

# TAIKUN CLOUDWORKS & ZADARA SOLUTION BRIEF

## INTRODUCTION

The world of IT is quickly moving to a cloud-native first mentality and the ecosystem of tools and platforms is growing rapidly, making it hard to keep up. For the sake of clarity let's define cloud-native:

**Cloud-Native Computing** leverages cloud technologies, including microservices, containers, CI/CD, and Kubernetes, to build scalable and resilient applications. This method improves deployment speed, resilience, and scalability, enhancing overall efficiency and time to market

Developers, Architects and Engineers are quickly moving away from monolithic scale-up architectures to distributed computing models. Developers are now building applications to be run as a scale out suite of microservices which are executed in containers orchestrated by Google's gift to the world, Kubernetes, which has become the industry standard for container management at scale.

## WHAT IS THE PROBLEM WE ARE SOLVING ?

Organizations are increasingly adopting cloud-native practices, facing challenges in transitioning from traditional architectures to complex, distributed computing models managed by Kubernetes. This shift introduces management complexity and a steep learning curve, hindering efficient deployment of resilient, scalable applications and affecting agility and time to market. Additionally day two management brings its own challenges to be overcome.

## WHY KUBERNETES?

Kubernetes serves as a vital tool, yet it's not the ultimate goal; rather, it's the conduit to achieving the ultimate objective: deploying highly resilient distributed applications that can be updated, fixed, and scaled on demand in an elastic fashion which the cloud promised us. You can think about Kubernetes as the intelligent thermostat in your house and the rooms as the applications. You tell it what temperature you want it to maintain and on what schedule etc. and its job is to do everything in its power to maintain the required temperature in every room.

Very simply Kubernetes runs on compute instances i.e. VM or bare metal and requires compute, networking and storage resources to be allocated to it. The amount of resources allocated very much depends on what resources the application(s) need to be able to function and leverage things like autoscaling, load balancers, persistent storage etc.

We have now established a base layer context and we can now describe the benefits and capabilities that Taikun CloudWorks & the Zadara Edge Cloud Platform together bring to users.

## WHY ZADARA & TAIKUN CLOUDWORKS?



### Taikun CloudWorks

Taikun CloudWorks - Multi-Platform, Multi-Cloud Kubernetes Automation and Application Delivery Platform. CloudWorks was designed to make Kubernetes invisible and allow users to deploy applications on top of Kubernetes easily and without operational complexity.

CloudWorks is a pay-for-use solution and has a significantly lower cost compared to the other solutions on the market.



### Zadara

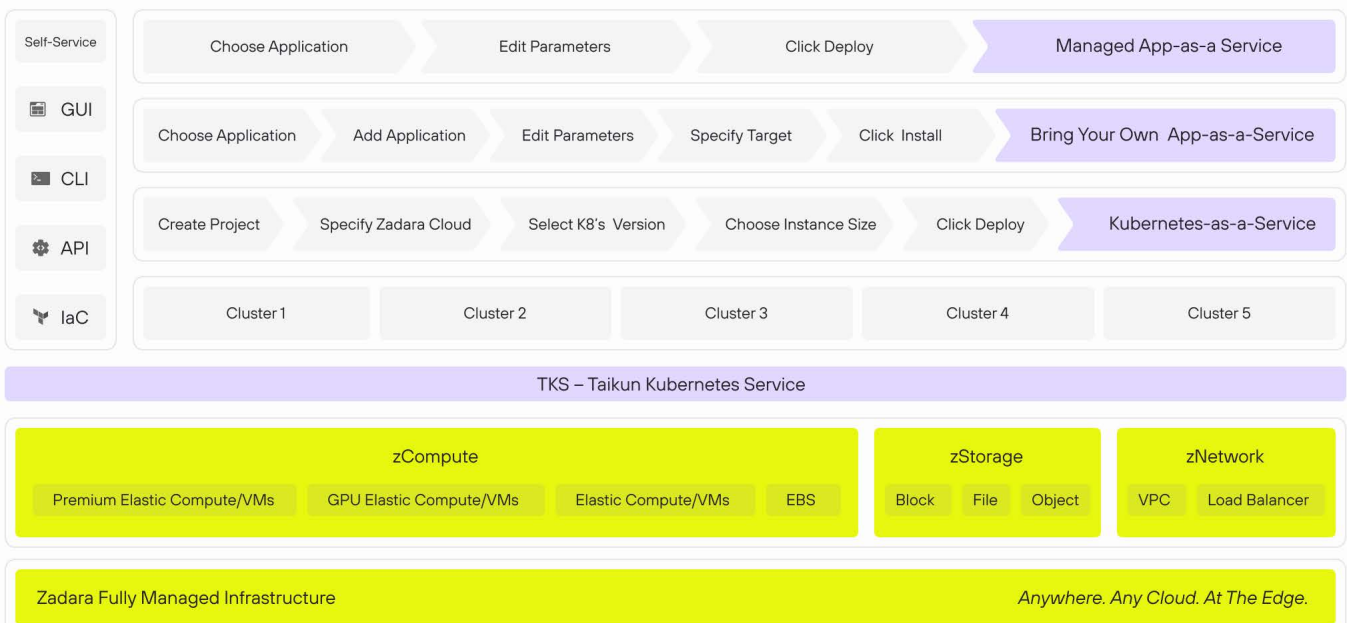
Zadara - Zadara Edge Cloud simplifies operational complexity, enabling service providers and modern enterprises to deliver scalable distributed computing and data services that provide building blocks for modern applications. With over 500 edge clouds deployed worldwide, Zadara Edge Cloud gives on-demand access, pay-per-use computing, networking, and storage that works with any data type and any protocol in any location, ensuring partners and the Enterprise maintain a competitive edge.

Zadara Edge Cloud delivers the perfect foundation for an end-to-end distributed platform allowing you to develop and deliver Cloud Native application services. Taikun CloudWorks brings a comprehensive set of capabilities that automate 99% of Kubernetes Operations and Application deployments.

Together we provide a powerful truly global integrated cloud platform that spans the spectrum from physical infrastructure to the application services you want to provide to your users or customers. The end result is that Kubernetes clusters and applications can be delivered on any public or private Zadara zCompute infrastructure all from a single pane of glass. This self-service platform enables the enterprise and MSPs to leverage the benefits of Kubernetes without their own subject matter expertise.

## ARCHITECTURE OVERVIEW

Zadara and CloudWorks seamlessly integrate at the API level and are able to fully manage the complete lifecycle of all the clusters and applications it deploys on the Zadara platform globally.



## USE CASES

### CSPs & MSPs

CSPs & MSPs: can easily launch Kubernetes-as-a-Service & Applications-as-a-Service offerings on top of their existing Zadara zCompute platform. CloudWorks includes built-in billing features that make it easy to bill customers on a PayGo basis via invoicing or credit card.

### Enterprise's

Enterprise's: Enterprises who want to embrace a self-service platform engineering approach leveraging the zCompute platform can utilize CloudWorks to enable their users with self-service capabilities that don't require any Kubernetes administration but instead focus on application-centric workflows that integrate with GitLab and their CI/CD pipelines

## THE OPPORTUNITY



### Reduce Costs

Taikun CloudWorks combined with Zadara's zCompute platform represents a significant opportunity to reduce your cloud-native computing costs while dramatically increasing the amount of application and infrastructure services you can offer. Compared to the existing hyperscale managed Kubernetes offerings, by switching to CloudWorks you can save a minimum of 30% off of the management fees.



### Improve User Experience

Users require simplicity, intuitive interfaces and workflows and that is what CloudWorks delivers. Developers to system administrators will be able to utilize the CloudWorks solution at the appropriate level based on their needs and expertise. Whether it is through IaC, CLI or GUI CloudWorks can provide the appropriate level of abstraction.



### Simplify & Accelerate Operations

AI is the future, automation is here and now. CloudWorks provides users with high levels of intelligent automation behind the scenes. That drives efficiency, speed of execution and time to value. Users can focus on their applications and let CloudWorks do the heavy lifting.



### Multi-Site Deployments

Whether you have one zCompute site or one hundred CloudWorks can deploy Kubernetes and applications to all of them from a single interface and we guarantee they will all operate the same.



## Get Started With Taikun CloudWorks

## CONNECT YOUR ZADARA CLOUD TO TAIKUN CLOUDWORKS



Every Zadara customer who wants to **connect their Zadara zCompute platform to CloudWorks** can do so by visiting a URL provided by the Zadara team and following the instructions to create a CloudWorks account.

Once an account is set up you have logged in you can start connecting your Zadara cloud(s).