Hidden Gems in CF2018

Links for more
Updates 4/10/2019

Intro:

• Slides for preso:
  ◦ [https://www.carehart.org/presentations](https://www.carehart.org/presentations)

• My “hidden gems” blog series, paralleling preso:

• My blog post pointing to all the Adobe CF2018 launch posts

• Adobe CF Summit talks on CF2018 (slides)

• Did you know there’s 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

• CF2018 no longer offers 32-bit installer

  - CF2018 no longer offers web server config during installation
    - [Link](https://coldfusion.adobe.com/2019/04/know-cf2018-installer-removed-web-server-integration-step/)

  - CF web server configuration (wsconfig) tool
    - [Link](https://helpx.adobe.com/coldfusion/configuring-administering/web-server-management.html)
    - [Link](https://helpx.adobe.com/coldfusion/using/whats-new.html#Changestowsconfigtool)

- New CF Caching engine alternative
  - [Link](https://helpx.adobe.com/coldfusion/developing-applications/changes-in-coldfusion/caching-enhancements.html)

- Web server connector tuning (and auto-tuning)
  - [Link](https://coldfusion.adobe.com/2018/07/connector-tuning/)
  - [Link](https://helpx.adobe.com/coldfusion/performance-monitoring-toolset/view-list-sites-busy-connections.html)

- CF support of Java 11
  - [Link](https://coldfusion.adobe.com/2019/01/oracle-java-support-adobe-coldfusion/)
  - More in my part 2 post

- CF Auto Lockdown tool
  - [Link](https://helpx.adobe.com/coldfusion/using/server-lockdown.html) (34 pages, if printed)
  - [Link](https://coldfusion.adobe.com/2018/07/server-auto-lockdown/)
  - Downloading it: [Link](https://adobe.com/support/coldfusion/downloads.html)
Performance improvements, and new monitoring tool (PMT)

- For all topics in this section, see part 3 in my “hidden gems” series:
- CF2018 Performance Whitepaper (discusses performance enhancements)
- CF2018 Performance Monitoring Toolset
  - Downloading it: https://adobe.com/support/coldfusion/downloads.html
  - Docs
  - Several CF team blog posts elaborating on PMT features
Using JVM Metrics:

- Updating PMT (comes with CF2018 update 2, must be manually applied)

Developer features:

- For all topics in this section, see part 4 in my “hidden gems” series

- New CFML REPL
  - 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/
  - Examples of CF docs being enhanced to leverage this for “live docs”
  - Related, similar service
- https://trycf.com

- REST Playground feature
  - https://helpx.adobe.com/coldfusion/using/rest-enhancements-coldfusion.html#restplay

- CF Docker images
  - 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

- New language features
  - Null support
  - Async feature
  - Enhanced support for new operator
○ Semi-colon optional
  ▪ https://helpx.adobe.com/coldfusion/using/whats-new.html#semicolon

○ Named parameters
  ▪ https://helpx.adobe.com/coldfusion/using/whats-new.html#named

○ Closures in tags (previously only in script)

• OO Language enhancements
  ○ 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
• New member functions

• Changed language features
  ◦ Chaining member function
    ▪ https://helpx.adobe.com/coldfusion/using/wats-new.html#chain
  ◦ Slicing in arrays
  ◦ disableautogenkeys (for cfquery tag/statement)
  ◦ CFCHART responsive client-side charts (height/width)

• Array and string enhancements
  ◦ https://helpx.adobe.com/coldfusion/using/wats-new.html#negative-string
  ◦ https://helpx.adobe.com/coldfusion/using/wats-new.html#literal

• Datatype preservation: inference now at compile time, which can be optionally disabled
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
- 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):
- ColdFusion discounted prices
  - https://buy-adobe-software.com
- Backward licensing CF2016 (buying CF2018 license to use with CF2016)
- End of life/support for recent CF versions
  - [https://helpx.adobe.com/support/programs/eol-matrix.html#CD](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
- Initial CF2018 Release notes (bug fixes, known issues, etc.)
- CFBuilder 2018 improvements
  - Built-in FTP support
  - Support for PMT profiler
  - Switch from Phonegap to Cordova
  - CFBuilder 2018 update 1 (released with CF 2018 update 2)
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://carehart.org/blog/client/index.cfm/2019/3/1/urgent_CF_security_update_Part_1

• CF2018 update 2
    -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

• CF2018 installer refreshed (Feb 2019)

• C2018 update 1
• About CF2018 updates in general
• 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