

Agenda

△ Amadeus

Migration Test Strategy

Quality Engineering Transformation



Amadeus



Amadeus

In a few words



One of the world's leading software companies



646+ millionTotal bookings processed in 2019 using the Amadeus distribution platform



1.9+ billionPassengers boarded in 2019 with Amadeus and Navitaire solutions



9th consecutive year included in the Dow Jones Sustainability Index (DJSI). Recognized as world leader in the Software & Services industry sector in the DJSI in 2020

Our commitment to innovation



€8.3 billion invested in R&D since 2004



50+ technology sites and 9800+ people across the world



In 2021 we processed **over 75,000 tps (>1 Mio tps** at peak time) in our main data center



Scalable technologybuilt on open systems and a service-oriented architecture

Amadeus

Our customers



travel agencies, online travel agencies, tour operators and corporations worldwide























2000 16 TPF Mainframes



2001

First OBE (open system) Few tps HP-UX Superdome



2009

255 App Servers 27 ktps Linux Pizza box



2019 2779 App Servers

1003 ktps





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Why the cloud?

Data sovereignty

Improving Latency and Response Time

Energy Efficiency (e.g. PUE)

Keeping an Edge





Proximity

Better performance, lower latency



Flexibility

For unplanned traffic peaks



Security

Higher standards



Innovation

Continuous integration & development

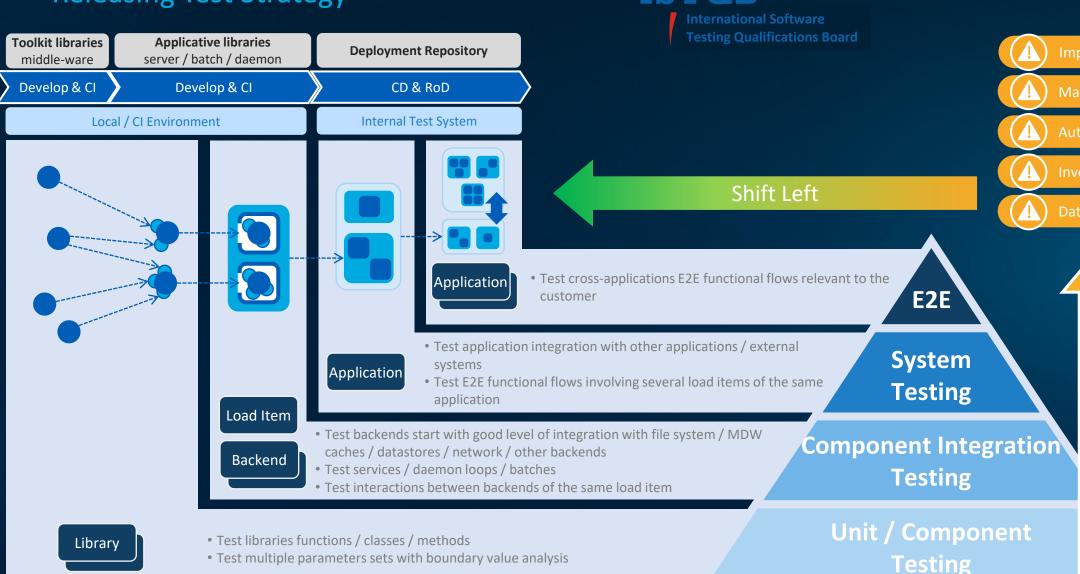


Faster time-to-market

Respond & innovate quicker



Releasing Test Strategy



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What is different?



New scale



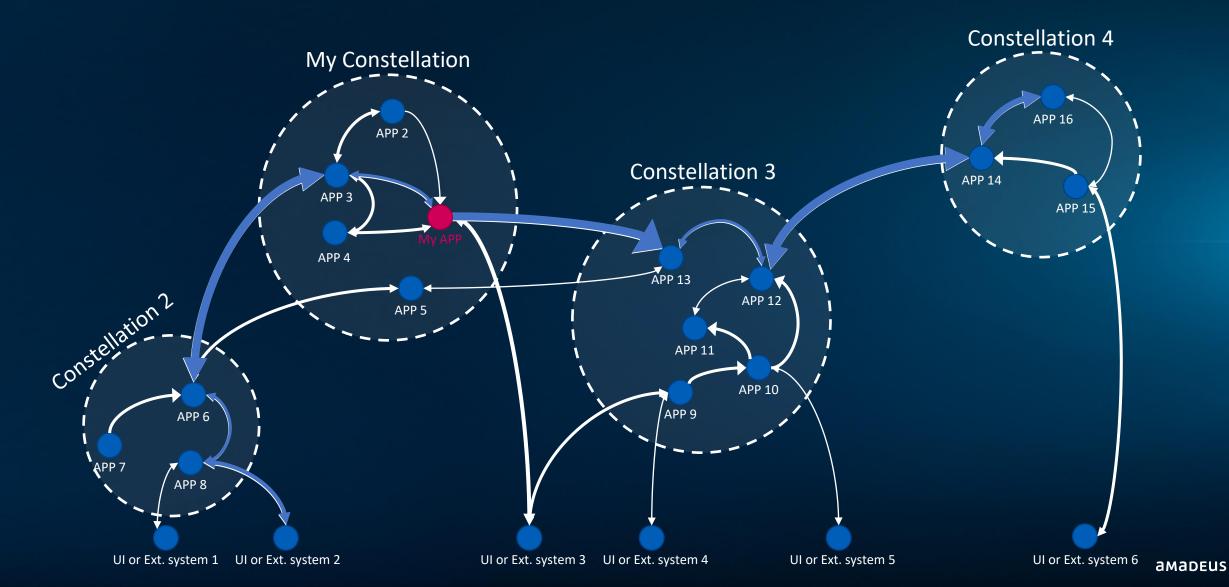


No code change



Tooling

Amadeus Ecosystem



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Migration Test Strategy

Diversity



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Migration Test Strategy

What is different?



New scale

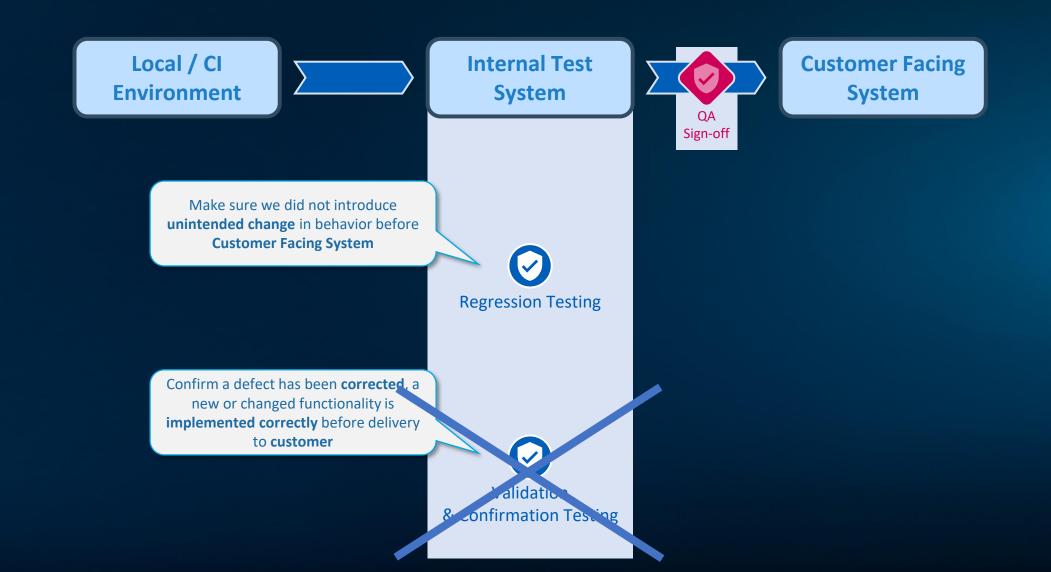


No code change



Tooling

Scope



What is different?



New scale



Pace



No code change



Tooling

Tailored Testing – Risk Based Approach



Tailored Testing – Risk Based Approach

Example 1:

- No DB
- Use of credit cards
- Not latency sensitive





Perf tests

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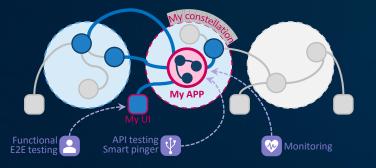
Testing Layers





~40 cross-application E2E tests coordinated by a **dedicated QA team** with co-ownership model







Application owners identify, assess and mitigate the risks for **their own application** with targeted testing (E2E, NFRs, monitoring, hybrid mode...)





Limited impact on applicative code

Developers run unit & component tests as usual in the **legacy environment**

APPLICATION LAYER

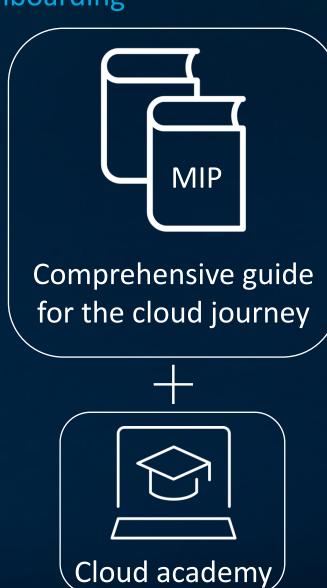
PLATFORM LAYER

Quality Engineering Transformation



Quality Engineering Transformation

Onboarding









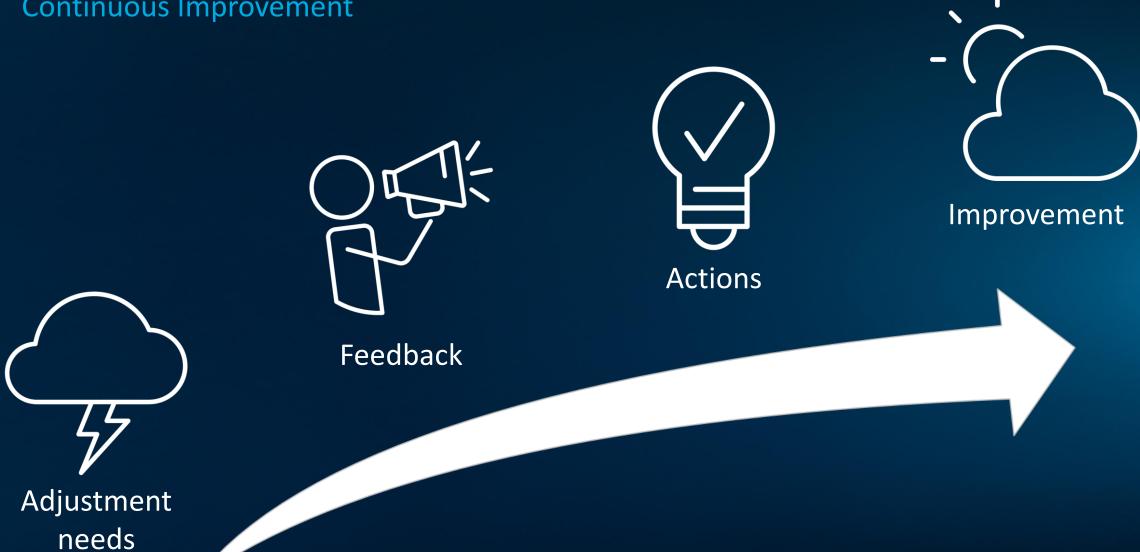






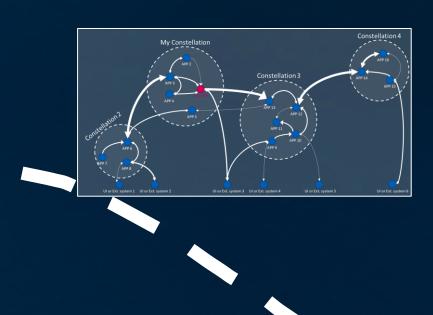
Quality Engineering Transformation

Continuous Improvement



Key Take Away

Our move to the Cloud







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