

DATAMATICS

CLOUD
TESTING

CLOUD TESTING SOLUTION

Continuous Integration – Continuous Deployment
– Continuous Testing





In today's business world, Cloud and Digital space drives business growth, customer experience, and optimization. This is leading organizations to adopt Cloud at various stages of their lifecycle.

It is imperative to have the right testing strategy for Cloud application migration and implementation for a faster go-to-market. Cloud Testing solution that follows the DevOps paradigm of Continuous Integration – Continuous Deployment – Continuous Testing (CI/CD/CT) is the mandate of a dynamic market.

CHALLENGES IN CLOUD TESTING

Adoption and migration of an existing application to the Cloud Native environment has its own set of challenges –



Infrastructure availability and stability issues within the larger context of business growth, failure in configuration, network, security, etc.



Big Data related issues, such as inconsistent data transformation, data duplication, etc.



Container-based integration causing functional issues, compatibility issues, etc.



Application availability, scalability, and security related issues in the non-functional requirement context

DATAMATICS CLOUD TESTING SOLUTION

To accelerate time-to-market, organizations need holistic testing solutions those cater to Cloud transformation journeys in the various stages of the Cloud practice maturity.

Datamatics Cloud Testing, as a part of the Enterprise Digital Assurance, helps organizations to address challenges related to Cloud Testing with Shift-Left and Shift-Right testing options for all Cloud Transformation related use cases. For example: Custom Application migration, Data on Cloud, Legacy Modernization, Cloud Native Application, and SaaS packages.

With AI-based automation tools, Datamatics Cloud Testing uses maximum automation across the DevOps paradigm of Continuous Integration – Continuous Deployment – Continuous Testing (CI/CD/CT).

Datamatics Cloud Testing offering focusses on four key areas in the Cloud Migration:

Functional Testing

- >> **Validation of migrated apps** in Cloud environment
- >> **Testing of microservices and containerized applications** in Cloud Native environment
- >> **Omnichannel testing** of applications used on mobiles, web, and tablets
- >> **Testing of legacy applications**, which are modernized and migrated to Cloud

Non-Functional Testing

- >> **Performance** – Reliability, availability, scalability, stress, and load testing
- >> **Security Vulnerability** – Penetration testing and validation on Cloud across multiple platforms



Infrastructure Testing

- >> **Environment Readiness Testing** – Validation environment availability as per manual or automated scripts for infra by code
- >> **Operational Testing** – Disaster Recovery test, fail-over test, high availability test, and AB test

Cloud Data Testing

- >> **Data Migration Testing** – Data centre migration from on-premise source to Cloud target testing
- >> **Data Lake Validation** – Validation of Data Lake being setup on Cloud

The offering leverages Datamatics Big Data Testing framework, best practices from Cloud CoE and Testing practice, partnership with AWS and MS Azure Cloud, and AccelQ AI based automation testing solution.

Datamatics has a dedicated Cloud practice with industry certified Cloud Architects in AWS and MS Azure.

Flexi-licensing and higher discounting models through vendor alliance partnerships help make it a cost-effective offering for clients.

BENEFITS OF CLOUD TESTING

All the above aspects help organizations achieve:

- >> 35% cycle time reduction
- >> 70% increase in productivity
- >> Zero critical defects in production
- >> Sustained critical path approach through CI-CD-CT
- >> Faster go-to-market
- >> Higher degree of product viability

DATAMATICS
**Deep in
Digital**



ABOUT DATAMATICS

Datamatics enables enterprises to go Deep in Digital to boost their productivity, customer experience, and competitive advantage. Datamatics' portfolio spans across three pillars of Digital Technologies, Digital Operations, and Digital Experiences. It has established products in Intelligent Document Processing, Robotic Process Automation, AI/ML models, Smart Workflows, Business Intelligence, and Automatic Fare Collection.

Datamatics caters to a diverse global clientele across Banking, Financial Services, Insurance, Healthcare, Manufacturing, International Organizations, and Media & Publishing. The Company has a presence across four continents with significant delivery centers in the USA, India, and the Philippines. To learn more about Datamatics, visit www.datamatics.com

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