

How to become a DevOps Expert? (Q&A Live Session 1)

18/4/2020 18:00 London Time/BST

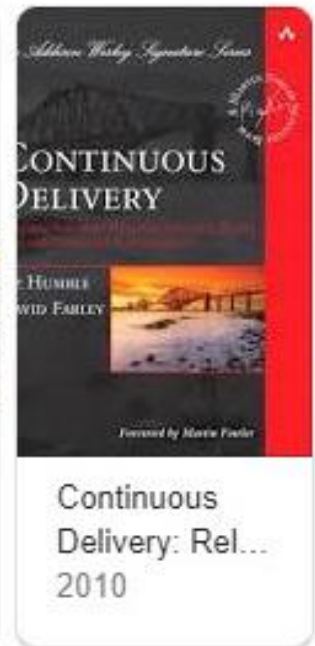
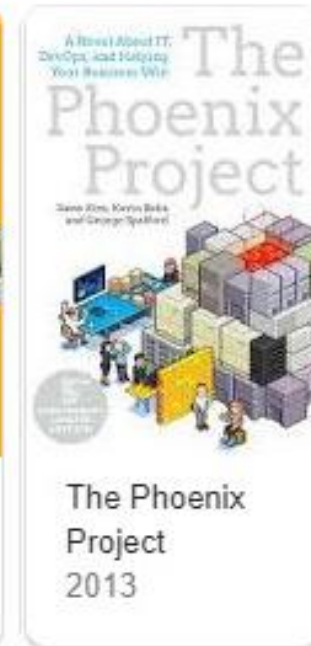
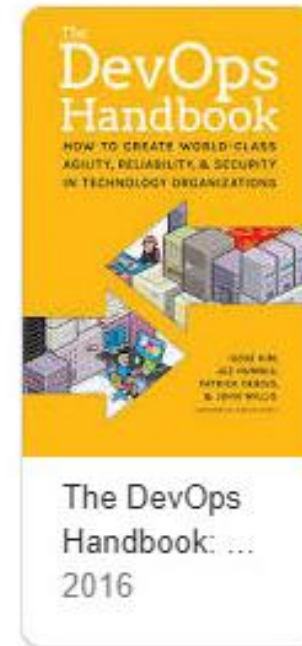
April 18, 2020, 18:00 BST



Mohamed Radwan
Principal DevOps Consultant



Blog: www.mohamedradwan.com





Mohamed Radwan

Principal DevOps

Principal Cloud DevOps Consultant

With 17+ Years of Experience, Helped 50+ companies around the globe

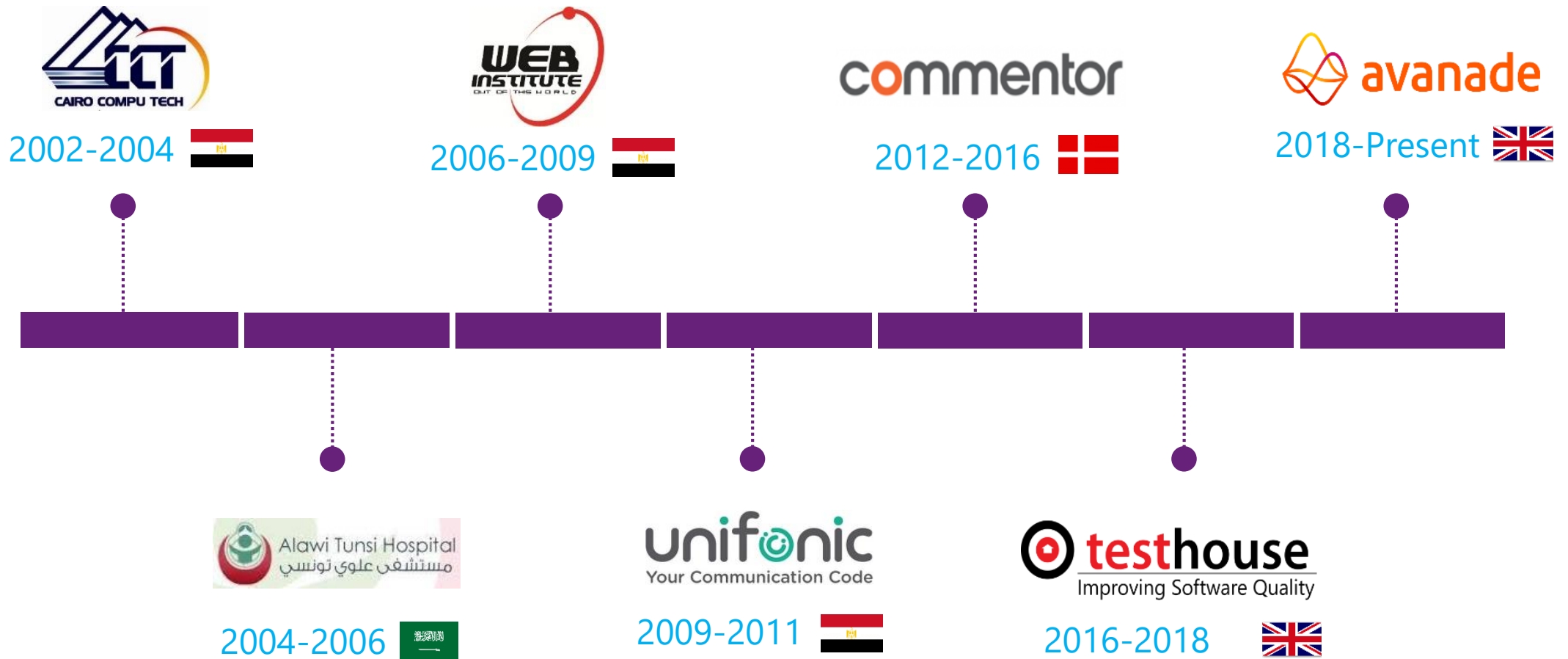


Blog: mohamedradwan.com

Twitter: [@mradwan06](https://twitter.com/mradwan06)

Work History & Locations

FORTUNE
500



Guides, Open Source & Extensions



Migrate to VSTS



Agile Testing



DevOps Principles



Migrate TFS 2012



Upgrade TFS 2013



Upgrade TFS 2010



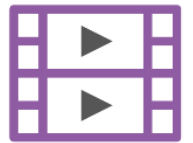
Integration Testing Framework



TFS Counter



Videos and Posts



300+
VIDEOS



22.000+
VIEWS/MONTH



1.200.000+
VIEWS



5.000+
SUBSCRIBERS



10.000+
LIKS



400+
BLOG POSTS



18.000+
VISIT/MONTH



A — B

800.000+
TOTAL VIEWS



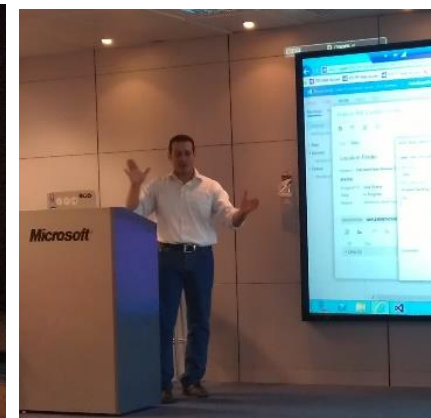
14.000+
UNIQUE
VISITS/MONTH



300+
REGISTER
USERS

Events, Sessions & Workshops

100+ Sessions
5000+ Attendees

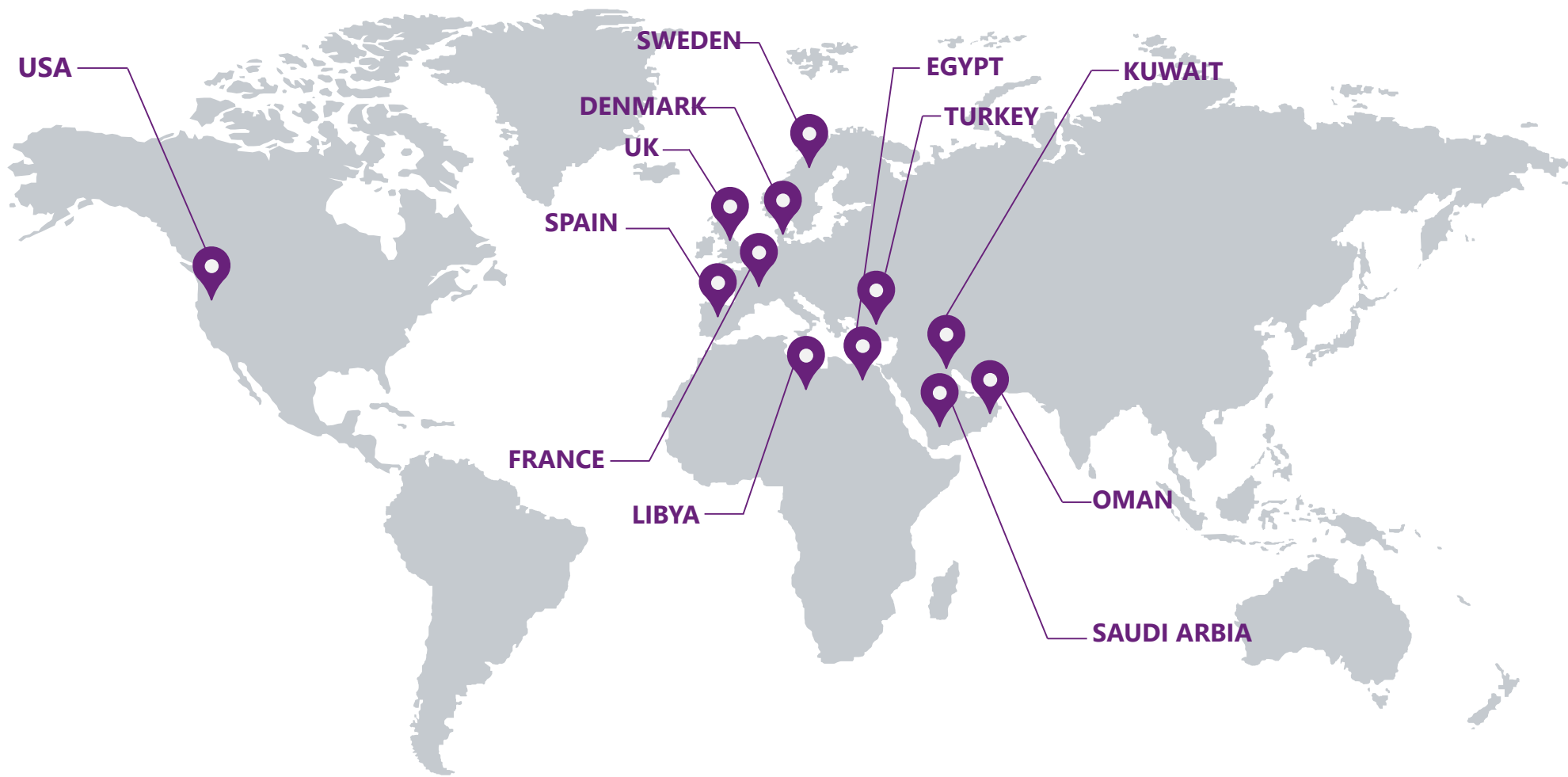


Mohamed Radwan

mohamedradwan.com

Global Experience

12+ Countries



Projects

Session/Events

Workshops

Training

Your support really needed and appreciated!



Like



Share



Comment



Subscribe



Activate
Notification



Survey

DevOps Plan



Lead Time VS Cycle Time and How Kanban/Lean Can...



Understanding Continuous Integration and Continuous...



What is microservices & containers | Why...



Docker For Beginners Step by Step Tutorial



Run Unit Testing in Docker Container | CI/CD Pipelines ...



Securing Your Application, Infrastructure, Environment...



Deploying Infrastructure Automatically To The Cloud...



Deploying Infrastructure Automatically To The Cloud...



Multi-Stage CI/CD Pipelines as Code with YAML For Azu...



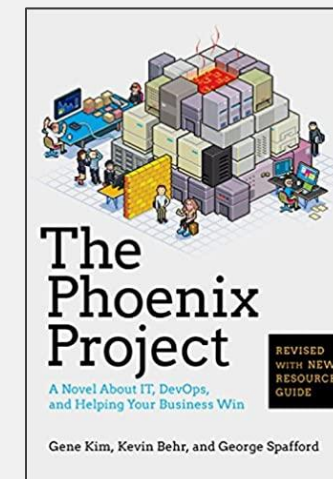
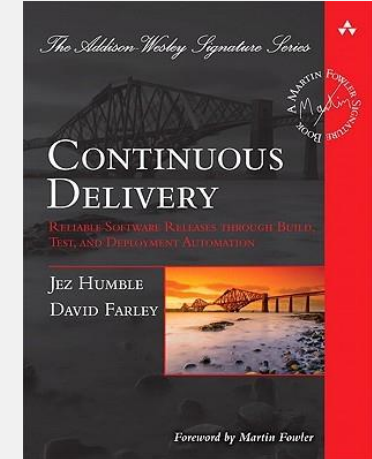
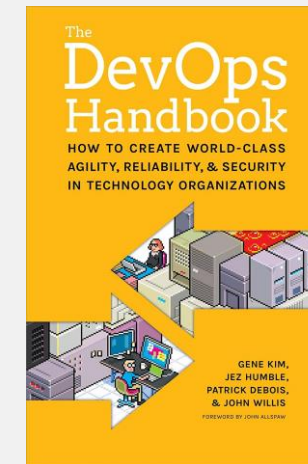
Deploy Docker image to Kubernetes Cluster | CI-CD...



Deeply Understanding of Azure Pipelines Agent | Lea...



Mastering Git From Beginner to Advanced Step by Step...



12 Videos

3 Books

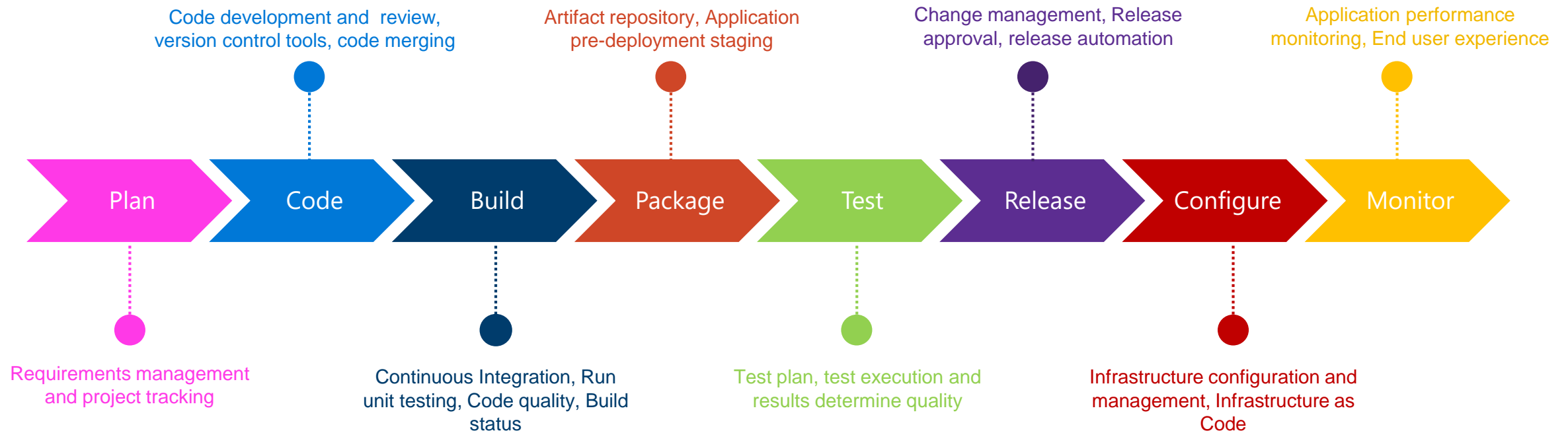
What I am going to present?



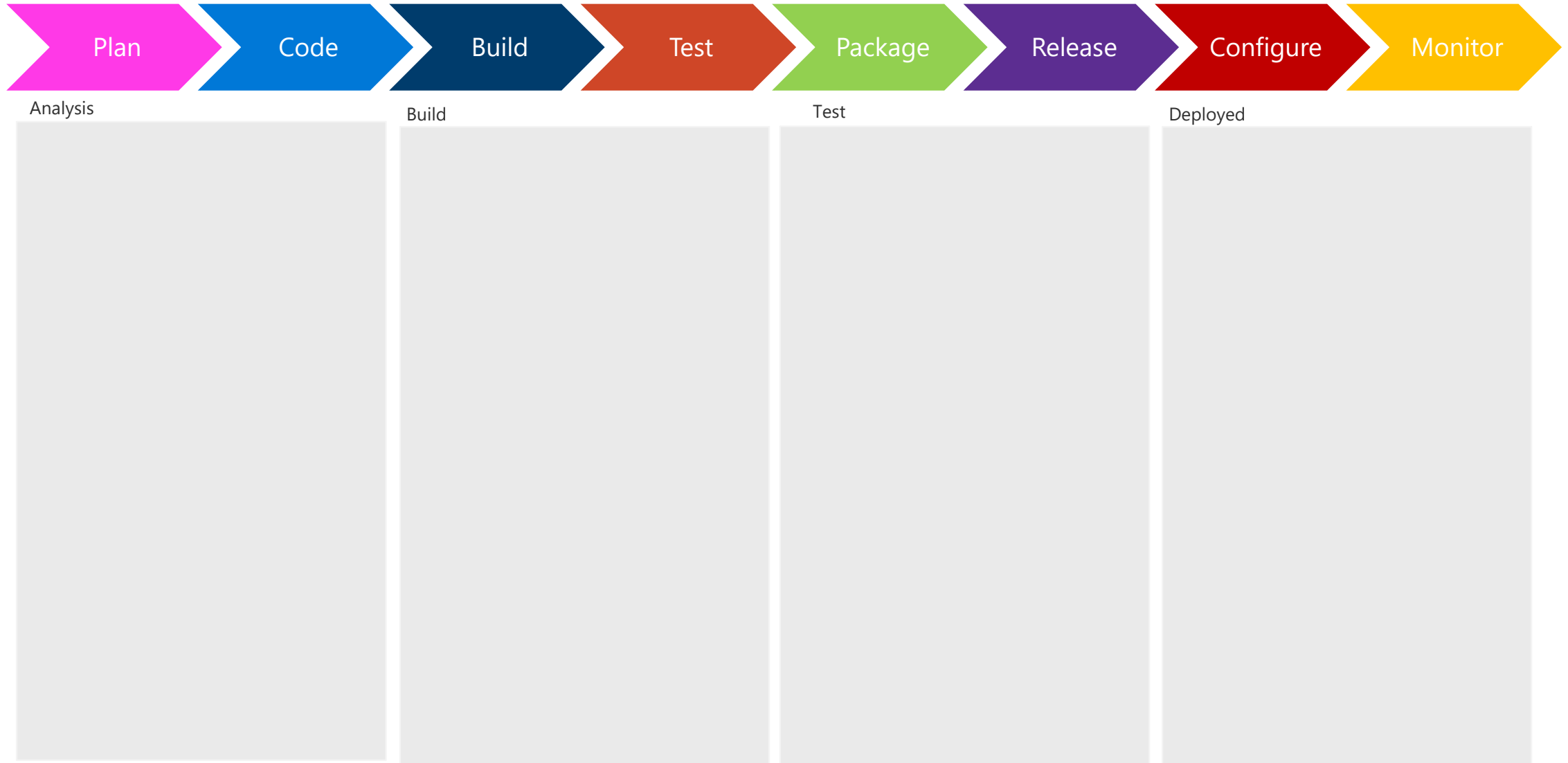
300+

DevOps

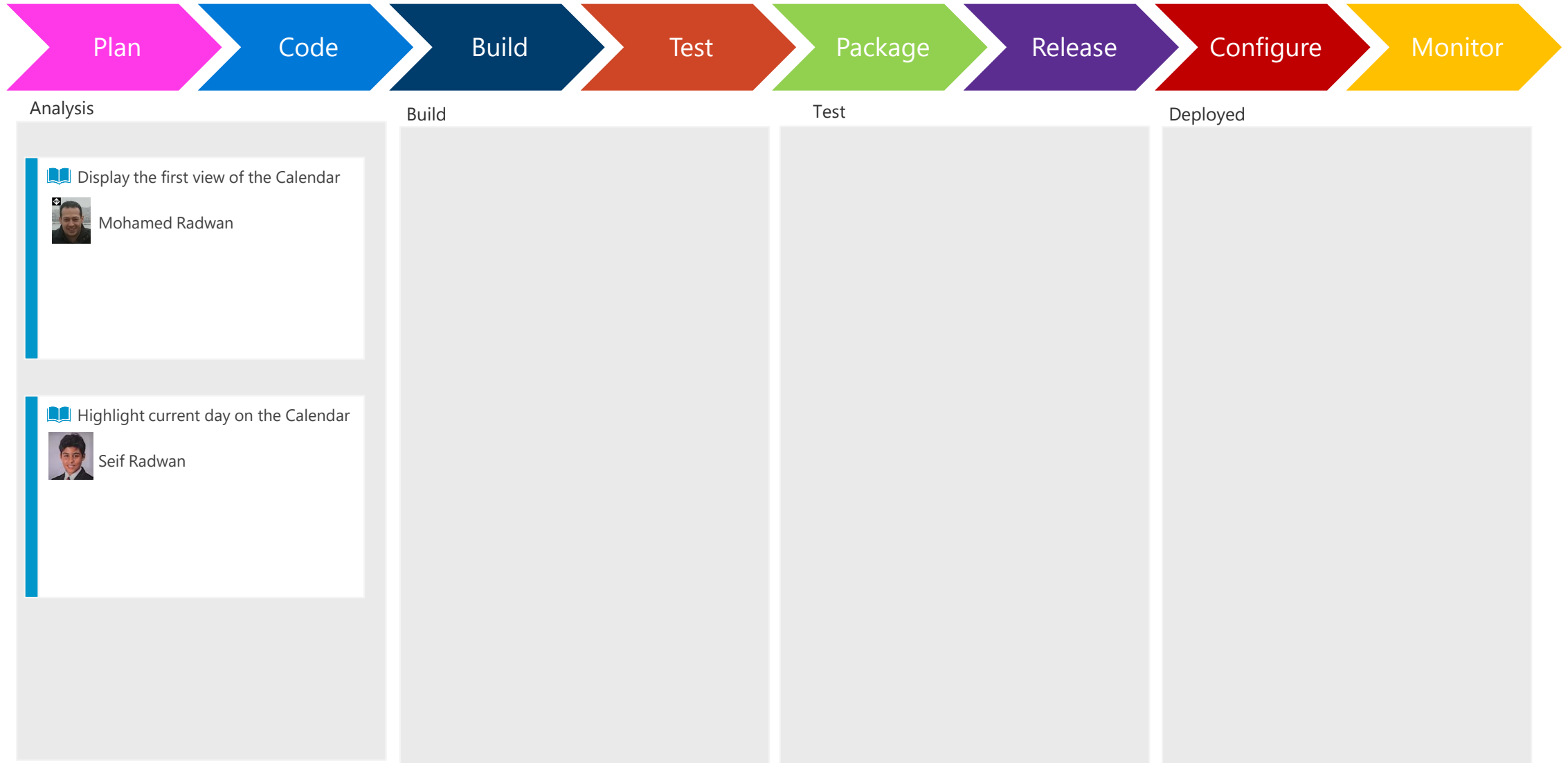
The End-to-End Life Cycle



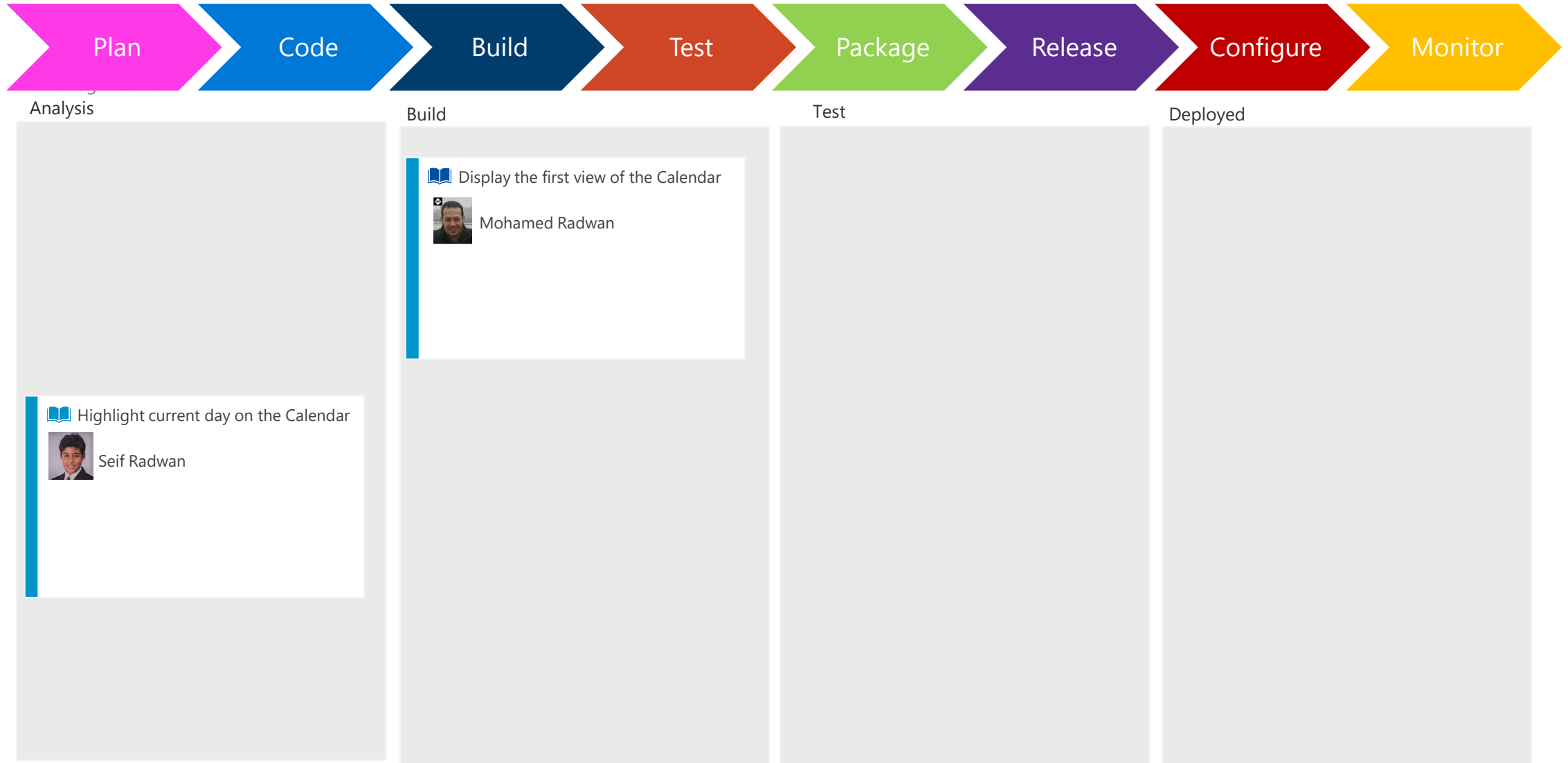
Lead Time And Frequency of Deployment



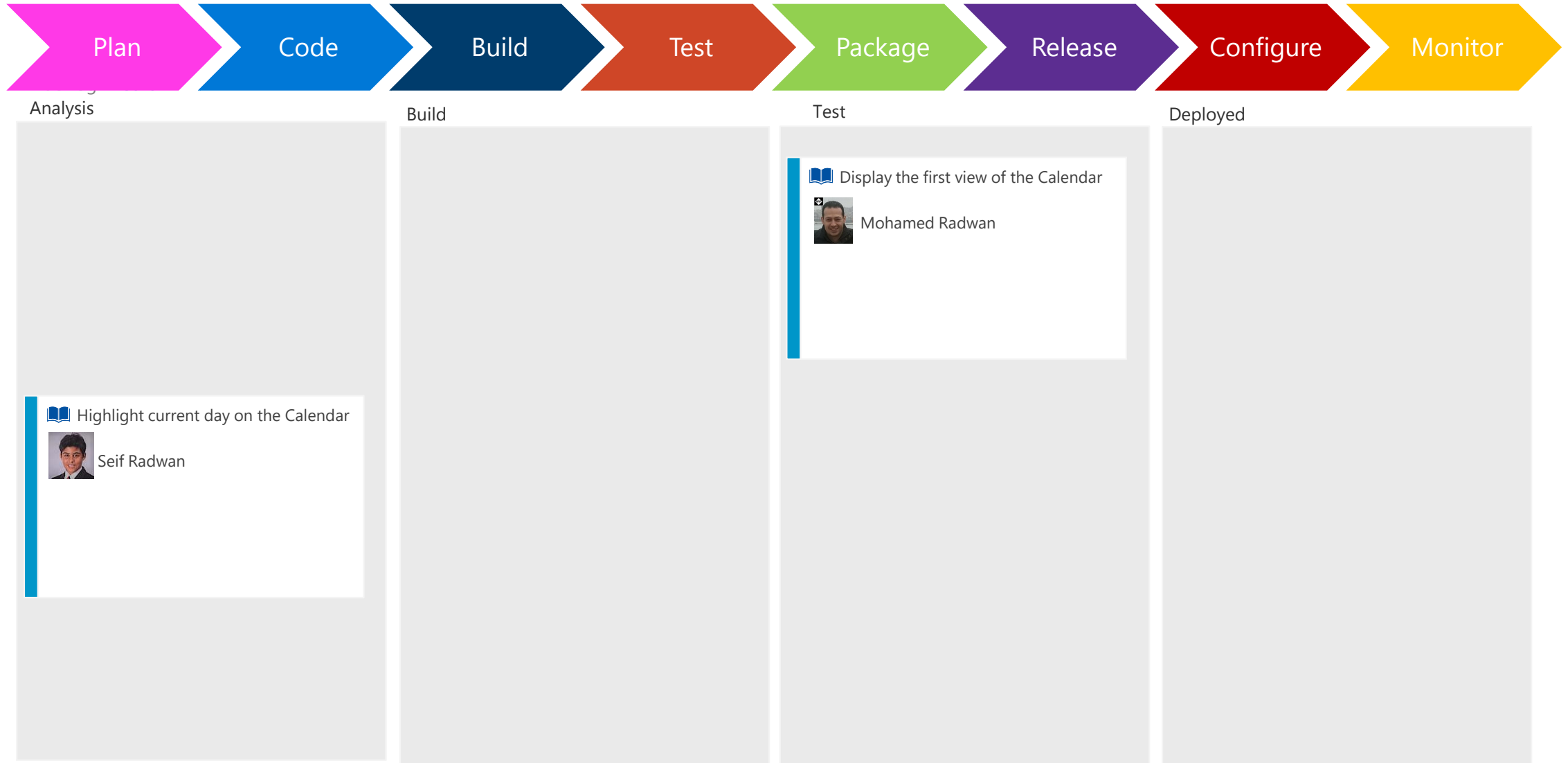
Lead Time And Frequency of Deployment



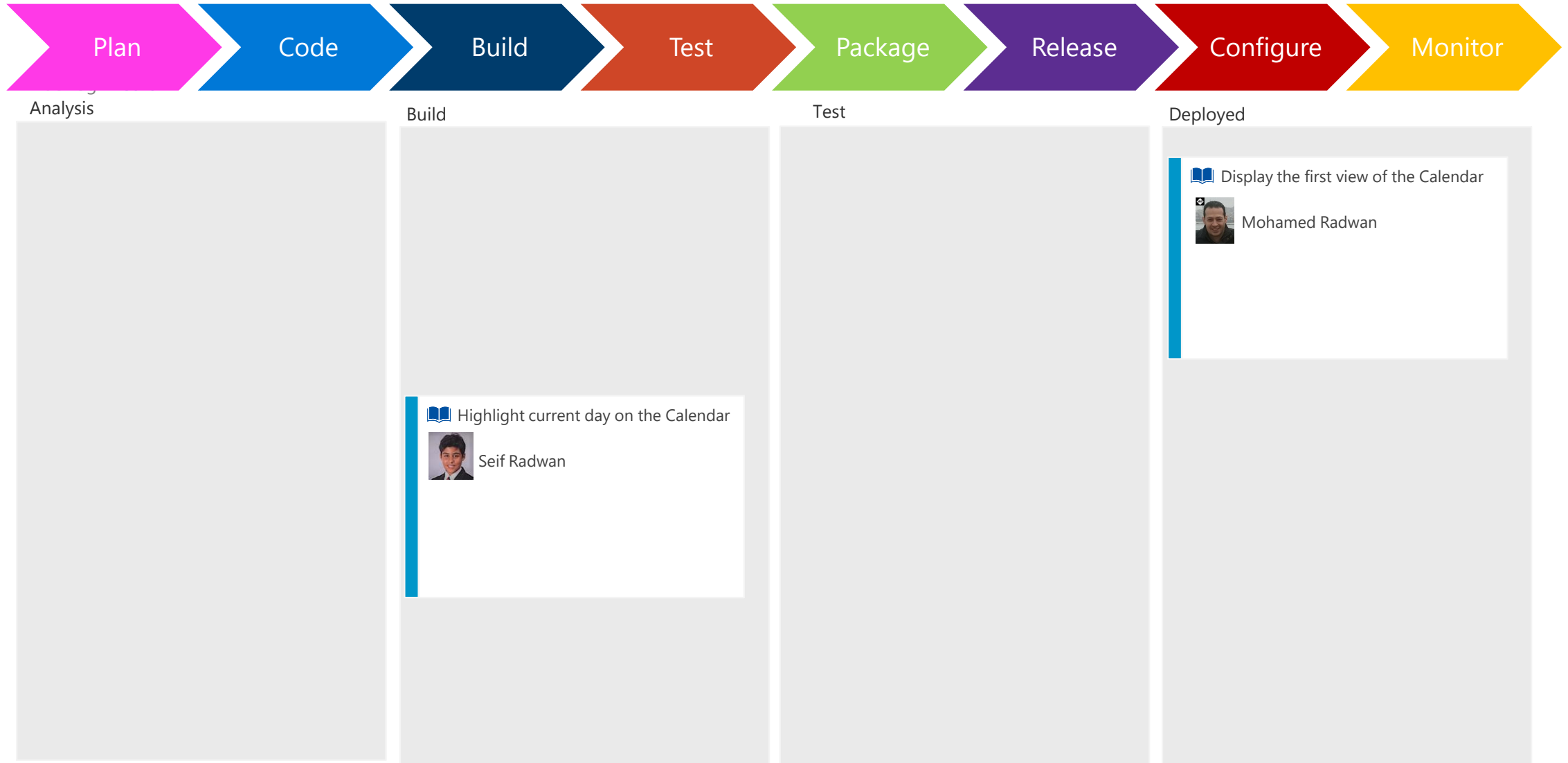
Lead Time And Frequency of Deployment



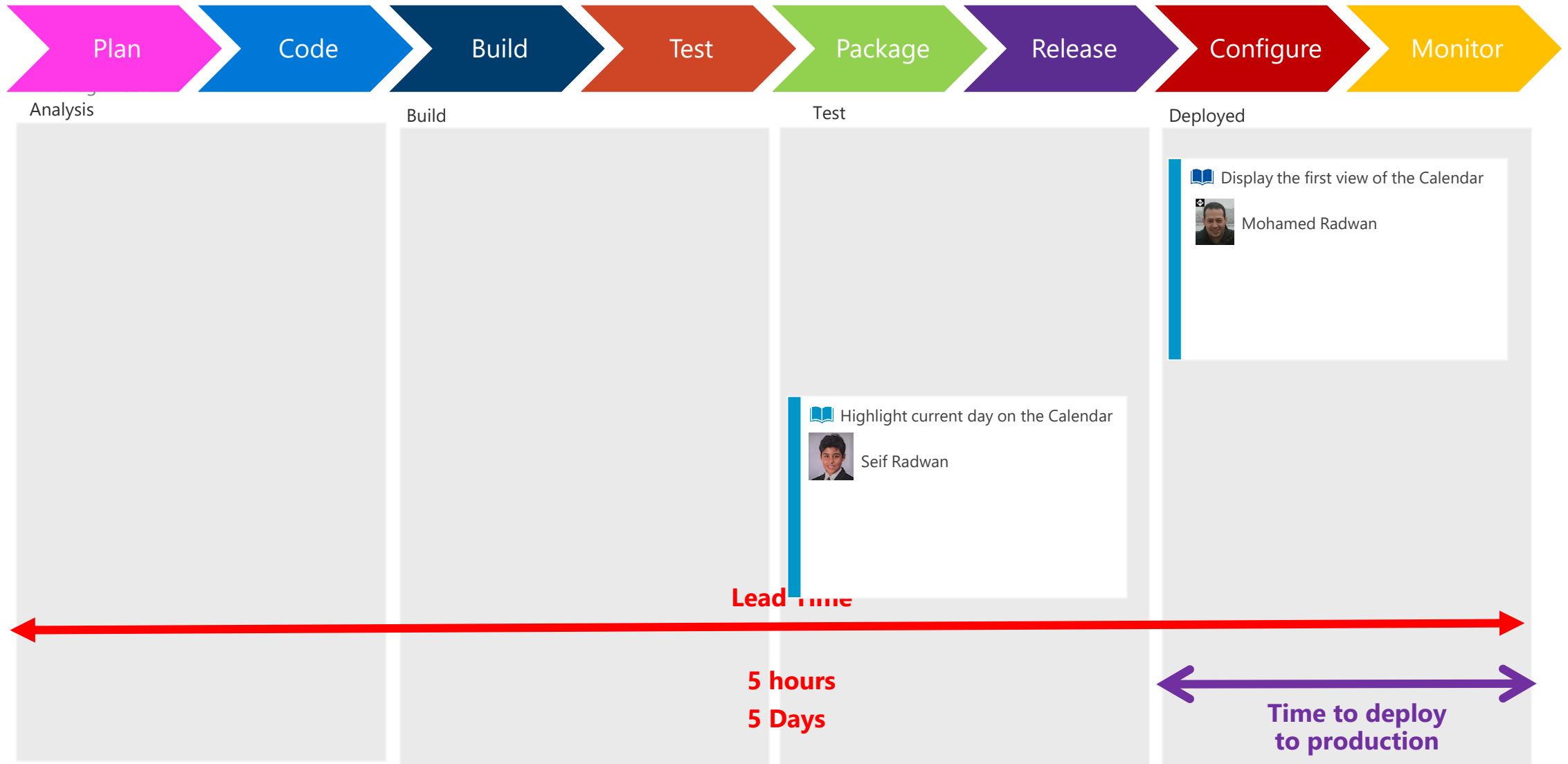
Lead Time And Frequency of Deployment



Lead Time And Frequency of Deployment




Lead Time And Frequency of Deployment



Scrum vs. Kanban


Scrum

UAT (Pre-production)

 Display the first view of the Calendar




Mohamed Radwan

 Highlight current day on the Calendar




Seif Radwan

 Navigate to next day



Lara Radwan

 Navigate to previous day



Mohamed Radwan

Sprint Backlog

Deployed (Live)

Kanban

Scrum

UAT (Pre-production)

Deployed (Live)

📖 Display the first view of the Calendar



Mohamed Radwan

📖 Highlight current day on the Calendar



Seif Radwan

📖 Navigate to next day



Lara Radwan

📖 Navigate to previous day



Mohamed Radwan

Sprint Backlog

Lead Time

Kanban

UAT (Pre-production)

Deployed (Live)

📖 Display the first view of the Calendar



Mohamed Radwan

📖 Highlight current day on the Calendar



Seif Radwan

📖 Navigate to next day



Lara Radwan

📖 Navigate to previous day

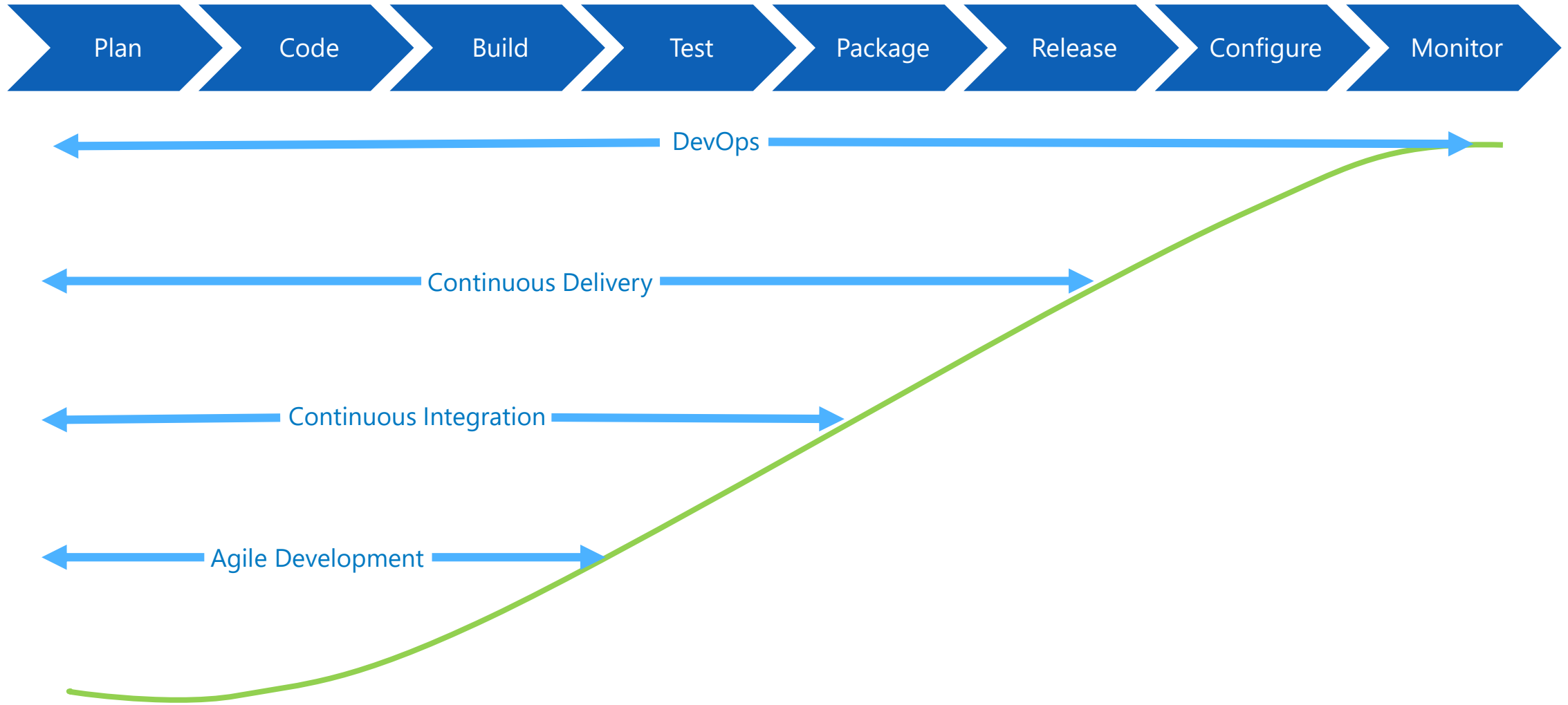


Mohamed Radwan

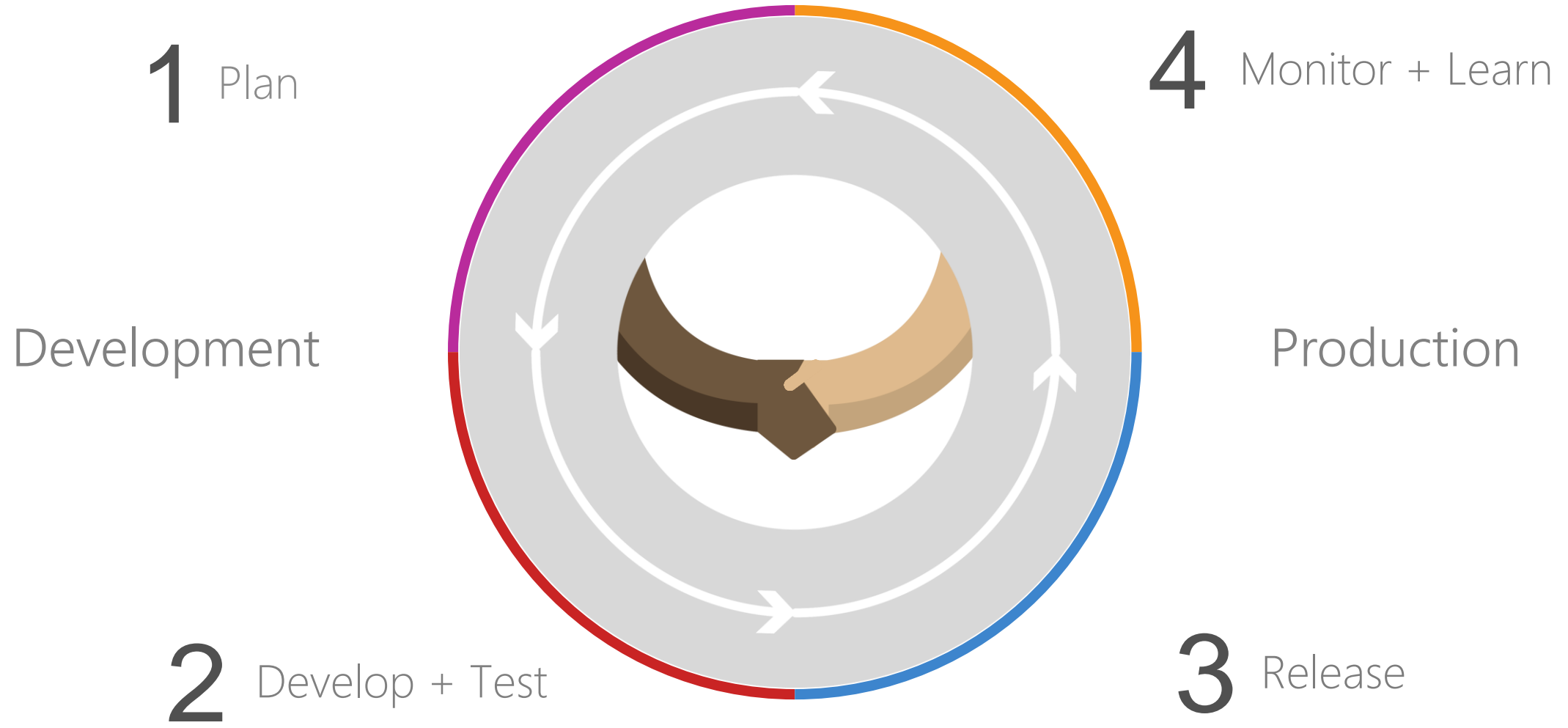
Lead Time

mohamedradwan.com

What Practices you Implement Define Where you are?



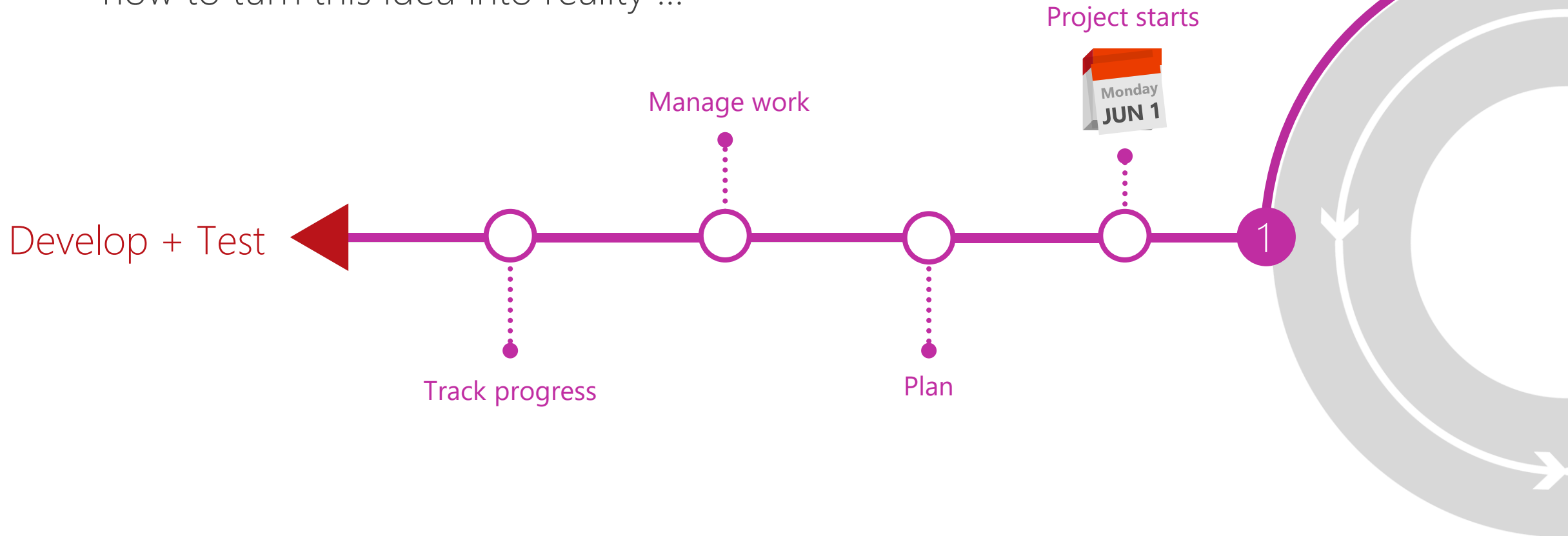
DevOps





Plan + Track

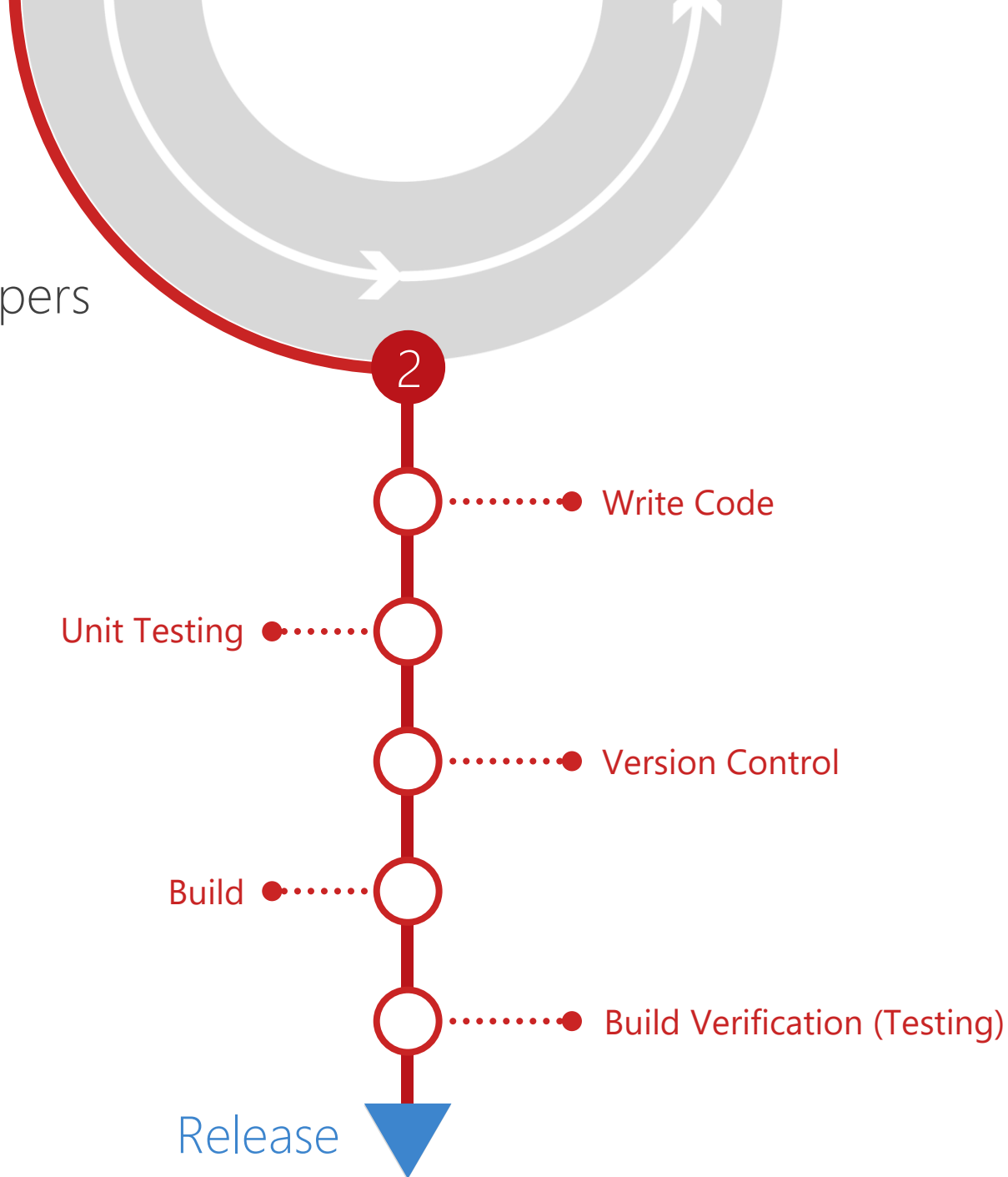
It starts with an idea – and a plan
how to turn this idea into reality ...





Develop + Test

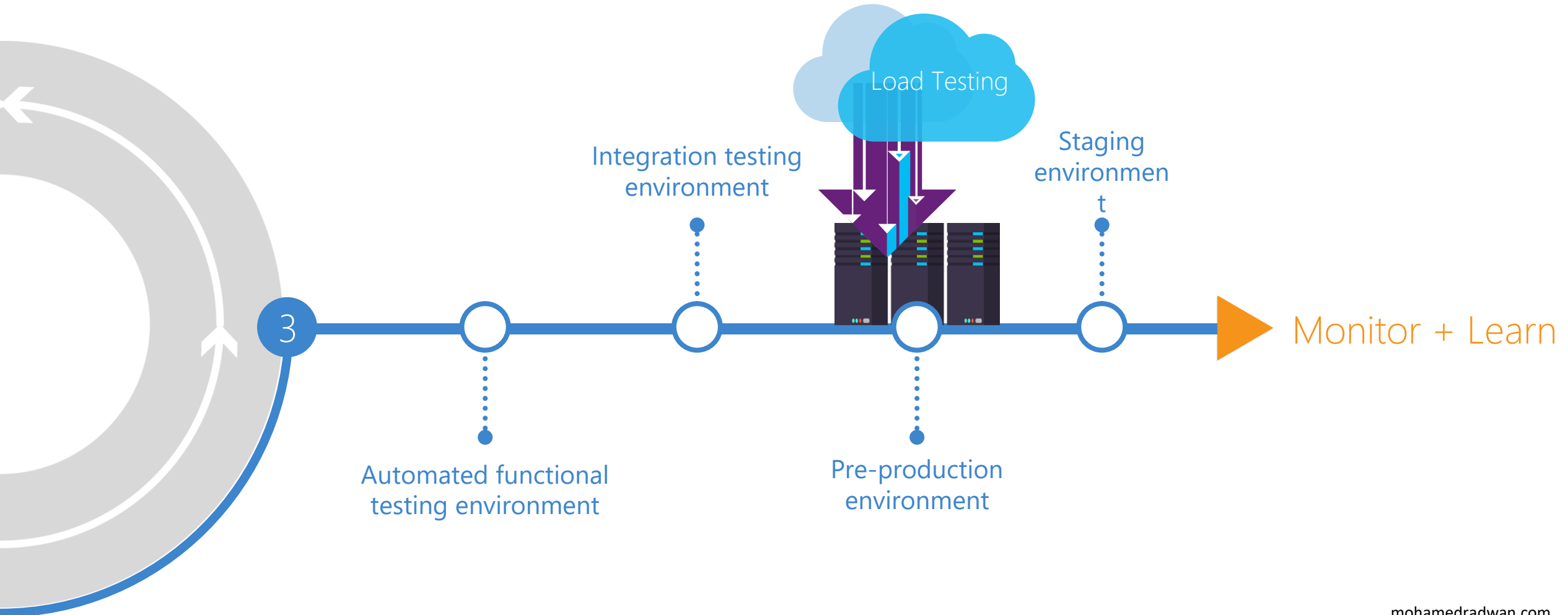
Once the iteration starts, developers turn great ideas into features ...





Release

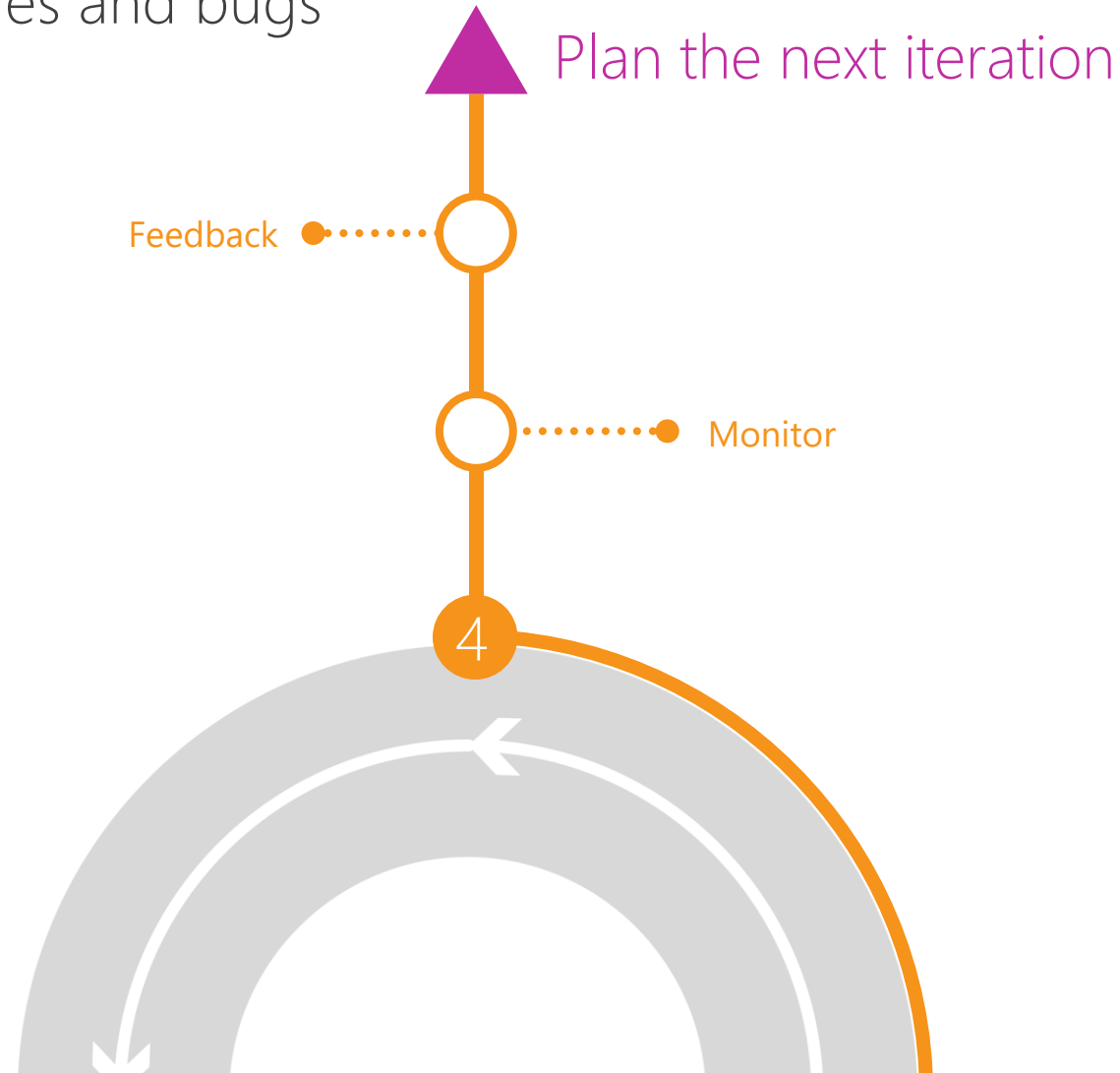
When all tests pass, the build is deployed to testing environments for each stage in the release process



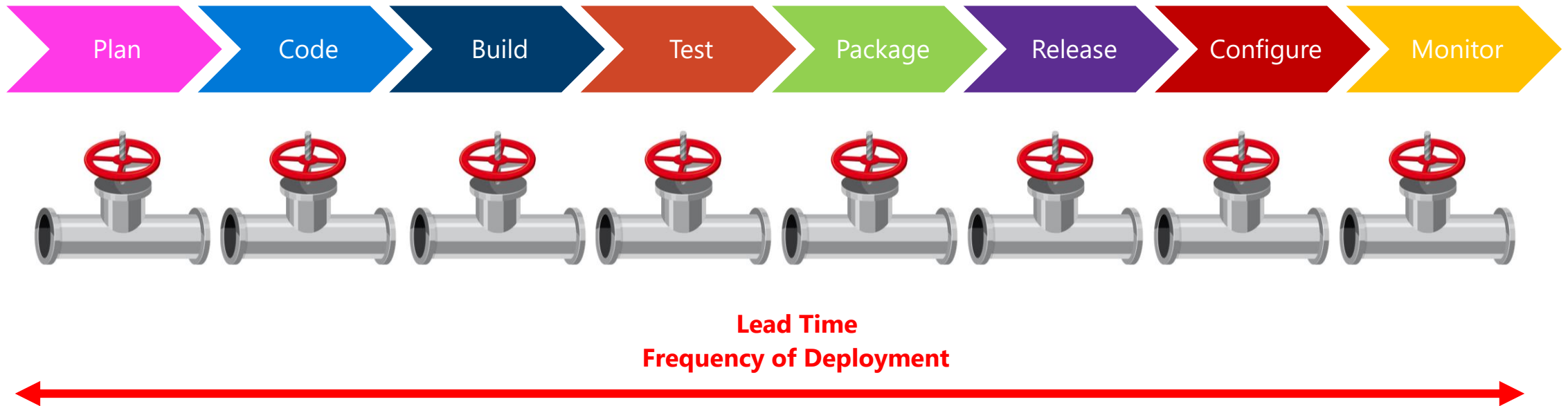


Monitor + Learn

Learn and understand how users use your app, how it reacts and quickly fix issues and bugs

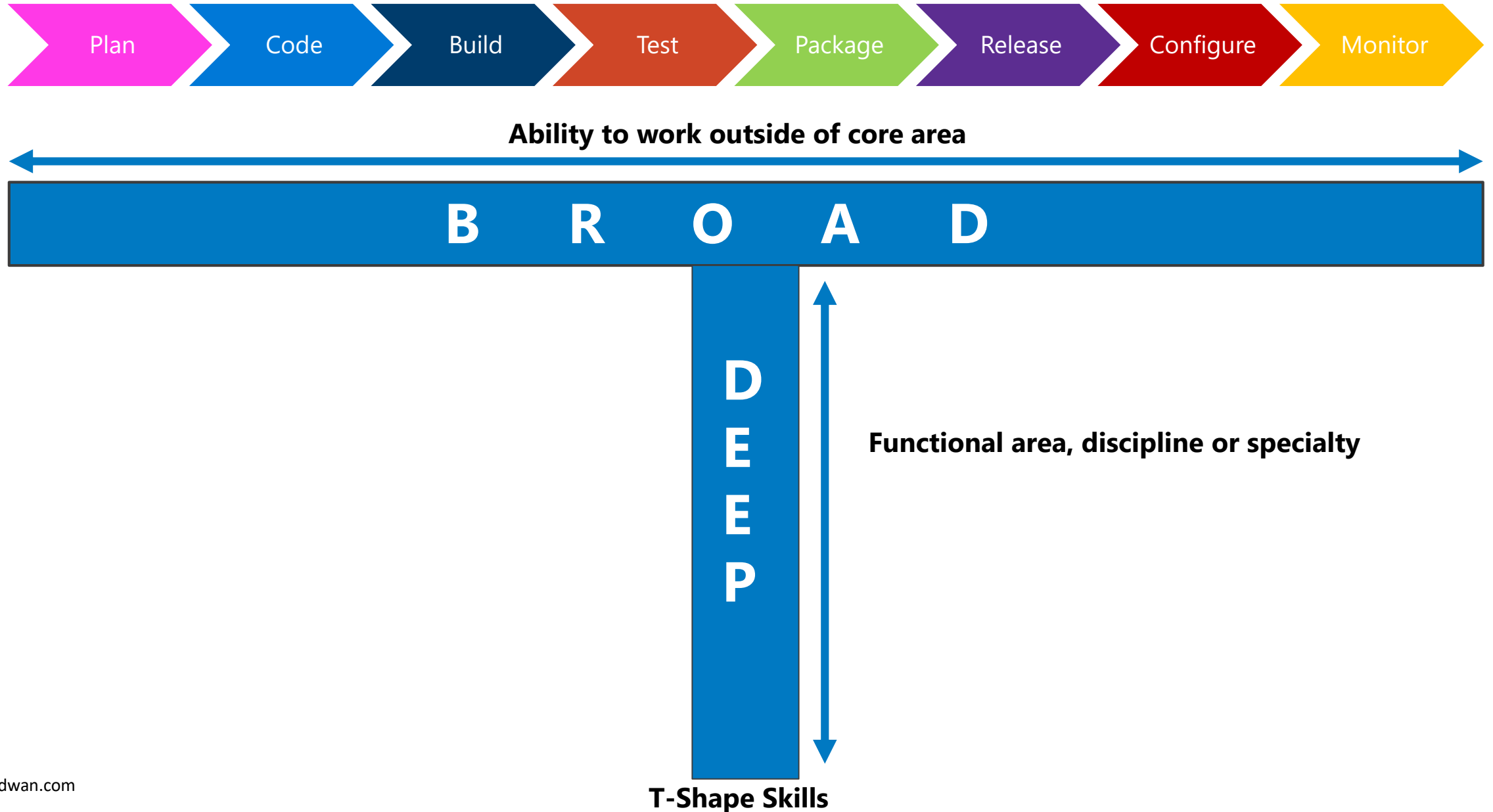


DevOps Covers The End-to-End Pipeline



Any Blocker Will Affect The Flow of The Entire DevOps Process

T-Shape Skills

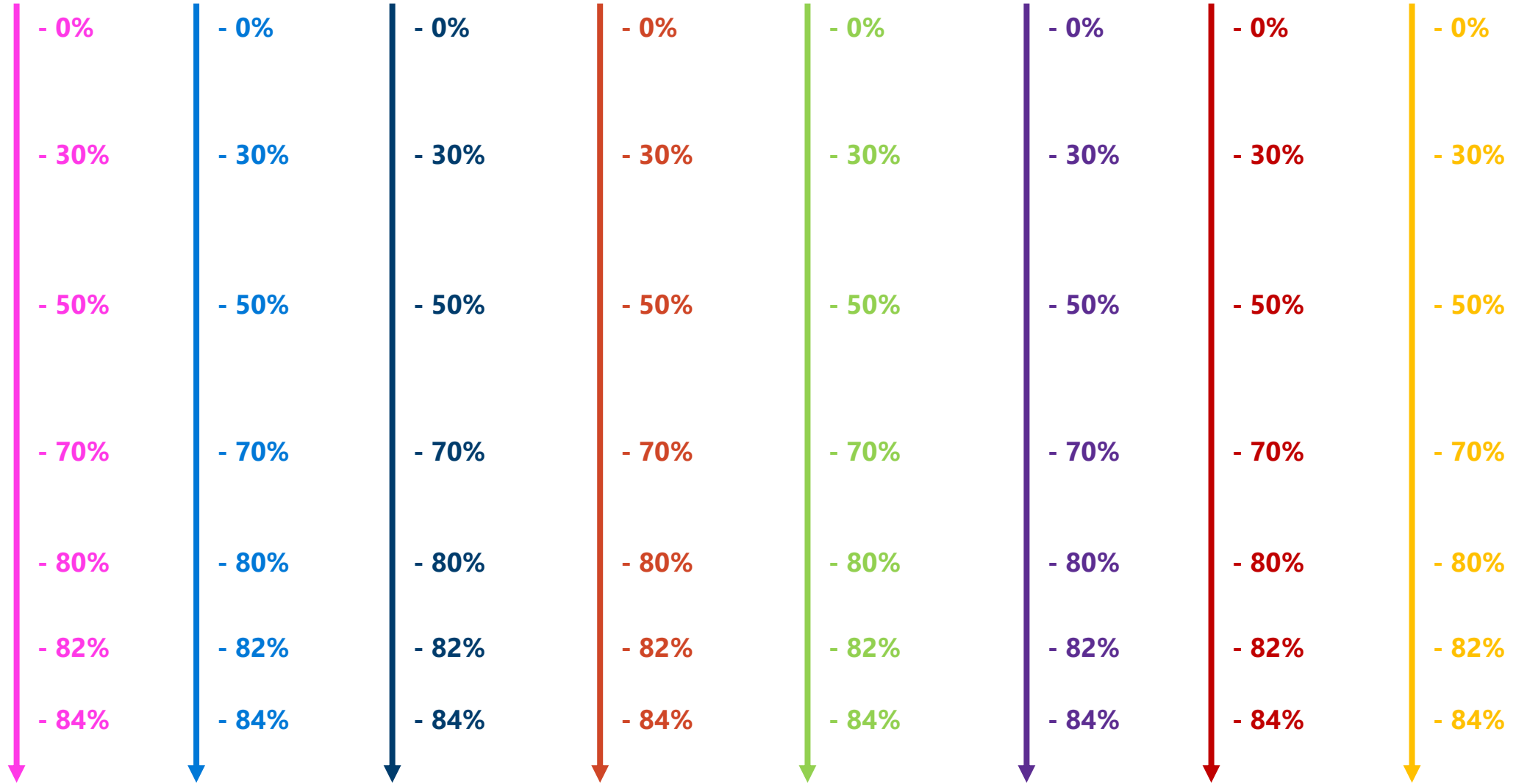




What, where, when and which
practices, tools, technology to
learn to become a DevOps
expert?



- Which areas would you like to improve? Plan/ Code/ Build/ Test/ Monitor, etc.?
- Which skills or improvements would you like to learn? And how far?



How do you implement
that?

The answer is:

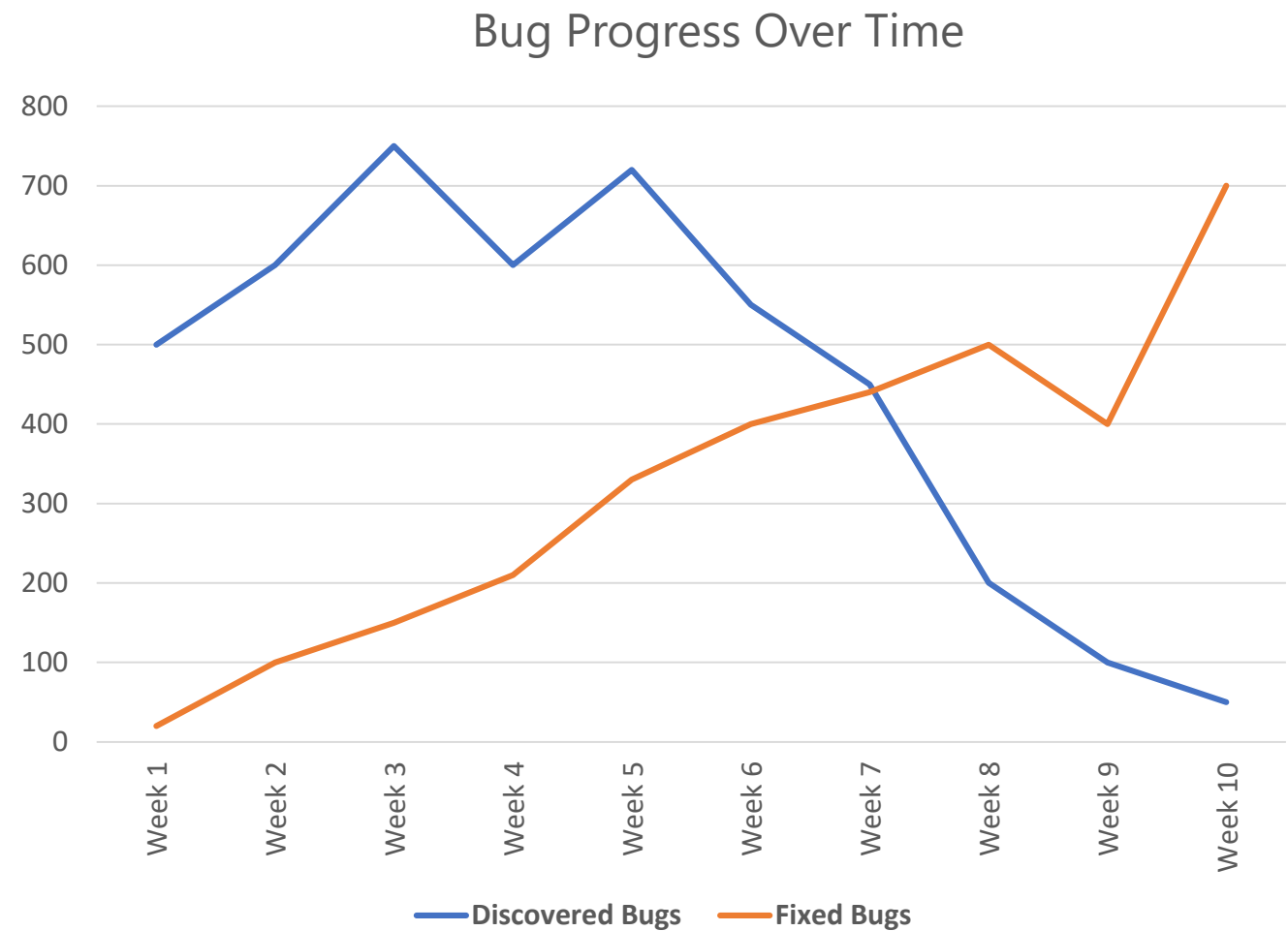
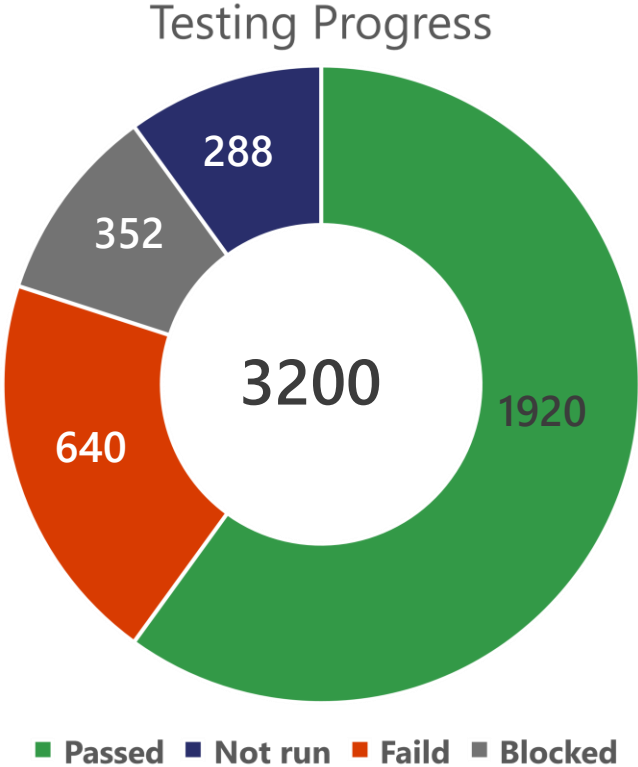
改 **KAI=Change**
善 **ZEN=Good**
改善 **KAIZEN**
(Continual Improvement)

We are not looking for big change or improvement.
Instead, we are **continuously** looking for small
incremental improvements at all times.

Agile

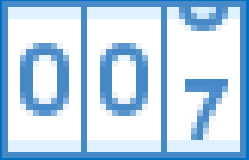


Status Report vs. Trend Report



Measuring DevOps

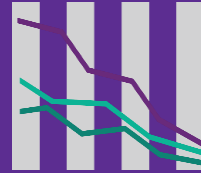
Frequency of deployment



Change lead time



Change fail rate



Mean Time To Detect (MTTD)



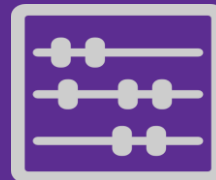
Speed of deployment



Speed of build verification (QA)



Incident/defect volumes



Mean Time To Repair (MTTR)



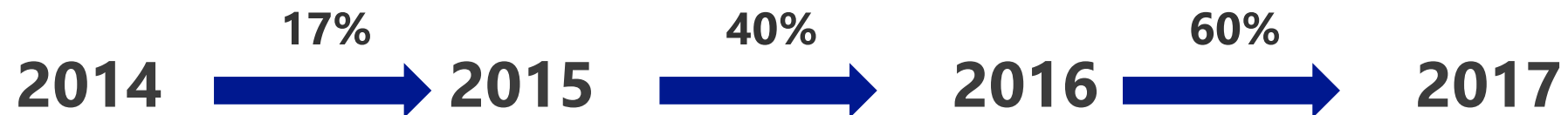
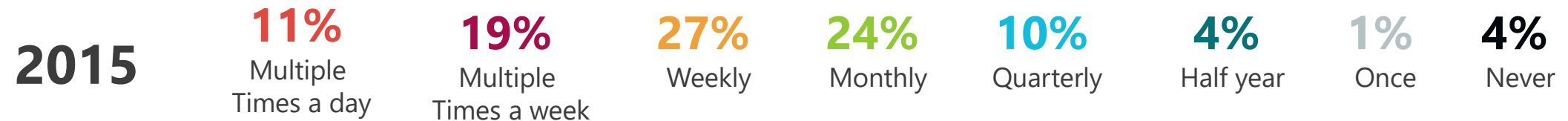
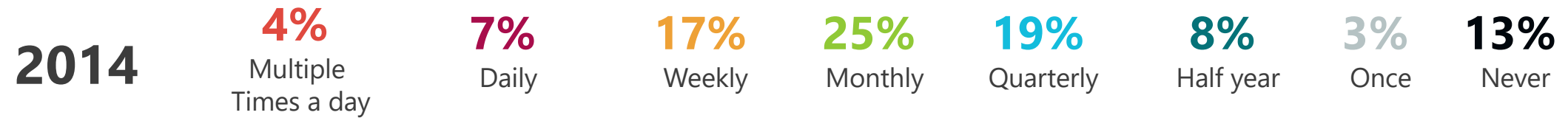
Agility performance indicators

Reliability performance indicators

DevOps By Numbers

There is a study which includes **27000/30000** companies to analyze the adaption of DevOps practices and where people are.

Frequency of Deployments



Amazon deploys to production
every **11.6 seconds**, maximum
deployments in a single hour
10,000 times

Hight Performance Examples

Company	Frequency of Deployment
Amazon	1000+ deployments/day
Netflix	1000+ deployments/day
Hubspot	300 deployments/day
Etsy	50 deployments/day
IMVU	50 deployments/day
Microsoft/Google/Mozilla	2-3 weeks for new release

Cloud Enables DevOps

Cloud-optimized DevOps tools:
DevOps practices = Continuous
Delivery to the Cloud

Continuous Delivery (Preview)

Refresh Disconnect

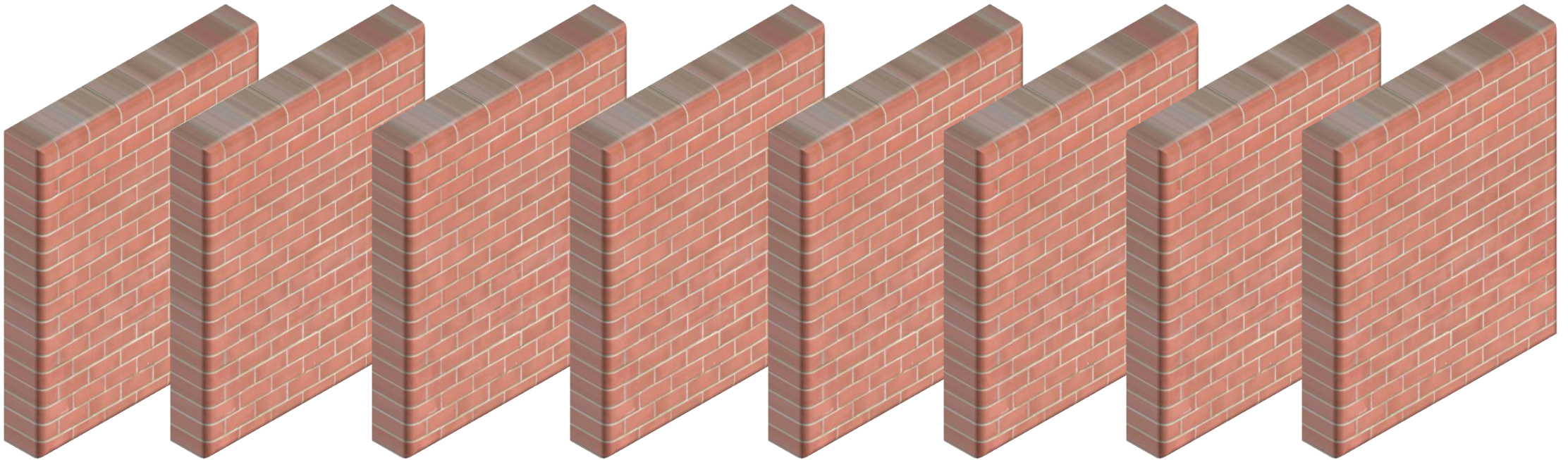


Deploy with confidence

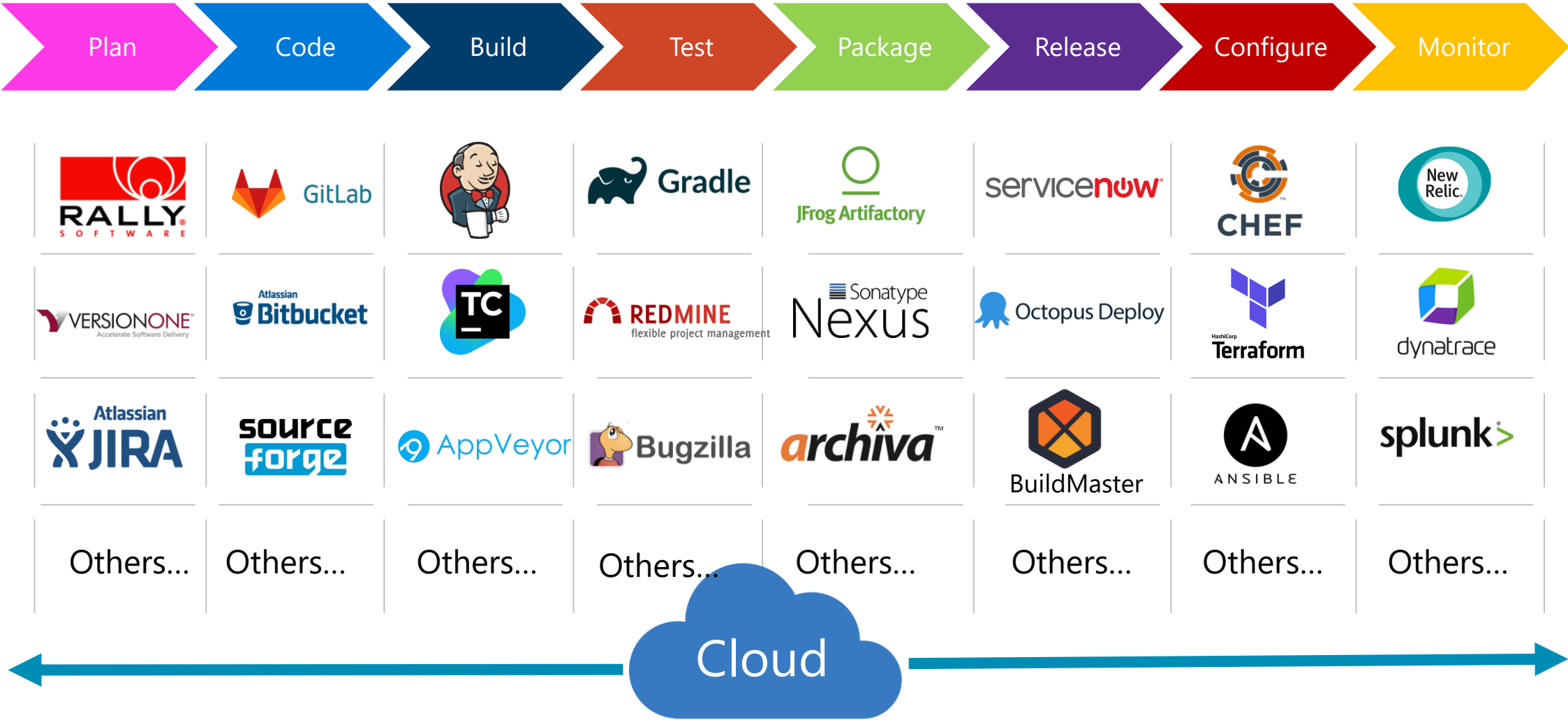
- ✓ Automate your build, test and deployment
- ✓ Deploy to a test environment before ever going to production
- ✓ Setup approvals for deployment to production
- ✓ Extend and customize your deployment automation

Configure

Disconnected DevOps Process and Practices



Cloud Helps Connect DevOps Process & Practices

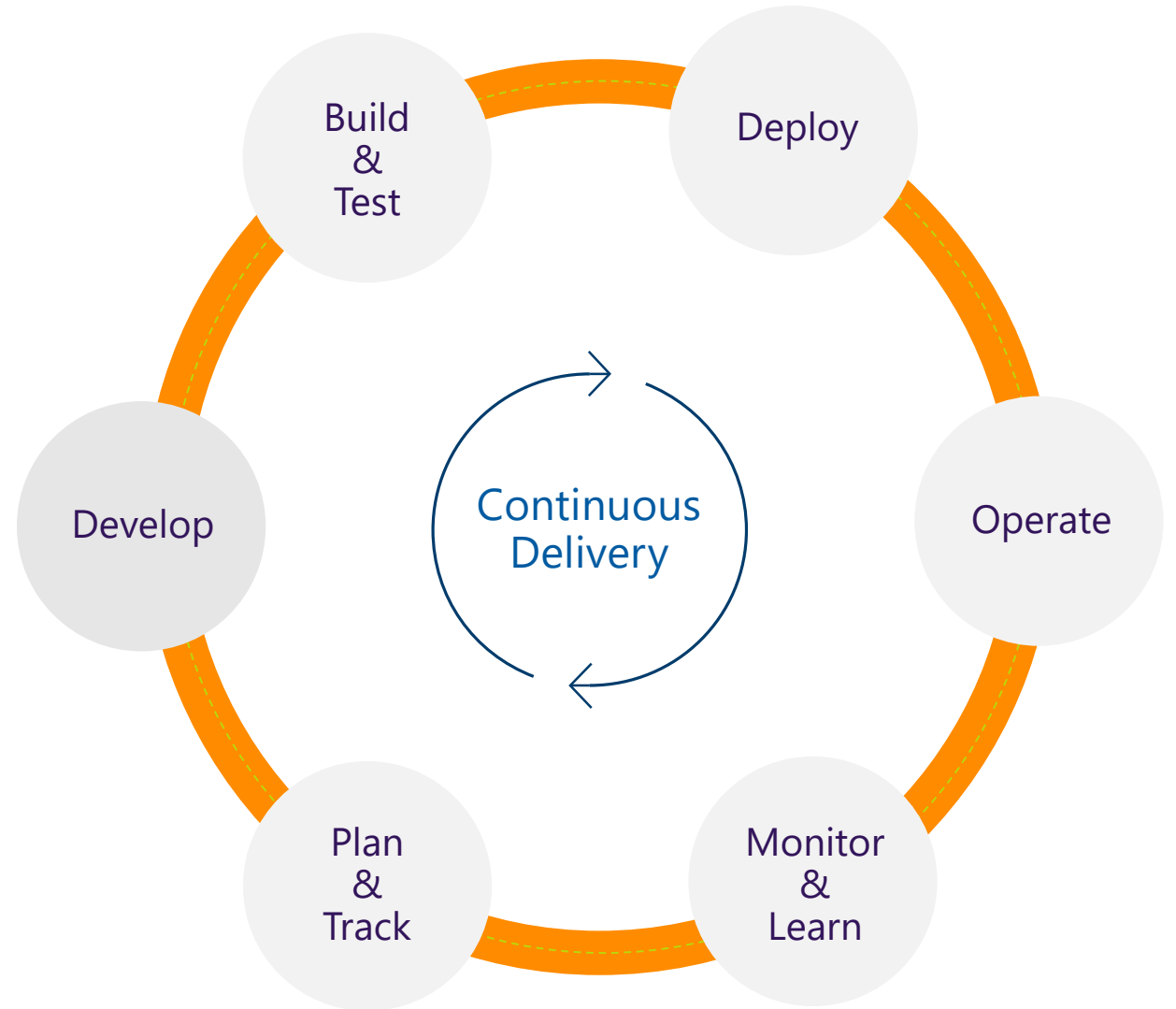


What is DevOps?

People. Process. Products.



DevOps is all about removing any impediments to keep the process as fast as possible with preserving quality and security

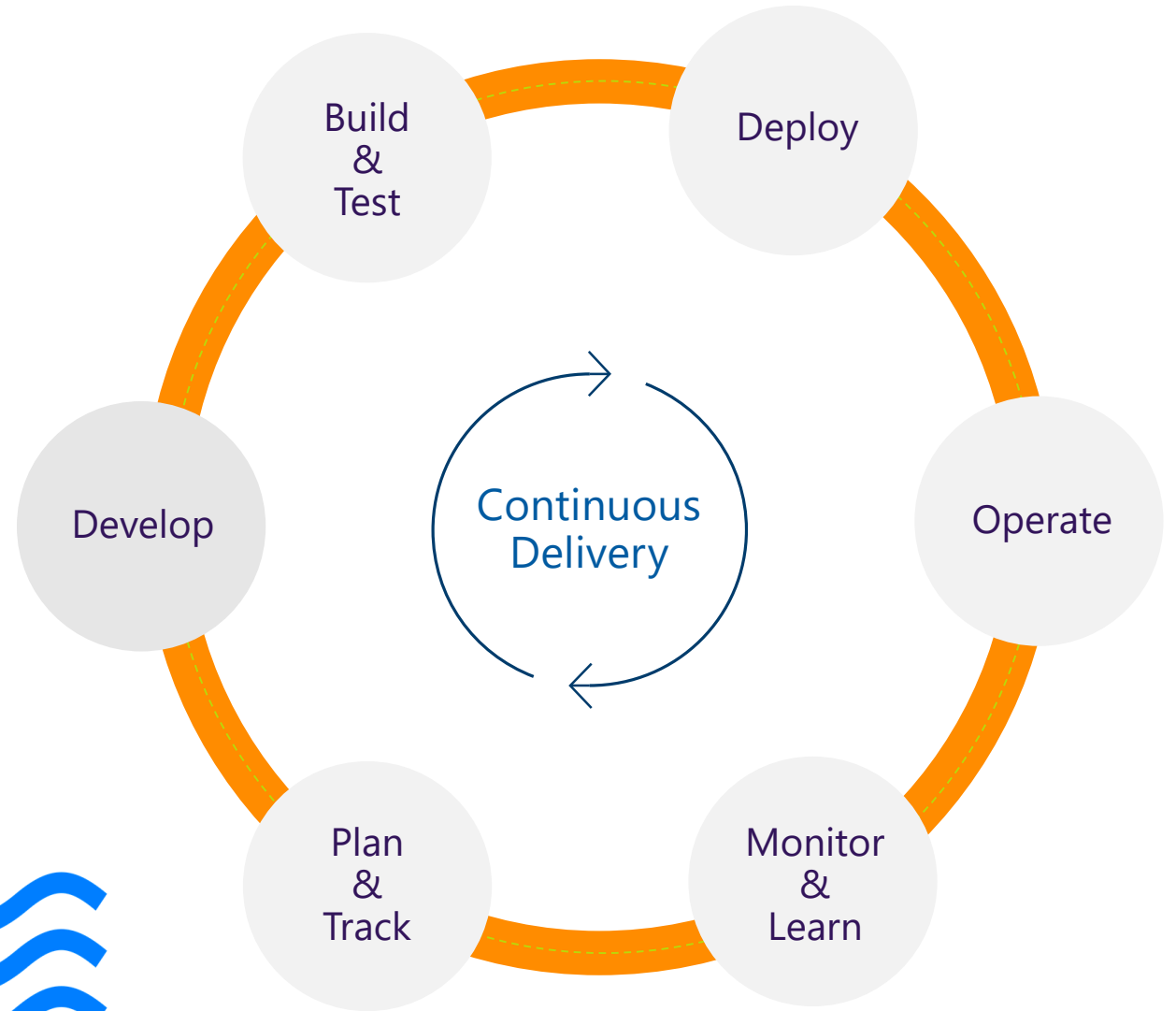
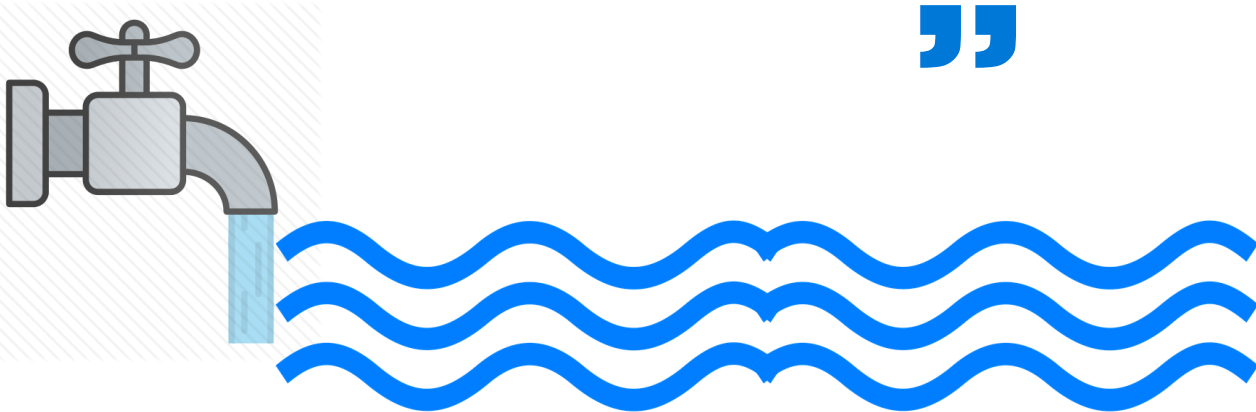


What is DevOps?

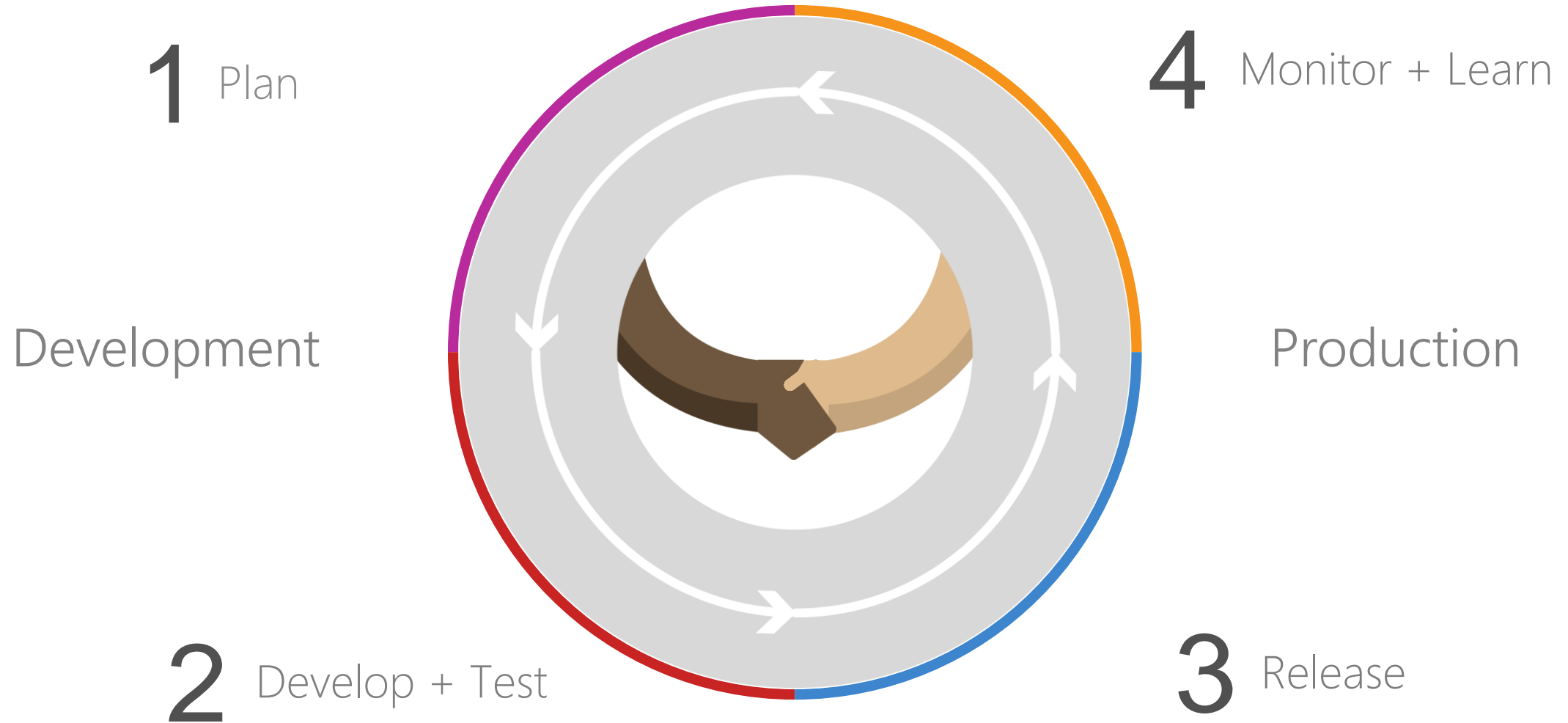
People. Process. Products.



DevOps is all about removing any impediments to keep the process as fast as possible with preserving quality and security



DevOps



Post-session survey

Next session

- Time
- Duration
- Date
- Topic
- Questions
- Activities
- And many others.



Quiz

Open



Quiz Rules

- Like the post
- Share the post
- Submit
- Expire in 15 July 2020
- First one uses only



Your support really needed and appreciated!



Like



Share



Comment



Subscribe



Activate
Notification



Survey

How to become a DevOps Expert? (Q&A Live Session 1)

Q&A

Mohamed Radwan

Principal DevOps Consultant



Blog: www.mohamedradwan.com