

Introduction to DevOps

Agenda:

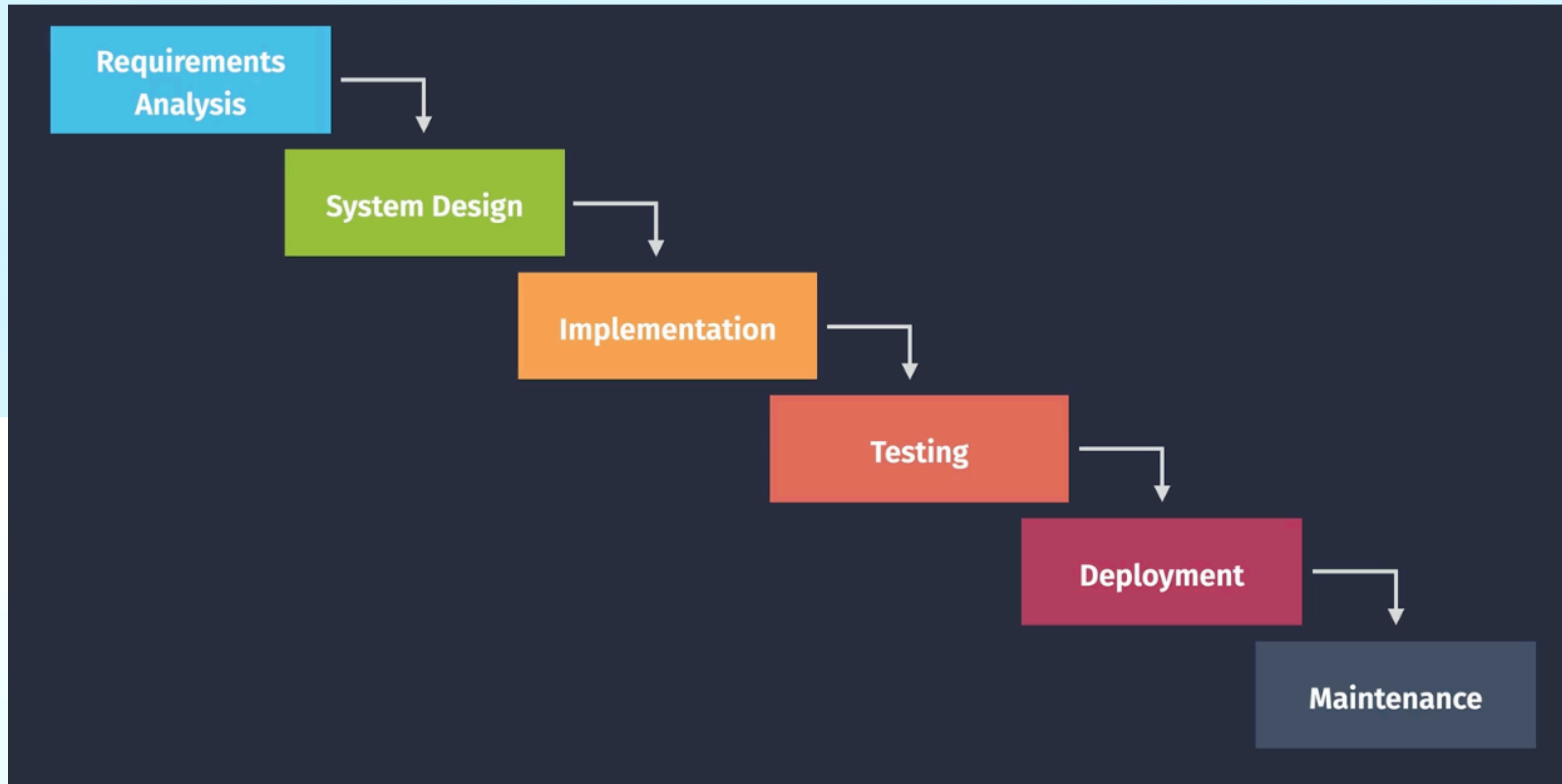
WaterFall

Agile

Challenges with existing Tech Teams

Introduction to DevOps Teams

Waterfall



Challenges:

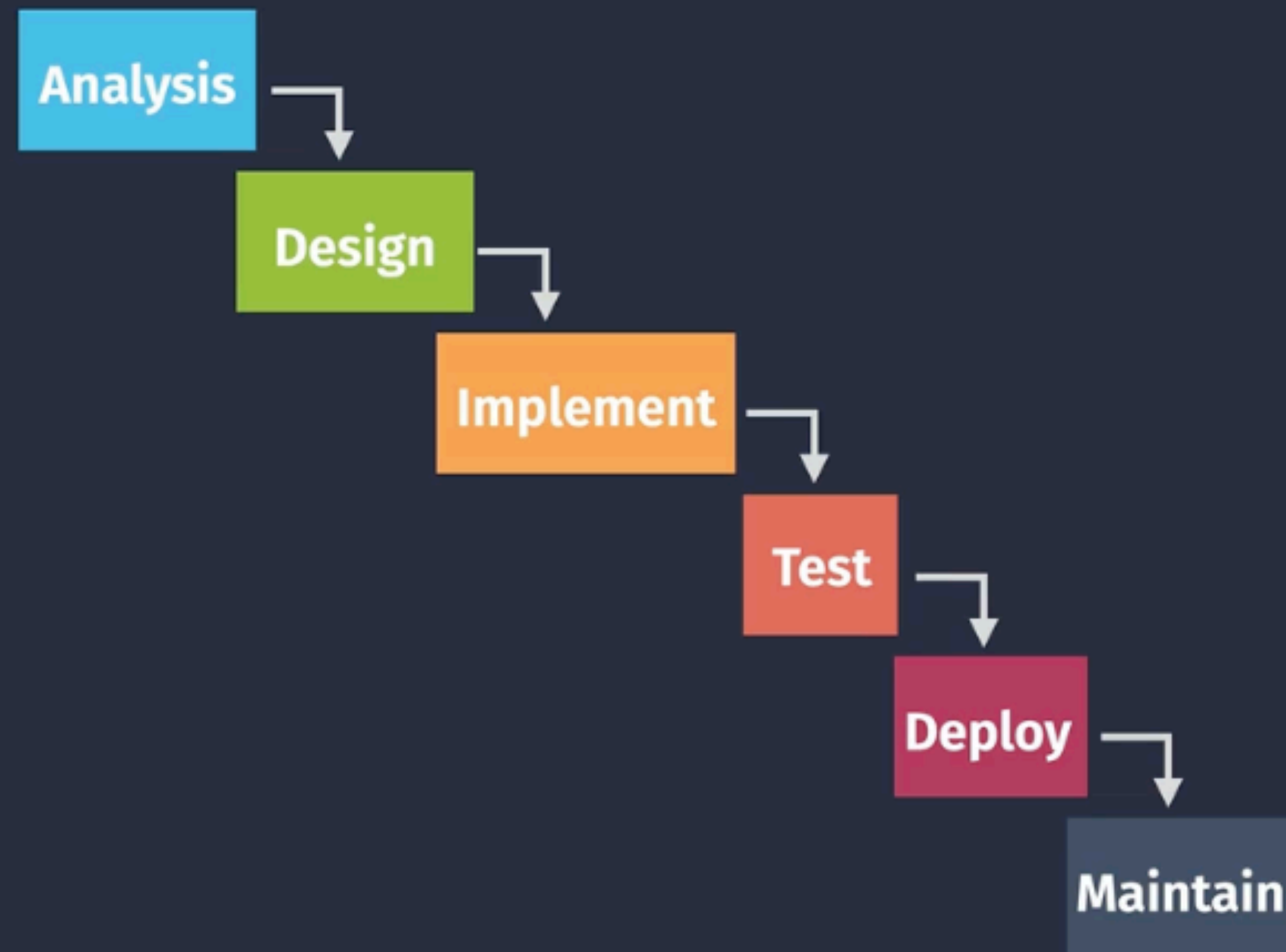
- Long time Delivery
- Limited customer involvement
- Design is difficult to change
- Disagreements over scope
- Misaligned Exceptions
- Lack of transparency

Agile



Agile vs Waterfall

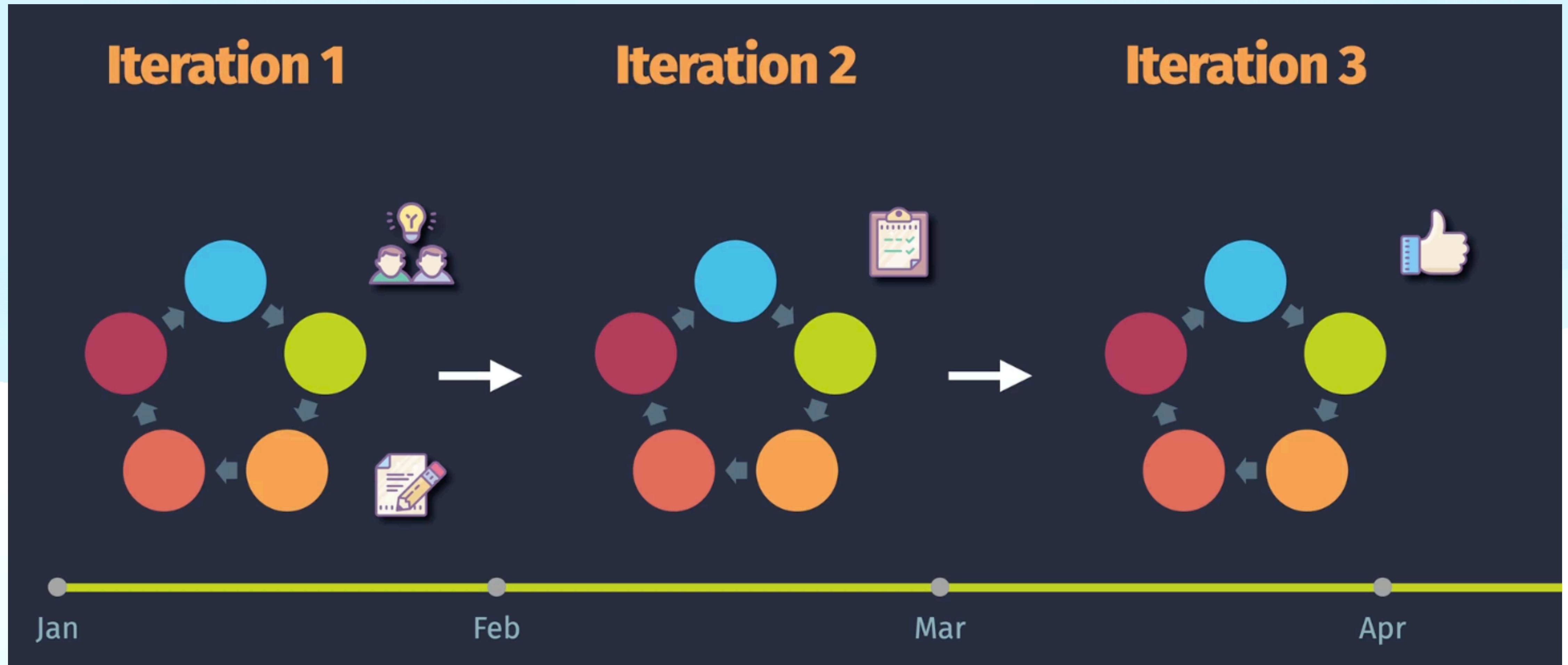
Waterfall



Agile



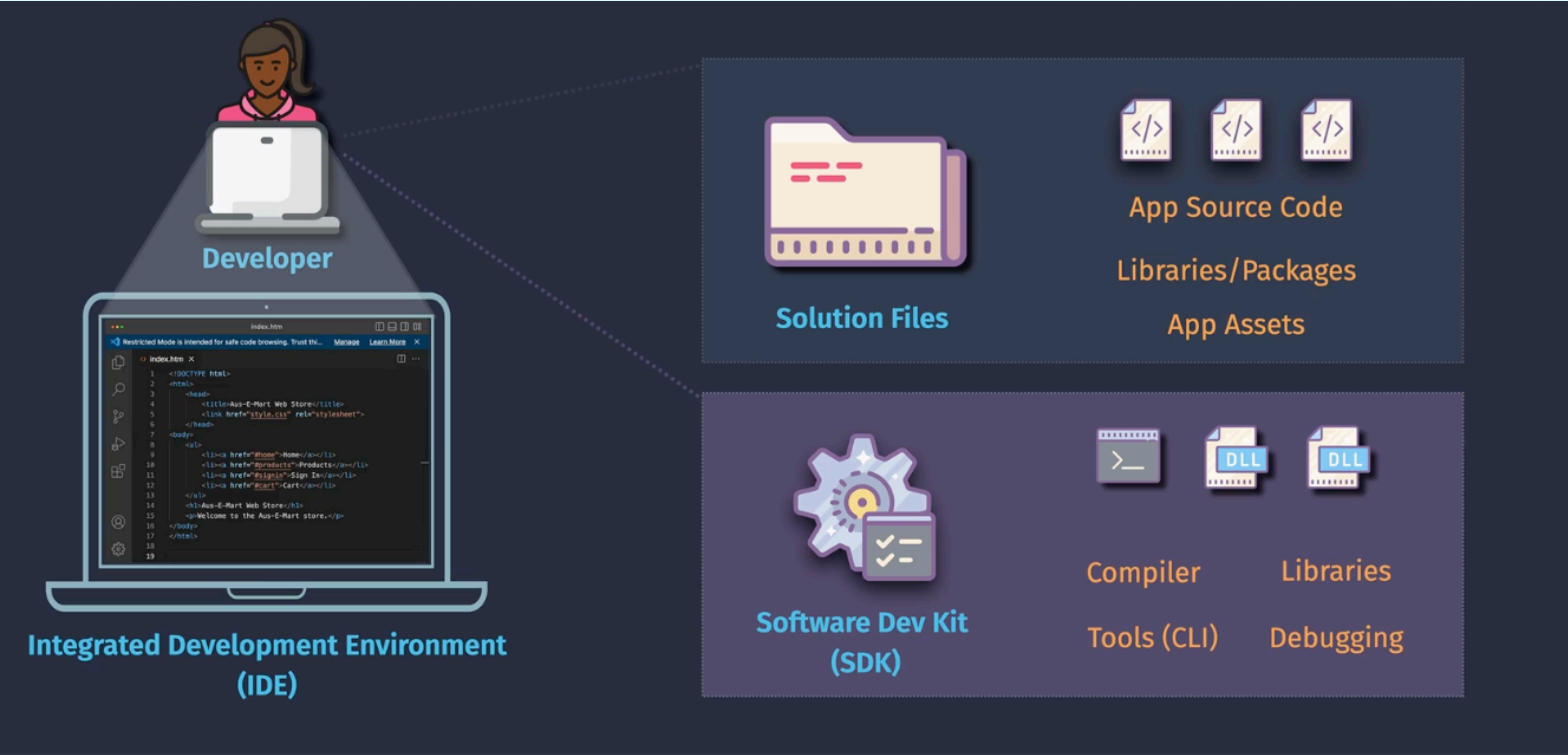
Agile vs Waterfall



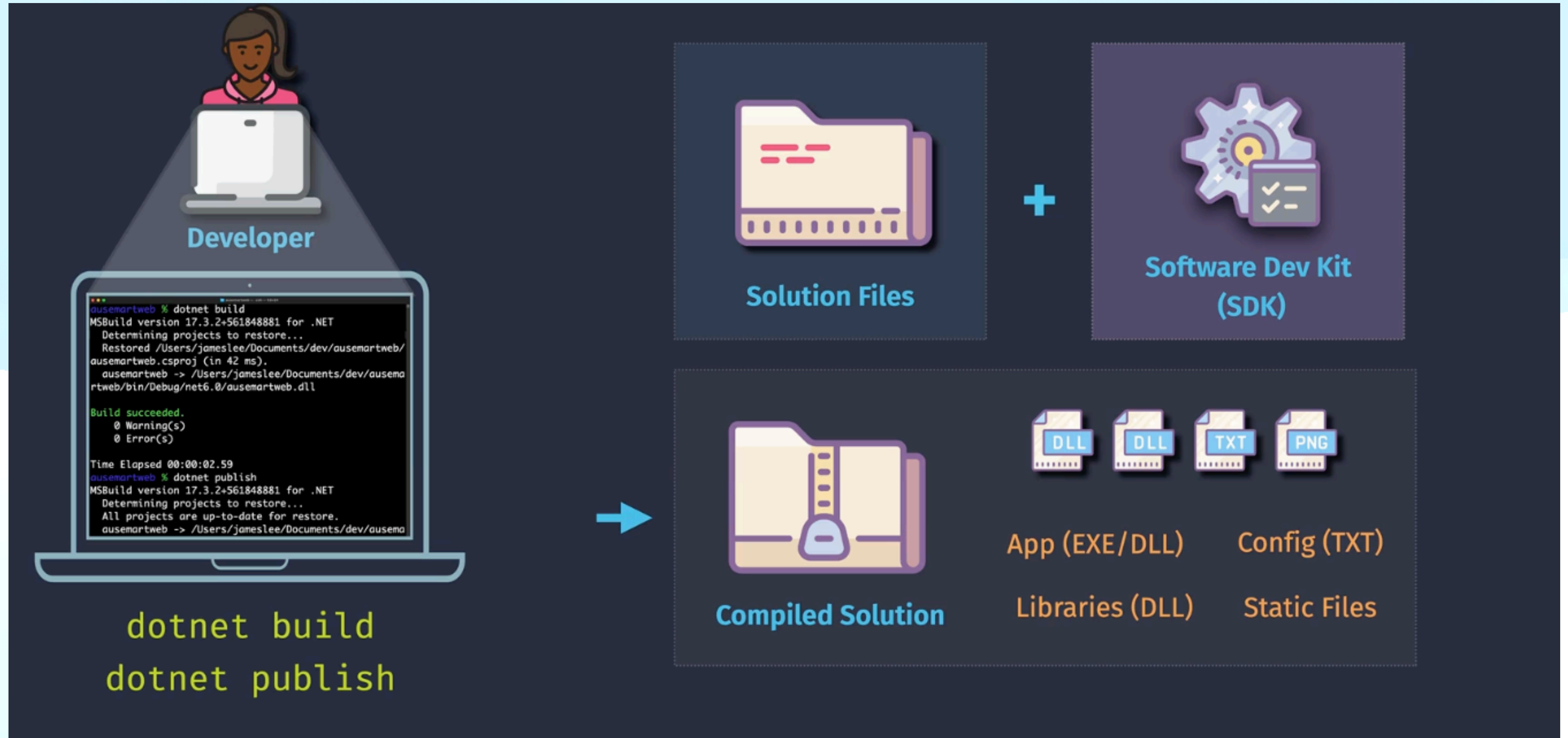
What Development Involves:

- Develop
- Build
- Deploy

Developing the app



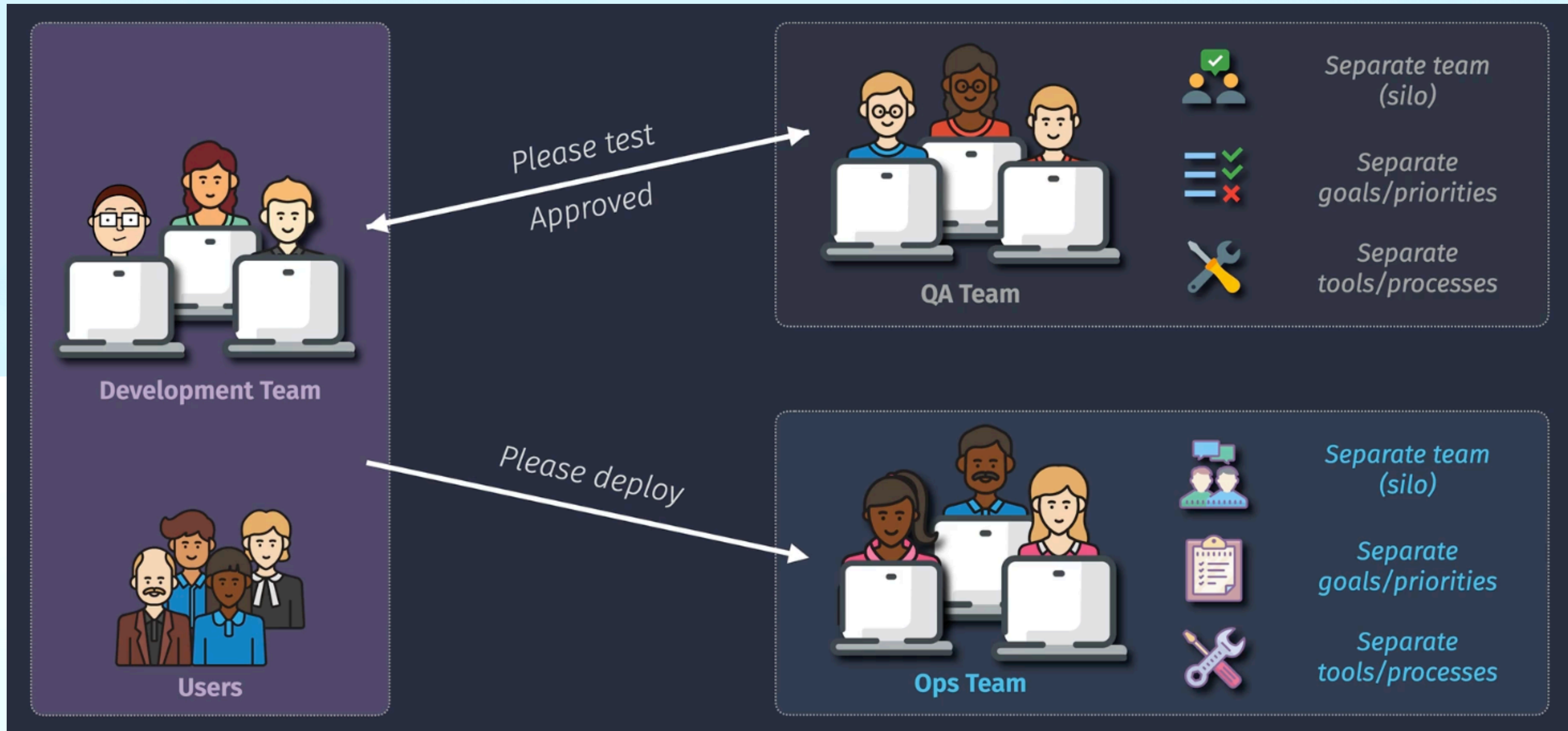
Building the app



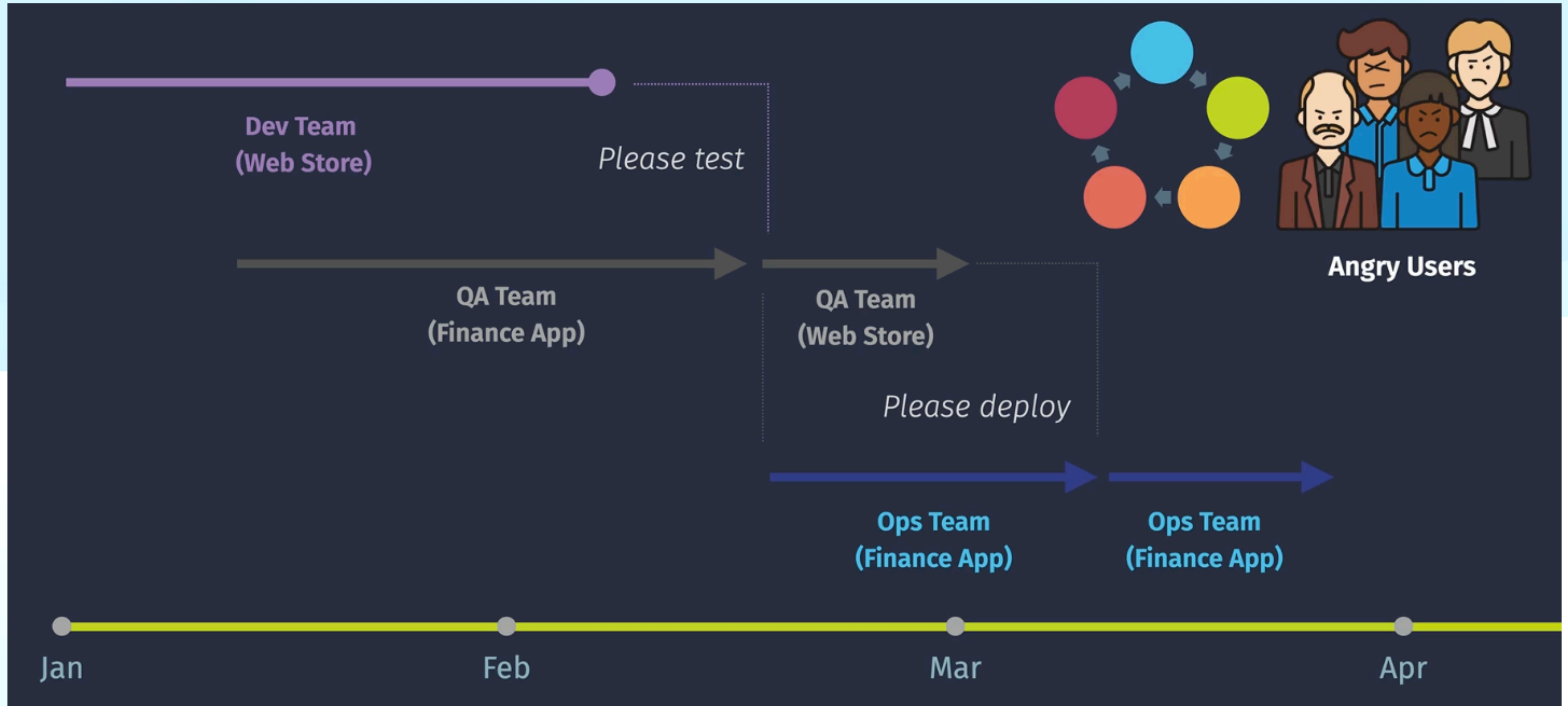
Deploying the app

- Deploying app involves creating infrastructure by Ops Team.
- Ops team will schedule the date to deploy the new version of the application on the infra.
- Sometimes deploying app involves adding additional teams such as QA and Performance teams.

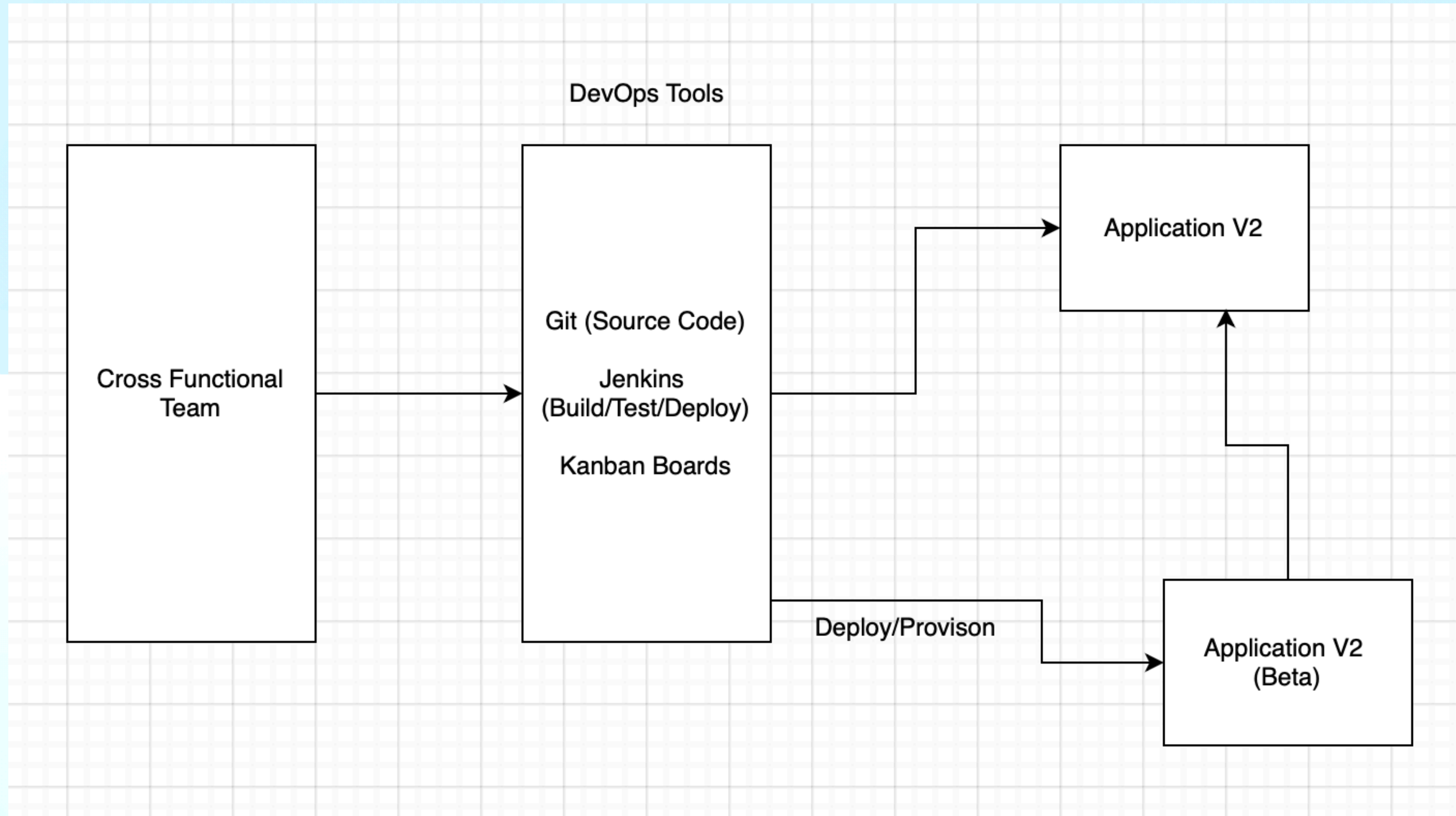
Traditional Team Structure



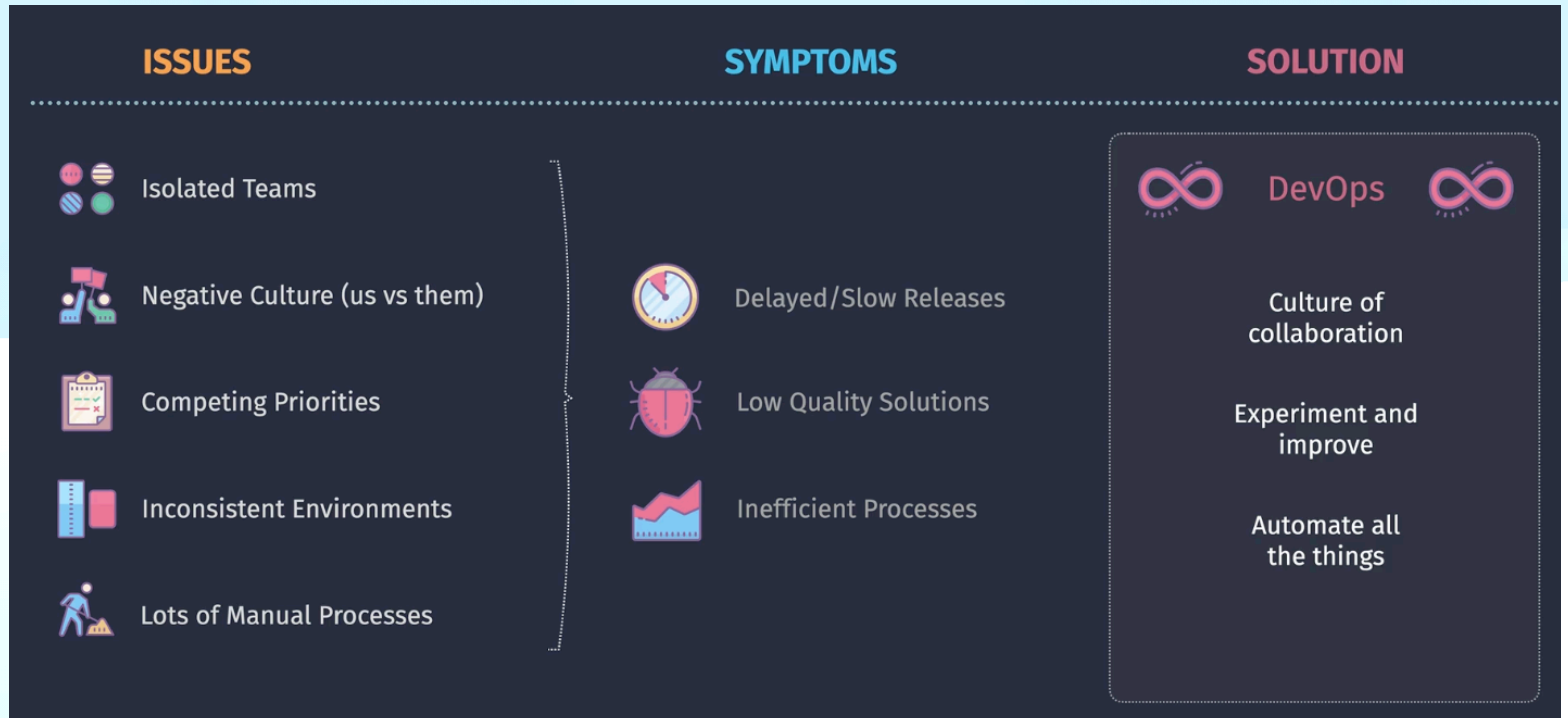
Traditional Team Structure



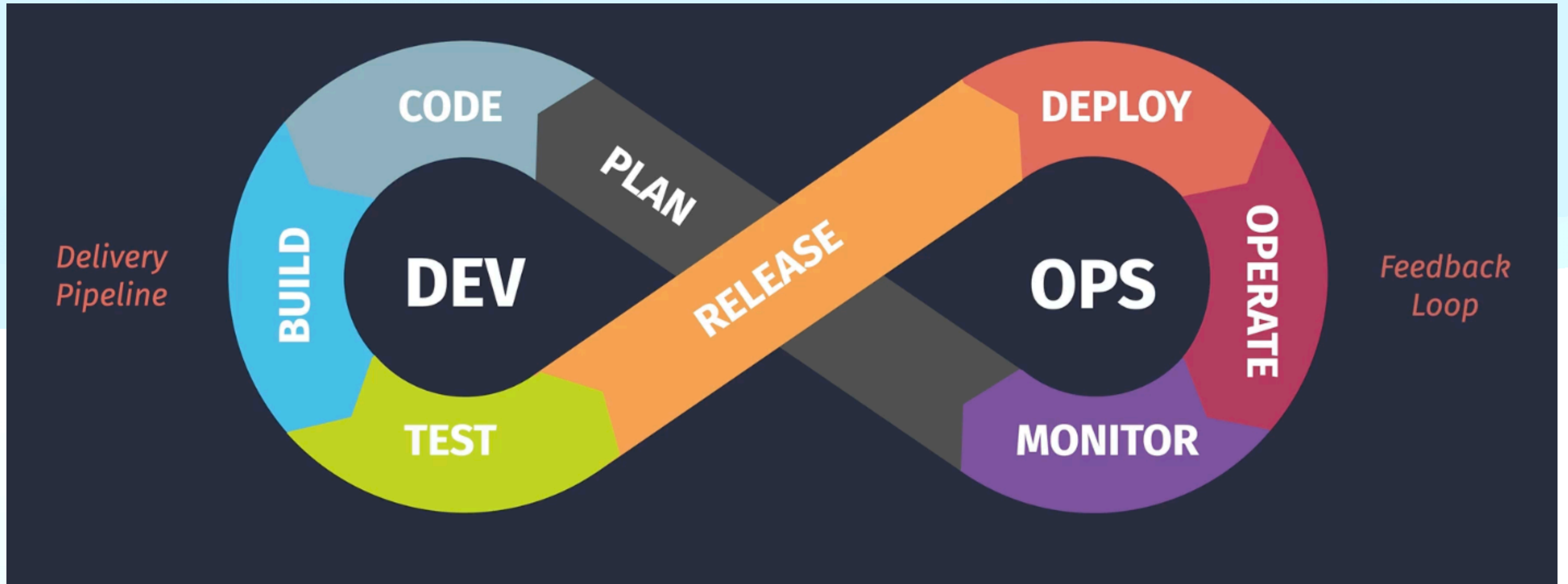
DevOps Team App deployment



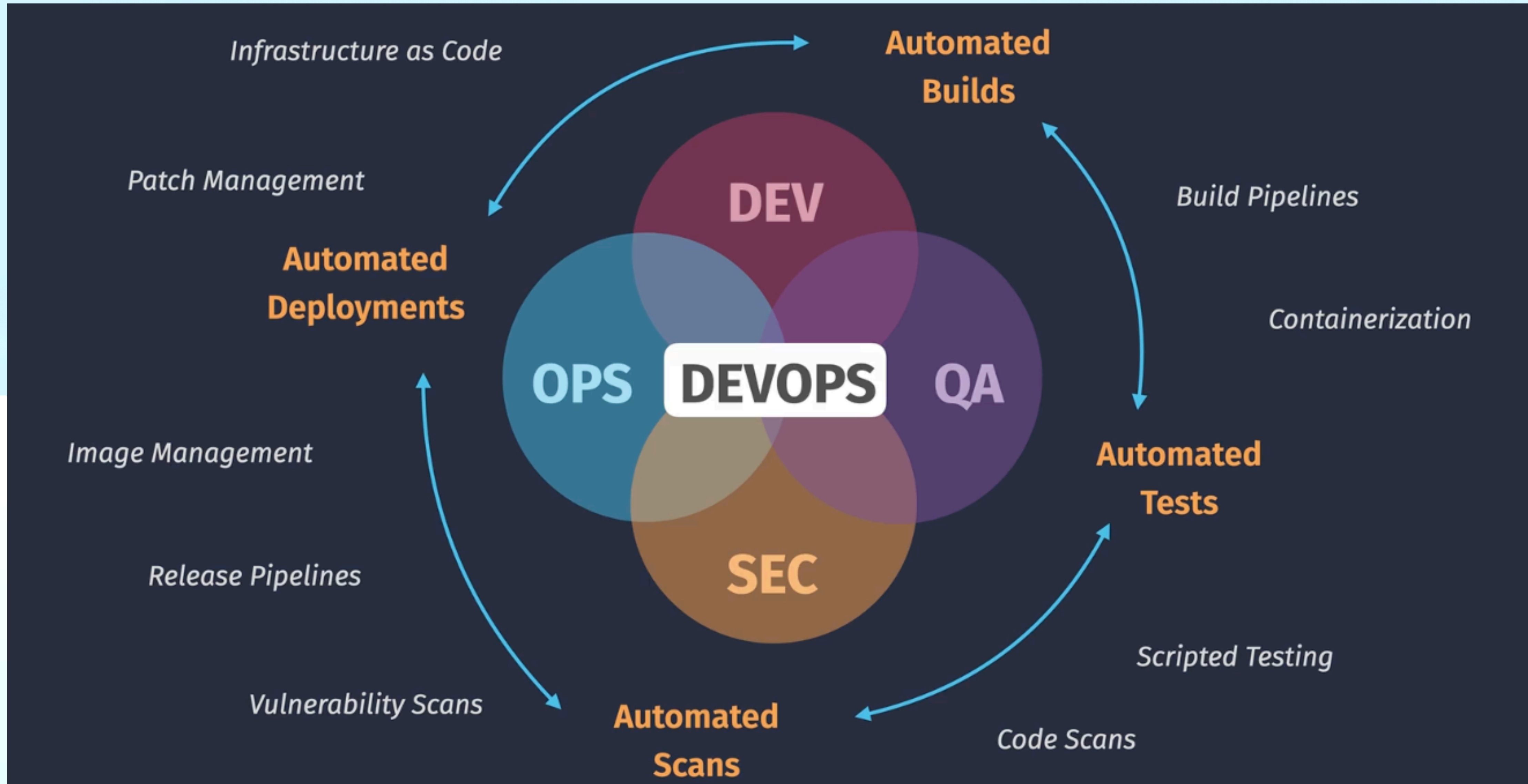
Solution



DevOps Infinite Loop Cycle



DevOps is not restricted



Before

After



Deployment
Frequency

Every 3 months

Daily



Deployment
Time

Days

Minutes



Failure
Rate

High

Low



Time to
Detect

Hours or Days

Minutes or Seconds



Time to
Recover

Hours or Days

Minutes or Seconds