



CLOUD



Cloud Testing Solutions



We get you past the bottlenecks!™



Overview

Cloud testing is a subset of software testing in which simulated, real-world Web traffic is used to test cloud-based Web applications. Cloud testing also verifies and validates specific cloud functions, including redundancy and performance scalability. Moving testing to the cloud should be viewed as a strategic initiative rather than tactical objective. Pyramid has facilitated the migration of cloud solutions for a number of small to medium-size IT organizations. Our cloud-experienced QA designers have strong knowledge of various cloud-based applications and testing tools.

What Is Cloud Testing?

Cloud testing, or more formally, cloud computing testing, is a form of software testing in which Web applications use cloud computing environments to facilitate the tests. Cloud testing uses cloud infrastructure for software testing. This allows users to leverage the benefits of the cloud computing model, which is scalable, service-based, and pay-as-you-go.

Testing Challenges and Limitations

- Limited test budgets, deadlines, high costs per test, large numbers of test cases, little or no reuse of tests.
- Applications are increasingly dynamic, complex, distributed, and component-based, creating many new challenges for testing teams.
- Limited capital budget, limited IT support, or no desire to build and maintain a large in-house IT infrastructure.
- Need for an immediate fix for a particular business function mitigated by risk of disrupting operations.
- Effort required to test complex manual processes.
- Cost and difficulty testing expensive custom applications.

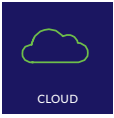
- Poor optimization of off-the-shelf solutions.
- Geographical distribution of users.

Pyramid Cloud Testing Solutions (CTS)

Cloud Testing resolves many traditional testing problems, bringing effectively unlimited storage, quick availability of scalable infrastructure, flexibility, and a distributed testing environment that reduces the time required to test large applications.

Pyramid provides end-to-end cloud testing solutions that reduce the cost of testing and help shorten provisioning time with the help of on-demand test server provisioning. Our solutions and strategies assure a high level of coverage and secure, mission-critical production applications.

PYRAMID CLOUD AUTOMATION TESTING SOLUTION			
TESTING THE CLOUD	CLOUD TOOLS	CLOUD MODELS	
<ul style="list-style-type: none"> > Functional Testing > Performance And Load Testing (Longevity Testing) > Stress Testing And Recovery Testing > Security Testing > Multi Tenancy Testing > Interoperability And Compatibility Testing > Risk Compliance Testing > Latency Testing > Availability > Scalability 	<ul style="list-style-type: none"> > Apperfect Cloud Testing > Automated Website Testing From The Cloud > Cloud Computing Testing From Spirent > Cloud Testing With Testmaker > Cloudtest Platform By Soasta > Green Hat > Jmeter In The Cloud > Neoload Cloud Testing > Parasoft Cloud Testing > Source Labs: Cloud-based Cross-browser Testing > Skytap Cloud 	<ul style="list-style-type: none"> > IaaS > PaaS > SaaS 	
PRIVATE CLOUD	COMMUNITY CLOUD	PUBLIC CLOUD	HYBRID CLOUD



Types of Cloud Testing

Performance and Load Testing (longevity testing):

Ensures that a cloud solution meets business requirements specific to cloud computing.

Stress Testing and Recovery Testing: Ensures data recovery after a hardware crash.

Security Testing: Ensures that a cloud solution meets data security requirements.

System Integration Testing (SIT): Ensures that all components of a full system integrate properly and that all end-to-end functionality can be validated.

User Acceptance Testing (UAT): Ensures that the cloud solution meets the documented needs of the business.

Interoperability and Compatibility Testing: Ensures cloud service and vendor migration.

Private Cloud: Computing resources are deployed for one organization. This method is typically used for intra-business interactions, where computing resources can be governed, owned, and operated by the same organization.

Community Cloud: Computing resources are provided for groups.

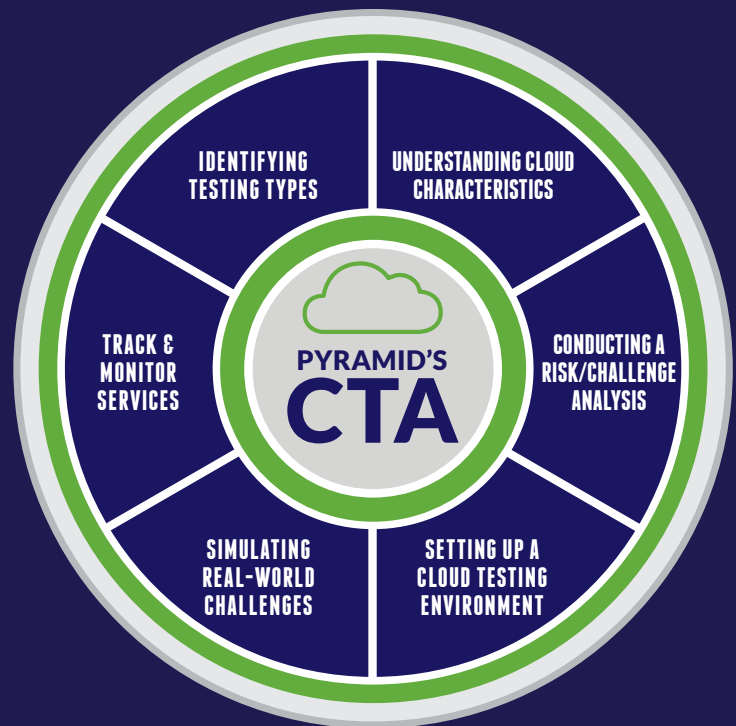
Public Cloud: This type of cloud is commonly used for B2C (business-to-consumer) interactions, where the computing resource is owned, governed, and operated by government, an academic organization, or business organization.

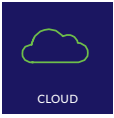
Hybrid Cloud: This deployment method can be used for both B2B and B2C interactions. It is called hybrid cloud as the computing resources are bound together by different clouds.

Pyramid's Cloud Testing Approach (CTA)

Pyramid's cloud testing approach entails comprehensive cloud testing and cloud-based application testing, incorporating our QA designers' deep knowledge of a variety of cloud testing protocols and tools. Our process provides on-demand flexibility, facilitates greater collaboration, and allows faster time to market for business critical applications.

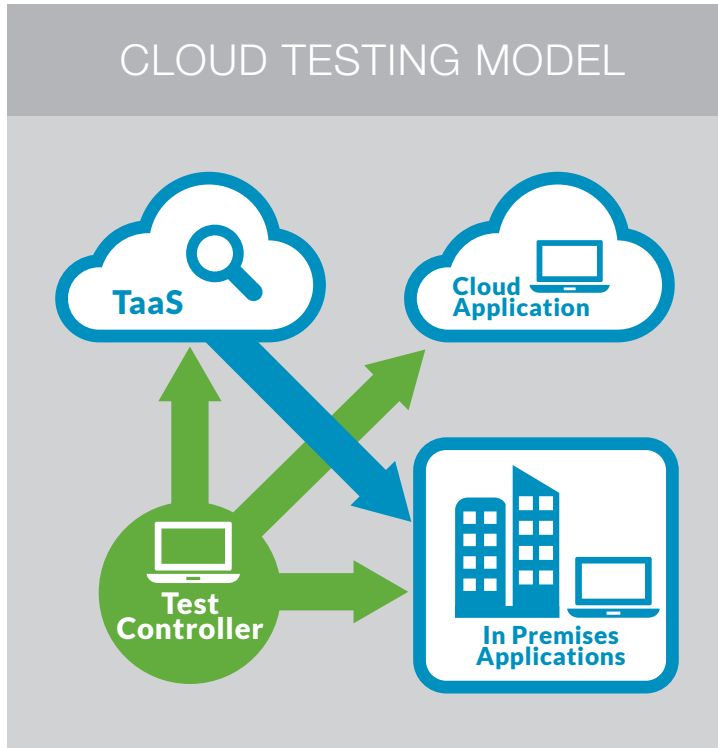
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Cloud Testing / Testing as a Service (TaaS)

Cloud computing creates the perfect opportunity to take advantage of testing as a service (TaaS) and software as a service (SaaS).



Pyramid Advantages

- End-to-end solutions including Cloud Strategy, Cloud/SaaS Enablement, Cloud Hosting, and Operations and Customer Support.
- In-depth understanding of the complete cloud stack and established partnerships with leading cloud platform providers like Amazon Web Services, Force.com, Google app engine, Eucalyptus, and Rackspace.
- Experienced QA designers proficient in Mobile Cloud, Performance Cloud, and Functional Cloud applications and tools.
- Solutions and strategies that assure a high level of coverage and secure mission-critical production applications.
- A cost effective and flexible cloud-based testing environment.
- Reduced total cost of ownership (TCO) of quality assurance systems.
- Greater flexibility through on-demand sourcing of testing requirements.
- Performance and load testing implementation on demand and at scale.
- Latency and network, server, and application issues identified and fixed effectively and quickly
- Quick, cost effective, and efficient real-world testing scenarios.
- Consistent delivery of high value-added engagements with measurable ROI.

CLOUD COMPUTING
CREATES THE PERFECT
OPPORTUNITY TO TAKE
ADVANTAGE OF TESTING
AS A SERVICE (TAAS)
AND SOFTWARE AS A
SERVICE (SAAS)

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