Duality

MOVE ISV WORKLOADS TO THE CLOUD, SECURELY

Run part of your on-prem application in the cloud for customers in government, defense and regulated industries, while their data stays protected.

Challenge: Your Customers Run You On-Prem, and Their Data Cannot Leave

Your software runs at each customer site, often inside a regulated or air-gapped network. New AI features such as LLM summarization or data enrichment need GPUs that customers struggle to buy, host and maintain, and the cloud could deliver them sooner.

The obstacle is trust. The data is sensitive, so customers cannot easily send it to be processed in a cloud, even one you operate.

The Solution: Run Your Application in a TEE That Your Customer Verifies

Duality Technologies lets you run your application as a service inside a Trusted Execution Environment (TEE) in your own cloud account. A Duality node at the customer site attests the enclave and issues the certificates, so the customer's users connect securely and their data stays protected while it is processed.

The result: your customers get cloud-scale software and resources that are not available on-prem, and you ship upgrades more often with less on-prem software to manage.

Key Benefits For You

Move the Right Workloads

Take GPU-heavy features to the cloud and keep the rest of the application where it runs today.

Let Customers Verify, Not Trust

Customers attest the enclave themselves, and users check it in the browser.

Ship Upgrades Faster

Customers get new versions more often, with fewer on-prem releases for you to support.

Lower Customer Cost

Customers do not buy and run GPU infrastructure on-prem for the cloud-hosted features.

HEADQUARTERS
5 Marine View Plaza, Hoboken, NJ 07030

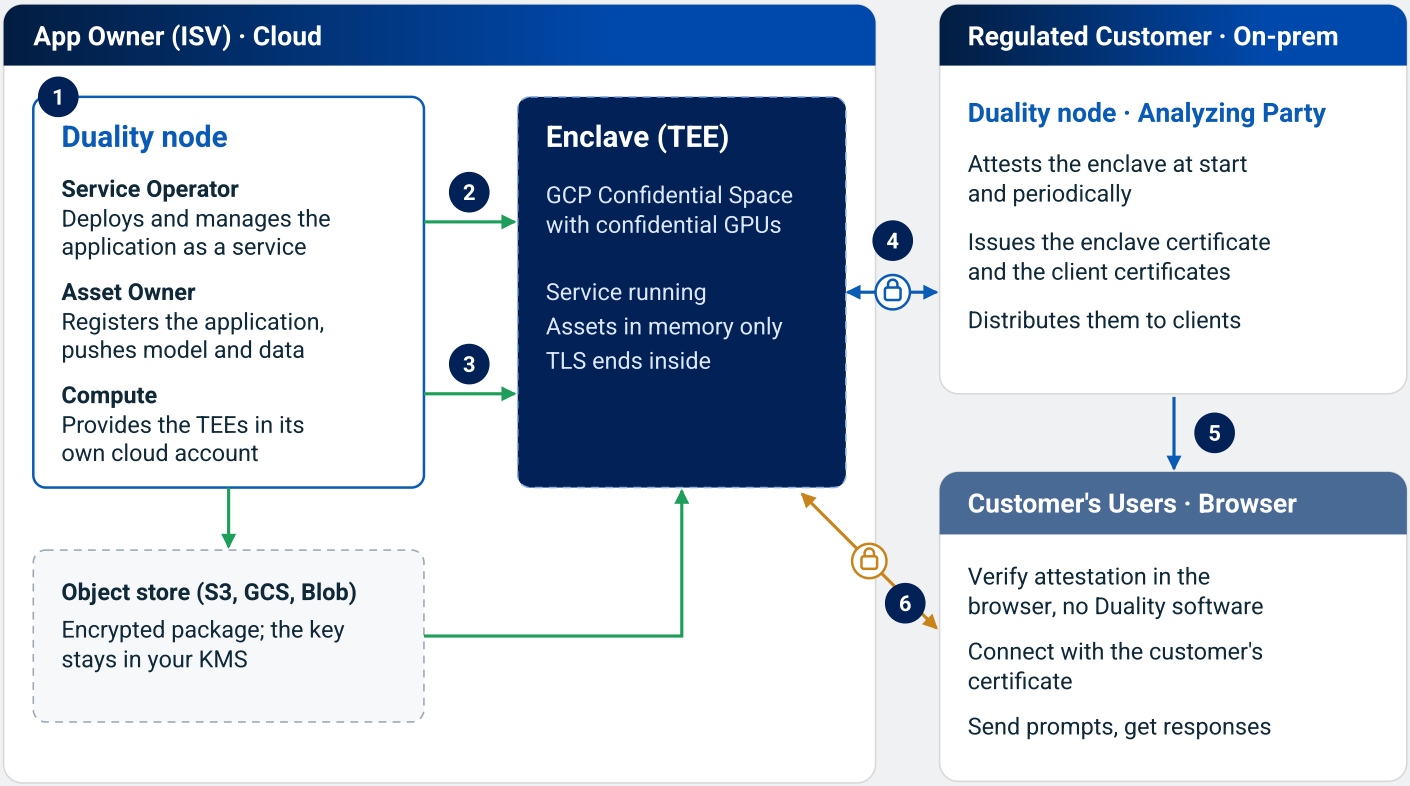
CONTACT US
info@dualitytech.com

LINKEDIN
Duality Technologies

WEBSITE
dualitytech.com

SECURE CLOUD MOVE FOR ISVS

How It Works: Two Parties, One Enclave, Browser Clients



1 Register the Application

The ISV registers its containerized application once. The platform packages it, encrypted by default, in an object store the TEE can read.

2 Deploy It as a Service

The ISV starts the application as a long-running service on a confidential-GPU TEE in its own cloud account.

3 Release Assets After Attestation

The model, data and key are released to the enclave only once the environment is verified, and they stay in memory.

4 The Customer Attests the Enclave

The Duality node at the customer site attests the enclave at start and periodically, then issues the enclave certificate.

5 The Customer Issues Client Trust

The customer issues and distributes mutual-TLS client certificates to its own users. The signing key stays on the customer node.

6 Users Connect From the Browser

Users verify the attestation in the browser, connect with their certificate, send prompts and receive responses. TLS ends inside the enclave.

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What You Get, and Who It Fits

Built-In Trust Controls

	Feature / Benefit	With Duality
01	**Customer-Held Attestation**	The customer attests the enclave at start and periodically, and users verify it in the browser with no Duality software on their side.
02	**Customer-Held Client Trust**	Mutual-TLS client certificates are issued, rotated and revoked by the customer. The certificate authority key never leaves the customer node.
03	**Isolated Application**	A kernel-level mechanism blocks outbound connections from the application. Only the listed platform channels cross the TEE boundary.
04	**Protected Packaging**	The application is packaged encrypted by default, and the key stays in your KMS or Secret Manager.
05	**Governed Release**	Policy decides which applications may be used, and a dedicated service operator role deploys and manages each service.
06	**Your Cloud Account**	The enclave runs in your own cloud account on Google Confidential Space with confidential GPUs.

The Fit Test: Look for All Four

Regulated Buyers

Defense, national security, law enforcement, critical infrastructure or banks.

On-Prem Installed Base

Your software runs at the customer site today, sometimes air-gapped.

GPU-Hungry AI

New GenAI, LLM or agentic features that customers struggle to host.

Cloud Move Under Way

A SaaS or cloud push that part of your customer base resists.

Deployment

You host the enclave in your own cloud account, connected to the customer's site, where the customer runs a Duality node. Duality does not replace your application or sell you a model; it provides the trust layer around the one you already ship.

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