UPDATING/HOTFIXING #COLDFUSION 10, 9, AND 8: TIPS AND TRAPS

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OUTLINE

- CF10 Hotfixes (Auto-update mechanism)
  - Basics, Tips/Tricks, Gotchas/Traps
  - Manually Applying CF10 Hotfixes
  - Other Issues
- CF9/8 Hotfixes (All Three Types)
  - Basics, Tips/Tricks, Gotchas/Traps
- Issues Common to CF 10/9/8
- Resources

ABOUT CHARLIE AREHART

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- 15 yrs CF experience (30 in Enterprise IT)
- Certified Adv CF Developer, Instructor
- Adobe Forum MVP, CF CAB member
- Frequent speaker to conf's worldwide
- Organizer, Online ColdFusion Meetup (coldfusionmeetup.com), 2800+ members
- Living in Alpharetta, Georgia (Atlanta)

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- 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

ABOUT CF10 HOTFIXES
(AUTO-UPDATE MECHANISM)

CF10 HOTFIX BASICS

- CF10 auto update mechanism, in CF Admin>Server Updates
  - Gotchas (more later, under "traps"):
    - Mandatory update
    - Rebuilding web connector
    - No updates ever appear in Admin
- Always cumulative nature
- Covers both hotfixes and security hotfixes
  - And even Tomcat/Java updates
- "Update" or "hotfix": no longer any distinction

CF10 HOTFIX BASICS (CONT.)

- Read update page carefully, note available link to technote

- "Download" vs "Download and Install"

- Caution about whether instance is back up

- Multiple instances are handled while running update

- "CFHFFAQ"

  - http://blogs.coldfusion.com/post.cfm/coldfusion-hotfix-installation-guide

CF10 HOTFIX BASICS (CONT)

- Resources for CF10 hotfix basics

    - http://www.shilpikhariwal.com/2012/04/coldfusion-10-hot-fix-installer.html

    - http://help.adobe.com/en_US/ColdFusion/10.0/Admin/WSe61e35da8d318518-33adffe0134c60cd31c-8000.html

- Still, basics not enough. Tips/tricks and then traps, to come

CF10 HOTFIX
TIPS/TRICKS

CF10 HOTFIX TIPS/TRICKS

- Mechanism checks for updates on each Admin login, configurable

- Determining current hotfix level

- Feature can send email from your server when new updates found

  - But you must have CF admin mail page correct

- If errors during update, though marked complete, can rerun

  - See "In the Update Installation log if there are errors how to proceed further?" in CFHFFAQ

CF10 HOTFIX TIPS/TRICKS (CONT.)

- Location of hotfixes (available and completed)

    - C:\ColdFusion10*cfusion*\hf-updates (or *instancename*)

    - For completed, includes logs (including what changed), backups, and uninstall feature (more on uninstall later)

- Can choose just to download update, to apply manually, from command prompt

    - More later

CF10 HOTFIX
GOTCHAS/TRAPS

"MANDATORY UPDATE"

- What if you 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

  - Save JAR file to a directory

  - Open command prompt, cd to location of download and then run the command as follows

    - C:\ColdFusion10\jre\bin\jre\java -jar cf10_mdt_updt.jar

  - Follow the on-screen instructions

- Be sure that downloaded file is saved as a .jar, not a .zip

"MANDATORY UPDATE" (CONT.)

- Resources:
  - http://helpx.adobe.com/coldfusion/kb/coldfusion-10-mandatory-update.html
  - http://www.adobe.com/support/coldfusion/downloads_updates.html

REBUILD OF CONNECTOR (FOR IIS AND APACHE)

- Mandatory after some updates
    - Mentioned in hotfixes, easily missed
    - Entails re-running web server config tool (Gui or Cmd Line)
- Don't forget to "Run as admin"
    - Also, need to run wsconfig from within each existing CF instance
- Don't focus first on Tomcat tweaking, but if interested:
    - http://blogs.coldfusion.com/post.cfm/tuning-coldfusion-10-iis-connector-configuration
- Of related interest:
    - http://blogs.coldfusion.com/post.cfm/video-learn-about-iis-connectors-in-coldfusion10

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 hotfixes manually…

MANUALLY OBTAINING, APPLYING CF10 FIXES

MANUALLY OBTAINING, APPLYING CF10 FIXES

- RSS feed of all CF10 updates, listed in Admin update settings page
  - http://www.adobe.com/go/coldfusion-updates/ or http://download.adobe.com/pub/adobe/coldfusion/xml/updates.xml
  - URL for a given fix (example)
    - http://download.adobe.com/pub/adobe/coldfusion/hotfix_008.jar
  - See no links in RSS feed, viewed in browser?
    - Use View Source feature
- You could either save that xml file to a local file, and point the CF admin Update feature at a URL to access that
  - Or can just download individual hotfix jar and manually apply

MANUALLY OBTAINING, APPLYING CF10 FIXES (CONT.)

- For manually applying jars

  - Need to use Java command. If not installed, use CF's java:

    - C:\ColdFusion10\jre\bin\java -jar cf10_mdt_updt.jar

  - Watch out for em-dash if copying that cmd from here or other resources

  - Must remember to run as admin (or sudo)

    - In Windows, open Command Prompt with "Run as Administrator"

MANUALLY OBTAINING, APPLYING CF10 FIXES (CONT.)

- Resources
  - http://blogs.coldfusion.com/post.cfm/how-to-download-and-install-coldfusion-10-hotfix-directly
  - http://help.adobe.com/en_US/ColdFusion/10.0/Admin/WSe61e35da8d318518-33adffe0134c60cd31c-7ffe.html
  - CFHFFAQ
    - "What can be done if the ColdFusion server is behind the firewall and can't access the Adobe's Update site URL?"
  - http://forta.com/blog/index.cfm/2013/3/1/ColdFusion-Update-Check-URL

CF10 HOTFIXES:
OTHER ISSUES

CF10 HOTFIXES: OTHER ISSUES (CONT.)

- Download of CF10 today is not updated
    - Need to apply mandatory update, latest update, do connector rebuild
- That said: new installer for Windows (needed for Windows 8/2012, but can be used by others also)
    - http://helpx.adobe.com/coldfusion/kb/new-platform-support-coldfusion-10.html
    - http://blogs.coldfusion.com/post.cfm/new-platform-support-for-coldfusion-10-and-coldfusion-builder-2-0-1-windows-8-and-windows-2012-server
    - http://blogs.coldfusion.com/post.cfm/cautions-for-configuring-cf-10-with-iis-8-on-windows-2012-server
- Seeming change in OS file permissions required after update 9
    - 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

CF10 HOTFIXES: OTHER ISSUES (CONT.)

- Cannot apply from one server to others in a cluster

- If auto-update can't stop instance, hotfix cannot be applied

  - See HF logs for info; CF logs for CF shutdown issues

- Can CF10 hotfixes be uninstalled?

  - Yes, either in CF admin/GUI interface or via command prompt

  - See "How can uninstallation be done from command prompt?" in CFHFFAQ

CF10 HOTFIXES: OTHER ISSUES (CONT.)

- Any support for handling hotfix with silent install feature?

    - 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 CFFAQ

- Any JEE-specific deployment tips/tricks

    - See related JEE discussions in CFHFFAQ

- Available video intro

    - http://blogs.coldfusion.com/post.cfm/video-on-hotfix-installation-in-coldfusion-10

    - First 5 mins on mandatory update, then on manual updates

ABOUT CF9/8 HOTFIXES
(ALL THREE TYPES)

CF9/8 HOTFIX BASICS

- Should be simple in concept, challenging in practice
- Hotfix types
    - Cumulative nature of CHFs, secHFs
    - Recent melding of types
    - Challenge: easy to misapply (more later)
- Hotfix download locations
- Hotfix technote steps
- Discussion applies to CF 7/6, but those are very old. Own issues
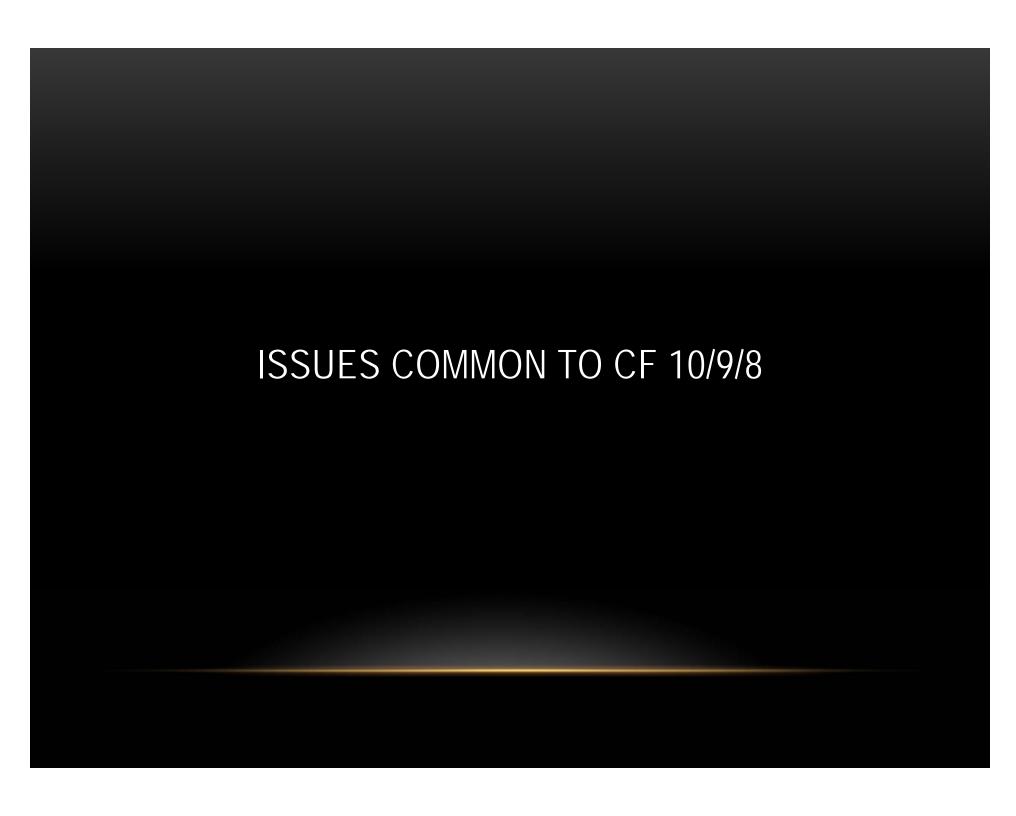
CF9/8 HOTFIX TIPS/TRICKS

- Determining current hotfix level

  - http://www.carehart.org/blog/client/index.cfm/2012/6/18/what_hotfi xes_have_been_applied

- Unofficial updater

  - http://uu2.riaforge.org/

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

  - Can still happen with UU2!

CF9/8 HOTFIX GOTCHAS/TRAPS

- Challenge finding hotfix download details

- CF8 no longer formally supported (since CF9 release in May '12)

  - 2 security updates, in June and Sept '12, none since

- 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

ISSUES COMMON TO CF 10/9/8

HOTFIX TIPS, TRICKS FOR CF10/9/8

- The new hotfix notes doc (for 8, 9, 10)

- JVM Updates (for 8, 9, 10)

- The challenge of multiple CFIDE locations

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

- 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 (fixation)
    - http://helpx.adobe.com/coldfusion/kb/security-hotfix-coldfusion-8-8.html
- First mention:
    - http://helpx.adobe.com/coldfusion/kb/coldfusion-security-hotfix-apsb13-13.html
- My blog entry
    - http://www.carehart.org/blog/client/index.cfm/2013/5/21/new_adobe_summary_of_security_hotfix_tweaks
- Downloads
    - http://www.adobe.com/support/coldfusion/downloads_updates.html#cf9
    - http://www.adobe.com/support/security/#coldfusion

JVM UPDATES (8, 9, 10)

- Java 7 now supported

    - http://blogs.coldfusion.com/post.cfm/new-updates-for-coldfusion-9-9-0-1-9-0-2-and-10-java-7-now-supported

    - http://blogs.coldfusion.com/post.cfm/coldfusion-10-update-8-is-now-available-java-7-support-included

- Java 1.6 no longer supported by Oracle

    - http://java.com/en/download/faq/java_6.xml

- Changing the JVM

    - http://forta.com/blog/index.cfm/2013/3/3/Upgrading-ColdFusion-To-Java-7

- JVM update: JDK or JRE?

    - http://blogs.coldfusion.com/post.cfm/coldfusion10-jre-jdk-appropriate-usage

THE CHALLENGE OF MULTIPLE CFIDE LOCATIONS

- Discussed briefly previously under CF 9/8 hotfix misapplication
  - Can actually happen in CF10 as well
  - And again, even with Unofficial Updater for CF 8, 9
- Problem is that you may have multiple CFIDE locations
  - The one installed by CF
    - 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
  - Perhaps virtual directories in multiple sites
    - (better option than creating multiple physical copies)
- Challenge is that you must remember to update ALL of them, or risk trouble

RESOURCES

RESOURCES RELATED TO HOTFIXES (10, 9)

- CF10 hotfix basics

    - http://www.shilpikhariwal.com/2012/04/coldfusion-10-hot-fix-installer.html

    - http://help.adobe.com/en_US/ColdFusion/10.0/Admin/WSe61e35da8d31851
      8-33adffe0134c60cd31c-8000.html

- CF10 hotfix details ("CFHFFAQ")

    - http://blogs.coldfusion.com/post.cfm/coldfusion-hotfix-installation-guide

- CF10 hotfix gotchas

    - http://blogs.coldfusion.com/post.cfm/how-to-download-and-install-coldfusion-
      10-hotfix-directly

    - 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

RESOURCES (CONT)

- The technote of "notes" from important past hotfix technotes
  - http://helpx.adobe.com/coldfusion/kb/important-hotfix-related-notes.html
- Follow the Adobe CF team blog
  - http://blogs.coldfusion.com/
- Especially (related to hotfixes):
  - http://blogs.coldfusion.com/archives.cfm/category/hotfix
  - http://blogs.coldfusion.com/archives.cfm/category/updates
- Available video intro
  - http://blogs.coldfusion.com/post.cfm/video-on-hotfix-installation-in-coldfusion-10
  - First 5 mins on mandatory update, then on manual updates
- Note also:
  - http://blogs.coldfusion.com/post.cfm/free-coldfusion-installation-support-from-adobe

CONCLUSION

- CF10 hotfix mechanism is indeed "one click"
  - But with mandatory update issue, and web connector rebuild, it's not really that simple (for now, perhaps resolved with a new installer)
  - And obviously, there are other gotchas, such as if your server cannot access the hotfixes over internet
- But Adobe has anticipated many challenges, made tool flexible
  - And the "CFHFFAQ" really does answer nearly every challenge
- Shared some other tips, trips, traps, for CF10 and CF9/8
- If you need help with these, I'm available to consulting
  - Remote or on-site, scheduled or on-demand, short-term
  - Satisfaction guaranteed or no payment expected