

Rapidly deliver apps that transform in-store customer experiences



Solution Brief

The brick-and-mortar store is the new battleground for retailers. They need to deliver outstanding in-store shopping experiences that drive new revenues while maintaining operational efficiencies. With the latest developments in technologies such as Kubernetes and edge computing, it is possible to deploy software-defined stores that deliver the agility and ease-of-use similar to that of a public cloud.

With Platform9's SaaS-based management plane, retailers can modernize their stores without having to rip and replace their existing hardware. They can run their existing legacy applications while rolling out new innovative cloud-native AI applications using Kubernetes as the underlying cloud fabric.

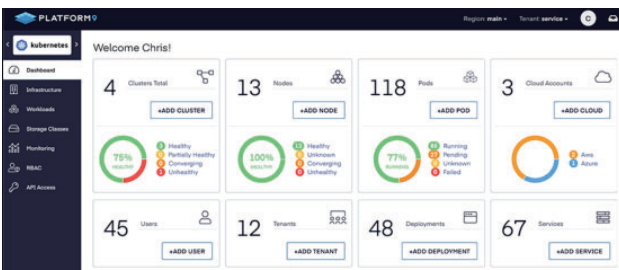
SaaS architecture for managing distributed clouds

Platform9's SaaS-based management plane eases deploying, scaling, and operating cloud-native infrastructure and applications.

The fully managed service eliminates the complexity and IT overhead of operating cloud-native infrastructure. Enterprises of any size — with distributed clouds of any size — plug in their own infrastructure, log in from anywhere, and start managing their containers and apps with a public cloud-like experience. DevOps admins can centrally manage a hundred sites as easily as they manage one site.

The Platform9 SaaS-based management plane is:

- Right for a wide variety of distributed cloud and infrastructure environments — it extends across any on-premises, edge, or public cloud, decoupling apps from infrastructure.
- A better experience for developers — apps can be deployed against consistent open-source APIs such as Kubernetes and CNCF services.
- Scalable for any size cloud — from a few public cloud regions and data centers to thousands of 5G gateways and retail stores.
- Automated OS deployment on store bare-metal servers: via PXE, IPXE, and IPMI.



A comprehensive and intuitive dashboard

"The enormous business value of Platform9 is that distributed teams can develop and deploy services, change order processes, or even set up new stores in days instead of weeks — or months."

— David Grainger
Digital Platforms Manager, Kingfisher PLC

Realize immediate value

- Quickly and easily deploy Kubernetes-managed containers and VMs at a fraction of the cost of on-prem solutions.
- Efficiently monitor and maintain thousands of nodes with an automated management plane.
- Integrate with existing infrastructure.
- Install easily with no proprietary lock-in.
- Speed application delivery for faster go-to-market.
- Eliminate the high cost of Kubernetes platform engineers — as well as the high cost of sidelining DevOps with backend management tasks.

Accelerate in-store software delivery

Centrally deploy and manage apps across 1000s of stores: POS, AR/VR, machine learning, network video recording, curbside pickup, smart assistants, and virtual mirrors without the operational burden.

Platform9 provides all the features needed for managing store deployments quickly and efficiently. A SaaS-based management plane enables:

- Using a single sign-on for distributed infrastructure locations.
- Cluster profiles to ensure consistency of deployment across large numbers of clusters and customers.
- Using tooling, APIs, and the App Catalog to simplify application management at scale.

Platform9 — the best fit for retail environments

Platform9 is specifically designed to work in the types of distributed clouds typically used in retail deployments. Other tools such as Rancher, OpenShift, and Anthos do not provide a similar, vendor-agnostic management plane for central operations.

Build and deploy in-store retail applications with confidence

- Customer-facing apps such as POS, network video recorders, intelligent order processing.
- Advanced resource binding with CPU management pinning and NUMA; topology management; and monitoring and visibility.
- DevOps tools, AI/ML, and data services including CI/CD tool chains, databases, analytics.
- Automated app deployment frameworks such as Helm, API, CLI, and Terraform.

Automate the infrastructure stack in each store

- Centralized monitoring and logging with Prometheus, Grafana, Alert Manager, and EFK among others.
- Automated deployment of Kubernetes and virtualization stacks; manage and run VMs and containers in each store.
- Fully automated bare metal life-cycle management for full stack deployments with no need for 3rd-party hypervisors such as VMware ESXi.

Rely on 24/7/365, proactive technical support

With Platform9, you're not on your own. All our support engineers are Certified Kubernetes Administrators (CKA) and they ensure 99.9% management plane availability with a financially backed SLA. And if issues arise and the unexpected happens, we are solely focused on keeping your clouds up and running.

When you register a node with the Platform9 service, an agent starts monitoring and reporting every important performance metric about the environment. When something is off, Platform9 automatically alerts you and Platform9 engineers and begins debugging, troubleshooting, and if necessary, rebooting servers. If a disk crashes or there's a fatal condition in the customer-owned infrastructure, proactively minded Platform9 support teams are poised to help.

[Book a demo at
platform9.com/contact](https://platform9.com/contact)

