HIDDEN GEMS IN COLDFUSION 2025



- Charlie Arehart, Independent Consultant
- ► CF Server Troubleshooter
- charlie@carehart.org
- @carehart (Slack, Github, X, FB, LinkedIn, etc.)

► Updated Mar 25, 2025

Slide deck: carehart.org/presentations



- ► CF2025 released Feb 2025 (indeed, 2/25/25—how about that?)
 - Despite what you may hear, many new features—and many hidden gems!
- ▶ And this talk will NOT cover ALL that's new in CF2025
 - ▶ Will point to many resources (docs, blog posts, videos) with more detail
 - ▶ Also, other sessions in today's CF Summit East cover some topics in more detail
- ► Again, slides for talk available online:
 - carehart.org/presentations
 - ▶ Because we have only 40 mins, I've cut out about 20%
 - All slides available in the PDF





- ► Installation/deployment
- ► Admin/config gems
- ► Language/coding hidden gems
- ► Compatibility/migration issues
- ▶ Various other considerations/gems



- ▶ I 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, online calendar, etc at carehart.org/consulting
- ▶ But to be clear, I'm not selling anything in this session! ©



- Docs are substantial, and nearly all have demo code!
 - Adobe has also offered blog posts, videos on CF2025 before and since release
 - ▶ I'll mention some at key points and list all at the end
- ▶ Key resources point to still other resources on the new release
 - helpx.adobe.com/coldfusion/using/whats-new.html
 - community.adobe.com/t5/coldfusion-discussions/now-live-adobe-coldfusion-2025release/td-p/15176421
 - carehart.org/blog/2025/2/25/coldfusion_2025_released

FINDING MORE ABOUT CF2025

INSTALLATION/DEPLOYMENT

- ► As always, CF2025 offers multiple installation/deployment options
 - Full/GUI installer (with optional silent install)
 - helpx.adobe.com/coldfusion/installing/installing-the-server-configuration.html
 - Zip installer option (was new for CF2021, also with optional silent install)
 - ▶ helpx.adobe.com/coldfusion/user-guide.html/coldfusion/using/install-coldfusion-2021.ug.html
 - ▶ JEE/WAR deployment
 - helpx.adobe.com/coldfusion/installing/installing-the-jee-configuration.html
 - ► Commandbox: adobe@2025
 - ► As well as ...

INSTALLATION OPTIONS

- Docker/container deployment (2025 images available)
 - ▶ Including images for CF, CF Add-ons (Solr, PDFg), PMT, and API Manager
 - ► helpx.adobe.com/coldfusion/using/docker-images-coldfusion.html
 - carehart.org/presentations/#cf_docker_images_evolving
 - github.com/carehart/awesome-cf-compose
 - ► More in a moment on CF2025 container improvements
- ► CF AMIs not available yet (as they are for CF2023, 2021), but when they are:
 - ► AWS AMI's for CF2025 (for Windows, Linux)
 - ▶ aws.amazon.com/marketplace/search/results?searchTerms=coldfusion
 - Azure VMI's (VM Images) for CF2023 (for Windows, Redhat, Ubuntu, AlmaLinux)
 - ► azuremarketplace.microsoft.com/en-us/marketplace/apps?search=coldfusion

INSTALLATION OPTIONS (CONT.)

- ► Full/GUI installer
 - ▶ In the step for "select profile":
 - Now lets you enter an allowed ip address (for admin) for any profile (i.e., dev or prod)
 - Previously only editable if you picked "Production+Secure" profile
 - Now offers reminder that wsconfig must be run after install
 - ▶ Until about CF2016, installer would ask if you wanted to configure web server
 - ▶ Then it just disappeared from the installer. This change at least gives heads-up
- ▶ Both of these are things I lobbied for (created enhancement request for)

INSTALLATION "GEMS"

ADMIN/CONFIG GEMS

- Can now easily enable use of https for CF Admin (i.e., for CF built-in web server)
 - Can also disable http (to require use of ONLY https)
- In CF Admin, see Server Settings button on left, then SSL Certificate in top menu
- Can create self-signed cert using "create" option offered
 - ► Can leave "Distinguished Name" as default of CN=localhost
 - Enter a 6-char "password", and for "certificate name" could enter "localhost.jks"
 - Note that you MUST end the name with jks (as error message will tell you, otherwise)
 - ▶ This creates file with that name in the cfusion/runtime/conf folder
 - ▶ Then restart CF, and visit admin using https://localhost:8443/CFIDE/administrator
 - Accept browser challenge for "net::ERR_CERT_AUTHORITY_INVALID" (being a self-signed cert)
- More:
 - coldfusion.adobe.com/2025/03/different-ways-of-enabling-ssl-for-coldfusion-administrator-running-on/internal-coldfusion-port-for-coldfusion-2025/

EASIER ENABLING OF ADMIN USING HTTPS

- Java&JVM page now shows path to jvm.config file that this page reads/changes
 - ▶ Helpful for those not familiar with where to find it!
 - And needed especially if a jvm config change leaves CF unable to start!
- ▶ This is another thing I filed enhancement request for ©
 - ▶ Not bragging: encouraging you to do the same
 - Tracker.adobe.com (choose to "add bug" or "request feature")

OTHER ADMIN "GEMS"

- Various pages/settings removed, related to CF feature removals (discussed later)
 - ▶ For example, "Allowed IP Addresses for Exposed Services" removed
 - ▶ But also...
- "System Probes" feature removed
- License scanner feature page (and startup/logging feature) removed
 - ▶ Detected if current instance's serial number was used on other machines in network
 - ▶ No longer needed with new licensing activation mechanism added in CF2021

ADMIN "REMOVALS"

- Startup time improvements: as much as 60-70% reduction compared to CF2023/2021
 - ▶ No longer does CF restart on detection of config arguments
- Added support for container secrets and configs
 - Useful even if not using Docker Swarm
- New support for CCS within container (central config server feature, new in cf2023)
- Significantly Improved docker image docs
 - Many new sections: new env vars for 2025, ccs use, config precedence, ccs
 - helpx.adobe.com/coldfusion/using/docker-images-coldfusion.html
- Several important bug fixes
- More
 - What's new in containers (Adobe prerelease video)
 - youtube.com/watch?v=AG4MFnrwXTE&list=PL3iywAijqFoUG3eRXeE2RHZ8OaekGpjtl

IMPROVEMENTS IN CF CONTAINERS

- Several performance improvements, at engine level (thus benefiting code)
 - Faster spreadsheet processing/streaming
 - Compile time
 - Query of queries
 - Charting
 - CF and container startup
 - ► Structures
- ► Performance whitepaper to come
- ► More:
 - Performance Enhancements (Adobe prerelease video)
 - youtube.com/watch?v=qJ8_ZZmF-5M&list=PL3iywAijqFoUG3eRXeE2RHZ8OaekGpjtl

PERFORMANCE ENHANCEMENTS

- ► ColdFusion API Manager was introduced with CF2016
 - Always required CF Enterprise license to be used to install it
 - As of CF2025, it now does not require ANY CF license key/serial number!
- ► API Manager was (and remains) a powerful tool for managing/publishing APIs
 - Whether they run in CFML or not!
- Can add access control, versioning, rate limiting, caching...
 - As well as API documentation, analytics, metrics, SLAs, and more
- More on this (substantial docs):
 - ► helpx.adobe.com/coldfusion/api-manager/coldfusion-api-manager-overview.html
 - youtube.com/watch?v=ITm4S2yXMN0
 - youtube.com/playlist?list=PL3iywAijqFoXGsIZXU3I2YV1N7MH-HiIU

API MANAGER IS NOW FREE

- ► As some may know, there have been various CF "jvm args" (technically "system properties") that could be used at CF startup to control various things
- Good news is that there is now a docs page listing these (many/most/all?)
 - helpx.adobe.com/coldfusion/using/jvm-arguments-coldfusion-2025.html
 - That's a hidden gem itself!
- ▶ Note there is only one new arg in 2025:
 - -Dcoldfusion.datasource.blocked.properties
 - With optional values: allowLoadLocalInfile, allowUrlInLocalInfile, autoDeserialize
 - Prevents use of those in connectionstring (when adding/editing a datasource)

NEW JVM ARG/SYSTEM PROPERTY

LANGUAGE/CODING HIDDEN GEMS

- Powerful new processing of CSV files (read, write, process)
- Spreadsheets (fine-grained formatting control, "streaming" spreadsheets, more)
- Charts (chartsets, themes, groups, clustering, new chart types, svg charts, more)
- ► More on these (beyond docs, language reference):
 - ▶ Adobe CF github repo with demonstration code: github.com/adobe/coldfusion
 - Spreadsheets & CSV Processing (Adobe prerelease video)
 - youtube.com/watch?v=7GUNmO0fBaA&list=PL3iywAijqFoUG3eRXeE2RHZ8OaekGpjtI
 - Unleash the power of Revamping CFCharts for modern applications
 - ▶ youtube.com/watch?v=W06xW8RZRLE&list=PL3iywAijqFoUG3eRXeE2RHZ8OaekGpjtI
- ▶ And also another "major" feature ...

MAJOR CHANGES PROMOTED

- Support for MS "Entra", "Exchange Online" via Graph API (not related to GraphQL)
 - ▶ **CFOauth** adds **type="Microsoft"**, and new **grantType** attribute
 - New functions: getOauthAccessToken(), GetMSGraphServiceClient()
 - cfexchangeconnection tag adds new access_token attribute
 - Changes behavior in some cfexchangeXXX tags (see docs on each)
- More:
 - ► helpx.adobe.com/coldfusion/using/ms-graph-user-store-coldfusion.html
 - helpx.adobe.com/coldfusion/cfml-reference/coldfusion-tags/tags-m-o/cfoauth.html
 - ► coldfusion.adobe.com/2025/03/cloud-user-lifecycle-management-in-coldfusion/
 - ▶ coldfusion.adobe.com/2025/03/transitioning-exchange-online-integration-to-microsoft-graph-api-in-coldfusion/
 - Microsoft Graph Integration in ColdFusion: Unlocking data with Oauth (Adobe prerelease video)
 - ▶ youtube.com/watch?v=jspE0gQtvgo&list=PL3iywAijqFoUG3eRXeE2RHZ8OaekGpjtl
- ...now, on to "hidden gems" ...

CHANGE REGARDING MICROSOFT AUTHENTICATION

- ▶ New parameter, loadPaths
 - Allows naming of location for Java libraries (JAR files) or class files at runtime
 - CF10 had added application-level support (e.g., this.javasettings.loadpaths)
- ▶ Yes, Lucee has had this code-level ability for years. Now we do also!
 - Cat and mouse game: CF2025 supported Java 21 and Tomcat 10 before Lucee :-)
- ► More:
 - ► coldfusion.adobe.com/2025/03/language-enhancements-in-coldfusion-2025-release-2/

NAMING JAR PATH ON CFOBJECT/CREATEOBJECT

- ▶ Not to be confused with "safe navigation" (?.) or "elvis" (?:) operators
 - > ?. used to return empty value, such as if a key in a struct doesn't exist: foo?.bar?.baz
 - ?: used to SET a default/fallback value instead: foo?.bar?.baz ?: "fallback value"
- > ?? returns right-hand side operand when left-hand is null or undefined
 - Otherwise, returns left-hand side operand
- ► Other related changes:
 - Elvis and ternary operators are now failsafe
 - ► Elvis operator uses Truthy values
 - ▶ Byte-code generation is optimized, reducing classes per Elvis operator
- More:
 - coldfusion.adobe.com/2025/03/language-enhancements-in-coldfusion-2025-release-2/
 - helpx.adobe.com/coldfusion/developing-applications/the-cfml-programming-language/usingcoldfusion-variables/data-types-developing-guide.html#nullcoalescing

NEW "NULL COALESCING" OPERATOR (??)

► Simplifies code (in cftry/cfcatch or try/catch):

```
try {
    // Code that might throw exceptions
}
catch (IOException | SQLException e) {
    writeOutput("An Exception occurred: " & e.message);
}
```

- ► More:
 - coldfusion.adobe.com/2025/03/simplifying-error-handling-in-coldfusion-handle-multipleexceptions-in-a-single-catch-clause/
 - ► coldfusion.adobe.com/2025/03/language-enhancements-in-coldfusion-2025-release-2/

SUPPORT FOR MULTIPLE EXCEPTION TYPES IN A SINGLE CATCH

- ▶ Trailing commas allowed where comma-separated list of values are provided...
 - ▶ Helps when more values "might" be added later in code, but maybe not
- Example (note last element):

```
array = [
"One",
"Two",
"Three",
];
```

- Supported in arrays, structs, function arguments / function calls, array/object "destructuring"
- ► More:
 - ► coldfusion.adobe.com/2025/03/trailing-commas-in-coldfusion/
 - ▶ coldfusion.adobe.com/2025/03/language-enhancements-in-coldfusion-2025-release-2/

SUPPORT OF "TRAILING COMMAS"

- ► Content-Security-Policy (CSP): browser security mechanism
 - Allows restriction on how resources are loaded
 - Disables inline is and css by default
- To allow, must use "CSP header" and random "nonce" (number used once)
 - ► CF2025 adds such CSP/nonce support, which can be enabled either:
 - ► In CF Admin (Server Settings page checkbox)
 - in application (as this.enableCspNonceForScript in application.cfc or via cfapplication)
 - At request level, via getCSPNonce()
- More:
 - ► content-security-policy.com
 - helpx.adobe.com/coldfusion/cfml-reference/application-cfc-reference/application-variables.html
 - ► helpx.adobe.com/coldfusion/cfml-reference/coldfusion-functions/functions-e-g/getcspnonce.htm//

SUPPORT FOR CSP / XSS PROTECTION

- ▶ Duplicate() now offers "deepcopy" arg: if false, does not do traditional deep/copy-by-value
- deserializeJSON() offers new preserveCaseForStructKey
- ► Compound assignments: do math and assign result (+=, -=, *=, /=, and %=)
 - x = 2; x += 3; // result is x=5
- New cacheMaxIdleTime for cfquery/queryexecute/cfstoredproc caching
- ▶ Query of queries changes: Bitwise operator support, modulus operator
- directorylist(): filter callback feature enhanced to return data for row being filtered
- ▶ getTimeZoneInfo(): optional timezone and/or locale args return info for there
 - ► Otherwise uses local system/jvm-specified timezone
- Enhancements to "destructuring" capability (added in CF2021)
- Enhancements to cfdump/writedump of java objects
- **...**

MANY OTHER LANGUAGE CHANGES

- hash() offers new outputEncoding arg
- ▶ listSort() offers new includeEmptyFields arg for callbacks
- final static methods now supported
- ▶ javacast() supports multi-dimensional arrays
- arrayInsertAt() can now insert into an empty array
- cffileupload now offers a continueOnError attribute
- ► New functions: structValueArray()
 - getPropertyFile(), getPropertyString() / setPropertyString()
- More:
 - ► helpx.adobe.com/coldfusion/using/whats-new.html#other-language
 - ▶ coldfusion.adobe.com/2025/02/language-enhancements-in-coldfusion-2025-release-part-1/
 - ► coldfusion.adobe.com/2025/03/language-enhancements-in-coldfusion-2025-release-2/
 - Smart language additions in ColdFusion (Adobe prerelease video)
 - youtube.com/watch?v=D-Vzj4nS4Fc&list=PL3iywAijqFoUG3eRXeE2RHZ8OaekGpjtl

MANY MORE LANGUAGE CHANGES (CONT.)

COMPATIBILITY/MIGRATION ISSUES

- ► Many "old" language elements and features removed finally in CF2025
 - Most things have been marked for removal ("deprecated") for many releases
 - Some are removed for sake of security, or due to changes forced by libraries
- ▶ Some may affect few people/little code, while others may affect many/much
 - ▶ Just depends on whether you (or past coders) use/used these things
- Not so much "gems" as potential "traps"

...

SUBSTANTIAL REMOVALS FROM CF2025

- ▶ UI Tags based on YUI toolkit cftree , cfcalendar , cfmenu , cfsprydataset
 - Unlike in previous releases, you cannot "add back" their support
- cfinput autosuggest and related attrs, as well as passthrough, sourcefortooltip
 - Consider jquery alternatives and the like. See static.raymondcamden.com/cfuitherightway/
- ▶ cfmediaplayer
- ► Axis1 web services (publishing or consuming): defaults now to Axis2 instead (added in CF10)
- COM support
- cftable and related tags (cfcol, etc.)
- Mobile features (cfclient, etc.)
- XML Forms
- Flex/flash features
 - ► Event gateway features: DataManagement, DataServicesMessaging, FMS
 - ► CFChart flash format, cffileupload flash feature

TAGS/FEATURE SETS REMOVED

- Some important removals of CFML functions
 - parameterExists() will now get "Variable PARAMETEREXISTS is undefined" use isdefined()
 - ► HTMLEditFormat() use encodeforhtml() instead
 - getTemplatePath() Use getCurrentTemplatePath()
- Other generally little-used features
 - cfapplet
 - certain attributes of some tags
- All documented here: helpx.adobe.com/coldfusion/deprecated-features.html
- ► More:
 - coldfusion.adobe.com/2024/12/important-notice-upcoming-deprecations-and-removalsin-coldfusion-2025-release/
 - community.adobe.com/t5/coldfusion-discussions/important-notice-upcomingdeprecations-and-removals-in-coldfusion-2025-release/td-p/15034185

FUNCTIONS REMOVED, RESOURCES

- CFCs that supported "tags as script", before CF11 enabled "all tags as script"
 - Might see it as new query() ... or createObject("component", "query")
- ► CF9 had added: query, storeproc, http, mail, http, ftp, pdf
 - ► CF9.01 added: pop, ldap, imap, feed, dbinfo
 - ► CF10 added: collection, index, search
- ► The CFCs were previously found in \cfusion\CustomTags\com\adobe\coldfusion
- Related "service-layer CFCs" also removed (for calling these from outside CF)
 - Previously in \cfusion\wwwroot\CFIDE\services
- More:
 - helpx.adobe.com/coldfusion/deprecated-features.html
 - helpx.adobe.com/coldfusion/cfml-reference/script-functions-implemented-as-cfcs.html
 - ► helpx.adobe.com/coldfusion/cfml-reference/script-functions-implemented-as-cfcs/script-functions-implemented-as-cfcs-in-coldfusion-9-update-1.html

ALSO REMOVED: TAGS AS CFCS, SERVICE-LAYER CFCS

- ▶ For decades, CFML templates could be "encoded" to obfuscate code
 - Done using cfencode tool in cfusion/bin
 - Was called cfcrypt originally, but was never "encryption" so was renamed
- ▶ In CF2025, not only has that cfencode tool been removed...
 - ▶ But so has the ability to RUN such encoded templates! Will now get error:
 - "ColdFusion no longer supports files encoded with cfencode"
 - May seem disastrous to those who have "only the encoded templates", not source
- Good/bad news: there have long existed tools that could decode such files
 - github.com/disccomp/cfdecrypt
- ▶ As for FINDING any use of such encoded files:
 - ▶ do file search for string "Allaire Cold Fusion Template" or "Adobe Cold Fusion Template"

RÉMOVED: SUPPORT FOR CFÉNCODED TEMPLATES ("CFCRYPT")

- cfthread action="terminate" and ThreadTerminate() function removed
 - replaced with action="interrupt" and InterruptThread(), ThreadInterrupted()
 - Change forced by CF2025 running atop Java 21 (more on this later), which removed Thread.stop()

► More:

- coldfusion.adobe.com/2025/03/thread-interrupts-in-coldfusion/
- helpx.adobe.com/coldfusion/cfml-reference/coldfusion-tags/tags-t/cfthread.html
- helpx.adobe.com/coldfusion/cfml-reference/coldfusion-functions/functions-ink/interruptthread.html
- docs.oracle.com/javase/tutorial/essential/concurrency/interrupt.html

CHANGE IN CFTHREAD INTERRUPTION

- ▶ New things marked as "deprecated" (should not use) now in CF2025
 - CAR feature (use cfsetup instead, added in CF2021)
 - Sandbox Security feature
 - Use of MS Access and ODBC, DB2
 - Tomcat "Legacy cookie processor"
 - ssh-rsa algorithm in fingerprint attribute in cfftp
 - Event gateway features: SMS and SAMETIME
- ► More:
 - helpx.adobe.com/coldfusion/deprecated-features.html
- ▶ New policy for deprecation/removal process going forward:
 - deprecated items will now become unsupported in the next release
 - deprecated and unsupported items will be removed in release after that

ANTICIPATING FUTURE REMOVALS

- ▶ You may feel overwhelmed by all these changes...
 - "how will we ever find all these?"
- ▶ Note first that there is the CF Admin "Compatibility Code Analyzer"
 - ▶ Updated for CF2025
 - ▶ Even if "no admin access", you can run your own local copy of CF for free
 - Assuming you can point it to your code, of course
 - helpx.adobe.com/coldfusion/developing-applications/developing-cfmlapplications/debugging-and-troubleshooting-applications/using-the-code-analyzer.html
- Also, Pete Freitag/Foundeo offers Fixinator (commercial)
 - With new compatibility scanner (adding to its original goal of code security scanning)
 - More:
 - petefreitag.com/blog/coldfusion-compatibility-scan/
 - fixinator.app

ASSISTANCE WITH MIGRATION

- ▶ New features and removal of old features are important
 - But so also are bug fixes, if they may fix a problem you've suffered
- ▶ There are 192 bugs fixes included with CF2025
 - Some may have less-wide impact than others, of course
- ► All listed here:
 - ▶ helpx.adobe.com/coldfusion/release-note/coldfusion-2025-release-notes.html#bugfix

CF2025 FIXES HUNDREDS OF BUGS

- ▶ Issues from CF2023/2021 updates in March/June 2024, impacting cf2025
 - Change regarding searchimplictscopes (options for solving at code-, app-, jvm-level)
 - carehart.org/blog/2024/3/12/cf_updates_march_2024_possible_breaking_change
 - carehart.org/blog/2024/7/18/dont_miss_helpful_feature_identify_implicit_scopes
 - Change regarding default encryption algorithm for several functions
 - ► And cfmx_compat algo can NO LONGER BE USED in CF2025 and above (jvm arg ignored)
 - carehart.org/blog/2024/6/11/cf_updates_june_2024_possible_breaking_change
 - carehart.org/blog/2024/7/22/on_handling_jun_2024_cf_update_change_of_default_encrypt ion_algorithm

COMPATISSUES BROUGHT IN FROM CF2023/2021

- ► CF2021 introduced breaking change at release
 - changed dateformat() function's capital-D format value
 - ▶ "D" used to be regarded same as lower-case "d": day of month
 - Starting with CF2021, that "D" now means day of year!
 - Also affects datetimeformat(), etc.
- ▶ Matter remains unchanged in CF2023, 2025
- ▶ To revert behavior, use CF startup jvm arg:
 - -Dcoldfusion.datemask.useDasdayofmonth=true
 - Again, see my migration talk for more, as well as CF Docs on dateformat

AND A BREAKING CHANGE FROM CF2021

- ▶ Still other issues when **skipping CF2023** from 2021, 2018, or earlier
 - Will need to be aware of compat issues in those
 - ▶ And their impact will depend on how UPDATED that old release was, for you
- ▶ I've discussed these issues more in my past talks:
 - "Migrating apps to ColdFusion 2023 from earlier versions" (and 2021 version of talk)
 - ▶ My "hidden gems" talks for each past CF version
 - "Migrating or Comparing CF Admin Settings, between instances/versions/engines"
- Recordings and PDF slides for all these are at carehart.org/presentations

WHAT IF YOU'RE "SKIPPING" TO CF2025?

OTHER CONSIDERATIONS/GEMS

- ► CF2025 comes with Java 21.0.6 (latest as of Mar 2025)
 - ▶ Note that CF2023 ran on Java 17, while CF2021 and 2018 ran on Java 11
- ► Most JVM changes benefit only Java developers who change their code
 - More may eventually accrue to us as Adobe leverages them
 - ▶ One real possibility is use of Java 21's lightweight virtual threads, but not here yet
- Also, Java Security Manager has NOT yet been removed (only deprecated)
 - ▶ Is used by CF's Sandbox Security feature...which again IS now deprecated in CF2025

JAVA UPDATED TO 21

- ► CF2025 (as server or zip deployment) comes deployed on now Tomcat 10.1
 - CF2023 ran on Tomcat 9
- ▶ For now, CF2025 comes with Tomcat 10.1.34 specifically (from Dec 2024)
 - ▶ Not the **very** latest, which is 10.1.39, which came out this month (Mar 2025)
- ► Change to Tomcat 10 mostly inconsequential to CF developers, but not entirely:
 - coldfusion.adobe.com/2024/12/tomcat-upgrade-with-adobe-coldfusion-2025release-what-has-changed/
- As for a recent Tomcat CVE-2025-24813 causing concern among many
 - ▶ It does NOT affect us in CF, as CF is configured by default. For more, see:
 - petefreitag.com/blog/tomcat-writes-enabled

TOMCAT UPDATED TO 10.1

- ▶ Elephant in the room: some may feel I "buried the lede"...on CF licensing...
- ▶ Now subscription-only (no more perpetual license, from CF2025 forward)
 - Pricing is published online
 - ▶ \$760 USD / year for Standard (per 2 cores) at 63/mo that's cheaper than Google TV!
 - \$2930 USD / year for Enterprise (per 8 cores)
 - ▶ Basically about same price paid to buy CF every two years @ 50% upgrade discount
- ▶ Many people do **already** license CF on subscription basis, even before CF2025...
 - ▶ Those on AWS or Azure AMIs, those on ETLAs, those using CF hosting, etc.
- ▶ And doesn't affect those continuing to run on CF2023 or earlier
- ▶ Developer edition is also still free, of course!

MAJOR LICENSING CHANGE

- ▶ What about those already on support? Or who recently bought 2023?
 - ▶ Reach out to Adobe at cfinstal@adobe.com
- What if you want to buy CF2023 instead?
 - ▶ As before, can buy CF2025 and "backward license" to CF2023
- ► Are there still education discounts? Yes
- ► More on pricing, licensing, licensing models (NUL, FRL), more.:
 - carehart.org/blog/2025/2/25/coldfusion_2025_released#subscriptionchange
 - helpx.adobe.com/coldfusion/standard/faq.html (one for Enterprise also)
 - helpx.adobe.com/coldfusion/using/coldfusion-new-licensing-activation.html
- ▶ Finally, I find no changes to differences between Standard and Enterprise

PRICING, LICENSING, ETC. (CONT)

- ▶ When does public support (providing updates) end, for each recent version?
 - ► For CF2023, in May 2028
 - ► For CF2021, in Nov 2025
 - ► For CF2018, ended in July 2023
 - ▶ For CF2016, ended in 2021
 - ► For CF11, ended in 2019
- ► More:
 - helpx.adobe.com/support/programs/eol-matrix.html
 - carehart.org/blog/2025/1/9/coldfusion2021_end_of_life_nov_2025
 - carehart.org/blog/2023/1/26/coldfusion2018_end_of_life_july_2023

END OF LIFE/SUPPORT OF VERSIONS

- ► ICMY: did you know CFBuilder is now a VSCode extension? That's <u>free</u>?
 - ▶ Released in July 2022, in extensions marketplace as Adobe ColdFusion Builder
 - ▶ Prior Eclipse-based version of Adobe CFBuilder is EOL since 2023
- ▶ Updated version supports CF2025, new tags/attributes, functions, statements
 - ▶ Updatable within VS Code Extensions pane
 - ► Current version v1.0.701 (from Feb 26 2025)
 - ▶ Also Mark Takata has indicated substantial improvements in reliability, debugging, etc.
- ▶ More:
 - VS Code plugin changes (Adobe prerelease video)
 - ▶ youtube.com/watch?v=34MV0puVCzY&list=PL3iywAijqFoUG3eRXeE2RHZ8OaekGpjtI

CFBUILDER/VSCODE IMPROVEMENTS

▶ As of my writing this, there have not yet been any updates to CF2025

Finally, let's wrap up with quick overview of library and system support info...

COLDFUSION 2025 UPDATES OFFERED SINCE INITIAL RELEASE

- Antisamy 1.7.5 (OWASP security library)
- Avro 1.12 and Protobuf 3.25.5 (serialization options)
- Axis 2 1.2.1 (web services library)
- ► Bouncycastle 1.53 (security/encryption)
- Ckeditor 4.22.1 (underlies cftextarea)
- ► Ehcache 2.10.9.2 (caching library)
- ► ElasticSearch 7.17.5 (caching option, pmt)
- Ext JS 7.6.0.41 (JS library underlying various UI tags)
- ► Esapi 2.5.3.1 (OWASP Enterprise Security API)
- Hibernate 5.6.15 (ORM library)
- ► Httpclient 4.5.13 (underlies CFHTTP and more)
- ▶ Java 21.0.6 (the JVM which underlies CF)

- Jedis 4.4.6 (underlies Redis caching)
- ▶ Jetty 9.4.51 (underlies Solr and PDFg)
- jQuery 3.6.0 and jQuery UI 1.13.2 (JS library underlying various UI tags and Admin interface features)
- ► Log4j 2.20.0
- ► Lucene 8.11.1 (underlies Solr search engine in CF)
- PDFReactor 11.6.11 (new cfhtmltopdf engine)
- POI 4.1.2 (underlies MS Office Integration features)
- Quartz 2.4.0 (underlies schedules tasks)
- Solr 9.7.0 (embedded search engine for cfsearch)
- tagsoup 1.2 (html/xml parsing)
- Tomcat 10.1.34 (app server underlying CF, when deployed in traditional "Server" configuration)
- ► ZingChart 2.9.14 (underlies cfchart)

UPDATES TO SOME UNDERLYING LIBRARIES' VERSIONS NUMBERS

- ► MS SQL Server v2022, v2019
- ► MySQL 8
- ► Apache Derby 10.16
- ▶ And as provided in in CF Enterprise only:
 - ► PostgreSQL 16.3
 - ► Oracle 19c (LTS)
- ► Sybase support <u>removed</u> in CF2025
- ▶ Beyond "formal support", often older or newer versions may still work fine
- ► helpx.adobe.com/pdf/coldfusion2025-support-matrix.pdf
- ▶ See that for version support on DB-as-a-service: Azure, AWS, GCP

DATABASE VERSIONS SUPPORTED

- ► Again, what's FORMALLY supported as of CF2025
- Windows Server 2022/2019/2016 (Datacenter, Standard, Essentials)
- Windows 11/10 (Home, Pro, Enterprise)
- ▶ macOS 15 ARM, macOS 15 x64
 - Before launching CF installer dmg, run "xattr -rc" command against it
- ► Red Hat Enterprise Linux 9.5 & later
- ▶ Ubuntu 24 LTS
- ► SUSE 15.5 & later
- ► Solaris is <u>no longer supported</u> as of CF2025

OPERATING SYSTEMS SUPPORTED

- ► IIS 10
- ► Apache 2.4.62 & later
- ▶ JEE App servers
 - ► Tomcat 10.1.34
 - ▶ JBoss EAP 8
 - ► WildFly 35
 - ▶ WebLogic and WebSphere <u>no longer supported</u> as of CF2025

OTHER SUPPORTED VERSIONS

- coldfusion.adobe.com/2024/12/important-notice-upcoming-deprecations-and-removals-in-coldfusion-2025-release/
- ▶ coldfusion.adobe.com/2024/12/tomcat-upgrade-with-adobe-coldfusion-2025-release-what-has-changed/
- coldfusion.adobe.com/2025/02/language-enhancements-in-coldfusion-2025-release-part-1/
- coldfusion.adobe.com/2025/03/language-enhancements-in-coldfusion-2025-release-2/
- coldfusion.adobe.com/2025/02/revolutionizing-spreadsheet-csv-handling-in-coldfusion-2025-real-world-use-cases/
- coldfusion.adobe.com/2025/02/data-visualization-made-easy-with-cfchart/
- coldfusion.adobe.com/2025/02/oauth2-0-in-coldfusion/
- ▶ coldfusion.adobe.com/2025/03/simplifying-error-handling-in-coldfusion-handle-multiple-exceptions-in-a-single-catch-clause/
- coldfusion.adobe.com/2025/03/thread-interrupts-in-coldfusion/
- coldfusion.adobe.com/2025/03/trailing-commas-in-coldfusion/
- coldfusion.adobe.com/2025/03/cloud-user-lifecycle-management-in-coldfusion/
- ▶ coldfusion.adobe.com/2025/03/transitioning-exchange-online-integration-to-microsoft-graph-api-in-coldfusion/
- coldfusion.adobe.com/2025/03/different-ways-of-enabling-ssl-for-coldfusion-administrator-running-on-internal-coldfusion-port-for-coldfusion-2025/
- ▶ coldfusion.adobe.com/2024/05/thread-management-with-jdk21-whats-changing-and-features-to-look-forward-to/

RESOURCES: ADOBE ARTICLES ON 2025

- ▶ Adobe ColdFusion (2025 release) What's new and Exciting!
- Security and Stability in ColdFusion
- Smart language additions in ColdFusion
- VS Code plugin changes
- Performance enhancements
- Unleash the power of Revamping CFCharts for modern applications
- Spreadsheets & CSV Processing
- ▶ Microsoft Graph Integration in ColdFusion: Unlocking data with Oauth
- What's new in containers
- Recap and Q&A
- Playlist:
 - youtube.com/playlist?list=PL3iywAijqFoUG3eRXeE2RHZ8OaekGpjtl
- ▶ Watch for more in future at AdobeColdFusion youtube page:
 - youtube.com/adobecoldfusion

RESOURCES: ADOBE VIDEOS ON 2025

- ▶ So, lots of "gems" (I count about 50 I shared, across language and features)
 - ▶ Also many more removals than ever before—for the sake of modernizing CF
 - ► Again, see slide deck PDF for some additional useful details
- ▶ Hope you may be more motivated—and informed—to consider CF2025
- ► Again, my contact info for follow-up:
 - Charlie Arehart
 - charlie@carehart.org
 - @carehart (Slack, Github, X, FB, LinkedIn, etc.)
 - Slides: carehart.org/presentations
- ▶ With that, thanks for your time! ...questions?



