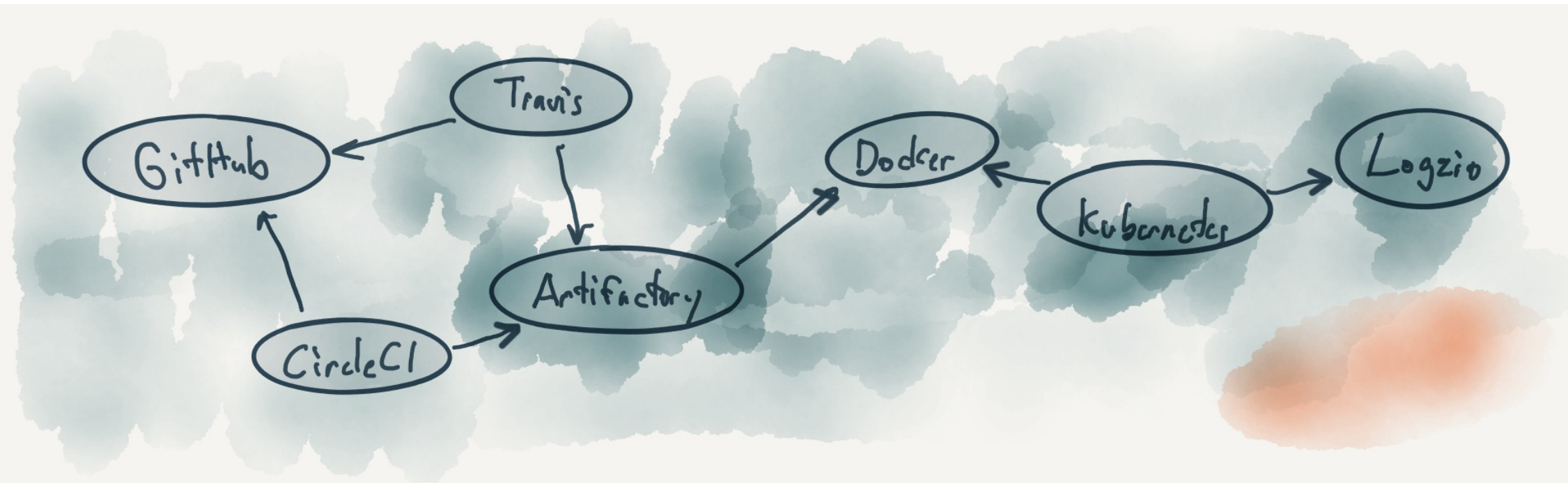# ATOMIST

Helping Good Ideas Spread

LAST UPDATED APRIL 1, 2016

(VER. 1.3)

LIST OF CLOJURE PRACTICES THAT HAVE BUILT UP FOR US

- Building the Docker Container
- Storing secrets in Vault
- Managing Kafka Consumers and producers
- Setting up Handlers for REST apis
- Kubernetes sPECS
- Health checks and status checks
- rules for Exposing public HTTP
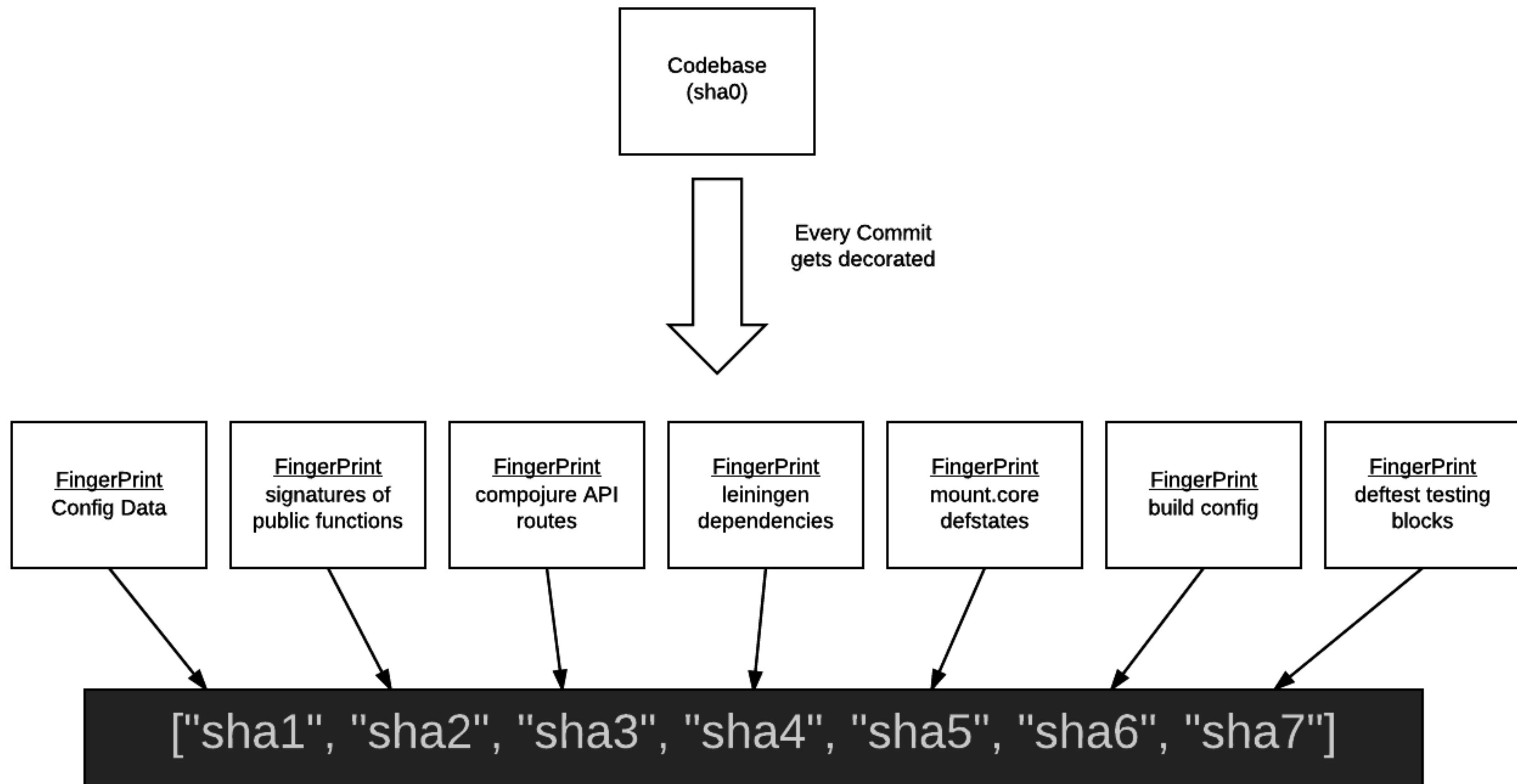- connecting to Dynamo
- Logging formats
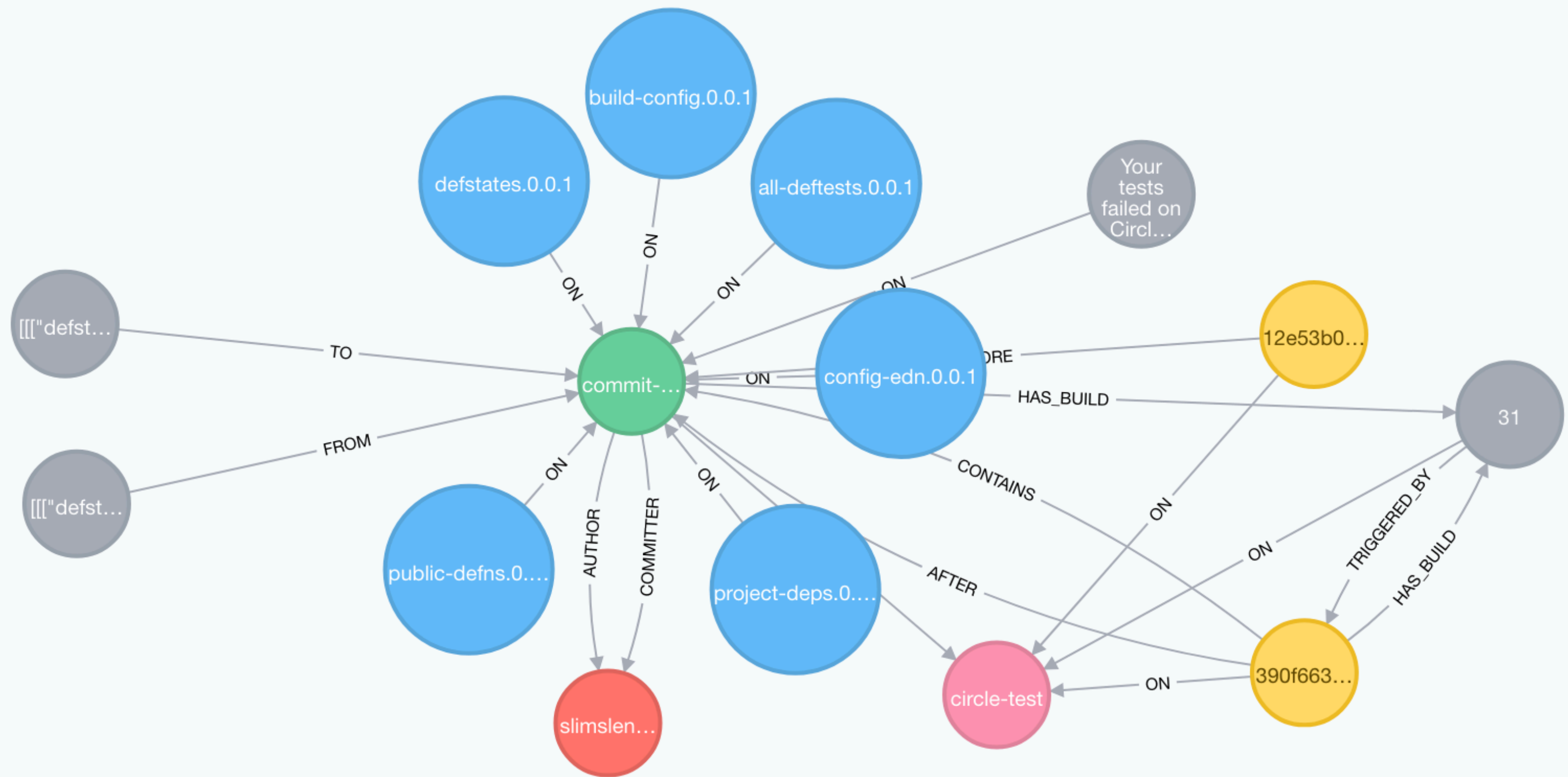
TEACH THE BOT TO BE MORE HELPFUL
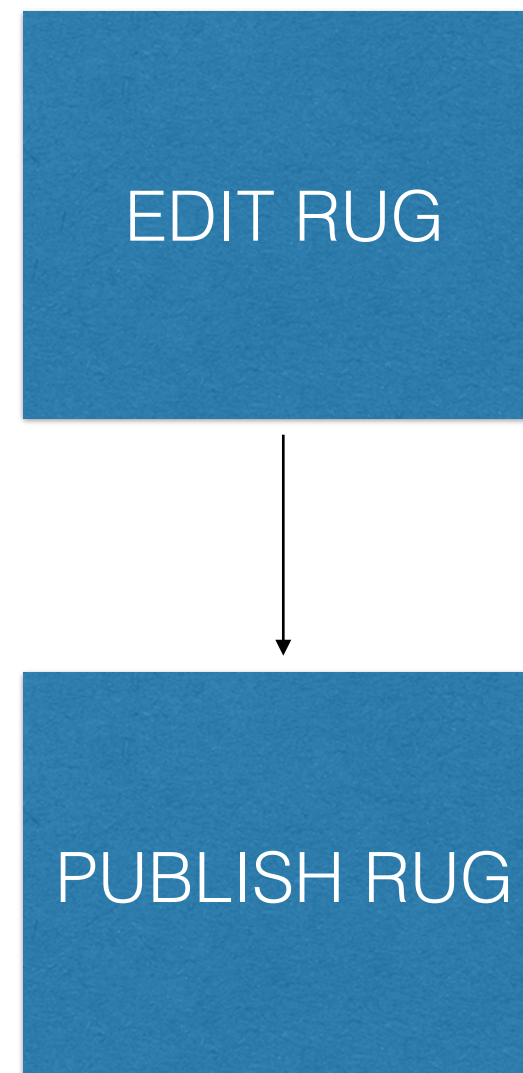
OBSERVING THINGS

- CI Builds

- New Docker Containers in Artifactory

- New Pods Scheduled, or Stopped

- Changes in Static code analysis

Codebase
(sha0)

Every Commit
gets decorated

FingerPrint
Config Data

FingerPrint
signatures of
public functions

FingerPrint
compojure API
routes

FingerPrint
leiningen
dependencies

FingerPrint
mount.core
defstates

FingerPrint
build config

FingerPrint
deftest testing
blocks

["sha1", "sha2", "sha3", "sha4", "sha5", "sha6", "sha7"]

DEMO
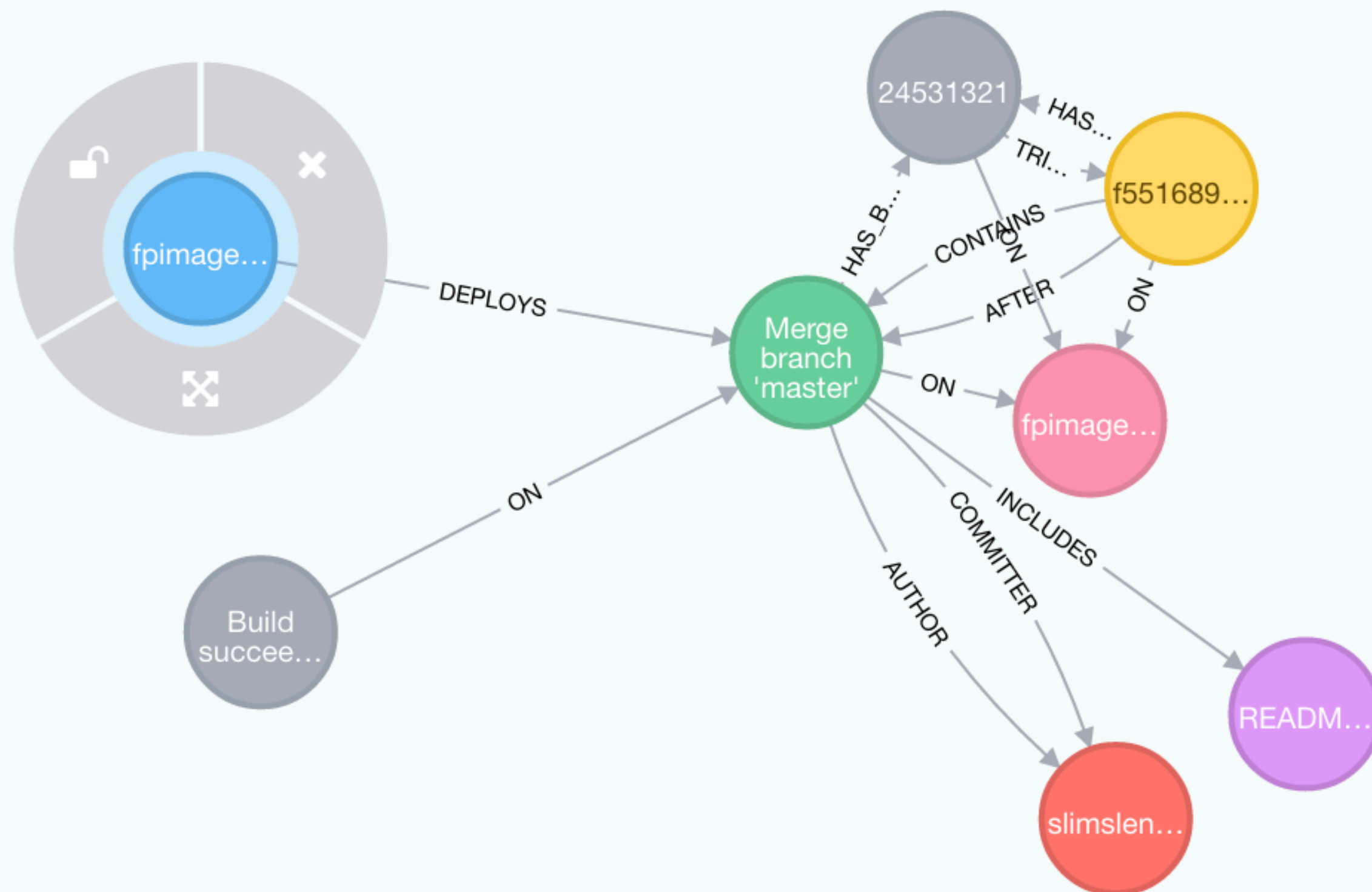
FINGERPRINTS

- Discoverable - run whatever fingerprints are relevant for a codebase
    - use Github "Source" metrics or check the fingerprint in to the REPO
- Cheap to Store
- Easy to Compare
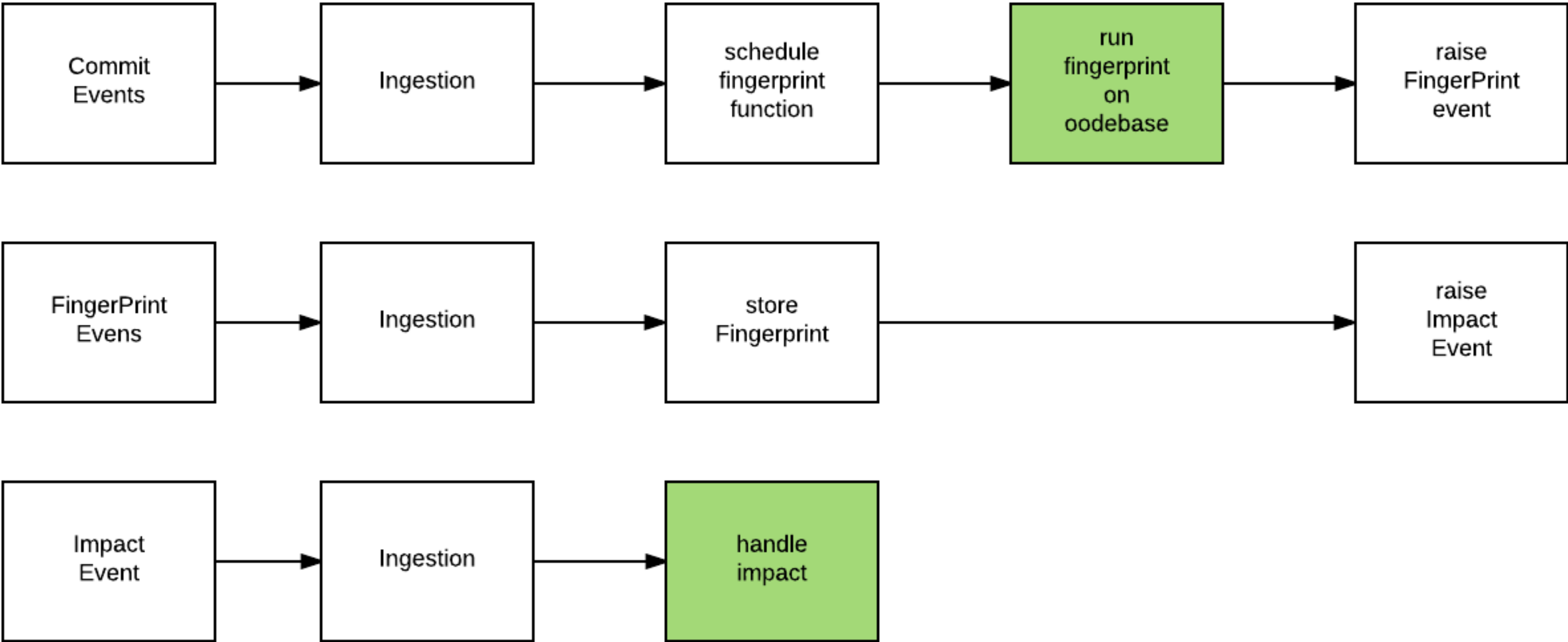- the diff is always there if we need to drill down

DIFFERENT KINDS OF IMPACT

- from parent(s)
- From HEAD of BASE during a PULL REQUEST
- From a TAG
- From a RELEASE
- Basically, from a SHA that is tagged with at least some of the same Fingerprints

DETECTING IMPACT

```
Commit     →  Ingestion  →  schedule    →  run         →  raise
Events                       fingerprint    fingerprint    FingerPrint
                             function       on             event
                                            oodebase
```

```
FingerPrint  →  Ingestion  →  store       →            raise
Evens                          Fingerprint              Impact
                                                        Event
```

```
Impact   →  Ingestion  →  handle
Event                     impact
```
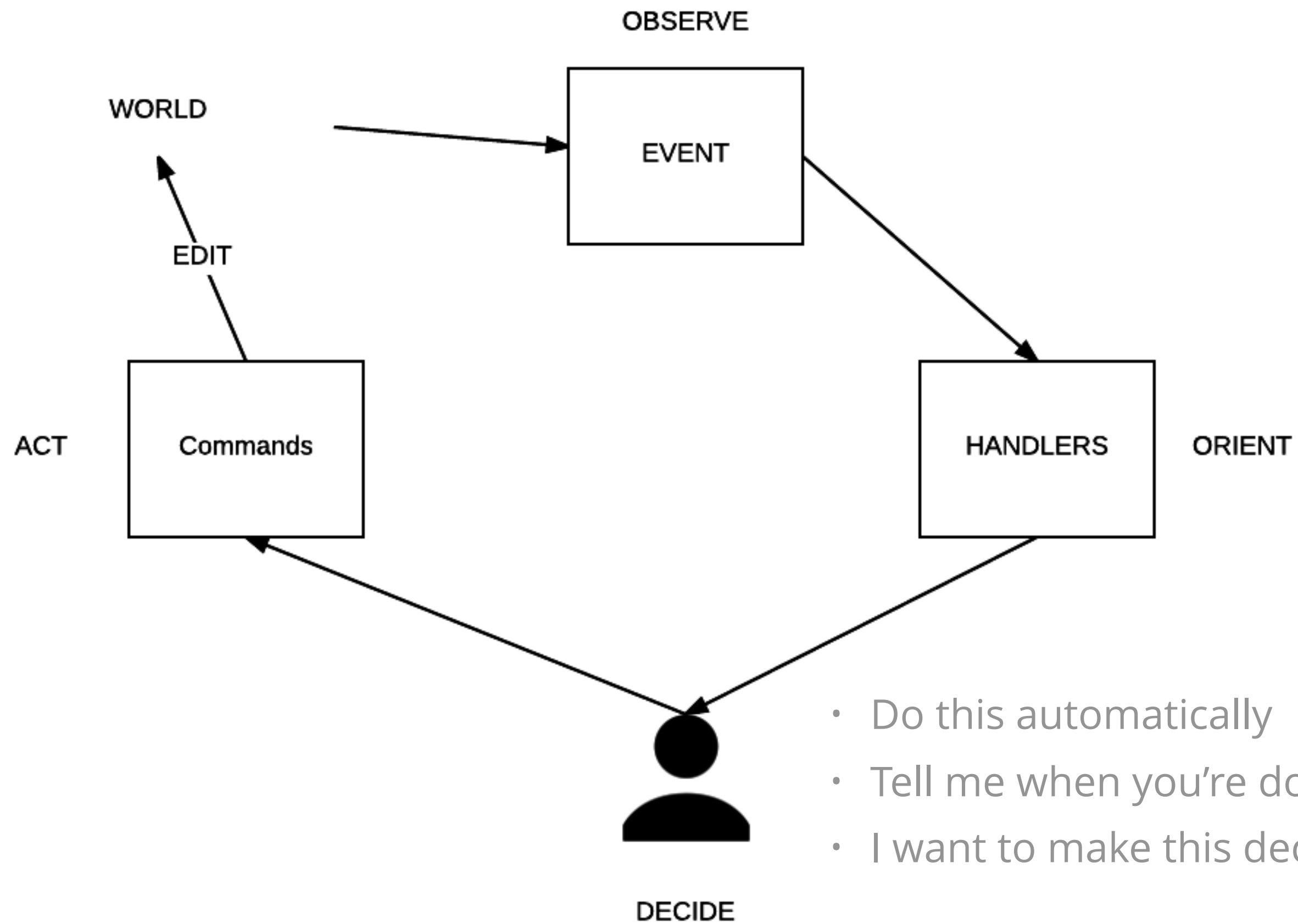
HANDLERS

MODEL

- Repos -> Channels
- Repos -> Commits
- Commits -> Fingerprints
- Impacts -> Commits
- Match (n:Repo {name: "X"}) return n

ACTIONS

COMMANDS ARE BORING

- Do this automatically
- Tell me when you're doing things as me
- I want to make this decision manually

DEFERRING AUTHORIZATION

```
@CommandHandler("CreateGitHubIssue", "Create an issue on GitHub")
@Tags("github", "issues")
@Secrets("github://user_token?scopes=repo")
@Intent("create issue")
class CreateIssueCommand implements HandleCommand {
```

KNOWLEDGE ACQUISITION STRATEGIES

```typescript
@Parameter({ description: "The issue body", pattern: "^.*(?m)$" })
public body: string;


@MappedParameter(MappedParameters.GITHUB_REPOSITORY)
public repo: string;


@MappedParameter(MappedParameters.GITHUB_REPO_OWNER)
public owner: string;
```

MODEL

- match (n:Commit)-[]-(r:Repo {name: "cljservice"}), (n)-[:AUTHOR]-(id:GitHubId)-[]-(p:Person) return n,r,id,p
- match (n:K8Spec {name: "view"}) return n

- CommitHandler Question: "Who is slimslenderslacks?"
- Answer: @jim
- ResponseHandler: "@jim, you have not authorized. your GitHub account"

CAST OF CHARACTERS

· **Cljservice-rugs** -> updated the base generator code

· **Circle-CI Rugs** -> added a button to a BUILD EVENT

· **GitHub Rugs** -> used an EXISTING create issue command handler

· **FingerPrint Rugs** -> created a message from an Impact event
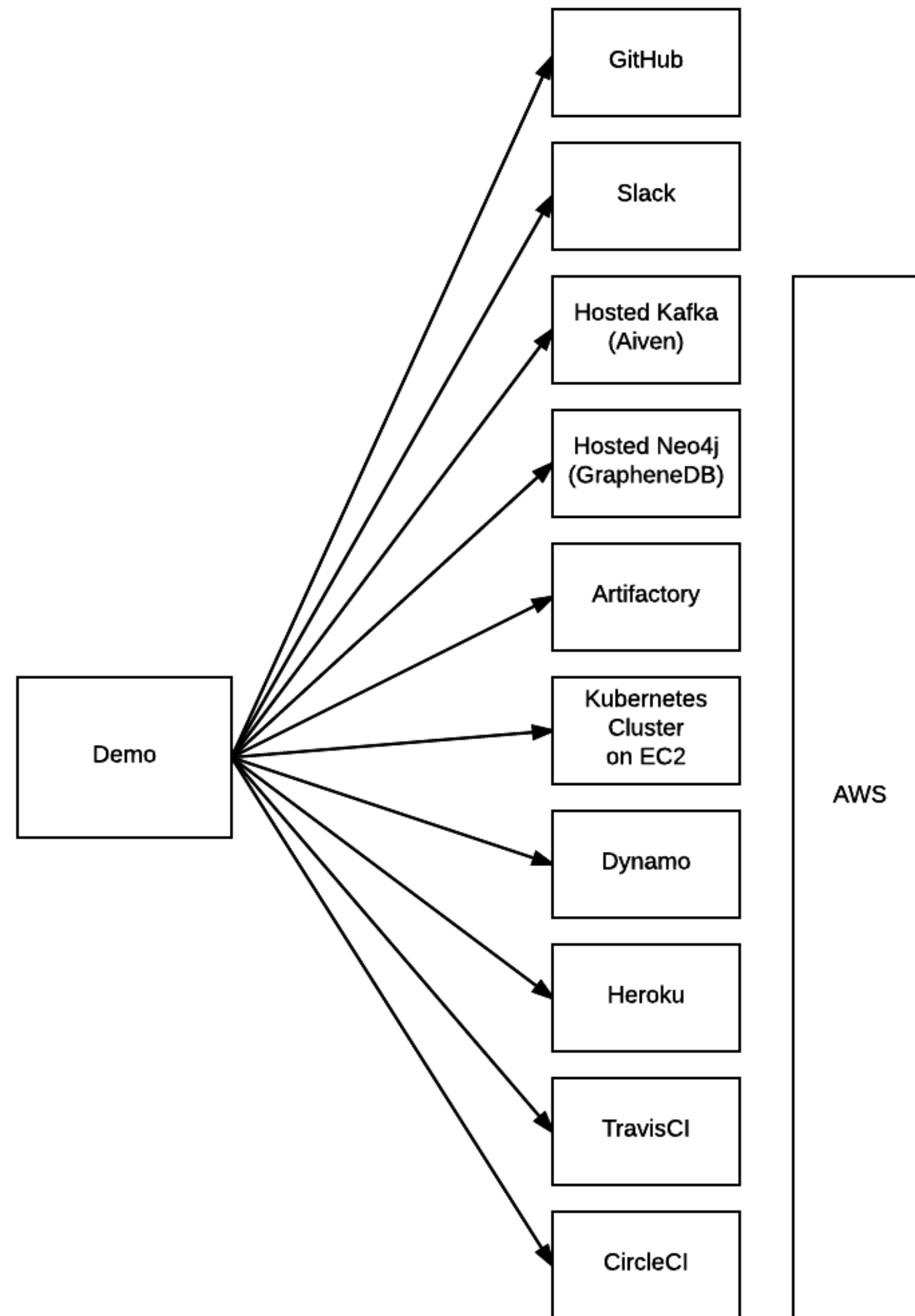
When we join a team, we're learning the codebase, but we're also learning how the team operates

- tools
- processes
- Idioms
- Automation as a long-running conversation between the team and processes being automated.

- channels that are only Bot notifications
- updating messages
- Collapsible messages
- "Selectable" actions
- better use of horizontal space

9:41 AM tanya I know slack-sink doesn't even subscribe to that event 🙂 so unless something else subscribes to it directly I don't think it would work. And we saw in community slack that it didn't relink automatically when we renamed channels (edited)

I'm not sure neo4j is the right repo for this - just the closest one to the linkage 🙂

9:42 AM ben 👓 Heh well that's probably not going to work then 🙂 Still neo4j-ingester is leading the pack on this!

👍 1

10:56 AM atomist APP 1 new commit to atomisthq/neo4j-ingester/master

@whostolebenfrog
5c9398d Update README.md

✅ Build #304 passed on travis

🏷 Tag 0.1.0-20170425T155806Z created

Release

⎈ Pod started neo4j-ingester-2939098604-qb9aw
April 25th at 11:03 AM

(edited)

- channels that are only Bot notifications
- rollups!!!

Merge

@claymccoy
`f547eda` Rug availability is now at archive level

✅ Build #196 passed on travis

(edited)

─────────────── Today ─────────────── new messag

:23 AM **atomist** APP **@claymccoy** merged 1 commit from **rugAvailabilityAtArchiveLevek** to **master**

⎇ atomisthq/rug-catalog
#87 Rug availability is now at archive level
Today at 8:23 AM

2 new commits to **atomisthq/rug-catalog/master**

@claymccoy
`d4ea5b9` Merge pull request #87 from atomisthq/rugAvailabil...
`f547eda` Rug availability is now at archive level

✅ Build #197 passed on travis

🏷 Tag 0.1.0-20170501132532 created

Release

⚙ Pod started rug-catalog-2900789562-60982
Today at 8:30 AM

(edited)