

# ADD0

ALL DAY DEVOPS

NOVEMBER 6, 2019

Fabian Iannarella

DevOps is a Journey:  
Choose your own  
adventure





# DevOps is a Journey :

*Choose your own adventure*

**460**degrees

# About Fabian Iannarella

*DevOps Champion  
@ 460degrees*

fabian.iannarella@460degrees.com

: @fiannarella

: [in: /in/fabianiannarella/](https://www.linkedin.com/in/fabianiannarella/)



# Today's Adventure!

**What will we discuss?**

*What is DevOps?*

*How to get started with DevOps?*

*A real life example!*

*AND inspire you to start your journey!*



# Why is DevOps important to you ?

---

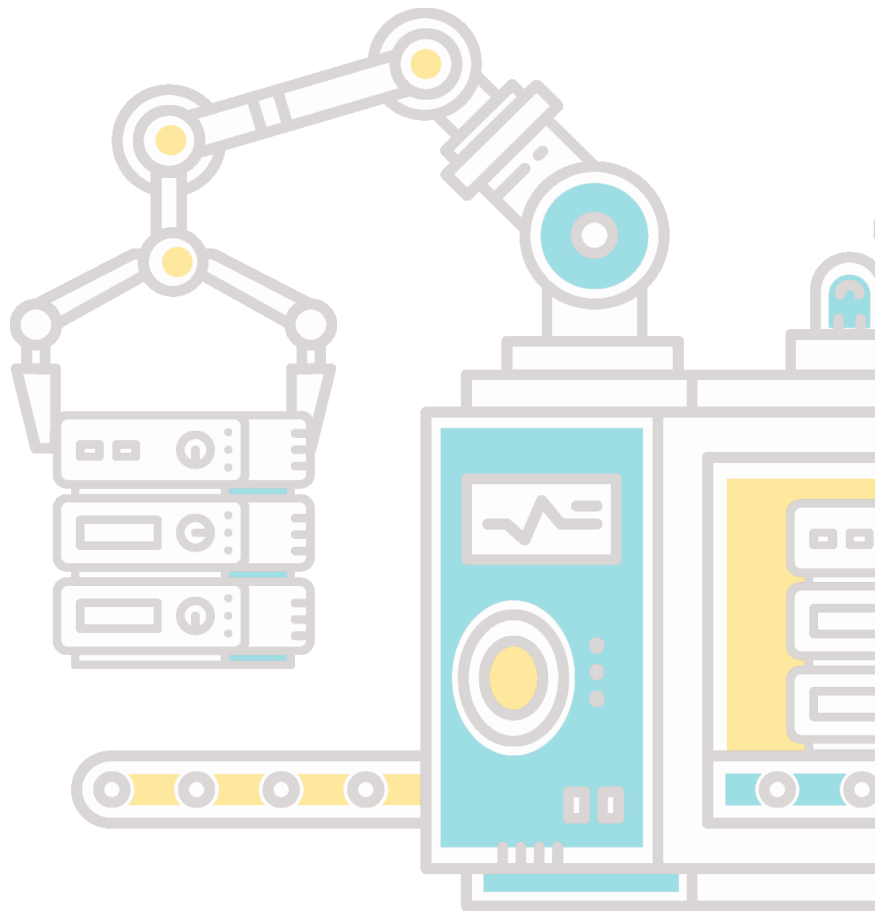
Common answers I have heard

*I'm too **busy** to talk about this right now!*

*Production releases are **painful**!*

*Everyone else is **doing it**!*

*There's a DevOps team and nobody understands  
what they do*



**460**degrees

# What is DevOps about?

---

Is it about technology?

*Continuous Integration (CI)?*

*Software delivery?*

*The cloud?*

*Automation and tooling?*





# DevOps is a way of working *enabled by* technology

It's all about:

- Creating Cross Functional Teams
- Delivering Customer Value
- Continual Improvement
- Feedback

# Build a Plan & Start Small

---

*Focus on :*

- Pain Points
- Automation
- New Projects





# Build a Plan & Start Small

---

*Then :*

- Set some goals
- Measure them
- Enable teams
- Establish Collaboration



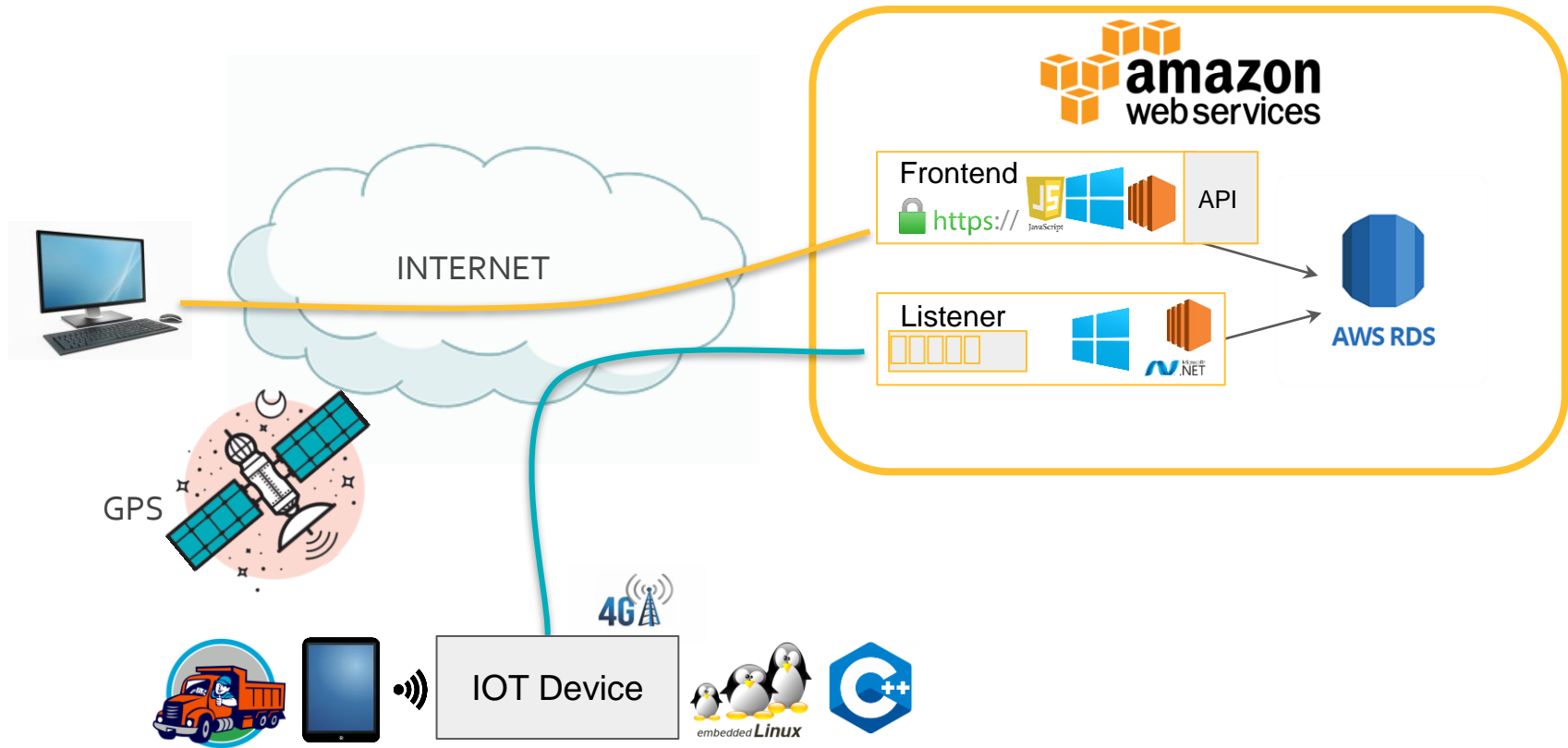
# Build a Plan & Start Small

---

## *Remember :*

- Keep it simple
- Start small
- Share everything
- Find more Adventures





# Vehicle Telemetry

460degrees

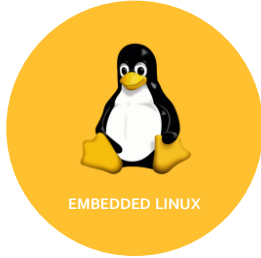
# MEET THE TEAMS

---



Software  
Developers

Tools used:



Embedded  
Team

Tools used:



Infrastructure  
Team

Tools used:



Testing  
Team

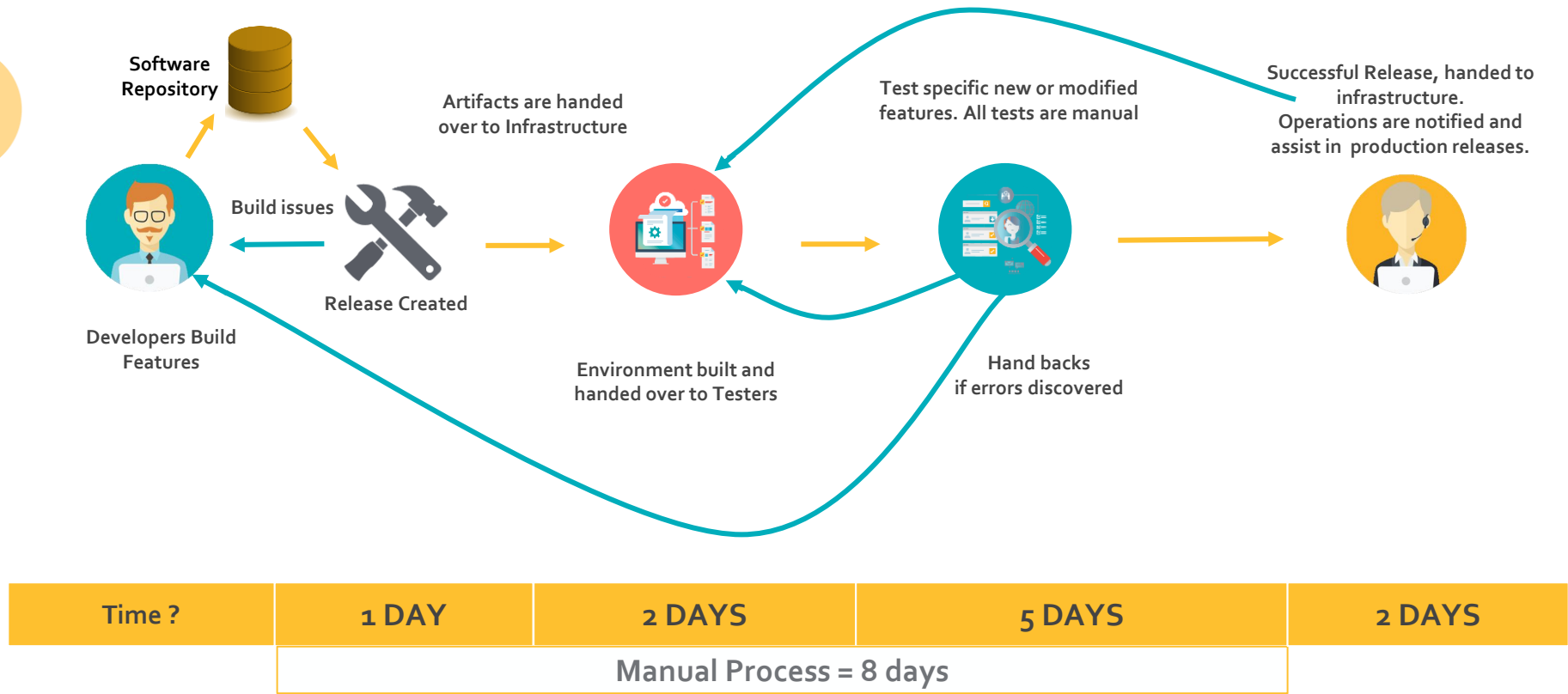


Operations  
Team



# What's Important

- Product delivery times
- We need to scale our product
- Data integrity
- Reliability
- Security



# Software Deployment & Support

460degrees

# TECHNOLOGY

## *Opportunities for improvement*

---

### Quick Wins:

- Automate the build process
- Self service environment builds for Devs and Testers

### Longer-term

- Build a framework to automate tests
- Load testing

### Even Longer-term

- Platform re-architecture
- Micro Services or Serverless event driven system
- Containerisation





# CULTURE

## *How to drive those improvements*

---

*Create Team(s) to build new capabilities*

- Cross functionality: Include people from different teams
  - Complement them with consultants or new starters
- Build these NEW capabilities using a customer centric approach
  - Showcase your product!

**\*\*WARNING\*\***

*These teams could become another siloed team!*





# Meet The Capabilities Team

Building things to help other teams go faster

**460**degrees



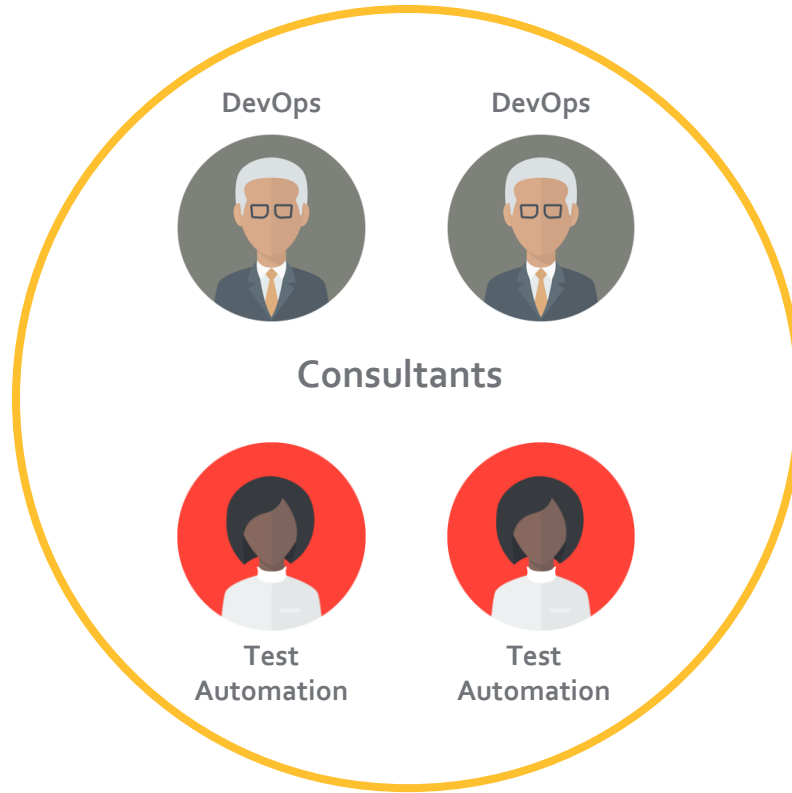
Infrastructure

On Demand



Testers

On Demand



DevOps

DevOps

Consultants

Test  
Automation

Test  
Automation



Developers

On Demand

# Meet the Actual Capabilities Team

460degrees

# CULTURE

## *Risks and Countermeasures*

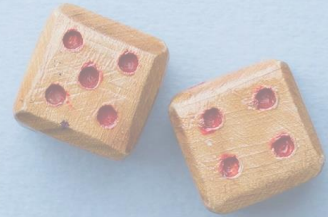
---

### Risks:

- Regression when contractors leave
- Experiences and Knowledge is not transferred other teams

### Countermeasures:

- Place permanent staff member in charge of the initiative
- Regular showcases
- Constant communication and conversations



# Building Infrastructure pipelines

## *Keeping it simple*

---



Infra Code  
& Config  
Commit

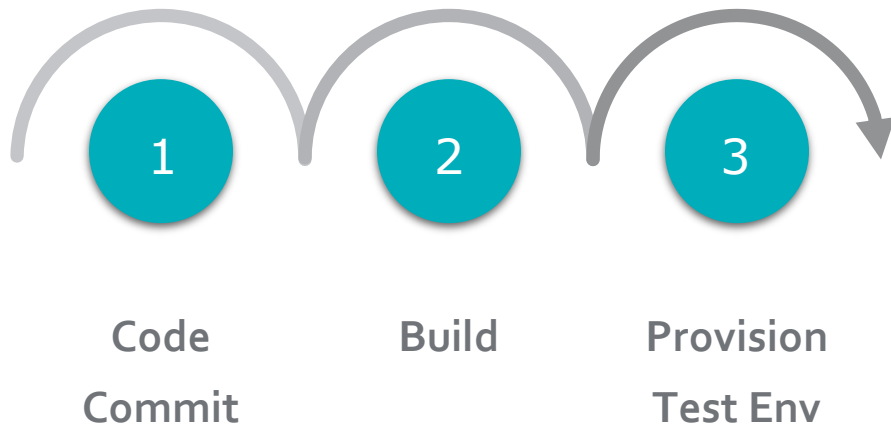
Create  
Cloudformation

Provision Env

# Building software pipelines

## *Keeping it simple*

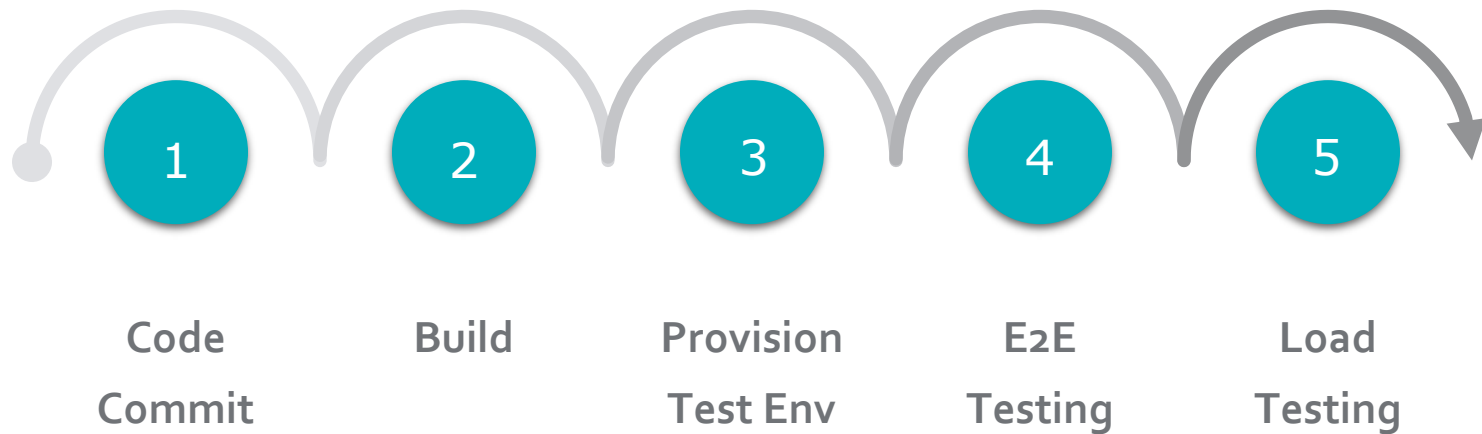
---

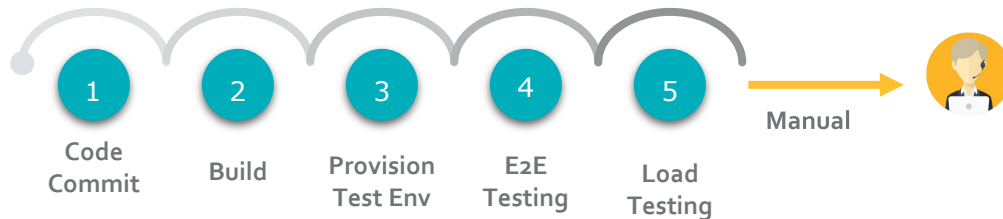
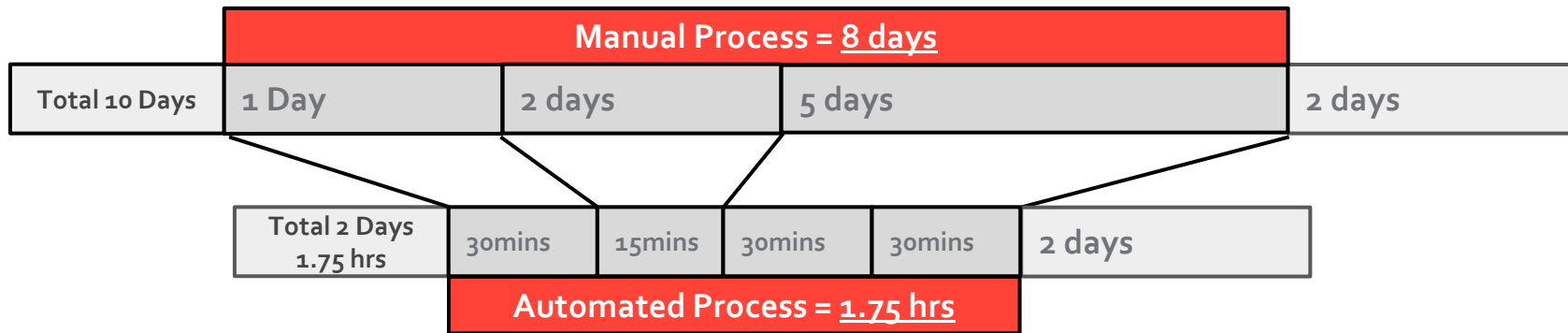


# Building pipelines

## *Extended*

---





# Manual vs Automated

460degrees



# Lets Recap

---

- Work out what's important
  - Measure your progress
- Build a team & encourage collaboration
  - Start small and iterate
  - Share everything
- Choose your next adventure



## SPONSORS

Sponsorship packages for All Day DevOps are available. If your organization is interested, please contact us for details.

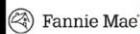
### DIAMOND SPONSORS



sonatype



### GOLD SPONSORS



### COMMUNITY ADVOCATES AND VIEWING PARTY SPONSORS



### MEDIA SPONSORS





# Fabian Iannarella

*DevOps Champion  
@ 460degrees*

fabian.iannarella@460degrees.com

 : @fiannarella

 : [in/fabianiannarella/](https://in/fabianiannarella/)



#2019addo-culture



**460**degrees