**Definition of bounded context**

when two separate organizations/modules have knowledge on the same context but they have different definion

**Transitioning of a monolithic application**

separate the database definitions for each modules

add an API layer to each module for the entry to that module

separate the deployment units per module/service

separated domains should not be dependent on a parent object, they should be their own

replicated domains will have their own database representations

each separated module can now implement their own technology stack based on their necessities

each separated module can also scale up on their own pace depending on the hit rate

**12-Factor App (https://12factor.net/)**

1. Codebase

= one codebase, one app

= dependencies should not be reliant to other apps

2. Dependencies

= making each app self-encapsulated

3. Config

= separate the configurations from the code; no hard-coded configurations should exist

= environment variables are recommended

4. Backing Services

= attached resources

5. Build, Release, Run

= separate build and run stages

6. Processes

= you want it to become stateless; make persistence explicit

7. Port Binding

= allow apps to be invoked via standard protocol; determine which endpoints you want to expose

8. Concurrency

= provide additional scalability by calling a separate process on a different server

9. Disposability

= a process can be started and shut down anytime and in a quick succession

10. Dev/Prod parity

= make sure that Dev and Prod to be the same as much as possible; to enable to replicated errors whenever it is already uploaded to the cloud

11. Logs

= treat logs as event streams; just use sysout

12. Admin Processes

= building an admin process

Cinder ---

Gogs --- to host your own Git server

**Dynamic Reconfiguration**

/bus/refresh = will send refresh to all clients, instead of calling the /refresh for each

**Hystrix Dashboard**

= can only display a record when there is at least one request to a method with a circuit breaker

**Feign Client**

= enables an interface to be subject for instrumentation

**Sleuth and Zipkin**

Trace ID = represents the journey of the request

Zuul

Better to create an API gateway first to insulate the incoming requests

6cfe3508-c3ce-42c3-989c-38f8c655bdaa

curl -XGET -H "Authorization: bearer 6cfe3508-c3ce-42c3-989c-38f8c655bdaa" http://localhost:8787/