

# **Simplify, Optimise and Evolve**

your modernisation journey with Tata  
Communications Vayu Cloud Platform  
for Kubernetes® Solutions



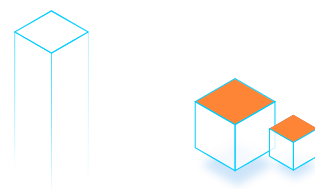
The rise of containerised applications continues to gather pace.

**90%** of global organisations will be running containerised applications in production by 2027 <sup>1</sup>

**96%** considering using Kubernetes to support the agile development and delivery of applications, microservices and software-defined infrastructure <sup>2</sup>

Source: 1. Gartner, 2. CNCF

From DevSecOps that help accelerate cloud-native transformation, and microservices fuelling open-source cloud-native adoption, to its ability to power AI/ML capabilities and form the foundation for hybrid/multi-cloud strategies – Kubernetes is a driver for digital transformation. For those leveraging Kubernetes as an enabler for app modernisation, there are critical steps you can take to simplify and optimise your journey.



## Current challenges



### Do-it-yourself complexity

While Kubernetes has greatly simplified the task of deploying containerised applications, managing this orchestration framework on a daily basis is still a complex undertaking.



### Vendor lock-in issues

Though most of the market solutions have created a developer-friendly environment, vendor lock-in, and increasing opportunity and adoption costs, can stop enterprises choosing a technologically advanced service that's outside their cloud provider's scope.



### Managing distributed computing

With workloads distributed in a heterogeneous IT landscape, like on-premise and cloud, enterprises are looking to streamline the process of deploying, managing and scaling applications in this distributed environment.



### Cost overruns

There can be hidden costs in operating Kubernetes – whether through padding application and infrastructure resource allocations, or paying for inefficient or un-used nodes.



### Scaling out reliably

Server outages and downtime are common when scaling infrastructure to meet the increasing demand.



### Skill gaps

Scarcity of skilled resources and the need to up-skill the existing workforce.



### Improving security

The complexity of Kubernetes makes security a challenge – with vulnerabilities going unidentified if not monitored properly.



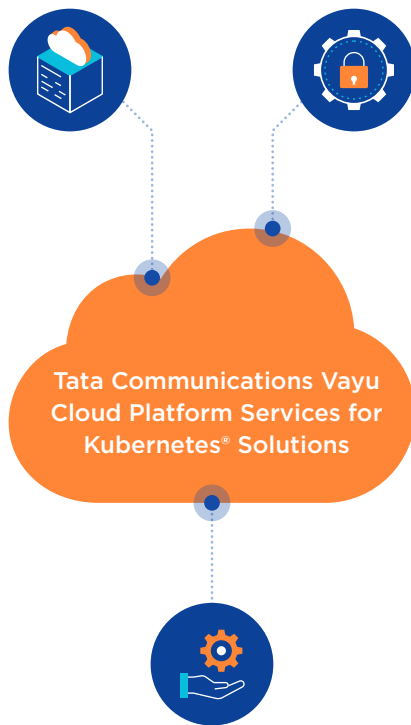
# Unpick complexity and unleash agility with Tata Communications Vayu Cloud Platform for Kubernetes® Solutions

**Tata Communications Vayu Cloud Platform for Kubernetes® Solutions** offers best-in class, managed platform services to help you simplify, optimise and evolve your modernisation journey. It enables customers to orchestrate containerised infrastructure with an enterprise grade platform built for modern-day agile application deployment with fully managed services on top.

## Tata Communications Vayu Cloud Platform for Kubernetes® Solutions offers:

### Platform

- **High availability (HA) and non-HA cluster options** - Customise your solution with High Availability (HA) or Non-HA clusters, aligning with your needs while ensuring cost-efficiency.
- **Managed Worker Nodes** - Experience true Kubernetes as a service by eliminating the burden of managing worker nodes yourself.
- **Resilient out-of-the box backup** - Leverage out-of-the box fully managed open-source backup solution.



### Security

- **Robust container runtime security** - Get robust security with integrated cloud native application protection coupled with comprehensive auditing, reporting, vulnerability scanning and enhanced visibility.
- **Governance as a code** - Leverage our policy manager with the flexibility of policy as code powered by the open-source "Open Policy Agent" (OPA), and benefit from integrated RBAC for enhanced fine-grained access control.
- **Air-gapped Security** - Experience a highly secure environment where network connections are permitted only according to specific rules and configurations.

### Managed Services

- **Day 0** - Expert assistance for architecting a detailed solution for your deployment with complete end-to-end DevSecOps solution.
- **Day 1** - Flexibility of choosing self-provisioning platform for dev/test environment and fully managed provisioning for mission critical apps.
- **Day 2** - Effortlessly manage end-to-end operations with proactive troubleshooting through our expert 24\*7 assistance.



# 3 promises for maximising business value

## #1 Simplify

Eradicate do-it-yourself complexities with our one-stop-shop solution that allows you to leverage our infrastructure and deep expertise in operations and Kubernetes management, for the best-fit solution.



**Eliminate complexity** with a fully managed, integrated SLA-driven service that makes everything simple



**Become infrastructure agnostic** – offering cloud-native services in a highly scalable, portable, pay-as-you-go model



**Ease of management** – with multi-cloud management capabilities and end-to-end management (infrastructure and cluster)

## #2 Optimise

Cut down on costs and enhance performance with pre-defined integration and automation capabilities like automated cluster deployment and version upgrades with minimal downtime.



**Reduce total cost of ownership** – with transparent pricing and value-added services



**Optimise performance** – with automation capabilities like auto-upgrades and auto-scaling



**Observability** through centralised logging and monitoring, with custom APP and metrics

## #3 Evolve

Harness the power of a Kubernetes environment and enhance user experience by accelerating application modernisation and deployment, employing CI/CD best practices for DevSecOps and facilitating machine learning.



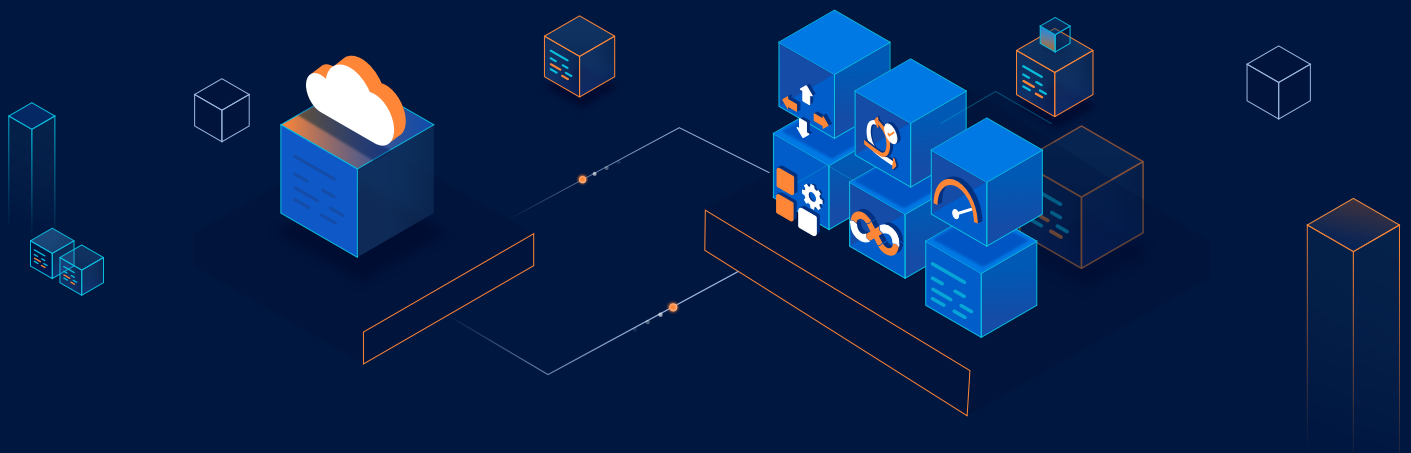
**Deliver a developer-first experience**, improving developers' productivity by delivering truly serverless and cloud-native solutions



**Expedite your cloud-native journey** with easy-to-consume, managed, open-source services



**Become future-ready and agile** with advanced capabilities and simplified Day 0, Day 1 & Day 2 operations



# The Tata Communications difference



## A one-stop-shop solution

- End-to-end Kubernetes management
- VMware-verified infrastructure
- ITSM support with 300+ engineers offering 24/7/365 support across operations, infrastructure, and Kubernetes management



## Integrated SLA

Enterprises can rely on one single SLA across every layer as we own every aspect of the solution. Having one partner, rather than a multi-vendor environment, makes it easier to oversee and manage the solution.



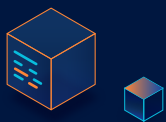
## TCO benefits up to 20 percent

Our underlying VMs deliver price competitiveness, resulting in low total cost of ownership and transparent pricing.



## Enterprise grade and secure

Built on our years of experience serving private cloud to multiple customers, and incorporating best practices for security from the infrastructure layer to the platform layer.



**Harness the power of Kubernetes to accelerate your modernisation journey with Tata Communications Vayu Cloud Platform for Kubernetes® Solutions.**

