virtusa

Engineering First

Cloud Assurance

Assuring enterprise cloud implementations
for predictability, quality, and experience

One prime factor disrupting the technological landscape, uprooting legacy mindsets, and changing how business is done is the Cloud. Organizations need to accelerate the implementation of cloud applications, services, or infrastructure to remain competitive. If not quality assured with a structured approach, Cloud implementations across the spectrum can bring about challenges such as:

Network connectivity and vulnerabilities

BAU disruptions during migration

Application configuration

Data loss and mismatch

Latency and compromised user experience

Software security risks and standard compliance violations

Break in the release management process during migration
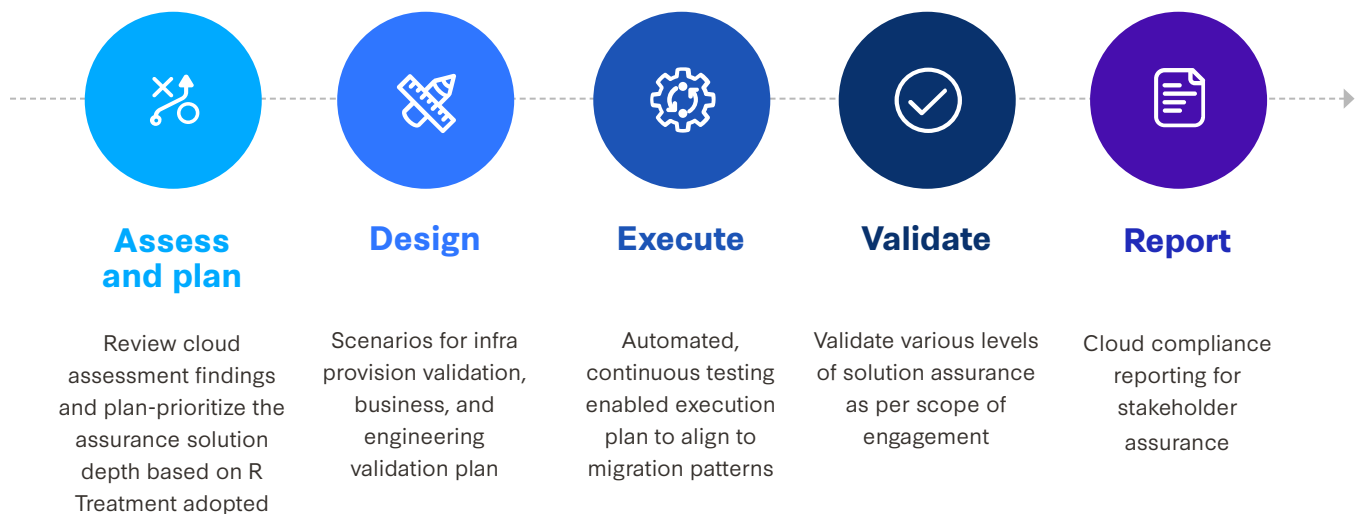
Cloud cost overruns

At Virtusa, we systematically manage your cloud migration journey, ensuring a seamless transition while maintaining the highest level of quality assurance. Our Cloud Assurance offering assures companies of a predictable, secure, best-in-quality cloud implementation journey.

Why clients are choosing Virtusa?

Clients choose Virtusa for their IT and technology needs due to a combination of factors that set them apart in the market. Our commitment to excellence is evident through the following differentiators:

- Strategic partnerships with AWS, Azure, and GCP offer a unique leverage in terms of depth of expertise

- Industry-recognized digital assurance credential, coupled with Cloud focus - providing independent 3rd eye view for Implementations

- Unique approach of **Quality-as-Code (QaC)** engineered as part of a multi-layered coverage for Cloud implementations

- 4000+ certified cloud professionals and 500+ cloud assurance professionals and 300+ Cloud engagements executed

- Polyglot assurance architects – for automation, NFT, and cloud

Virtusa's Cloud Assurance solution approach

Assess and plan

Review cloud assessment findings and plan-prioritize the assurance solution depth based on R Treatment adopted

Design

Scenarios for infra provision validation, business, and engineering validation plan

Execute

Automated, continuous testing enabled execution plan to align to migration patterns

Validate

Validate various levels of solution assurance as per scope of engagement

Report

Cloud compliance reporting for stakeholder assurance

Cloud Assurance service portfolio

Virtusa's Cloud Assurance offering comprises of best-of-breed quality engineering practices, platforms, tools, and solution accelerators.

Infrastructure validation

- IaC resource validation
- Cloud cost optimization review
- Infra integration testing
- Well-architected framework review
- Hybrid and multi-cloud validation
- Cloud governance review

App validation

- Application sanity testing
- Functional QA – manual and automated
- Microservices testing (contract testing)
- CX – UI / UX validation
- Data migration and validation
- E2E regression testing

Non-functional validation

- Performance testing – Hz and Vr scaling
- Availability – CDN, Edge Validation
- Security validation
- Reliability testing
- Observability testing
- A/B, multivariate testing

Accelerator-led GCP Cloud Assurance delivery

Terraform Studio - provides solution to auto-generate and validate IaaC scripts

Accello DTA - provides E2E application test automation platform that supports multiple interfaces

Success stories

Virtusa helps a global media and entertainment company achieve 82% automation coverage: provides automation savings of **3800+ hours every quarter** by implementing end to end test automation integrated with CI/CD tools stack and infrastructure automation tools.

Virtusa helps a leading US insurance company in their comprehensive cloud migration journey, speeding their time-to-market through customized R treatment cloud assurance strategy and automated smoke, regression, and performance testing.

About Virtusa

Virtusa Corporation is a global provider of digital engineering and technology services and solutions for Forbes Global 2000 companies in the financial services, healthcare, communications, media, entertainment, travel, manufacturing, and technology industries worldwide. At Virtusa, digital engineering is at the heart of everything we do. We are 35,000 builders, makers, and doers that partner with customers to reimagine enterprises and creatively build solutions to the most pressing business challenges that move them to the forefront of their industries.

Virtusa's unique "Engineering First" approach means never presenting an idea we can't execute. With deep industry expertise and empowered agile teams made up of world-class talent, we think about execution early in the process, because the earlier you think about execution the earlier an idea can have an impact. Solving from the inside out enables businesses to respond swiftly to changing needs with improved quality, lower costs, and lasting results.

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Contact us today for a free demo and assessment by emailing **marketing@virtusa.com**

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