

Introduction to **Git & CI/CD**

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About me

- Kartik Pandya; you can call me *KP*
- MS Comp Sci; UMass Boston Alumni
- Senior Director of Engineering @ Manhattan Associates
- 16 Years with Manhattan; 22 Years working as a dev
- Favorite tech: Java, Spring, CI/CD, Microservices, Docker, Kubernetes, Go



Today's Topics

- The App that we'll build
- The Version Control System where we'll maintain our code
- The Continuous Integration will make our code ready to ship
- The Continuous Delivery for deploying the app we shipped
- Going beyond into the real world



The App

- Sundarbans: Know Your Tigers
- Java code
- Spring Boot app
- Web APIs with REST
- Unit testing the app

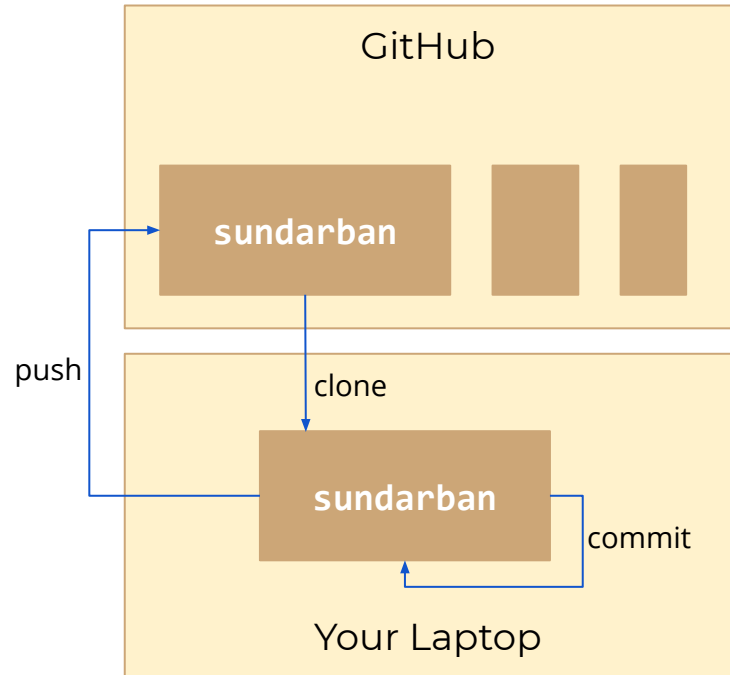


The (Distributed) Version Control

- Basics of a DVCS
- Git
- `git clone`
- `git commit`
- `git push`
- `git merge`


Reference Repository:

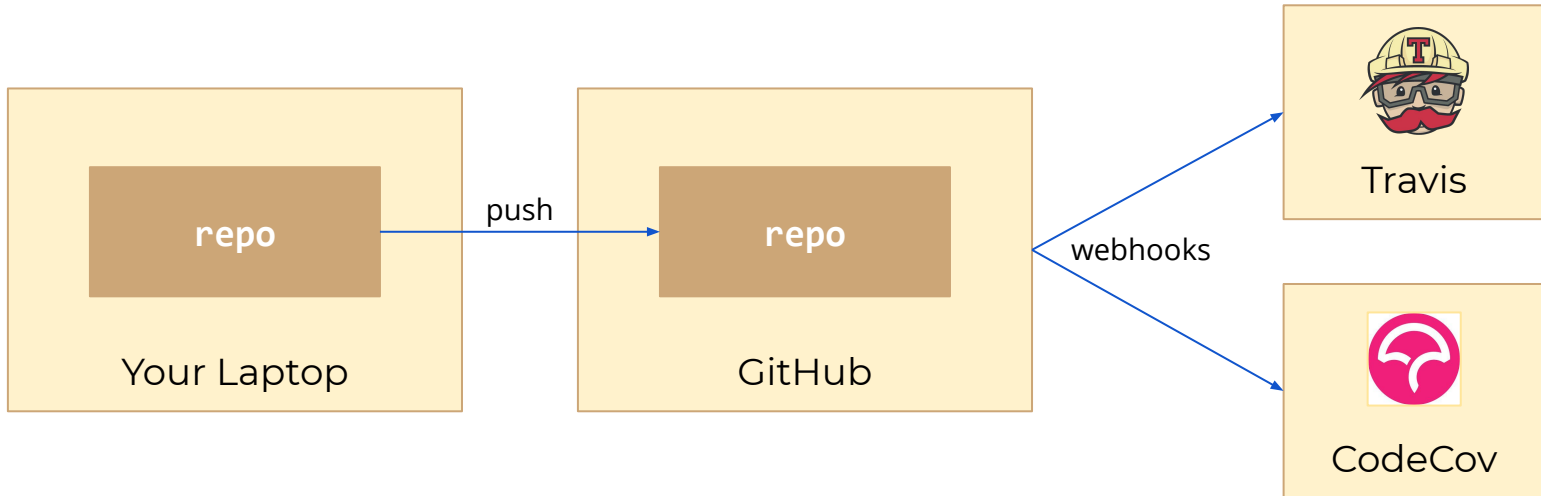
<https://github.com/dearjadu/sundarban.git>





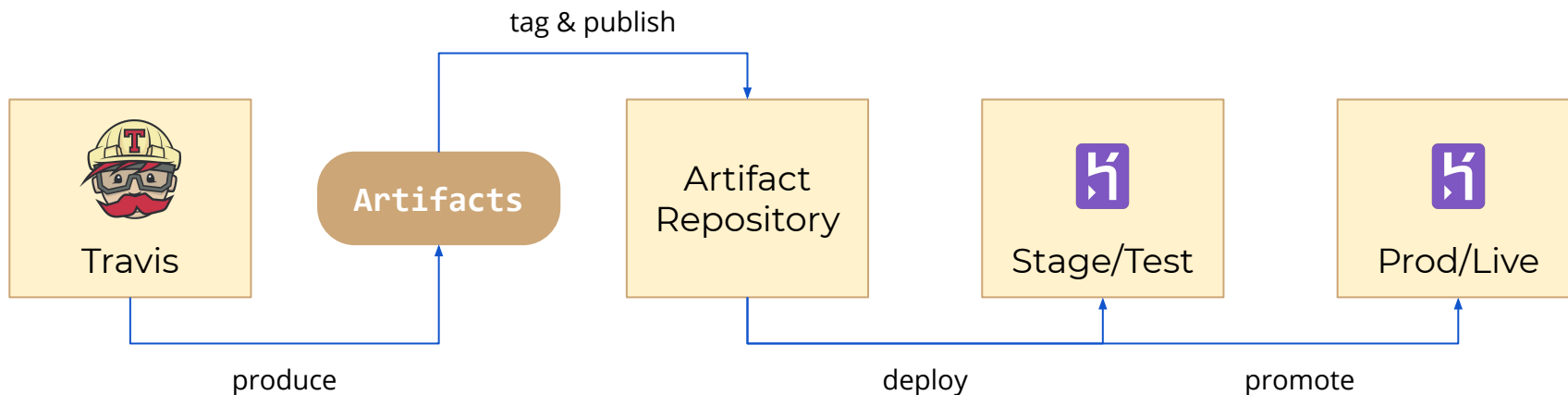
The Continuous Integration

- Building on Push
- Test Automation
-  Code Coverage



The Continuous Delivery

- Release Management
- Shipping the bits
- Automatic deployment



Going Beyond

CI/CD at Manhattan Associates

- 600 devs
- 8M+ lines of code
- 200+ microservices w/ Docker
- 30K+ tests
- 1000+ builds a day
- 350+ artifacts produced a day

