

# THE MANY CAPABILITIES OF CF PACKAGE MANAGEMENT AND CFPM



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- ▶ The CF “Package Management” feature and cfpm tool offer more than most may realize
  - ▶ Sure, it helps “manage packages”...and some will wonder, “what does that mean?”
- ▶ In this talk, we’ll discuss them, their history and evolution (since CF2021)
  - ▶ Using the feature to manage CF updates, setup CF instances, more
- ▶ Can also be used for automation, not just of packages/updates
  - ▶ But also deployment of CF containers
- ▶ And feature to scan your CF code base to find packages needed
- ▶ We’ll discuss the cli tool, the related admin UI page, and more

- ▶ I focus on CF server troubleshooting, as an independent consultant
  - ▶ Assist organizations of all sizes, experience levels
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  - ▶ **Solve most problems in less than an hour**, teaching you also as we go
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    - ▶ More on rates, approach, etc at [carehart.org/consulting](https://carehart.org/consulting)
- ▶ But to be clear, I'm not selling anything in this session! 😊
- ▶ Presentation online at [carehart.org/presentations](https://carehart.org/presentations)

# ABOUT ME

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# WHAT IS THIS “PACKAGE MANAGEMENT”?

- ▶ Its introduction in CF2021, its goal
- ▶ The 50+ “packages” (or “modules”)
- ▶ Its use with CF zip or full installer
- ▶ Its use via CF Admin UI page
  - ▶ or cfpm cli tool...

# THE CFPM CLI TOOL

- ▶ Available as an interactive shell
  - ▶ Or can use imperative arguments
- ▶ Quick demo of both

# MANAGING PACKAGES

- ▶ Adding/removing installed packages (some/all)
  - ▶ `install / uninstall` cfpm commands
- ▶ Listing packages
  - ▶ `list/listall`
- ▶ Getting information on packages
  - ▶ `info`

# UPDATING CF

- ▶ Updating packages (some or all)
  - ▶ `update`
  - ▶ Update technote has table tracking if any packages were updated
- ▶ Its use for performing offline CF updates
  - ▶ CF update technote shows steps
- ▶ Downloading repo
  - ▶ `downloadrepo`
  - ▶ Setting repo download path
    - ▶ `updaterepopath`
- ▶ Purging “felix” cache (via cli or folder mgt)
  - ▶ `purgecache`
  - ▶ `cfusion/bin/felix-cache`

# MANAGING PACKAGES ACROSS INSTANCES

- ▶ Exporting/importing current packages
  - ▶ `export / import`
  - ▶ CF Admin UI
- ▶ Automate packages implemented in CF containers
  - ▶ Point to list of package names or file of export results, using available environment vars
    - ▶ `installModules [list | all]`
    - ▶ `importModules [file]`



# IDENTIFYING PACKAGES NEEDED FOR YOUR APP

- ▶ Have you wondered what packages you may need?
- ▶ `cfpm scan` feature
  - ▶ Fails in `cf2021` after update 5
  - ▶ `CF2023` changed to remove need of url
- ▶ Available `scanandinstall`

# EVOLUTION OF THE PM/CFPM FEATURE

- ▶ Installing package now implements version for your current CF update level
  - ▶ Rather than latest package version
  - ▶ Since Oct 2023 CF updates (for 2021 and 2023)
  - ▶ See doc links to follow
- ▶ Again, removal of “CFSERVERURL” in `scan`
  - ▶ Since CF2023

- ▶ This recording:
  - ▶ [youtube.com/watch?v=EYTW7adg\\_Ao&list=PLG2EHZEbhy0-QirMKgSxhjkUyTSSTvHjL](https://youtube.com/watch?v=EYTW7adg_Ao&list=PLG2EHZEbhy0-QirMKgSxhjkUyTSSTvHjL)
- ▶ These slides:
  - ▶ [carehart.org/presentations/The many capabilities of the CF Package Manager cfpm.pdf](https://carehart.org/presentations/The%20many%20capabilities%20of%20the%20CF%20Package%20Manager%20cfpm.pdf)
- ▶ Adobe docs page on package management (would be 16 pages)
  - ▶ [helpx.adobe.com/coldfusion/using/coldfusion-package-manager.html](https://helpx.adobe.com/coldfusion/using/coldfusion-package-manager.html)
- ▶ Adobe blog post, at release in 2020
  - ▶ [community.adobe.com/t5/coldfusion-discussions/coldfusion-package-manager-cfpm-install-only-what-you-need/m-p/11957024](https://community.adobe.com/t5/coldfusion-discussions/coldfusion-package-manager-cfpm-install-only-what-you-need/m-p/11957024)
- ▶ [helpx.adobe.com/coldfusion/using/docker-images-coldfusion.html](https://helpx.adobe.com/coldfusion/using/docker-images-coldfusion.html)
- ▶ Awesome cf compose repo link on installing packages into docker containers
  - ▶ [github.com/carehart/awesome-cf-compose/tree/master/cf-2021-installmodules](https://github.com/carehart/awesome-cf-compose/tree/master/cf-2021-installmodules)
- ▶ Bug report about CF2021 update 5 breaking cfpm scan
  - ▶ [tracker.adobe.com/#/view/CF-4216277](https://tracker.adobe.com/#/view/CF-4216277)
- ▶ Oct 2023 update change on package mgt version chosen on install
  - ▶ [helpx.adobe.com/coldfusion/using/coldfusion-package-manager.html#cfpm-changes](https://helpx.adobe.com/coldfusion/using/coldfusion-package-manager.html#cfpm-changes)
  - ▶ [helpx.adobe.com/coldfusion/kb/coldfusion-2023-update-5.html#package-update](https://helpx.adobe.com/coldfusion/kb/coldfusion-2023-update-5.html#package-update)
  - ▶ [helpx.adobe.com/coldfusion/kb/coldfusion-2021-update-11.html#package-update](https://helpx.adobe.com/coldfusion/kb/coldfusion-2021-update-11.html#package-update)

# RESOURCE LINKS

- ▶ The CF Package Management feature (and cfpm tool) has far more aspects to it than most would realize
  - ▶ Some relate solely to “managing packages”, some to updating CF, or automating instance creation, or analyzing code for needed packages, etc
  - ▶ The feature has also evolved since release, and should continue to
- ▶ My contact info for follow-up:
  - ▶ Charlie Arehart
  - ▶ [charlie@carehart.org](mailto:charlie@carehart.org)
  - ▶ @carehart (Slack, Github, X, Fb, Li, Skype, etc.)
  - ▶ Slides: [carehart.org/presentations](http://carehart.org/presentations)

## SUMMARY