

## *Hidden Gems in CF2018*

Links for more

Updates 4/10/2019

### **Intro:**

- Slides for preso:
  - <https://www.carehart.org/presentations>
- My "hidden gems" blog series, paralleling preso:
  - [https://www.carehart.org/blog/client/index.cfm/2019/2/21/blog\\_series\\_on\\_hidden\\_gems\\_in\\_CF2018](https://www.carehart.org/blog/client/index.cfm/2019/2/21/blog_series_on_hidden_gems_in_CF2018)
  - <https://coldfusion.adobe.com/2019/01/hidden-gems-coldfusion-2018-part-1-series-overview/>
- My blog post pointing to all the Adobe CF2018 launch posts
  - [https://www.carehart.org/blog/client/index.cfm/2018/7/19/whats\\_new\\_in\\_CF2018](https://www.carehart.org/blog/client/index.cfm/2018/7/19/whats_new_in_CF2018)
- Adobe CF Summit talks on CF2018 (slides)
  - <https://coldfusion.adobe.com/2018/11/presentation-files-adobe-coldfusion-summit-2018>
- Did you know there's far more to the CF docs than just the CFML Reference?
  - <https://coldfusion.adobe.com/2017/11/did-you-know-theres-far-more-to-the-cf-docs-than-just-the-cfml-reference/>

### **Installation, Administration, Configuration, and Security**

- For all topics in this section, see part 2 in my "hidden gems" series
  - <https://coldfusion.adobe.com/2019/01/hidden-gems-cf2018-part-2-installation-administration-configuration/>
- CF2018 no longer offers 32-bit installer

- <https://coldfusion.adobe.com/2018/10/does-adobe-coldfusion-2018-release-have-32-bit-support/>
- CF2018 no longer offers web server config during installation
  - <https://coldfusion.adobe.com/2019/04/know-cf2018-installer-removed-web-server-integration-step/>
- CF web server configuration (wsconfig) tool
  - <https://helpx.adobe.com/coldfusion/configuring-administering/web-server-management.html>
  - <https://helpx.adobe.com/coldfusion/using/whats-new.html#Changestowsconfigtool>
- New CF Caching engine alternative
  - <https://coldfusion.adobe.com/2018/07/distributed-caching-coldfusion-2018-release/>
  - <https://helpx.adobe.com/coldfusion/developing-applications/changes-in-coldfusion/caching-enhancements.html>
- Web server connector tuning (and auto-tuning)
  - <https://coldfusion.adobe.com/2018/07/connector-tuning/>
  - <https://helpx.adobe.com/coldfusion/performance-monitoring-toolset/view-list-sites-busy-connections.html>
- CF support of Java 11
  - <https://coldfusion.adobe.com/2019/01/oracle-java-support-adobe-coldfusion/>
  - More in my part 2 post
- CF Auto Lockdown tool
  - <https://helpx.adobe.com/coldfusion/using/server-lockdown.html> (34 pages, if printed)
  - <https://coldfusion.adobe.com/2018/07/server-auto-lockdown/>
  - Downloading it: <https://adobe.com/support/coldfusion/downloads.html>
  - Lockdown guide: <https://adobe.com/content/dam/acom/en/products/coldfusion/pdfs/coldfusion-2018-lockdown-guide.pdf>

## Performance improvements, and new monitoring tool (PMT)

- For all topics in this section, see part 3 in my “hidden gems” series:
  - <https://coldfusion.adobe.com/2019/02/hidden-gems-cf2018-part-3-security-performance-pmt/>
- CF2018 Performance Whitepaper (discusses performance enhancements)
  - [https://www.images2.adobe.com/content/dam/acom/en/products/coldfusion/pdfs/CF2018\\_Performance.pdf](https://www.images2.adobe.com/content/dam/acom/en/products/coldfusion/pdfs/CF2018_Performance.pdf)
- CF2018 Performance Monitoring Toolset
  - Downloading it: <https://adobe.com/support/coldfusion/downloads.html>
  - Docs
    - <https://helpx.adobe.com/coldfusion/performance-monitoring-toolset/overview-coldfusion-performance-monitoring-toolset.html> (96 pages if printed)
  - Several CF team blog posts elaborating on PMT features
    - <https://coldfusion.adobe.com/2018/07/monitoring-coldfusion-servers/>
    - <https://coldfusion.adobe.com/2018/07/auto-discovery/>
    - <https://coldfusion.adobe.com/2018/07/topology-birds-eye-view-of-coldfusion-deployment/>
    - <https://coldfusion.adobe.com/2018/07/database-discovery/>
    - <https://coldfusion.adobe.com/2018/07/external-services/>
    - <https://coldfusion.adobe.com/2018/07/code-profiler/>
    - <https://coldfusion.adobe.com/2018/07/server-monitor-thread-dump-analysis/>
    - <https://coldfusion.adobe.com/2018/07/server-monitor-mystery-of-health-score-pmt/>
    - <https://coldfusion.adobe.com/2018/07/alerts-and-notification/>
    - <https://coldfusion.adobe.com/2018/07/performance-monitoring-toolset-connecting-the-dots->

[using-jvm-metrics/](#)

- Updating PMT (comes with CF2018 update 2, must be manually applied)
  - <https://coldfusion.adobe.com/2019/03/running-cf-2018-pmt-manually-applied-recent-update/>

## **Developer features:**

- For all topics in this section, see part 4 in my “hidden gems” series
  - <https://coldfusion.adobe.com/2019/02/hidden-gems-cf2018-part-4-dev-features-cfml-repl-cffiddle-rest-playground/>
- New CFML REPL
  - <https://coldfusion.adobe.com/2018/07/repl-coldfusion-2018-release/>
  - <https://helpx.adobe.com/coldfusion/using/command-line-interface.html>
  - Consider also Commandbox (open source CF CLI, REPL and more)
    - <https://www.ortussolutions.com/products/commandbox>
- CFFiddle
  - <https://www.cffiddle.org>
  - More on it (and to share feedback):
    - <https://coldfusion.adobe.com/2018/05/coldfusion-fiddle-project-cffiddle/>
    - <https://coldfusion.adobe.com/2018/10/cffiddle-code-test-share-coldfusion-code-go/>
  - Examples of CF docs being enhanced to leverage this for “live docs”
    - <https://coldfusion.adobe.com/2018/10/cffiddle-array-string-math-functions/>
    - <https://coldfusion.adobe.com/2018/11/cffiddle-spreadsheet-list-struct-date-time-functions/>
    - <https://coldfusion.adobe.com/2018/11/cffiddle-flow-control-tags-functions/>
  - Related, similar service

- <https://trycf.com>
- REST Playground feature
  - <https://coldfusion.adobe.com/2018/07/rest-playground-ion-2018-release/>
  - <https://helpx.adobe.com/coldfusion/using/rest-enhancements-coldfusion.html#restplay>
- CF Docker images
  - <https://helpx.adobe.com/coldfusion/using/docker-images-coldfusion.html>
  - <https://bintray.com/eaps/coldfusion>
  - <https://coldfusion.adobe.com/2019/03/coldfusion-licensing-docker-containers/>

## Language changes

- For all topics in this section, see part 5 in my “hidden gems” series
  - <https://coldfusion.adobe.com/2019/04/hidden-gems-cf2018-part-5-language-changes/>
- New language features
  - Null support
    - <https://coldfusion.adobe.com/2018/07/null-support-in-coldfusion-2018/>
    - <https://helpx.adobe.com/coldfusion/developing-applications/the-cfml-programming-language/using-coldfusion-variables/data-types-developing-guide.html#null-support>
  - Async feature
    - <https://coldfusion.adobe.com/2018/07/asynchronous-programming-in-coldfusion-2018-release/>
    - <https://helpx.adobe.com/coldfusion/using/asynchronous-programming.html>
  - Enhanced support for new operator
    - <https://coldfusion.adobe.com/2018/07/enhanced-support-for-new-operator>
    - <https://helpx.adobe.com/coldfusion/using/whats-new.html#new>

- Semi-colon optional
  - <https://coldfusion.adobe.com/2018/07/writing-cfms-without-semicolons/>
  - <https://helpx.adobe.com/coldfusion/using/whats-new.html#semicolon>
- Named parameters
  - <https://coldfusion.adobe.com/2018/07/named-parameters-in-coldfusion/>
  - <https://helpx.adobe.com/coldfusion/using/whats-new.html#named>
  - <ftp://ftp.adobe.com/pub/adobe/coldfusion/2018/NamedParametersColdFusion2018.pdf>
- Closures in tags (previously only in script)
  - <https://coldfusion.adobe.com/2018/07/closures-in-coldfusion-tags/>
  - <https://helpx.adobe.com/coldfusion/developing-applications/the-cfml-programming-language/extending-coldfusion-pages-with-cfml-scripting/using-closures.html#closure-tags>
- OO Language enhancements
  - <https://coldfusion.adobe.com/2018/07/oop-and-coldfusion/>
  - <https://coldfusion.adobe.com/2018/07/oop-and-coldfusion-part-2/>
  - <https://coldfusion.adobe.com/2018/07/default-function-in-interface/>
  - <https://helpx.adobe.com/coldfusion/developing-applications/building-blocks-of-coldfusion-applications/object-oriented-programming-coldfusion.html#abstract>
  - <https://helpx.adobe.com/coldfusion/developing-applications/building-blocks-of-coldfusion-applications/object-oriented-programming-coldfusion.html#final>
  - <https://helpx.adobe.com/coldfusion/developing-applications/building-blocks-of-coldfusion-applications/object-oriented-programming-coldfusion.html#default>
  - <https://helpx.adobe.com/coldfusion/developing-applications/building-blocks-of-coldfusion-applications/object-oriented-programming-coldfusion.html#covariance>
- New CFML functions

- <https://helpx.adobe.com/coldfusion/cfml-reference/new-functions-coldfusion-2018.html>
- New member functions
  - <https://coldfusion.adobe.com/2018/07/member-functions-coldfusion-2018/>
  - <https://helpx.adobe.com/coldfusion/developing-applications/building-blocks-of-coldfusion-applications/using-the-member-functions.html>
- Changed language features
  - Chaining member function
    - <https://helpx.adobe.com/coldfusion/using/whats-new.html#chain>
  - Slicing in arrays
    - <https://helpx.adobe.com/coldfusion/developing-applications/the-cfml-programming-language/using-arrays-and-structures/populating-arrays-with-data.html#slicing>
  - disableautogenkeys (for cfquery tag/statement)
    - <https://helpx.adobe.com/coldfusion/cfml-reference/coldfusion-tags/tags-p-q/cfquery.html>
    - <https://helpx.adobe.com/coldfusion/cfml-reference/coldfusion-functions/functions-m-r/queryexecute.html>
  - CFCHART responsive client-side charts (height/width)
    - <https://helpx.adobe.com/coldfusion/cfml-reference/coldfusion-tags/tags-c/cfchart.html>
- Array and string enhancements
  - <https://coldfusion.adobe.com/2018/07/arrays-and-string-enhancements-in-coldfusion-2018/>
  - <https://helpx.adobe.com/coldfusion/using/whats-new.html#negative-string>
  - <https://helpx.adobe.com/coldfusion/developing-applications/the-cfml-programming-language/using-arrays-and-structures/populating-arrays-with-data.html#typed-array>
  - <https://helpx.adobe.com/coldfusion/using/whats-new.html#literal>
- Datatype preservation: inference now at compile time, which can be optionally disabled

- <https://helpx.adobe.com/coldfusion/developing-applications/the-cfml-programming-language/using-coldfusion-variables/data-types-developing-guide.html#data-type-preserve>

## Compatibility Issues

- In the near future, I plan to do a part 6 post on the topics in this section
- Deprecated features
  - <https://helpx.adobe.com/coldfusion/deprecated-features.html>
- Newly Reserved words
  - <https://helpx.adobe.com/coldfusion/developing-applications/the-cfml-programming-language/elements-of-cfml/reserved-words-in-coldfusion.html>
- CF caching region names are app-specific
  - <https://tracker.adobe.com/#/view/CF-4203636>
- Adding back YUI library for “retired” CF UI tags
  - <https://helpx.adobe.com/coldfusion/deprecated-features.html#YUIandSpry>
- Asserted “empty page” errors with PMT due to non-zero “heartbeat interval”
  - <https://forums.adobe.com/thread/2549262>

## Other Gems

- In the near future, I plan to do a part 7 post on the topics in this section
- Differences between CF Std and Ent (CF2018 distributed caching is all that's new and Ent-only):
  - <https://adobe.com/products/coldfusion-standard/buying-guide.html>
- ColdFusion discounted prices
  - <https://buy-adobe-software.com>



- Backward licensing CF2016 (buying CF2018 license to use with CF2016)
  - <https://blogs.coldfusion.com/post.cfm/adobe-coldfusion-backward-licensing>
- End of life/support for recent CF versions
  - <https://helpx.adobe.com/support/programs/eol-matrix.html#CD>
  - [https://www.carehart.org/blog/client/index.cfm/2018/12/20/CF11\\_countdown\\_clock\\_is\\_ticking](https://www.carehart.org/blog/client/index.cfm/2018/12/20/CF11_countdown_clock_is_ticking)
- CF2018 EULA
  - <https://adobe.com/content/dam/acom/en/legal/licenses-terms/pdf/ColdFusion.pdf>
  - <https://coldfusion.adobe.com/2018/01/finding-the-eula-end-user-licensing-agreement-for-your-installed-cf-version/>
- Initial CF2018 Release notes (bug fixes, known issues, etc.)
  - <https://helpx.adobe.com/coldfusion/release-note/coldfusion-2018-release-notes.html>
- CFBuilder 2018 improvements
  - <https://helpx.adobe.com/coldfusion/using-coldfusion-builder/whats-new-in-coldfusion-builder.html>
  - Built-in FTP support
    - <https://helpx.adobe.com/coldfusion/using-coldfusion-builder/managing-servers.html#remote>
  - Support for PMT profiler
    - <https://helpx.adobe.com/coldfusion/using-coldfusion-builder/managing-projects.html#profiler>
  - Switch from Phonegap to Cordova
    - <https://helpx.adobe.com/coldfusion/mobile-application-development/packaging-mobile-applications.html>
  - CFBuilder 2018 update 1 (released with CF 2018 update 2)
    - <https://helpx.adobe.com/coldfusion/kb/coldfusion-builder-2018-update-1.html>

## What's changed, per updates?

- In the near future, I plan to do a part 8 post on the topics in this section
- CF2018 Docker image updates
  - <https://bintray.com/eaps/coldfusion/cf:coldfusion/#release>
- CF2018 update 3
  - <https://helpx.adobe.com/coldfusion/kb/coldfusion-2018-update-3.html>
  - [https://carehart.org/blog/client/index.cfm/2019/3/1/urgent\\_CF\\_security\\_update\\_Part\\_1](https://carehart.org/blog/client/index.cfm/2019/3/1/urgent_CF_security_update_Part_1)
- CF2018 update 2
  - <https://helpx.adobe.com/coldfusion/kb/coldfusion-2018-update-2.html>
  - <https://coldfusion.adobe.com/2019/02/coldfusion-2018-release-update-2-coldfusion-2016-release-update-8-coldfusion-11-update-16-released/>
  - New cfloop script statement
    - <https://cffiddle.org/app/file?filepath=368f3754-a8d7-42b3-b385-0bd7db9fddef/d9a31ed2-7c4d-4df0-9e15-95059f170c77/038514fc-f536-4b25-bad4-3c94e2f58674.cfm>
- CF2018 PMT Update (came with CF2018 update 2)
  - <https://helpx.adobe.com/coldfusion/performance-monitoring-toolset/performance-monitoring-toolset-update-1.html>
  - <https://coldfusion.adobe.com/2019/03/running-cf-2018-pmt-manually-applied-recent-update/>
- CF2018 installer refreshed (Feb 2019)
  - <https://coldfusion.adobe.com/2019/04/refreshed-cf2018-installer-includes-java-11/>
- C2018 update 1
  - <https://helpx.adobe.com/coldfusion/kb/coldfusion-2018-update-1.html>
  - <https://helpx.adobe.com/coldfusion/kb/bugs-fixed-coldfusion-2018-update-1.html>

- About CF2018 updates in general
  - <https://helpx.adobe.com/coldfusion/kb/coldfusion-2018-updates.html>
  - <https://helpx.adobe.com/coldfusion/release-note/coldfusion-2016-updates-release-notes.html>
- About previous CF versions and their updates
  - <https://helpx.adobe.com/coldfusion/kb/coldfusion-2016-updates.html>
  - <https://helpx.adobe.com/coldfusion/kb/coldfusion-11-updates.html>
  - <https://helpx.adobe.com/coldfusion/kb/coldfusion-10-updates.html>
- Solving common problems installing CF updates
  - [https://carehart.org/blog/client/index.cfm/2016/9/6/solve\\_common\\_problems\\_with\\_CF\\_updates\\_in\\_10\\_and\\_above](https://carehart.org/blog/client/index.cfm/2016/9/6/solve_common_problems_with_CF_updates_in_10_and_above)
  - <https://coldfusion.adobe.com/2019/03/problems-applying-cf-update-check-first/>