HIDDEN GEMS IN COLDFUSION 2018



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- ► First up, hidden gems in many areas:
 - Installation, administration, configuration, and security
 - Performance improvements, and new monitoring tool (PMT)
 - Developer-oriented features and language changes
- ► Then other topics you should also consider:
 - Compatibility/migration issues
 - Updates to underlying libraries (their version numbers)
 - What's new in Standard vs Enterprise
 - Pricing, end of life/support, licensing
 - And still more, including CFBuilder 2018
- Wrapping up with what's changed per recent CF2018 updates
- ▶ So much more than just "what's new in CF2018"

TOPICS

- So much to cover in this session
 - Will be just quick discussion of each point, with pointers to much more info
 - Just want you to be aware of the opps and issues, to look into later
- ► Slides available online for you now or later:
 - carehart.org/presentations
 - ► I also provide there <u>a document with links for more info on every topic in preso</u>
- I've also created blog posts with more info on nearly every point
 - See my links doc for the URLs
 - Currently 5 parts, from admin to language changes. 3 remaining parts planned



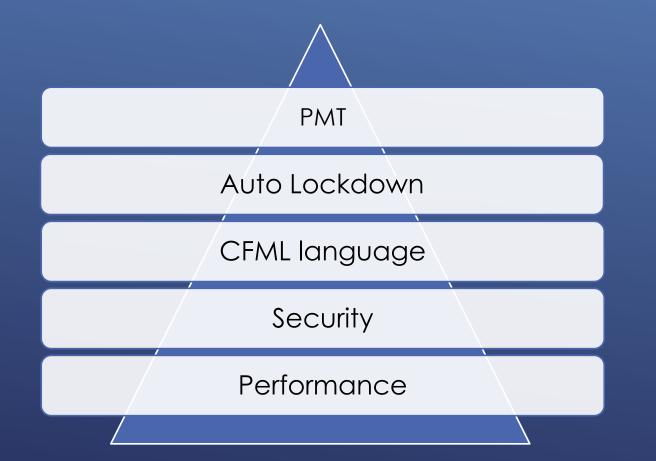
- At CF2018 launch, Adobe offered several blog posts
 - See my post listing them just after launch, offered in links document
- ► Also, several CF Summit sessions by Adobe on CF2018
 - They go into MUCH more depth on many of the topics I'll only mention
 - Slides available for most of their presentations. See my links docs
- ► And of course the CF docs, release notes, what's new go into things in more detail
 - Again, see my links document for links to all these
 - From now on, I won't repeat that point each slide (but will at various points, for late-comers)

FINDING MORE ABOUT CF2018

► I focus on CF server troubleshooting, as an independent consultant

- Assist organizations of all sizes, experience levels
- Work <u>remotely</u> 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
- ▶ But to be clear, I'm not selling anything in this session! ☺

ABOUT ME



MAJOR FEATURES OF CF2018

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► New UI for CF Admin

- ► Command-line REPL
- REST Playground
- New caching engines
- New language features, and more
- Not so much "hidden", but might be missed by many
 - Will cover these and so much more

SOME LESS NOTED FEATURES

INSTALLATION, ADMINISTRATION, CONFIGURATION, SECURITY



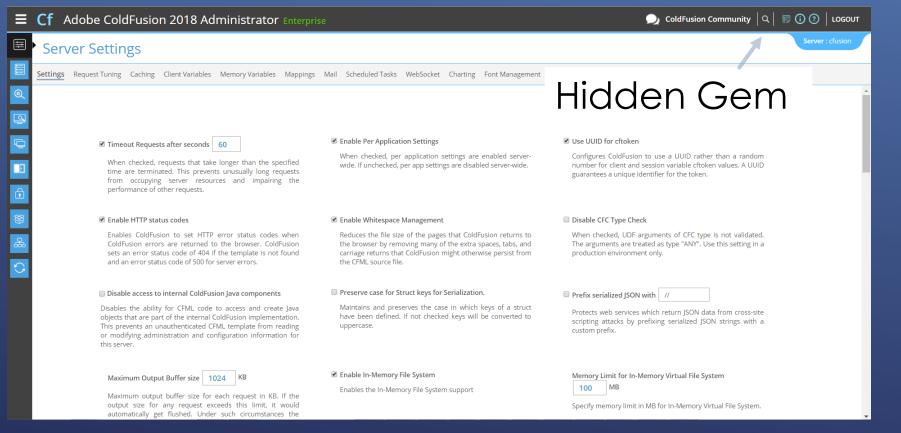
► CF2018 no longer offers 32-bit CF installer

- Curiously, CF installer no longer offers web server integration step
 - Must instead run CF "web server configuration tool" yourself (more in a moment)
- ► First hidden gem: a new CF2018 installer was released in Feb 2019
 - ► More on this later

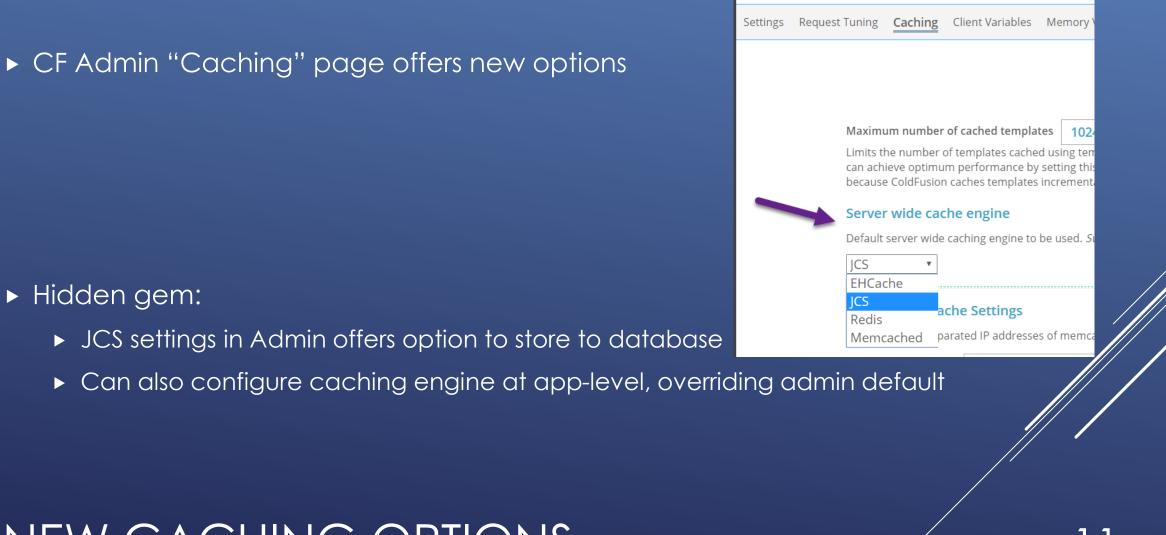
INSTALLATION CHANGES

Have you seen the CF 2018 Admin yet? Changed menu layout

ADMINISTRATOR CHANGES



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Server Settings

NEW CACHING OPTIONS

WEB SERVER CONFIG TOOL (WSCONFIG) CHANGES

Related: CF2018 PMT adds new connector auto-tuning (more on PMT later)

Wsconfig UI enhancements in CF2018

AppServer Host:		localhost]		
AppServer Instar	nce:	cfusion	\sim]	
AppServer Clus	ster:				
- Web Server Proper	ties				
Web Server:	Inter	rnet Information Server (IIS)		~	
Configuration Directory:					
Apache Virtual Host:				\sim	
IIS Website:	All			V	
	Total	l Websites: 1 Configurable Web	bsites: 1		
Website Load:	0	High () Medium () Low			
		Configure 32 bit webserver			
			Advand	ced	
Performance Monit	orin	g Toolset Properties			
Heartbeat	Interv	al in seconds: 30			
		ОК		Close	
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Add Web Server Configuration

App Server Properties

- CF2018 was released with Java 10 (previous CF releases came Java 8 or earlier)
- Support for Java 11 was added in CF2018 Update 2, in Feb 2019 (more later)
 - ► Also added for CF2016, per its update 8 or later
 - CF11 was not changed to support Java 11
- ► As a reminder, I have <u>a page with links to more info on all topics in preso</u>
 - Available, along with these slides, at carehart.org/presentations

JAVA-RELATED CONFIG CHANGES

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- CF has long had a lockdown guide
 - CF2018 adds new (optional) auto-lockdown tool
- Available for Windows and Linux, and IIS or Apache
 - And for macOS as of CF2018 Update 2
- Note: CF2018 autolockdown guide walks through using auto-lockdown tool
- ► See my links doc for docs, guide, tool download, more

SECURITY: NEW AUTO LOCKDOWN TOOL

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Hidden gems regarding Auto Lockdown tool:

- Offers rollback and uninstall features, as well as logs
 - ► After running the tool, see [CF Home]\lockdown\ for logs and more
 - Uninstall at [CF Home]\lockdown\[Instance locked down]\Uninstall
- Also offers silent install option

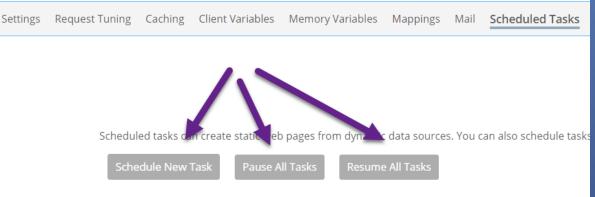
NEW AUTO LOCKDOWN TOOL (CONT.)



- Previously could do only in CFSCHEDULE
- ► Related changes for CFSCHEDULE

Cf Adobe ColdFusion (2018 Release) Developer

Server Settings



Server Level Scheduled Tasks

Actions	Group	Task Name	Duration	Interval
✓ × 11 3	default	test	Mar 5. 2019 - INDEFINITELY	2 mins 0 secs

- ► Maybe you're not an administrator, or don't install/configure CF often
 - ► The next several sections may appeal more to developers ☺

PAUSING SCHEDULED TASKS, FINALLY



PERFORMANCE IMPROVEMENTS, AND NEW MONITORING TOOL (PMT)

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- ► CF2018 offers several performance improvements
 - ► See CF2018 Performance Whitepaper, and my part 3 blog post for more

PERFORMANCE IMPROVEMENTS



► New monitoring solution for CF2018

- Substantial tool, really worthy of an entire talk, indeed multiple talks
- Screen below is just one of dozens, covering many things
- See my links doc for MUCH more: downloading, configuring, launching. using



PERFORMANCE MONITORING TOOLSET (PMT)

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DEVELOPER FEATURES



- CF2016 had added new command-line interface (CLI)
 - Accessed using cf.bat or cf.sh in cfusion/bin folder, pointing to a file
- ► CF2018 adds true REPL (read-eval-print-loop)
 - Use cfscript at command line (started via same cf.bat / .sh)
- ► CF does **not** even need to be running
- Output gets auto-printed to the console when typing...
 - ► an assignment, a function, or an expression evaluating to some value
- Consider also Commandbox (open source CF CLI, REPL and more)

NEW CFML REPL

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► On topic of "trying out" code easily, consider Adobe's **CFFiddle.org** site

- ► Can choose to run CF2018 or CF2016; save scripts to share with others, and more
- ► Useful way to get started with "trying out" CF2018, without installing it
- Updated last year to no longer require login
- CF docs are being enhanced to leverage this for "live docs"
- Consider also a long-existing similar service: trycf.com

CONSIDER ALSO CFFIDDLE



► Somewhat along the same lines...

- ► The CF2018 REST playground is a new way to work with CF REST services
 - ▶ Web app bundled with CF Admin, to help visualize, test, and debug them
 - ▶ Works with all REST apps registered to CF, and can be used to add REST apps to CF

POST						
Headers Parameters Body Description						
Accept	application/xml \times application/json \times		ê			
name	Jackson Pollock	•	1			
artprice	25000	•	1			
			Send			

REST PLAYGROUND



Can be launched from CF Admin "REST Services" page

- Or via URL as <hostname>:<port>/restplay (via CF's built-in web server only)
- ► Does require "developer profile" feature (added in CF2016) to be enabled

REST PLAYGROUND (CONT.)



► Finally, still another way to facilitate development with CF: Docker images

- ► If you didn't know, Adobe has released Docker images since CF2016
- They've been updated for CF2018 (and with each of its updates)
- Let's move on to language feature gems

CONSIDER CF DOCKER IMAGES



LANGUAGE CHANGES



- New language features
- New OO language features
- ► New CFML functions
- New member functions
- Changed language features
- ► Many of these were covered in keynote, other sessions here
 - ► So I will just list them, not demonstrate each of them
 - Again, see my links document (with slides at carehart.org/presentations)

SEVERAL CATEGORIES

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Null support (can be optionally enabled)

- ► Async feature
- Enhanced support for new operator (for CFCs, Java, web svcs, more)
- ► Semi-colon optional
- Named parameters
- Closures in tags (previously only in script)

NEW LANGUAGE FEATURES



Abstract CFCs & Methods

- Subtyping/covariant method return types
- ► Final variables, methods, components
- Default functions in interface

NEW OO LANGUAGE FEATURES



ArrayFirst, ArrayLast

- QueryDeleteColumn, QueryDeleteRow
- CacheGetEngineProperties
- ► RunAsync
- ► StructIsOrdered

NEW CFML FUNCTIONS

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Too many to list, but new functions for:

- query objects
- ► array objects
- ► xml objects
- ► async objects
- ► numeric objects
- date objects
- As well as changes to some existing member functions

NEW MEMBER FUNCTIONS



- Member functions can now be chained
- Arrays can be sliced
- New control for CF's auto-return of generated primary keys
 - Previously controllable only at DSN level, now at code level
 - cfquery attribute disableAutoGenKeys
 - queryexecute, via disableAutoGenKeys in queryOptions struct
- cfchart adds support for responsive client-side charts
 - Can specify height and width in percentages

CHANGED LANGUAGE FEATURES



- Array and string enhancements
 - ► Typed arrays
 - Array negative indexes
 - Array slices
 - Member functions now supported for string literals
- Datatype preservation: inferred at compile time, rather than runtime
 - New jvm arg to disable that
- Developers can of course leverage the new caching options discussed previously in Admin gems
- ...and that's it for language enhancements

CHANGED LANGUAGE FEATURES (CONT.)

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COMPATIBILITY ISSUES



► See:

- helpx.adobe.com/coldfusion/deprecated-features.html
- ► Lists some features as *deprecated* (still exist, but should not be used)
 - Most are things rarely used by most anymore (COM, DCOM, etc.)
- Does deprecate older cfc-based approaches to script tag equivalents
 - CF11 introduced a new more standard way to call any tag as script
- Also concept there of "unsupported" or "removed"
 - Only thing "removed" in CF2018 is old CF Enterprise Server Monitor
- New concept: "retired" (feature not enabled by default)
 - Some may be things rarely used by most (flash remoting, flash-based UI elements, xml forms, blazeds, lcds, AIR, CF actionscript functions, CORBA, portlets, etc.)
 - Some you may use: UI tags (more on that in a moment)

DEPRECATED FEATURES



▶ Page also lists things as "removed since 11", which worked in 2016, but no longer do

- 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

DEPRECATED FEATURES (CONT.)



- Among things listed as "retired" are UI tags based on YUI javascript library
 - Includes these tags:
 - cfmenu, cftree, cftooltip, cfcalendar, cfinput (autosuggest attribute), cfinput (sourcefortooltip attribute)
 - ▶ These will not work out of the box with 2018, but you can "enable" them
 - ▶ was also true as of CF2016 update 3 and per installer starting in Dec 2016
- ► To re-enable these, you just copy needed YUI library files back into CF
 - See bottom of deprecated features page

► Note: some compat-related things are NOT documented there...

DOCUMENTED ISSUE: YUI-BASED TAGS

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- Watch out: newly reserved words (discussed on another page in docs)
 - ► As part of the new OO support: **abstract**, **function** and **final**
 - 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\aop\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
- ► Potential trap...

NEWLY RESERVED WORDS



- Also, though not listed on those pages, I found also that:
 - 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

- Curiously, undocumented abbreviations like just "integer" DO still work!
- And both type of abbrevations work in queryexecute use of queryparams, for instance:
 - queryexecute ("select * from art where artid=:id",{id="1", cfsqltype="CF_SQL_Int"},{datasource="cfartgallery"})
- Query of query no longer supports ordinal on order by
 - See AustinValley post: coldfusion.adobe.com/2021/09/ordinals-no-longer-support-query-query/
- cfsocialplugin failed if width attribute specified

UNDOCUMENTED CHANGES?

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▶ Beware: CF2018 changed caching so that region names are app-specific

- Could also lead CF2018 to use more heap, in some situations
- ► See my comments at CF tracker: CF-4203636
- Related to all this, let's talk about other migration issues...

UNDOCUMENTED CHANGES (CONT)?



▶ With each version, there may be compat issues depending on your starting point

- ▶ If you jump to 2018, skipping CF2016, 11, or 10, there are compat issues each had
- ► I've discussed these more in my "hidden gems" talks for each past CF version
 - carehart.org/presentations
- ► Here's a quick review of key compat features for each...

COMPATIBILITY/MIGRATION ISSUES



- ► CF 10 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)
- ► Again, these issues would apply to you on move to CF2018 skipping CF10/11/2016

CF 10 COMPATIBILITY/MIGRATION ISSUES



- ► As for CF11, more compatissues than in CF10 or 2016
- ► 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)
- CFCHART removed use of XML to configure charts--now must pass json
 - Tool to help: cfusion/bin/cfchart_xmltojson (bat/sh)

>...

CF 11 COMPATIBILITY/MIGRATION ISSUES



- 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 <u>ARE now available in Standard</u>
 - 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

CF11 COMPATIBILITY/MIGRATION ISSUES (CONT.)



► Bad news: CF11 Update 3 re-enabled long-dormant CFProcparam DBVARNAME

- ▶ 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 <u>NOT supported in CF2016 and</u> <u>above</u>
- blogs.coldfusion.com/coldfusion-11-and-dbvarname-attribute/
- Again, these issues would apply in move to CF2018, if skipping 11 and 2016

CF11 COMPATIBILITY/MIGRATION ISSUES (CONT.)



- CF2016 compat Issues are very few
 - CFCollection ignores PATH attribute, uses path defined in CF Admin
 - MS Access: workarounds from 10/11 to enable it no longer work
 - ► The aforementioned removal of YUI, spry, portlets libraries in CF2016 Update 3
- ▶ But see also licensing changes in the EULA about cores, VMs, and staging/test
- As for that point about staging/test
 - Since CF9, we could use a production license in a test, staging, or central dev instance
 - CF2016 EULA (Section 3.2) seems to read that for each Enterprise license bought, you can use it that way; but for Standard, it's only if two licenses have been bought
 - Developer *edition* remains free, of course
- ► These issues would apply to you on move to CF2018 skipping 2016
 - Clearly, CF11 had more compatissues either than 10 or 2016

CF2016 COMPATIBILITY/MIGRATION ISSUES



► See also known issues discussions in CF2018 release notes, and in each update

- We will discuss CF2018 updates shortly
- Recall the new datatype inference at compile time, which can be disabled

OTHER COMPAT ISSUES

- ▶ The PMT (monitoring tool) should have zero impact on CF, of course
- But there was one issue affecting cfthread processing
 - ► This was fixed by an update to the PMT, with CF2018 Update 2
 - But you must apply that update manually! More later
- Some have complained of "blank pages", which they feel is fixed by setting "heartbeat interval" (in wsconfig, for PMT) to 0

UNEXPECTED PMT PROBLEMS



OTHER HIDDEN GEMS



► Just a few areas remain...

- Updates to underlying libraries' versions numbers
- What's new in Standard vs Enterprise
- Pricing, licensing, end of life/support
- ► CF Builder 2018 enhancements
- Updates to CF2018 since initial release

OTHER HIDDEN GEMS



- Antisamy 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)
- Jetty 9.3.6 (underlies Solr and PDFg)

- JDBC Drivers 5.1.4 (the built-in Progress DB drivers for SQL Server, Oracle, etc. CF no longer includes the MySQL-provided driver built-in)
- 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)

See later discussion of further version changes, per CF updates

UPDATES TO SOME UNDERLYING LIBRARIES' VERSIONS NUMBERS

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- Only thing <u>new</u> that is Enterprise-only is distributed caching
 - redis and memcached options
 - Again, Standard support long-standing ehCache and the new JCS option
- ► The CF2018 perf. whitepaper also 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: <u>I am NOT saying these are ONLY difference between</u> <u>CF2018 Standard and Enterprise</u>
 - I'm saying these are only things <u>NEW</u> in 2018 that <u>ARE</u> 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)

And what if you may still want to buy CF2016 only?





► First, can no longer access CF2016 installers on Adobe public CF 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 then request "backward license" to CF2016
 - blogs.coldfusion.com/post.cfm/adobe-coldfusion-backward-licensing
- ► Good news: if CF2016 bought from a reseller, that CAN be backward-licensed

WHAT IF YOU STILL WANT CF2016?



► When does public support (providing updates) end, for each recent version?

- ► For CF2018, in 2023
- ▶ For CF2016, in 2021
- ► For CF11, in Apr 2019

END OF LIFE/SUPPORT OF VERSIONS



- ► No real difference from CF2016
- ► More:
 - adobe.com/content/dam/acom/en/legal/licenses-terms/pdf/ColdFusion.pdf
- ...ok, onto last changed "feature": what about CFBuilder 2018?

LICENSING ISSUES (EULA)



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



- 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
- CFBuilder 2018 update 1 released along with CF2018 Update 2
 - Includes many bug fixes, updates Eclipse to SimRel (https://wiki.eclipse.org/SimRel/Overview)
 - Incorporates Builder aspects of Update 2 changes, related to mobile dev and PMT profiler
 - helpx.adobe.com/coldfusion/kb/coldfusion-builder-2018-update-1.html

CFBUILDER 2018 IMPROVEMENTS (CONT.)



► Finally, let's talk about CF 2018 updates

- ▶ Update 1 released in Sep 2018
- ▶ Update 2 released in Feb 2019
- Update 3 released in Mar 2019
- We will address these in reverse chrono order

WHAT'S CHANGED PER CF2018 UPDATES?

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- Update 3 primarily only addressed an urgent security alert
 - ► More details in links offered in my links document

UPDATE 3 (MAR 2019)



- Like most updates, Update 2 adds important security update (priority 2)
 - Also, important bug fixes in security, language, core runtime, document management, AJAX, and more
- But also adds much more than just bug fixes and security patches
- ► To start, again update 2:

> ...

- adds support for Java 11 (CF2018 originally came on Java 10)
- offers a macOS installer for Server Auto-Lockdown
- ▶ Web server connector is updated (from version 1.2.41 to 1.2.46)
 - Can use "upgrade" button in wsconfig UI to update the connector

UPDATE 2 (FEB 2019)

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► Update 2 also adds new platform support:

OS's	Application Servers	Web Servers	Databases	External Services
 Windows Server 2019 Solaris 11.3 OSX 10.14 	• WildFly 14.0 • WebSphere 9.0.0.9	• Apache HTTPD 2.4.37	 Oracle 18c PostGreSQL11 IBM DB2 v11.1 Apache Derby- 10.14.2 	 Microsoft Exchange 2016 Microsoft SharePoint 2016

- Adds new features in PMT (and fixes https and PMT issues)
 - helpx.adobe.com/coldfusion/performance-monitoring-toolset/performance-monitoring-toolsetupdate-1.html
 - coldfusion.adobe.com/2019/03/running-cf-2018-pmt-manually-applied-recent-update/
- ▶ Now, let's move on to language-oriented changes in update 2 ...

UPDATE 2 (CONT.)

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- Adds new create and modify actions for cfschedule action
 - Previously, we used action="update" to add OR update a task
 - Create is ONLY to add a task, and will fail if it exists
 - Modify action is ONLY to modify, will fail if it does not exist
- Adds new cfloop as script, as alternative to traditional script looping
 - ► For looping over query, array, list, or struct
 - ► Live demo:

- cffiddle.org/app/file?filepath=368f3754-a8d7-42b3-b385-0bd7db9fddef/d9a31ed2-7c4d-4df0-9e15-95059f170c77/038514fc-f536-4b25-bad4-3c94e2f58674.cfm
- See update release notes link for more
- Adds calendar arg to dayofweek function ("Gregorian" or "ISO")
- Adds new capabilities to mobile development (which came out in CF11)

UPDATE 2 (CONT.)



- Also updates some library versions:
 - ► Jetty 9.4.12

> ...

- ExtJS 6.6.0.258 for AJAX UI components
- ► JPedal 8.6.2 for Document Management
- PDFgServlet 9.4.12
- ► Again, the PMT gets an update with update 2, to be applied manually
- Remember also extra step for update, if autolockdown is applied
 - See update release notes for more

UPDATE 2 (CONT.)



- CF2018 Installer refreshed, when Update 2 was released
 - Includes update 2 as well as java 11.0.1
 - Still incumbent on you to update to update 2, or Java 11.0.2, or later
- Also makes some small changes
 - CF Admin debug ip addresses page adds "::1" (ipv6 version of 127.0.0.1, already there)
 - Preconfigures packetSize="65535" for AJP connector in server.xml (previously not there)
- You can tell version, at least of Windows installer, by file "properties"
 - Whose "details" tab shows "file version" of 2018.0.2 or new, 2018.0.0 for original
- coldfusion.adobe.com/2019/04/refreshed-cf2018-installer-includes-java-11/
- ▶ ...Finally, onto what update 1 had introduced...

INSTALLER REFRESHED



- ► Update 1 added only one new "feature"
 - New GetCanonicalPath function
 - Was also added to CF2016 and 11 per their updates released at the same time
 - Bug fixes
 - Tomcat updated to 9.0.10
- 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
 - Instead, use "updates" icon/menu item on bottom left of Admin
- ► Still other things to be aware of about update 1...

UPDATE 1 (SEP 2018)



- 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.)

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- Lists of updates, links to technotes, and offers jar download links
 - helpx.adobe.com/coldfusion/kb/coldfusion-2018-updates.html
- ► Also available for CF 2016, 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_upd ates_in_10_and_above
 - coldfusion.adobe.com/2019/03/problems-applying-cf-update-check-first/

...we're almost done...

SINGLE PAGE LISTING ALL CF2018 UPDATES

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Note that CF Docker images are also updated with each update

- bintray.com/eaps/coldfusion/cf:coldfusion/#release
- And that...is...it!

ADOBE CF DOCKER IMAGE UPDATED

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- ► So, lots of changes, right?
 - I count nearly 100 (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)
 - Slides, <u>links document</u>, blog series: carehart.org/presentations

SUMMARY