

Adapting

Test strategies

to modern deployment methods



in



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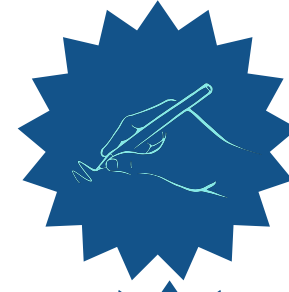


Sowmya Sridharamurthy

Solution Delivery & Release Manager
| Enabling engineering teams deliver ...



RELEASE MGMT AND SOLUTION DELIVERY



TECHNICAL WRITER



INTERNATIONAL SPEAKER



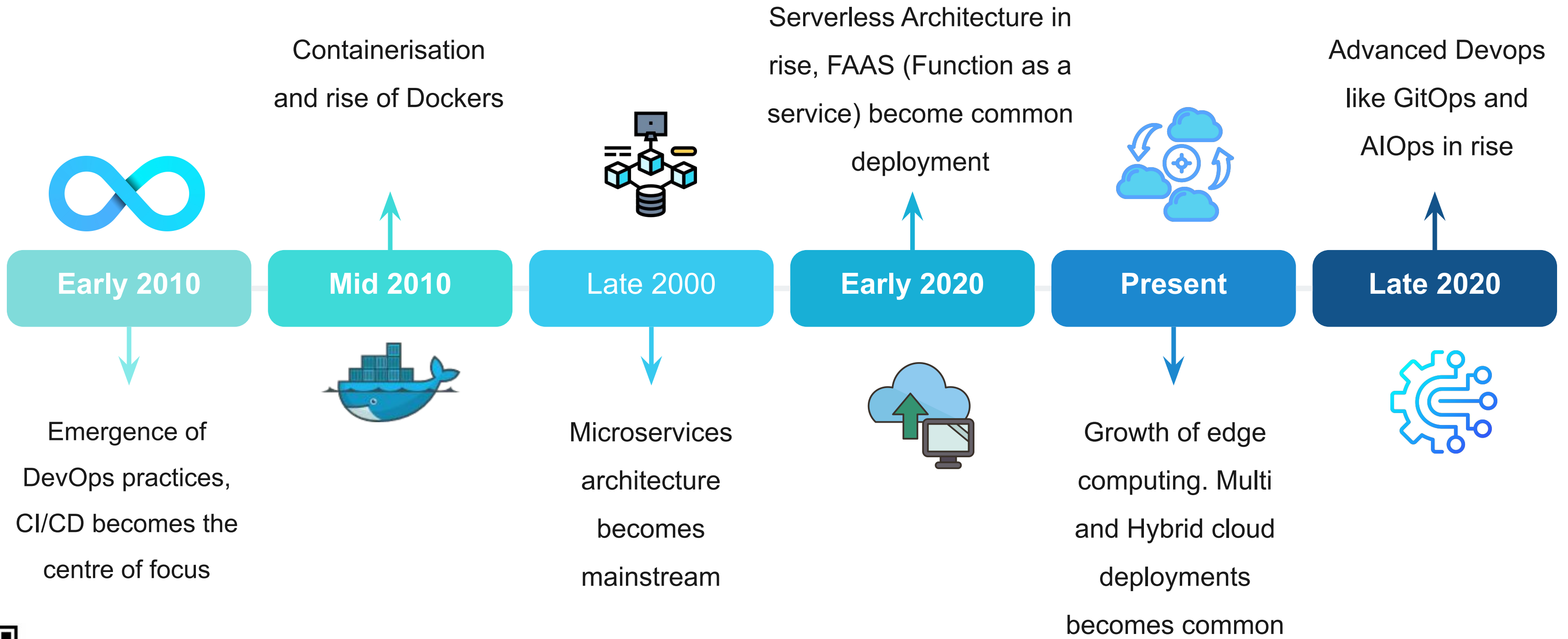
MENTORING

Love doing



DEPLOYMENT

A brief history of a software deployments



DevOps and Containerization

Serverless, Edge Computing, and Advanced DevOps

in



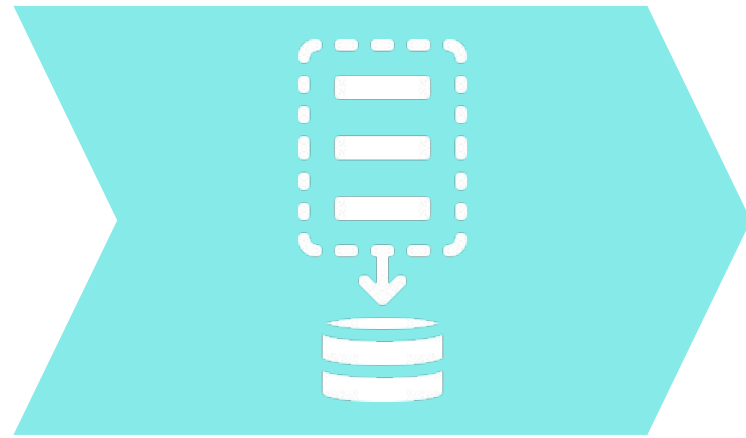


SOFTWARE TESTING

Routine

APPLICATION

Monolithic



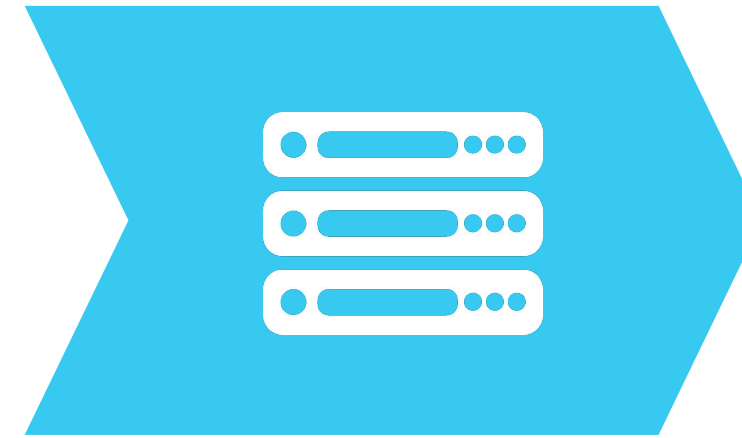
Single standard code base

Cloud Application



An onPremise application moved as SaaS application

Single production



Presence in single geography

Standard Test system

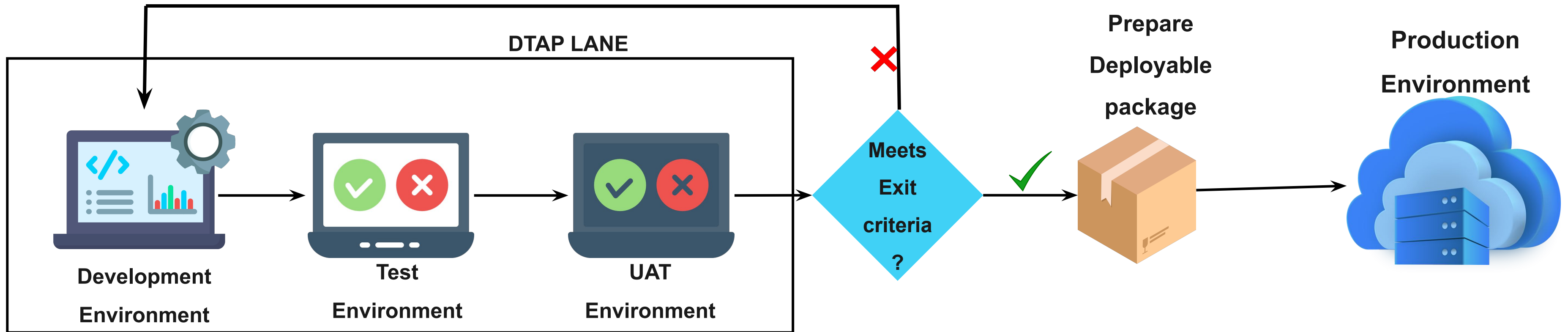


Standard DTAP lane

in



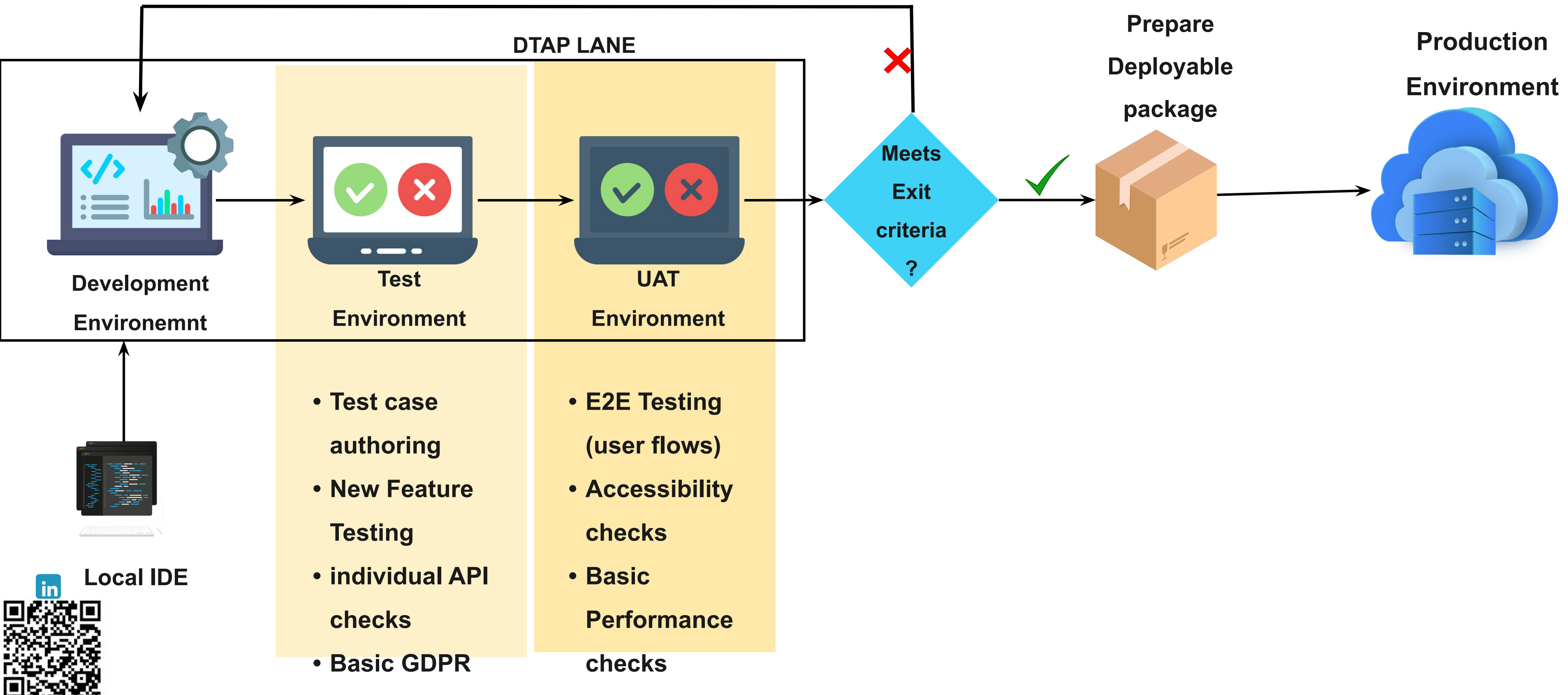
HIJACK OVER DEPLOYMENT



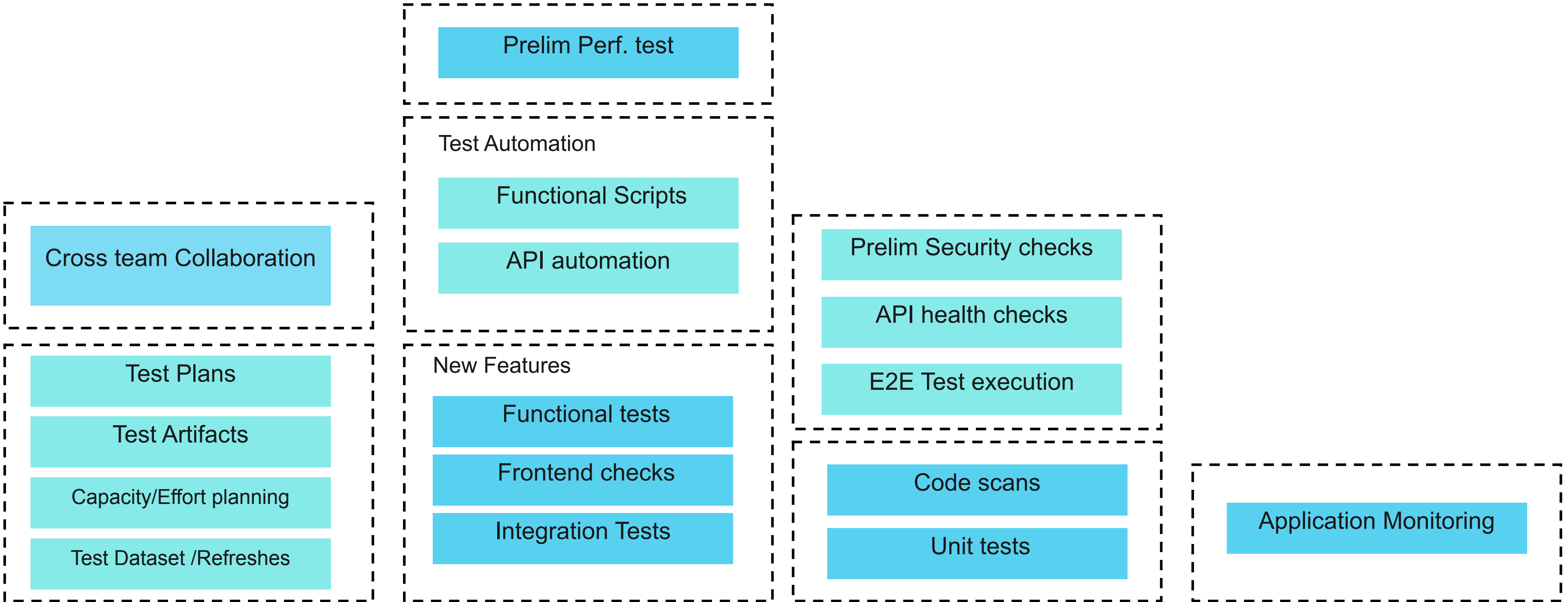
Local IDE



HIQOVER DEPLOYMENT



TEST ENGINEERING



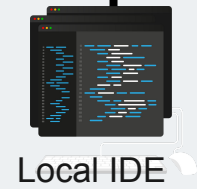
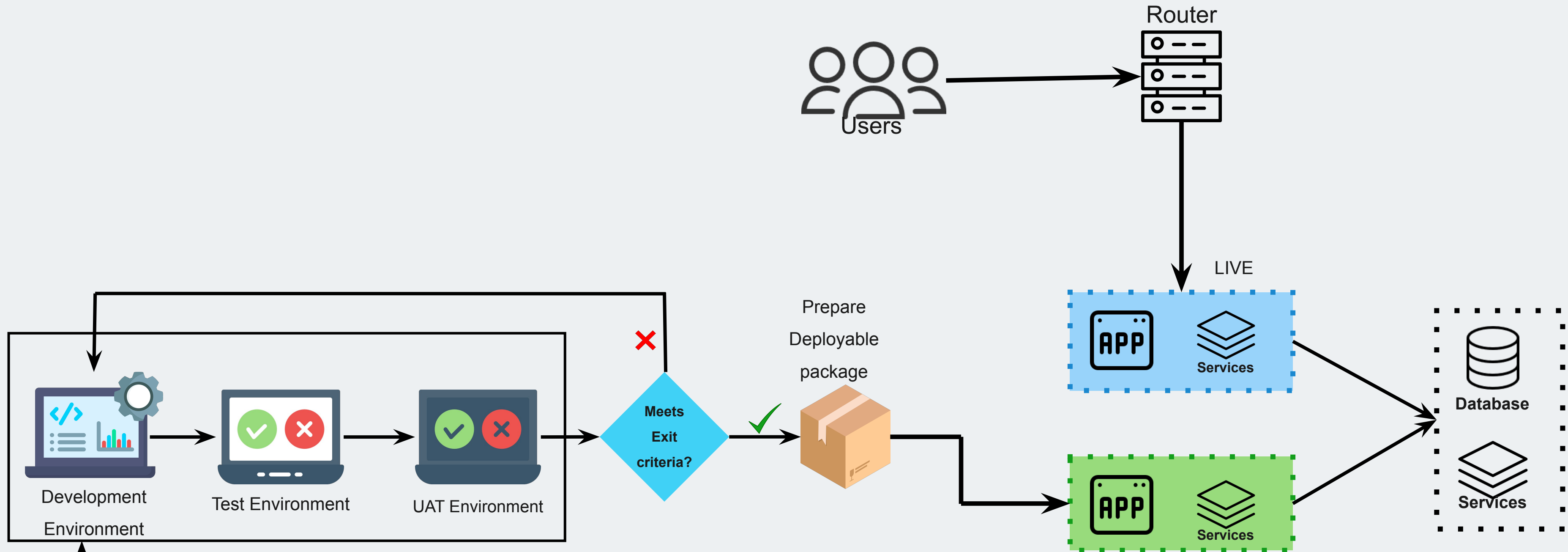
Plan

Implement

Build

Deploy

BLUE-GREEN DEPLOYMENT



TIME TO REVIST TEST STRATEGY



63%

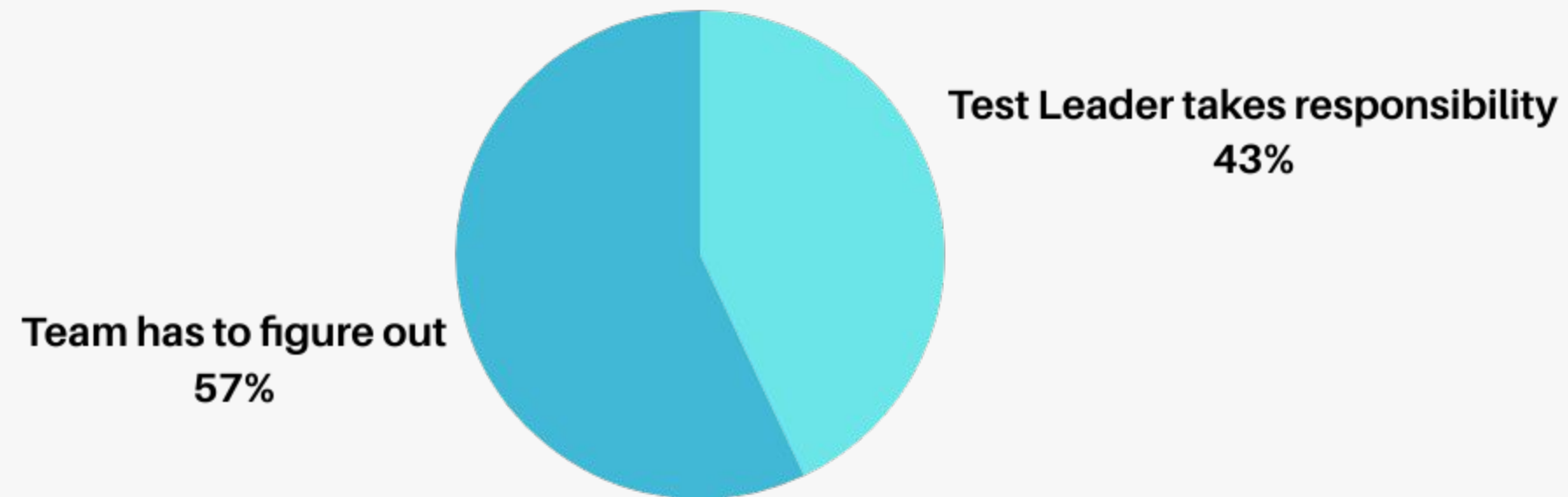
No change in process or
delivering structure.

52%

Expressed feeling left behind
during the change

82%

Replied they prefer training
before change



5 ESSENTIAL DIMENSIONS

for test leaders



IMPACT

New deployment strategy opened new challenges

During the Shift from Blue to Green system the data sync should be taken in place



Data synchronisation

During the transition, the long running transactions should not be interrupted.



Delayed transactions

In the cusp of transition, Blue and Green system access same DB



Parallel DB updates

IaaS provided flexibility for the Right shift testing



Embracing right shift testing

API test first approach



Microservice architecture

Cold start/Warm start

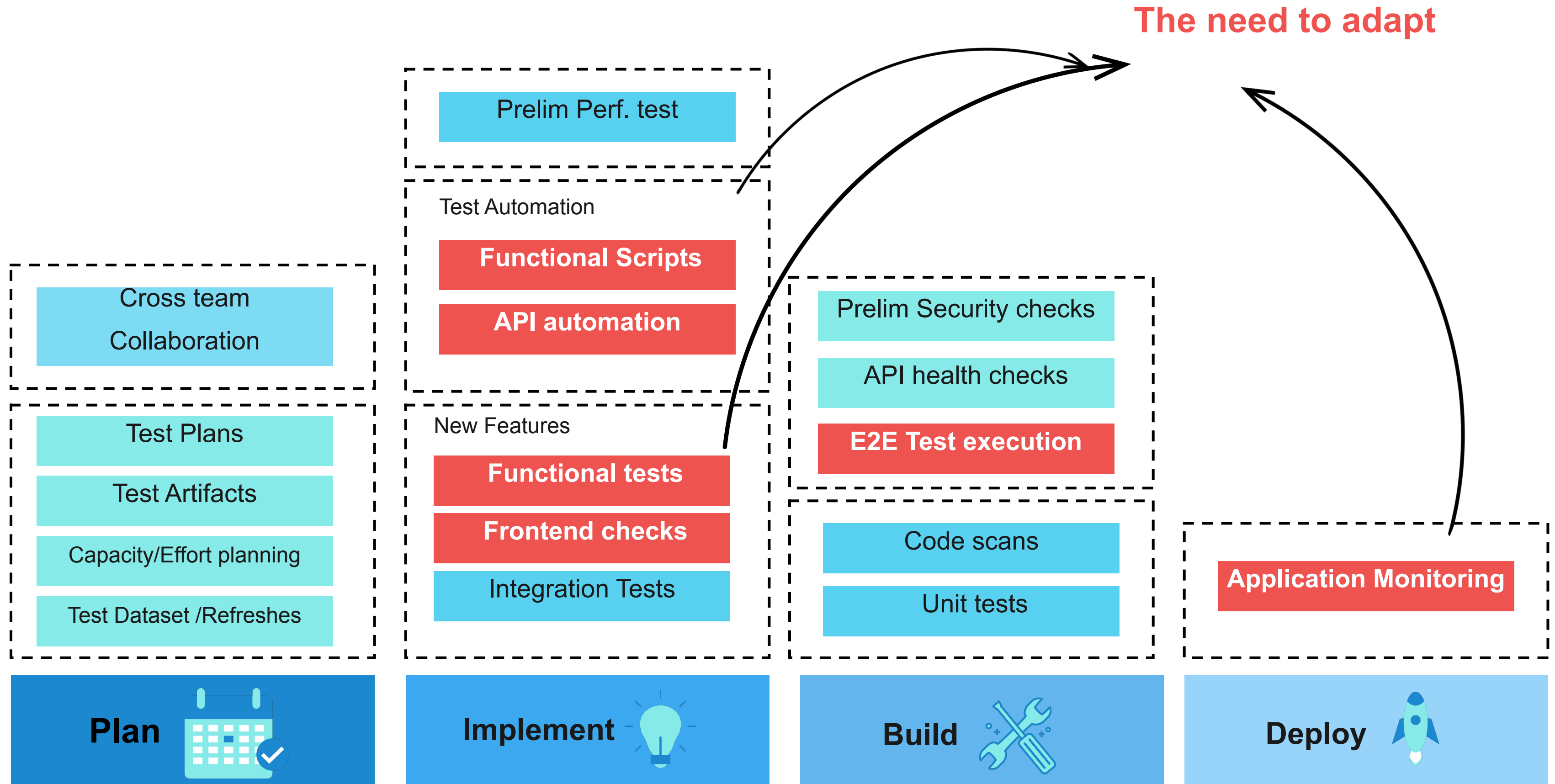


Service Mesh

in

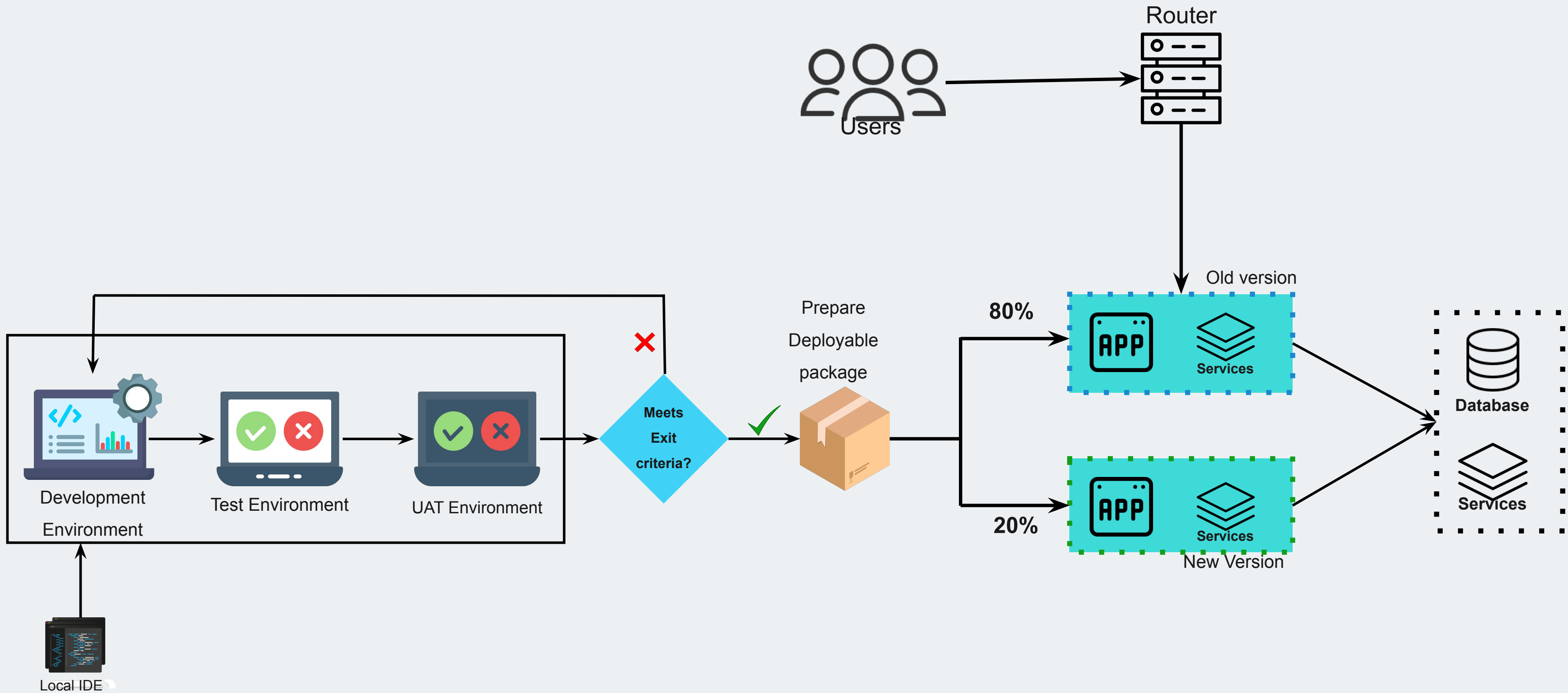


ZOOM IN....

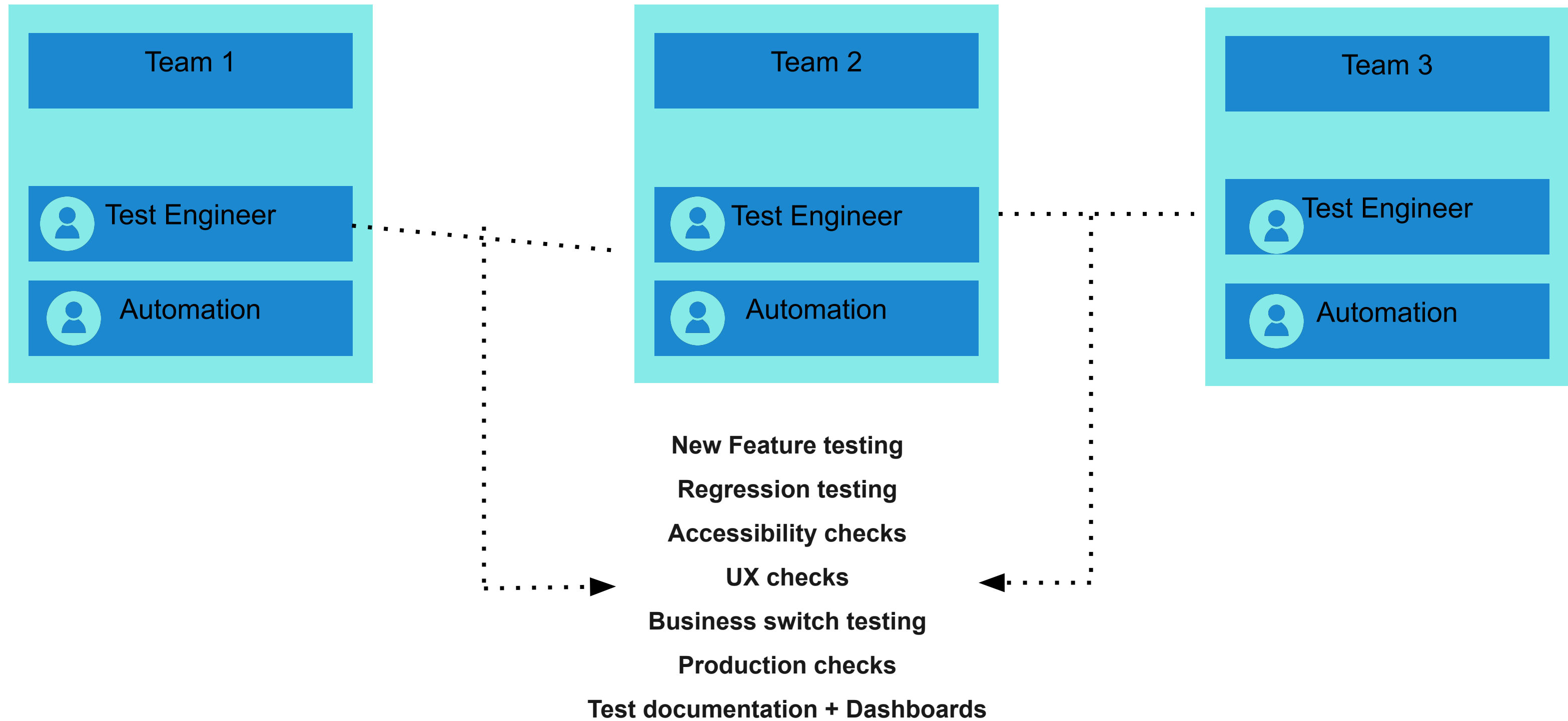


INCREMENTAL DEPLOYMENT

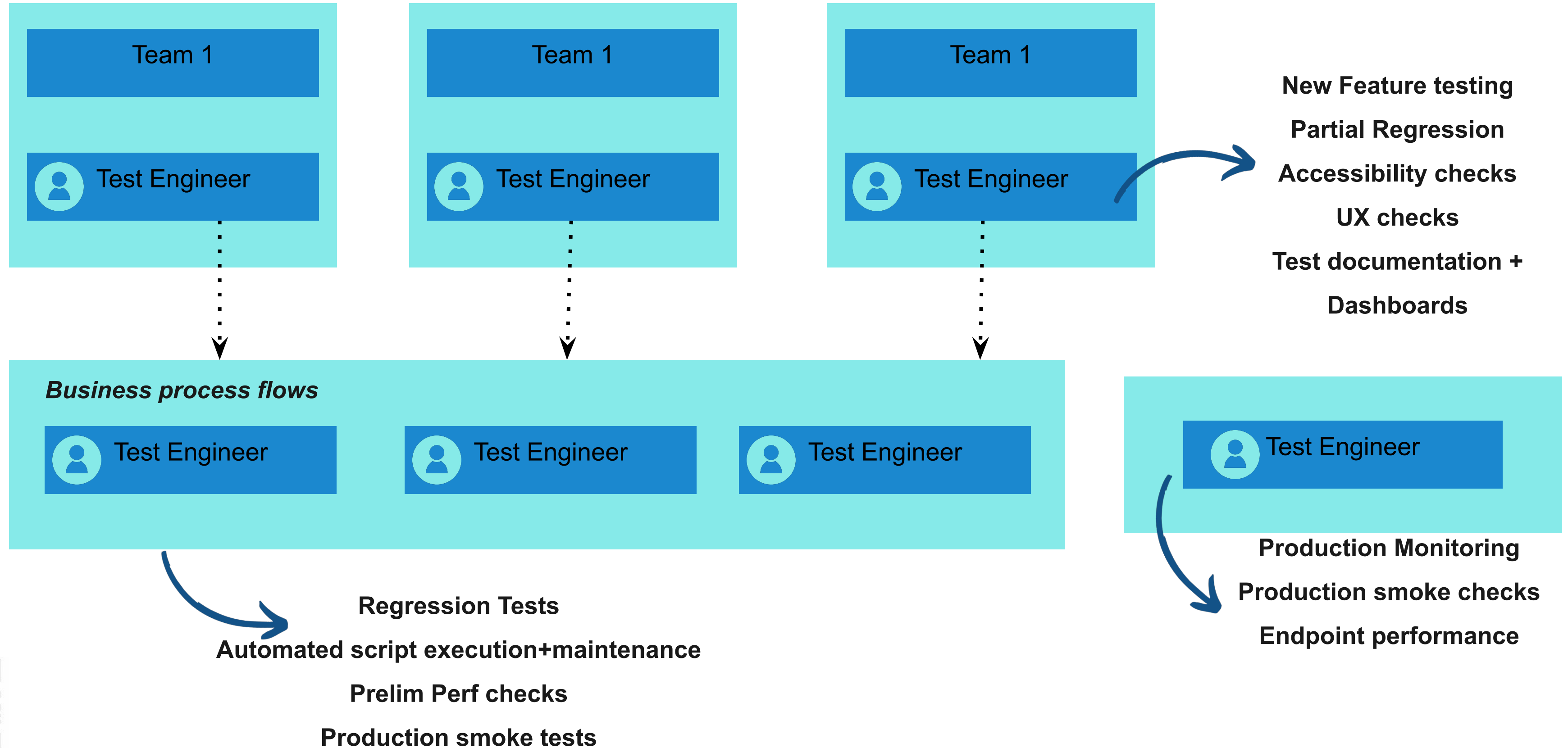
Controlled traffic



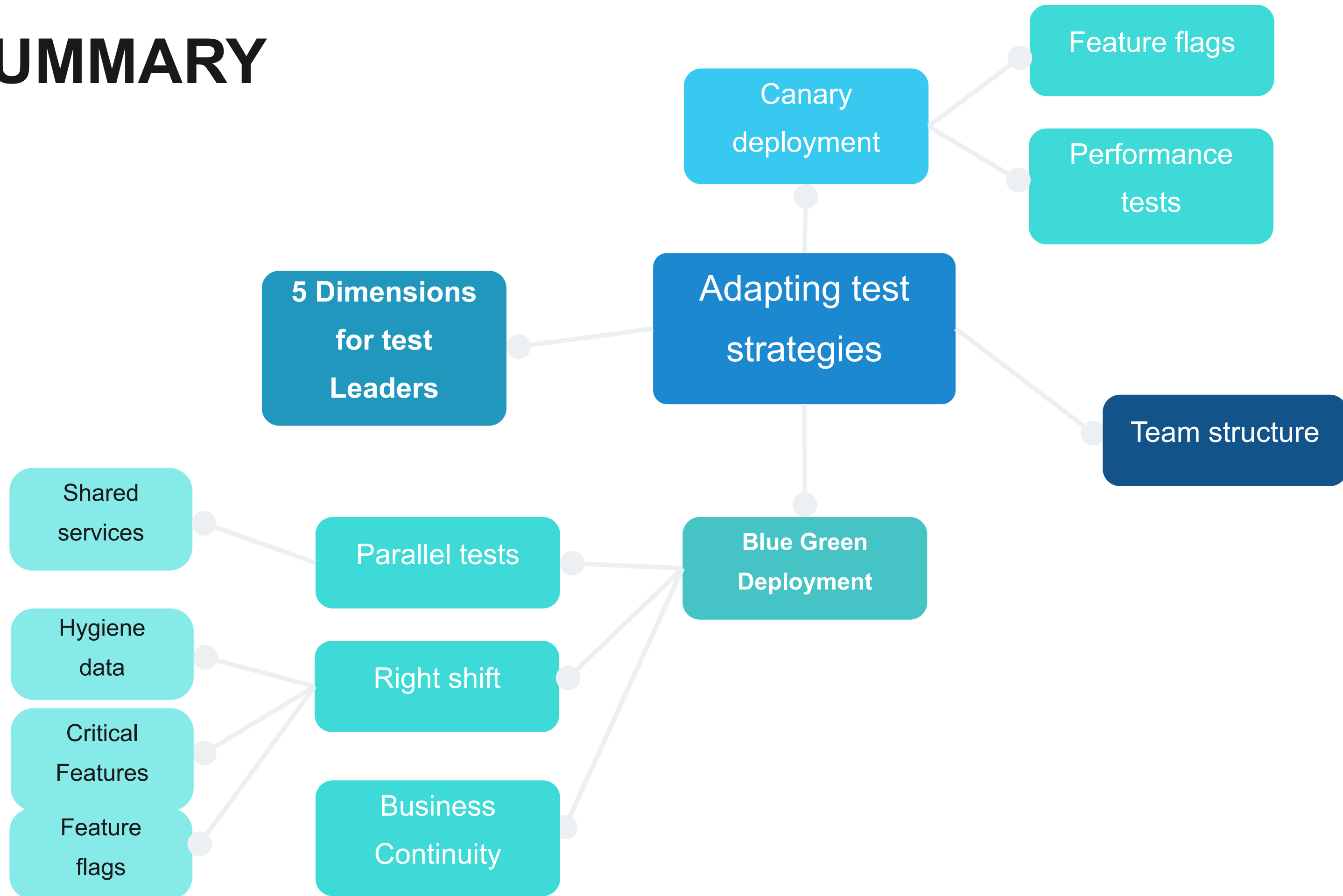
TEAM STRUCTURE



TEAM STRUCTURE.. TO HERE



SUMMARY





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