam/acom/en/legal/licenses-terms/pdf/ColdFusion.pdf

LICENSING ISSUES (EULA)

- ▶ Release notes (bug fixes, known issues, etc.)
 - ▶ helpx.adobe.com/coldfusion/release-note/coldfusion-2018-release-notes.html
- ▶ Performance Whitepaper
 - ▶ www.images2.adobe.com/content/dam/acom/en/products/coldfusion/pdfs/CF2018_Performance.pdf
- ▶ Finally, let's talk about CF 2018 updates...

SOME OTHER RESOURCES ON CF2018

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- ▶ Update 1 released last month
 - ▶ Tomcat updated to 9.0.10
 - ▶ New **GetCanonicalPath** function
 - ▶ Was also added to CF2016 and 11 per their updates released at the same time
 - ▶ Bug fixes
- ▶ One challenge: the update icon in top right (starburst, showing number of updates) does NOT work as of base CF2018 version
 - ▶ Just leaves you on whatever page you are already on
 - ▶ Can instead use updates icon/menu item on bottom left
- ▶ Still other things to be aware of about update 1...

UPDATE 1

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- ▶ Potential trap: update 1 adds **packetsize** to server.xml for the ajp and http “connector” xml elements
 - ▶ Someone complained they had already added that, and the update just added it again, making it a dupe and this preventing thus CF coming up!
 - ▶ And the server.xml file did NOT get backed up in the hf-updates folder
 - ▶ Mentioned now in “known issues” section of bugs fixed page for update
 - ▶ helpx.adobe.com/coldfusion/kb/bugs-fixed-coldfusion-2018-update-1.html
- ▶ Remember also extra step for update, if autolockdown is applied
 - ▶ See update release note for more
- ▶ More:
 - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-2018-update-1.html

UPDATE 1 (CONT.)

- ▶ Lists of updates, links to technotes, and offers jar download links!
 - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-2018-updates.html
- ▶ Also available for CF 2018, 11 and 10:
 - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-2016-updates.html
 - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-11-updates.html
 - ▶ helpx.adobe.com/coldfusion/kb/coldfusion-10-updates.html
- ▶ Again, updates are cumulative, need only apply latest!
- ▶ If you have troubles applying CF updates in 10/11/2016/18, see my blog post:
 - ▶ carehart.org/blog/client/index.cfm/2016/9/6/solve_common_problems_with_CF_updates_in_10_and_above

...we're almost done...

SINGLE PAGE LISTING ALL CF2018 UPDATES

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- ▶ Some may know that Adobe released Docker images for CF2016
 - ▶ They've been updated for CF2018
 - ▶ And it's also been updated already for Update 1
- ▶ bintray.com/eaps/coldfusion/cf%3Acoldfusion/2018.0.1/view/readmore#release
- ▶ ...ok, on last topic: what about CFBuilder

ADOBE CF DOCKER IMAGE UPDATED

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- ▶ Built-in FTP support
 - ▶ Window>Show View>Other>Remote Systems
 - ▶ in previous releases, you'd have to know to get it, Remote Systems Explorer
 - ▶ helpx.adobe.com/coldfusion/using-coldfusion-builder/managing-servers.html#remote
- ▶ Asserted to load large files faster, and use less memory
- ▶ Support to import code profiler data from PMT
 - ▶ helpx.adobe.com/coldfusion/using-coldfusion-builder/managing-projects.html#profiler
- ▶ ...

CFBUILDER 2018 IMPROVEMENTS

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- ▶ Cordova replaces Phonegap

- ▶ helpx.adobe.com/coldfusion/mobile-application-development/packaging-mobile-applications.html

- ▶ Standalone edition now built upon Eclipse Oxygen 4.7.2

- ▶ More:

- ▶ helpx.adobe.com/coldfusion/using-coldfusion-builder/whats-new-in-coldfusion-builder.html

- ▶ So, lots of changes, right?
 - ▶ I count over 50 (major and minor)
- ▶ Hope you may be more motivated—and informed—to consider CF2018
 - ▶ 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 follow-up:
 - ▶ Charlie Arehart
 - ▶ charlie@carehart.org
 - ▶ @carehart (Tw, Fb, Li, Slack, Skype, GitHub)

SUMMARY