



# Automated Cloud Platform Cuts Costs & Complexity

KEYSYS built a cloud system for Leeco Steel that **runs heavy simulations on demand, uses low-cost cloud resources, and redeploys with a push of a button.**

### Client

**Leeco® Steel** is a leading supplier of carbon, HSLA, and alloy steels with 11 locations across North America and Mexico, and is part of **O’Neal Industries**, the largest family-owned metals service center network in the U.S.

### Business Problem

The company needed to run **large-scale, compute-intensive models every weekday**. Their old setup relied on the **wrong type of cloud servers**, which were powerful but **very expensive**, and the system **was difficult to reset when problems occurred**.

### KEYSYS Solution

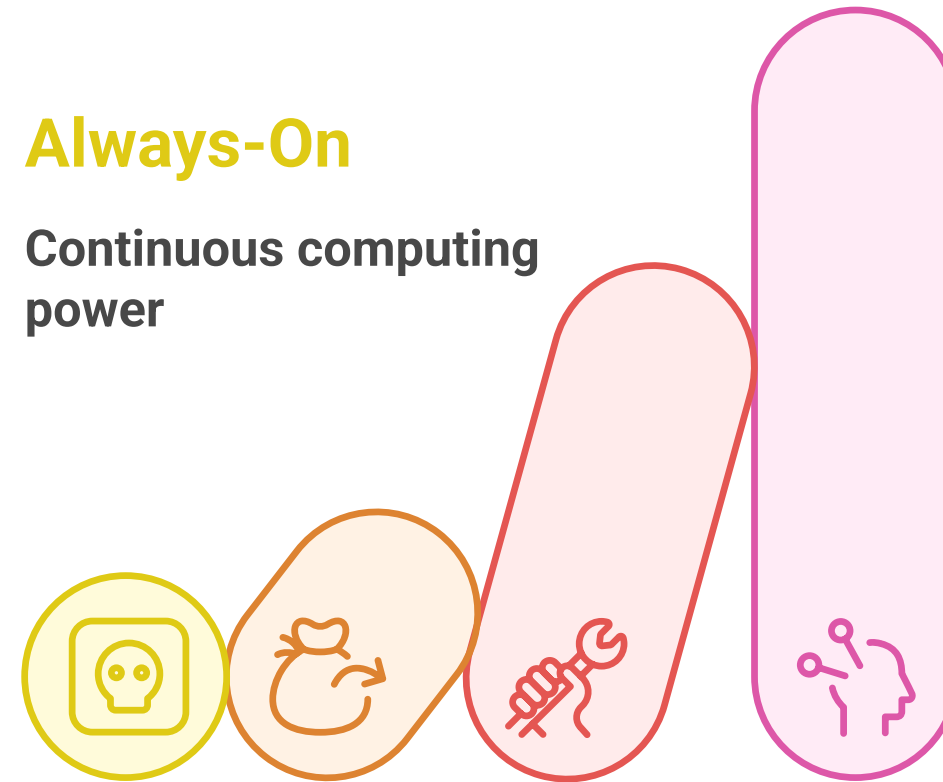
KEYSYS engineered an **Azure-based platform** using **Terraform, Kubernetes, and GitHub Actions**. The system spins up **temporary, cost-efficient “spot” servers** only when jobs are scheduled, distributes the workload across multiple machines with **Ray.IO**, and then shuts everything down automatically. Because it’s all defined as code, the entire environment can be **rebuilt or updated in minutes**.

### Impact

The platform now **saves thousands of dollars per month** by only paying for compute when it’s needed. Analysts spend time **interpreting results instead of troubleshooting infrastructure**, and Leeco Steel has a future-proof system that scales with demand.

### Always-On

Continuous computing power



### Budget Drain

Escalating operational expenditures

### Manual Fixes

Constant team interventions

### Hindered Productivity

Diverted focus from strategy

### Before KEYSYS

Always-on compute drained budgets and required constant manual fixes.

### After KEYSYS

An on-demand, automated platform runs only when needed, scales seamlessly, and redeploys with a single toggle.



### Activate Platform

Platform starts when needed

### Scale Resources

Resources adjust to demand

### Deploy with Toggle

Easily redeploy with a switch