

# UPDATING/HOTFIXING COLDFUSION: TIPS AND TRAPS

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# OUTLINE

- CF11/10 Updates (auto-update mechanism)
  - Basics, Tips/Tricks
  - Gotchas/Traps (when updates fail, connector updates, more)
- CF9/8 Hotfixes (manual update process)
  - Basics, Tips/Tricks, Gotchas/Traps
- Some Issues Common to CF 8-11
- Resources

# ABOUT CHARLIE AREHART

## Independent Consultant

- 18 yrs CF experience (33 in Enterprise IT)
- Certified Adv CF Developer, Instructor
- Adobe Forum MVP, CF CAB member
- Co-author CFWACK books: 8, 9, 10
- Living on a farm in rural Kentucky!

## Web home at [www.carehart.org](http://www.carehart.org)

- CArehart Quick Tips on Youtube
- 100+ presentations, 80+ articles, 400+ blog entries
- UGTV: recordings of 600+ presos by 300+ speakers
- CF411.com: 1800+ tools/resources, 150+ categories
- CF911.com: CF server troubleshooting resources
- Hosting courtesy of EdgeWeb Hosting
- Consulting: available for CF troubleshooting, tuning
  - Remote or on-site; on-demand, single instance is ok

# NOTES

- Presentation available online at [carehart.org/presentations](http://carehart.org/presentations)
  - Lots of text, but much of it is links to resources with still more info
- I've shrunken the font size for some URLs so they fit on one line
  - Some folks were having trouble clicking links in PDF version
  - Didn't do with some that would be too tiny then. Just watch out

# ABOUT CF11/10 UPDATES (AUTO-UPDATE MECHANISM)

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# CF11/10 UPDATE BASICS

- CF11/10 auto update mechanism, in CF Admin>Server Updates
  - Or via starburst in top right (if available updates not installed)
- Always cumulative in nature: need only apply latest available
- Nice: if you're running multiple instances (CF Enterprise)
  - The updater (in cfusion instance) detects/offers to update all
- As easy as it should be, some gotchas (discussed later)
  - Mandatory update (for CF10)
  - Rebuilding web connector (for CF10 and 11)
  - What if no updates ever appear available?
- Quick demo

## CF11/10 UPDATE BASICS (CONT)

- CF10/11 update mechanism covers both bug fixes & security updates
  - So far 16 for CF10, 5 for CF11
  - Sometimes hundred+ bugfixes!
- Location of hotfixes jars (downloaded and installed)
  - `\[ColdFusion]\cfusion\hf-updates (or instancename)`
- Subdirectory for each update applied
  - includes logs (including what changed), backups, and uninstall feature (more on uninstall later)

# GETTING STARTED RESOURCES

- Resources for CF11/10 update basics
  - <http://www.shilpikhariwal.com/2012/04/coldfusion-10-hot-fix-installer.html>
  - <https://wikidocs.adobe.com/wiki/display/coldfusionen/Using+the+ColdFusion+Administrator#UsingtheColdFusionAdministrator-ServerUpdatesection>

# CF11/10 UPDATE TIPS/TRICKS

- Beware: read update page carefully
  - Note whether connector update needed
  - Note available link to technote
- Consider “Download” vs “Download and Install”
- On “install”, if it seems to fail, wait to see if the instance is back up!
  - CF11 improves the UI giving status and checking for restart

## CF11/10 UPDATE TIPS/TRICKS (CONT.)

- Can uninstall updates: see “Installed Updates” tab
- Don’t miss “settings” tab on HF page
  - Option to checks for updates on each Admin login
  - Option to send email from your server when new updates found
    - But you must have CF admin mail page correct
- Consider the update “prerelease” offers from Adobe (on CF blog)
  - <http://blogs.coldfusion.com>

# MORE GETTING STARTED RESOURCES

- I offer 2 youtube videos with much of these basics, tips, and tricks from CF10 timeframe (still applicable to CF11):
  - <https://www.youtube.com/watch?v=BbilQzP3sFg>
  - [https://www.youtube.com/watch?v=b\\_vJ6fxKGBA](https://www.youtube.com/watch?v=b_vJ6fxKGBA)
- DO NOT MISS the Adobe CF HF Guide (I call it the “CFHFFAQ”)
  - <http://blogs.coldfusion.com/post.cfm/coldfusion-hotfix-installation-guide>
  - Written in CF10 timeframe, mostly still applicable to CF11

# CF11/10 UPDATE GOTCHAS/TRAPS

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# MANY ISSUES TO CONSIDER

- “Mandatory update”, for CF10 only
- Rebuilding connector (for CF10 and 11, and for IIS and Apache)
- What if no updates ever appear in Admin?
- Manually obtaining updates
- Manually applying updates
- When updates fail
- Other issues

## “MANDATORY UPDATE” (CF10 ONLY)

- When you first try to apply any updates to CF10 (after update 7), you will get “Signature verification failed” error on download of CF10 update
  - What is this about?
- Steps to resolve
  - Download “mandatory update” manually from [http://www.adobe.com/support/coldfusion/downloads\\_updates.html](http://www.adobe.com/support/coldfusion/downloads_updates.html)
  - Save JAR file to a directory (beware some browsers saving as .zip)
  - Open command prompt (as admin), cd to location of download and then run the command as follows
    - `C:\ColdFusion10\jre\bin\java -jar cf10_mdt_updt.jar`
  - Follow the on-screen instructions

## “MANDATORY UPDATE” (CONT.)

- For help on working from command prompt in Windows, and as admin, see my video
  - <https://www.youtube.com/watch?v=N5dRtcLfOnU>
- Resources on Mandatory Update:
  - <http://helpx.adobe.com/coldfusion/kb/coldfusion-10-mandatory-update.html>
  - [http://www.adobe.com/support/coldfusion/downloads\\_updates.html](http://www.adobe.com/support/coldfusion/downloads_updates.html)

# REBUILDING CONNECTOR (IIS AND APACHE)

- IS also “mandatory”, after some CF10 and CF11 updates
  - Mentioned in update interface, easily missed
  - Entails re-running web server config tool, wsconfig (GUI or cmd-line)
- Don’t forget to “Run as admin”, if Windows
- Demo
- Also, if multiple instances, must run wsconfig from within CF instance to be “connected” (`\[ColdFusion]\[instance]\runtime\bin\`)

# REBUILDING CONNECTOR (IIS AND APACHE)

- More
  - [http://www.carehart.org/blog/client/index.cfm/2013/9/13/why\\_you\\_must\\_update\\_cf10\\_webserver\\_connector](http://www.carehart.org/blog/client/index.cfm/2013/9/13/why_you_must_update_cf10_webserver_connector)
  - [http://www.carehart.org/blog/client/index.cfm/2013/11/8/still\\_more\\_reasons\\_to\\_update\\_your\\_CF10\\_webconnector](http://www.carehart.org/blog/client/index.cfm/2013/11/8/still_more_reasons_to_update_your_CF10_webconnector)
- Of related interest:
  - <http://blogs.coldfusion.com/post.cfm/video-learn-about-iis-connectors-in-coldfusion10>

# WHAT IF NO UPDATES EVER APPEAR IN ADMIN?

- First question: do you see 3 tabs on Server Updates page?
  - If not, problem is likely that CFIDE/scripts is blocked for web site
  - That keeps browser from accessing needed UI elements/JS
- Second question: have you clicked “check for updates”?
- If you DO see the 3 tabs, and HAVE checked for updates, and know you should see some and don't...

# WHAT IF NO UPDATES EVER APPEAR IN ADMIN?

- Likely because your CF server is behind proxy or firewall
- If behind proxy:
  - Can configure CF startup to specify needed proxy info
  - See “What can be done if the ColdFusion server is behind a proxy server and can't access the Adobe's Update site URL?” in CFHFFAQ
- If behind firewall:
  - Can obtain hotfix files manually...

# MANUALLY OBTAINING UPDATES

- RSS feed of all CF11/10 updates, listed in Admin update settings page
  - <http://download.adobe.com/pub/adobe/coldfusion/xml/updates.xml>
  - See also <http://blogs.coldfusion.com/post.cfm/can-i-get-an-update-if-you-re-looking-for-coldfusion-updaters>
- Seeing no links in RSS feed, as viewed in browser? Use “view source”
- URL for a given fix, for example:
  - [https://cfdownload.adobe.com/pub/adobe/coldfusion/11/hotfix\\_005.jar](https://cfdownload.adobe.com/pub/adobe/coldfusion/11/hotfix_005.jar)
- Demo
- Just to download that hotfix jar and apply it manually...

# MANUALLY APPLYING UPDATES

- Need to run at command line
  - Remember to “run as admin” (or use sudo in Linux)
  - Need to use Java command. If not installed, use CF’s java
- Here’s how for CF11 update 5 on Windows, as example:
  - `cd c:\coldfusion11\cfusion\hf-updates`
  - `c:\ColdFusion11\jre\bin\java -jar hotfix_005.jar`
- Demo
- Again, check out my youtube video on using Windows command line
  - <https://www.youtube.com/watch?v=N5dRtcLfOnU>

# MANUALLY OBTAINING, APPLYING CF11/10 UPDATES (CONT.)

- More resources
  - <http://blogs.coldfusion.com/post.cfm/how-to-download-and-install-coldfusion-10-hotfix-directly>
  - <http://blogs.coldfusion.com/post.cfm/video-on-hotfix-installation-in-coldfusion-10>
    - First 5 mins on mandatory update, then on manual updates
  - [http://help.adobe.com/en\\_US/ColdFusion/10.0/Admin/WSe61e35da8d318518-33adffe0134c60cd31c-7ffe.html](http://help.adobe.com/en_US/ColdFusion/10.0/Admin/WSe61e35da8d318518-33adffe0134c60cd31c-7ffe.html)
  - CFHFFAQ section:
    - “What can be done if the ColdFusion server is behind the firewall and can't access the Adobe's Update site URL?”
    - <http://blogs.coldfusion.com/post.cfm/coldfusion-hotfix-installation-guide>

# WHEN UPDATES FAIL

- If update reports error, or CF fails to start, or admin fails to load:
  - Look at update log. Again in folder for the update applied
  - Error status is near the top (not bottom)!
- Common problem is that CF did not stop, or a file was locked
  - Solution: stop CF and run the update from command line instead
  - Can just run update again, without uninstalling first
- This simple tip can save enormous heartache!

# OTHER ISSUES

- Download of CF10/11 you get today is not fully updated
  - Need to apply mandatory update (CF10), then latest update, then do connector rebuild
  - Actually, you can no longer download CF10 from Adobe
    - See instead <http://bit.ly/cfdownloads>
- May need to install MS Visual C++ 2012 runtime
  - <http://blogs.coldfusion.com/post.cfm/resolving-500-internal-server-error-with-coldfusion-10-update-14>

## OTHER ISSUES (CONT.)

- Change in OS file permissions may be required after lockdown
  - <http://blogs.coldfusion.com/post.cfm/not-able-to-apply-hotfix-from-coldfusion-10-administrator-on-windows-with-lockdown-guide-imposed-on-server-how-to-set-it-up-to-make-it-work>
- Silent install support
  - See “What if an Organization has other customary methods to apply/automate Hotfixes and wants only the Hotfix files that are Modified/Added/Deleted to be applied?” in CFHFFAQ
- JEE-specific deployment tips/tricks
  - See related JEE discussions in CFHFFAQ

# ABOUT CF9/8 HOTFIXES (ALL THREE TYPES)

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# CF9/8 HOTFIX BASICS

- Should be simple in concept, is challenging in practice
  - Discussion applies to CF 7/6, but those are very old. Own issues
- Hotfix types
  - Cumulative nature of CHF, seCHF
  - Melding of these types by 2012
  - Challenge: easy to misapply (more later)
- Hotfix download locations
  - <http://www.carehart.org/blog/client/index.cfm/2012/5/31/Getting-ColdFusion-89-downloads-with-Verity-ways-that-may-work-even-after-today>
  - [Bit.ly/cfdownloads](http://bit.ly/cfdownloads)
- Hotfix technote steps: follow them closely!

# CF9/8 HOTFIX TIPS/TRICKS

- Determining current hotfix level
  - [http://www.carehart.org/blog/client/index.cfm/2012/6/18/what\\_hotfixes\\_have\\_been\\_applied](http://www.carehart.org/blog/client/index.cfm/2012/6/18/what_hotfixes_have_been_applied)
- Unofficial updater
  - <http://uu2.riaforge.org/>
- A review of resources with tips and traps
  - [http://www.carehart.org/blog/client/index.cfm/2014/3/14/cf9\\_and\\_earlier\\_hotfix\\_guide](http://www.carehart.org/blog/client/index.cfm/2014/3/14/cf9_and_earlier_hotfix_guide)

# CF9/8 HOTFIX GOTCHAS/TRAPS

- Misapplying Hotfixes
  - Updating wrong dirs CF dirs (many “lib” dirs, for instance)
  - Multiple CFIDE locations (more later)
  - Extracting zips incorrectly (eg, extracting a folder under a folder)
  - Mistakes during merge process (eg, mistakenly choosing “skip”)
  - See  
[http://www.carehart.org/blog/client/index.cfm/2011/10/21/why\\_chfs\\_may\\_break](http://www.carehart.org/blog/client/index.cfm/2011/10/21/why_chfs_may_break)

# CF9/8 HOTFIX GOTCHAS/TRAPS

- Challenge finding hotfix download details
- CF8/9 no longer formally supported , no 9 updates since 2012
- For CF9.x, beware that while security hotfixes are generally cumulative, APSB13-19 must be applied even after APSB13-27
- For CF9.0.1, note potential jpedal.jar issue
  - <http://blogs.coldfusion.com/post.cfm/jpedal-jar-for-coldfusion-9-0-1-cumulative-hotfix-4>

# CF9/8 HOTFIX GOTCHAS/TRAPS

- If updating to Java 1.7 in CF 9/8 (after CHF in Jan 2013), Windows users may find CF does not start
  - See CHF doc: may need to copy msvcrt100.dll from jvm to CF

# ISSUES COMMON TO CF 11/10/9/8

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# THE NEW HOTFIX NOTES DOC (8, 9, 10, 11)

- Finally a list of what tweaks can be made to undo security hole closures
  - <http://helpx.adobe.com/coldfusion/kb/important-hotfix-related-notes.html>
- Example (session fixation, form post max)
  - <http://helpx.adobe.com/coldfusion/kb/security-hotfix-coldfusion-8-8.html>
  - <http://www.cutterscrossing.com/index.cfm/2012/3/27/ColdFusion-Security-Hotfix-and-Big-Forms>
- My resources on this document/issues
  - [http://www.carehart.org/blog/client/index.cfm/2013/5/21/new\\_adobe\\_summary\\_of\\_security\\_hotfix\\_tweaks](http://www.carehart.org/blog/client/index.cfm/2013/5/21/new_adobe_summary_of_security_hotfix_tweaks)
  - [youtube.com/watch?v=\\_EFVlc37a1I](https://www.youtube.com/watch?v=_EFVlc37a1I)

# JVM UPDATES (8, 9, 10, 11)

- Java 1.6 no longer supported by Oracle, 1.7 soon no longer updates
- What version of Java is supported for CF 11, 10, 9?
  - <http://blogs.coldfusion.com/post.cfm/which-jdk-is-supported-with-coldfusion-9-10-and-11> Changing the JVM
- Applying update to JVM for CF?
  - <https://www.youtube.com/watch?v=zzC31EAIz8Y>
  - [http://www.carehart.org/blog/client/index.cfm/2014/12/11/help\\_I\\_updated\\_CFs\\_JVM\\_and\\_it\\_wont\\_start](http://www.carehart.org/blog/client/index.cfm/2014/12/11/help_I_updated_CFs_JVM_and_it_wont_start)
- On move to Java 8, may need to copy tools.jar
  - <http://blogs.coldfusion.com/post.cfm/coldfusion-10-and-11-support-with-java-8>

# THE CHALLENGE OF MULTIPLE CFIDE LOCATIONS

- Good news in CF10/11: CF puts CFIDE in the instance wwwroot
  - Points to it in web servers with a virtual directory
- Problem in CF9 and earlier is that you may have multiple CFIDE locations
  - The one installed by CF 9 or earlier
    - Which could be in an IIS/Apache site docroot, or CF's wwwroot
    - Also, one created with each new instance (Enterprise option) in instance's wwwroot
  - Then may be copies made by admins/developers
  - Can still trouble you in CF10, 11 as well, if brought with old code
- Solution: you must remember to update ALL of them in CF9 and earlier, or risk trouble

# RESOURCES

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## RESOURCES RELATED TO UPDATES (11, 10)

- Have pointed out many throughout talk, from Adobe, others on:
  - CF10/11 update basics, gotchas
  - CF10 update details (“CFHFFAQ”)
- Follow the Adobe CF team blog
  - <http://blogs.coldfusion.com/>
- Especially (related to updates):
  - <http://blogs.coldfusion.com/archives.cfm/category/hotfix>
  - <http://blogs.coldfusion.com/archives.cfm/category/updates>

# HOW CAN I HELP, LATER?

- CArehart Quick Tips on Youtube
  - [youtube.com/user/carehart/videos](https://youtube.com/user/carehart/videos)
- Don't struggle to solve CF problems, challenges on your own
  - [CArehart.org/consulting](https://carehart.org/consulting)
  - Remote or on-site, scheduled or on-demand, short-term
  - Satisfaction guaranteed or no payment expected

# REVIEW

- CF11/10 update mechanism is indeed “one click”
  - But with mandatory update issue in CF10, and web connector rebuild for 10/11, it’s not really that simple
  - And obviously, there are other gotchas, such as if updates fail, if your server cannot access the updates over internet, etc
- But Adobe has anticipated many challenges, made tool flexible
  - And the “CFHFFAQ” really does answer nearly every challenge
  - Beyond that, CF team blog entries cover the rest
- Shared some other tips, tricks, traps for CF11/10 and CF9/8

# CONCLUSION

- Hope you feel that you learned a lot
  - Use the resources mentioned to remind you, learn still more
  - Contact me personally if you need a pointer to anything mentioned
- Any questions?