

INTRODUCING BEYONDSOFT E2E CLOUD APP TESTING

Beyondsoft has deep consulting and technical experience in building unified test management suites for end-to-end (E2E) Cloud App Testing. This E2E strategy is effective for both functional and automation testing, by considering the overall test environment and the individual components that impact test results.

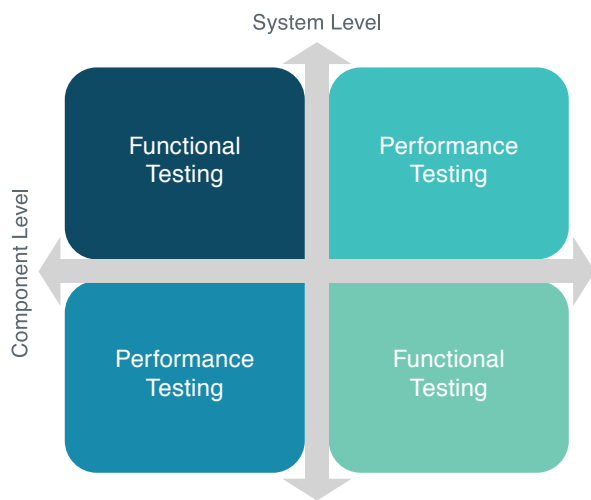


Figure 1: E2E Architecture Testing

Consulting and Technical Experts

We work with our customers to understand their current testing processes and provide consulting and technical expertise to enhance their cloud app testing environment. We seek to understand our customers' challenges and find the best solution to resolve these issues quickly and cost-effectively. We focus on driving customer success while maintaining an efficient project schedule and overseeing test result quality checks.

Effective Testing Strategy

Under our E2E testing strategy, component level and system level tests always include functional testing to ensure data integrity, and scalability, and performance testing to ensure acceptable response times for varying system loads. Figure 1 illustrates how these key areas are accounted for.

Tailored Testing Framework

Our unified test management suite examines all nodes within a workflow. We take into consideration the following areas to design a test automation framework that achieves the best test results:

- Isolating architectural components for a performance test
- Anticipating releases from cloud solution vendors
- Automating QA legacy integrations
- Performing data migration mock runs

360° Coverage

E2E testing uses real data and test environments to simulate actual settings. This approach mirrors real world usage and provides 360° coverage as illustrated in Figure 2. The 360° coverage include: interacting with a database, using network communication, or working with other hardware, applications, or systems.

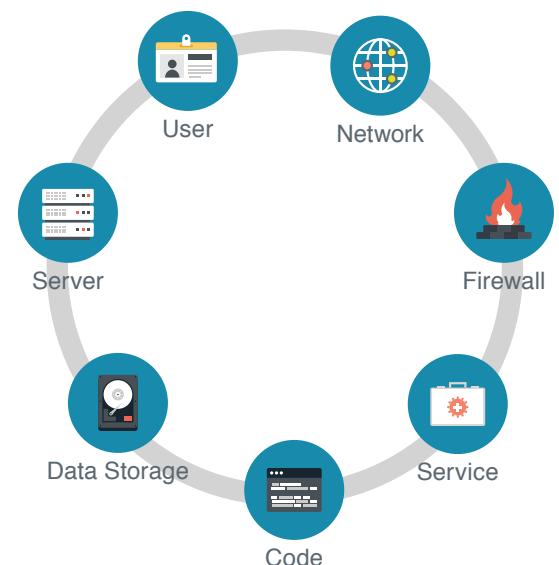


Figure 2: 360° Coverage



CASE STUDY: ONLINE BOOK STORE

Using a customized approach, Beyondsoft provided a unified test management solution that enabled our customer to integrate and manage several services from one dashboard, which improved operational productivity and cross-group collaboration.

The Challenge

The customer wanted to build a public online book store that would include four services:

(1) catalog (2) inventory (3) price (4) user profile, with the intention that when one service was updated, it would automatically update the other services as needed.

The customer's challenge included working with outdated technology, needing to find an immediate solution to bridge the disconnect between existing and new services, and educating their staff on adopting the right methodology to drive digital transformation.

The Solution

Our consulting and technical teams met with the customer and their employees to understand service requirements and challenges. We provided a unified test management solution for the cloud application, with these key features:

- Functional testing and scalability/load testing were implemented for every content layer of service
- XML requests were submitted to each content service
 - The corresponding response XML document was captured and evaluated on content and response time
- Transactions were verified throughout the site for functional, scalability, and load testing
- Several functionality and performance tests were applied to access all connecting points
 - Adjustments were made to ensure each service ran seamlessly throughout the system

The Benefits

- 1 The standardized process enabled our customer to integrate the four services seamlessly and gain visibility to view them in one dashboard.
- 2 Operational productivity improved and cross-group collaboration was enhanced.
- 3 Our customer is more prepared to face future IT challenges.

Learn More

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