



# Techedge Deploys a Flexible, Secure Kubernetes Platform with VMware Tanzu

*Techedge* helps organizations speed up digital transformation through ongoing innovation, developing services and solutions that combine business consulting, technology expertise and a passion for innovation.

## Industry

Technology

## Strategic priorities

- App Modernization
- Virtual Cloud Network

## About IPM

*IPM* advises and helps customers by offering high-value-added comprehensive IT solutions.

## About Dell Technologies

Dell Technologies helps organizations and individuals build their digital future and transform the way they work, live and play.

## VMware footprint

- VMware Tanzu™
- VMware vSAN™
- VMware NSX-T® Data Center
- Dell EMC VxRail

Techedge helps organizations speed up their digital transformation through the ongoing innovation of its IT solutions. It needed to expand its Kubernetes-based services and solutions, but public cloud platforms could be very costly when running on a large scale. It developed a new platform using VMware Tanzu™, Dell EMC VxRail and VMware NSX-T® Data Center. Now, Techedge has its own platform with low total cost of ownership (TCO), and improved performance, flexibility, scalability and maximum security.

## Technological DNA, digital soul

Techedge helps organizations speed up their digital transformation through ongoing innovation, developing services and solutions that combine business consulting, technology expertise and a passion for innovation. With a business vision based on pragmatism and fast delivery, it adds value to businesses while strengthening customers' confidence through shared goals and long-term relationships. Its presence in international markets enables the scalability and geographic coverage of a global supplier, plus the commitment of a local partner, and the ability of a trusted strategic advisor.

---

“Thanks to this project, we can now do things that were technically impossible using public cloud containers. This has enabled us to offer our clients business processes that meet their needs.”

Javier Palacios, COO for Cloud Services, Techedge

---



## A scalable container platform

Techedge has been developing business apps based on container architecture, particularly Kubernetes, for many years. This has enabled it to move away from monolithic legacy apps to offer cloud-native apps based on microservices that require easier maintenance, are more agile, and lead to lower costs and unlimited scalability in the long run.

“When we started to offer Kubernetes-based services and solutions as a new line of business, the use of public cloud platforms was a useful but barely scalable option,” says Javier Palacios, COO for Cloud Services, Techedge Spain. “We set out to find a container platform that was more scalable and cost-effective than public cloud options.”

The new line of business began to grow, making it necessary to move from the public cloud to a larger platform, with many more containers. Such a platform required special customization, not just for the apps but also for the container-based model in general, in terms of both security and optimization settings, and customer preferences. This was not possible in the public cloud.

## Fast deployment for ongoing innovation

Both VMware and Dell have a long-term relationship with Techedge, having developed computing, storage and even security solutions together. When the customer contacted VMware and Dell to develop a Kubernetes environment for its data center, the wheels started to turn to come up with a platform that met a series of highly specific requirements: it had to be automatic, easy to operate and highly scalable, and it had to focus on Day 0, Day 1 and Day 2 operations.

VMware Tanzu was chosen as the solution that best met Techedge’s needs. After testing it in Techedge’s infrastructure and checking that it was fully functional and added the value that the customer was looking for, a hyperconverged infrastructure based on Dell EMC VxRail was deployed to enable software-defined storage based on VMware vSAN™, hosting all the Kubernetes workloads. Then, VMware NSX-T Data Center was deployed as an SDN solution to automate network deployment in both virtual machines and containers, thus implementing NSX Distributed Firewalls for a holistic, global approach to security across the platform.

“VMware and Dell made all the necessary technical and human resources available to us, so that we could develop a solution that met our needs,” says Palacios. “Also, IPM played a key role in decision making regarding design customization and optimization for maximum platform performance.”

## Greater scalability, lower TCO

The most significant change following the project implementation was the easy deployment of new Kubernetes clusters, along with easier platform administration thanks to VMware Tanzu. Dell EMC VxRail, based on VMware vSAN, offered Techedge resilient storage, enhanced performance, greater availability, flexibility and scalability, and simplified, unified computing and storage environment management. VMware NSX-T Data Center, in turn, offered higher levels of security, automation and ease of network management, integrated firewall policy management through Kubernetes, multi-tenant environment, and pod-level network visibility.

When the project was implemented, Techedge's container infrastructure was about to grow considerably. In the words of Palacios, "The project gave us a much larger container infrastructure, enabling us to expand our business and increase our revenues in this area, while keeping costs lower than if we had used the public cloud." The new platform is estimated to reduce costs by 30 percent compared to the public cloud. Moreover, cost reduction is expected to increase with business volume, which means that ROI is expected to increase as the business grows.

In addition, the ease of environment management has enabled Techedge to upgrade workload security while retaining public cloud flexibility, with no need to increase the workforce and relying on full flexibility to respond to clients' specific needs.

## Looking ahead

Techedge is planning to expand its container platform over the next few months in order to boost growth in a much sought-after area: app modernization. Well-designed modern apps can help organizations achieve a wide range of goals and solve a high number of problems.

