

Configuraⁿ

A] Configⁿ → set of params / consts that ~~is~~ multip parts of our sys / app use so we store em in a separate (seemingly isolated) file and access em everywhere

Use 1: storing config files for params that affect certain code blocks in your app in a certain manner dependin on what envmt you're in → devmt, prodⁿ, testin

B] FORMAT:
Usually config files are stored in json or .yaml but they can be stored in any format and depends on kinda work people's pref., etc. but it pretty much doesn't differ in terms of overall fⁿality of the file

C] 2 types of configⁿ:

1) Static config: Configⁿ bundled with code so if you wanna change any specific param in config file, you gotta redeploy entire code (i.e. make it go thru entire testing, code review process etc.) cuz configⁿ is packaged with code

Advantage: Each time you submit code to code-base, code undergoes thorough review process. ∴ if change might break the app, the breakage will likely be caught in personal tests, quality

assurance tests (testin that happens before app is deployed). Safer approach

Cons → Slower to see changes as entire app's gotta be redeployed

2) Dynamic Config: "Config" is completely separated from app code. ∴ "Config" changes are instantaneous in app.
This is a bit complex as its backed by a dB that your app is queryin to see what the curr. "config"

Use: eg:- build a UI on top of a config. ∴ any changes in UI → super easy to implement, visualize. w/o redeployment of app code

Pros: Fast changes in app. Deployin new ~~thin~~ features real fast.

Cons: Risky cuz not a lotta thorough review, testing.

Implementa: "Dynamic config" is used with tools built around it to make it safe

eg:- i) buildin a review sys on top of a UI built on top of ~~config~~ "dynamic config"

ii) access controls → only certain ppl in org can make "config" change

iii) build deployment sys around "config"

eg:- app related to configⁿ is deployed only after specific periods of time

period of time after which app is deployed automatically

eg:- twice / week

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period of time after which configⁿ changes are deployed

eg: twice / day

a build deployment sys. around configⁿ

iv) Only few users (say 1%) actually see the configⁿ change for the 1st few hrs/days after app deployment