Flow Commerce

Flow is a next-generation solution for taking merchants global - more at https://flow.io

We are about to launch and are hiring – email roth@flow.io if interested

Flow uses Docker for…

- Local development environment (workstation)
  https://github.com/flowcommere/workstation
- Building custom base images (Play & PostgresQL)
  https://github.com/flowcommerce/docker
- Continuous Integration (Travis CI)
  https://travis-ci.org/flowcommerce/delta
- Continuous Delivery (Delta)
  https://github.com/flowcommerce/delta
- External APIs
  https://github.com/flowcommerce/goutils
- Production (AWS/ECS)

Open Source!

github.com/flowcommerce

Right now, let's make a change…

in Production

Key Stages in Delta

- Syncs GitHub SHAs with master branch

- Syncs tags & applies new one

🐳 Creates/Builds Docker Hub Automated Build

- Scale

More on CD @ Flow
http://www.slideshare.net/mbryzek/nyc-continuous-delivery-meetup-introducing-delta

Now, back to Development

Docker for Mac

Simple

Containers referenced via `localhost`

Developers install less (e.g. No Virtual Box)

CLIs at Flow

Ruby ⟹ Go

- CLI essentially "baked in"

- Get stuff done - repetitive tasks (e.g. repo tagging, environment variable updates in S3, check kinesis, etc.)

- Binaries can be passed around, and they "just work"

  - Super useful for non-tech

- Robust

Application Dependencies

Flow manages dependencies with Registry

https://github.com/flowcommerce/registry

```
- id: example
  ports:
    - healthcheck:
        host: vm
        port: 9001
      external: 9001
      internal: 9000
  dependencies: [example-postgresql]
```

Application Dependencies

- Implement custom health checks (with substance)

- Loosely couple dependencies

  - No extends or links needed

- No volumes

- Use S3 for environment variables (in Dev & Prod)

External APIs

Docker Hub API

https://github.com/flowcommerce/external-apis/blob/master/docker/hub.json

Docker Registry

https://github.com/flowcommerce/external-apis/tree/master/docker

Clients integrated with applications like Workstation and Delta

Workstation

Sample Process Flow

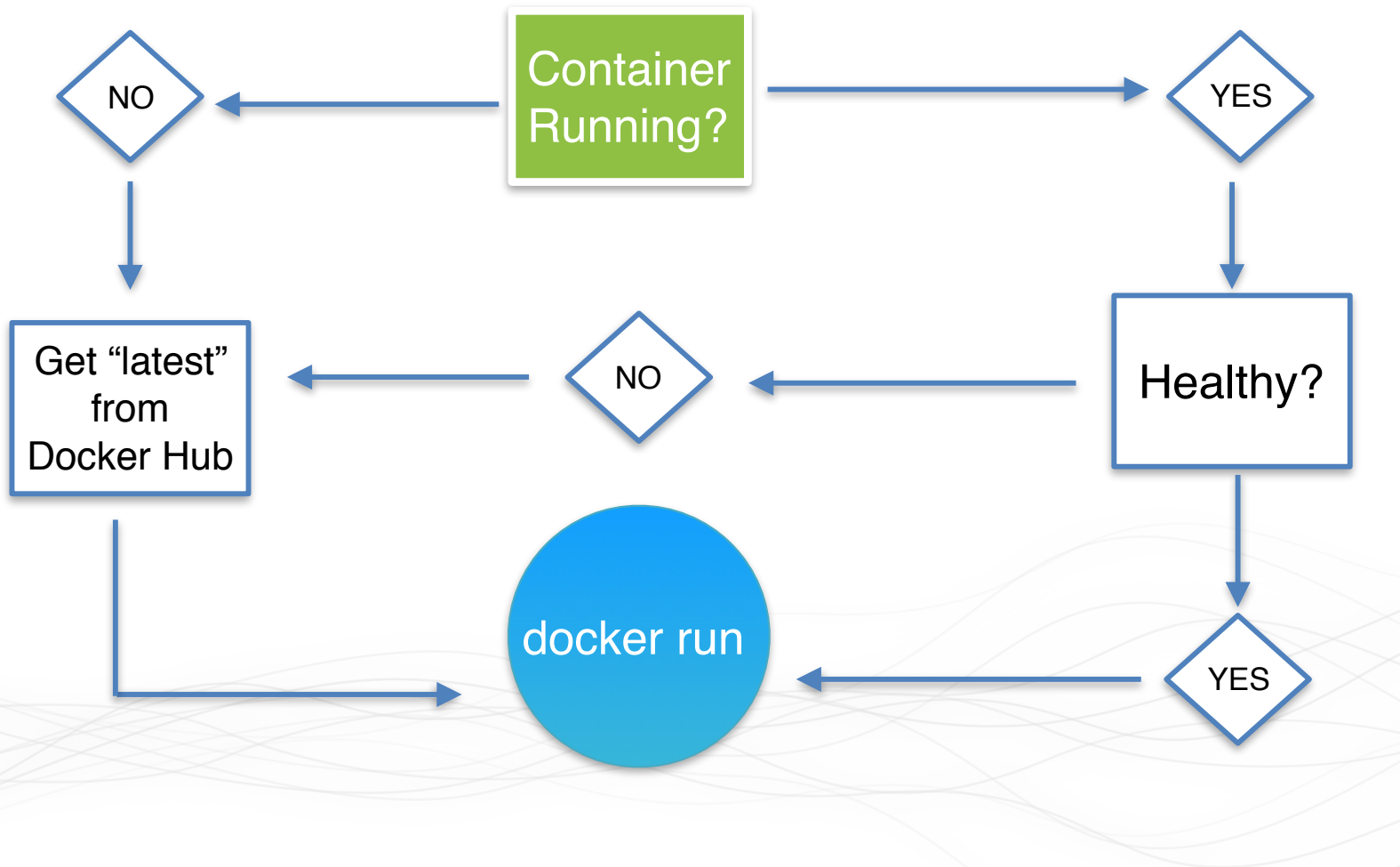For example: ***workstation up —app www***

🐳 Checks YAML configuration for app details

🐳 Recursively checks for **upstream dependencies** and maintains **priority order** (based on their upstream dependencies)

Sample Process Flow (up)

Live Demo

Let's Check Prod

and send some Docker love!

Thank you!

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@DevsClimbRock