# How Alcide leveraged GKE to slash deployment from 3 days to 20 minutes





Cybersecurity has never been more important but keeping up with evolving technology standards can be a complicated, resource-intensive task. As organizations increasingly embrace the convenience of the cloud, security protocols have to adapt as well.

Modern cloud deployment can be very complex," says Gadi Naor, CTO & co-founder, Alcida In, a Tel Aivi-based information security firm. "There are often lot of moving parts and shifting parameters that can be hard to operate and security. Alcide aims to provide a complete security solution designed specifically for cloud-based infrastructure. With a slight patform, undowners gain access to a threat intelligence solution using the company's proprietary machine learning algorithms, a despite viol childly into their systems, and security segmentation at the microservices level.

"In a cloud-native environment, services run on different workloads so you can't base your security around servers," says Gadi. "By focusing on the microservice we're taking firewalls to the next level."

### The brief

Founded in 2016. Alcide helps organizations secure their distributed and comp cloud stacks with thousands of nodes to secure. To achieve this, Alcide very quickly adopted an architecture based on Kubernates, allowing its patiform to quickly and easily scale up and down according to its needs. As a fast-growing company with limited resources, Alcide places a priority on efficiency. When it looked for ways to optimize its architecture, it turned to Google Coud Platform (GCP) for the answer.

The cloud environment is elastic by nature, so we have to be too," says Gadi. don't have time for a lot of provisioning or maintenance, so we looked for managed services for Kubernetes clusters. For us, Google's solution was the b way of officading overheads and keeping the benefits of Kubernetes."

Over the last free years, Good deployment has been shifting from virtual much environments, based around servers and hardware, towards container-based systems, where the exhibition is forwine down into components. Each component performs a single task and they communicate with each other via APIs and messaging systems. A veyter this lies this make it easier for companies scale up and down guickly and maintain large workloads, compared to a more traditional architecture. Early on, Allicide developed its architecture around Kubernetes, an open source container solution from Google.

Even with Nutrentees. Acide's knew that it could make its deployments faster, were provisioning new clusters manually, which took days, even for experience burgos staff 198 and 11 that was to much time from our perspective. In addition, the time and effort needed for maintaining clusters and managing security meant that Acides's light resources were being stretched link. In settl

## The result

After assessing its options, Alcide decided that Google Cloud Platform offered th most stable and secure solution for the company, Google Klubernetes Engine was the core of the new system, providing easy provisioning of new clusters and built in maintenance tools. Alcide's developers spent time working on a deployment template that it their needs. Once that was in place, creating new environments from scratch was gold, and simple.

Reduced deployment time for increased productivity
Kubernetes Engine and Google Cloud Platform have enabled Alcide and its
security platform to achieve a new level of elasticity by slashing the time takent
deploy new environments. "Provisioning new clusters used to take two to three
days," says Gald." Without remplates in Kubernetes Engine, we can now do it in
20 minutes." This has helped Alcide scale its platform to accommodate large
enterprise stacks with thousands of nodes and hundreds of thousands of
workloads.

Meanwhile, Google's managed services made maintaining and updating cluster much easier for Alcide. With much of the DevOps burden lifted, engineers coul now work on more important business objectives.

For a startup like ours, we want to move fast, close the gaps with our customer and provide as much feature functionality as we can," says Gadi. "Google Cloud Platform lets us concentrate on writing our own business logic and implementir the application, without having to worry about the infrastructure."

As Alcide grows it business and works on new features, it continues to explo-new ways of making GCP and kübernetes even more efficient. The company currently looking at the option of preemptible virbul machines in Muhernetes Engine to reduce costs while new features in Container Registry allow for build maps scanning for universibilities. This countings was revenuely started to explore, and it helps us delive a much more secure workload in the design period." says Gadi. "We've very happy with Google Cloud Platform, both with where we're at now and where we're hasded."

### adi Naor, CTO & Co-Fo

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