



## Juniper Networks Ensures Access to Open Source Innovations with Platform9

“  
Nobody likes  
maintenance windows.  
With Platform9’s  
Kubernetes “rolling  
upgrades”, there is no  
disruption, no  
down-time, no  
maintenance windows  
anymore”

— Ravi Ravichandran,  
Juniper Networks

### Executive Summary

Platform9’s Managed Kubernetes solution enables Juniper, an advanced networking company, to meet its goals of improved availability, seamless upgrades, and lower TCO, providing a stable platform for enterprise innovation. Key benefits include:

- Seamless, non-disruptive, remote upgrades, with instant security patching ensure up to date and secure open source innovation
- 70 percent lower TCO compared to other vendors
- Multi-Cloud Management

### Customer Background

Juniper Networks engineers some of the world’s most sophisticated end-to-end advancements in network security, automation, performance, and scale. With global operations in 117 offices in 47 countries, Juniper serves some of the world’s biggest service providers and enterprise customers.<sup>1</sup>

### Customer Requirements and Challenges:

The company’s Engineering Cloud Infrastructure team was facing increasing demand to deliver modern cloud-native technology stacks that would accelerate development life cycles and increase engineering productivity. The team strongly believed an automated Kubernetes solution would help them achieve their goal. Juniper embarked on an aggressive, 6-month strategic initiative to modernize their complex, legacy engineering landscape to a modern cloud-native technology stack services-based model.

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## Key Facts

### Platform 9's SaaS architecture - The next generation standard for managed Kubernetes

Central operational console provides a single pane of glass for all Kubernetes clusters no matter their location

SLA-backed service simplifies Day-2 operations

Stable platform for innovation enables the enterprise

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Specific challenges included:

Challenges	Description
<b>Leveraging the innovation and flexibility of open source projects without the pain of managing software lifecycles</b>	Kubernetes often provides a new release every three months- Juniper's team recognized it would be very challenging to meet their goals of high reliability and availability at their scale and to keep their global production Kubernetes clusters operating in a 24-by-7 model.
<b>Automating key tasks to lower personnel and time investment</b>	Juniper wanted to lower TCO by automating as many tasks as possible to achieve transformational success.
<b>Lack of Kubernetes Expertise</b>	At the scale that Juniper was looking to implement Kubernetes, this would mean hiring a fairly large team with the requisite skills and expertise. But they realized Kubernetes expertise is hard to come by and retain.
<b>Integration with current worldwide infrastructure</b>	Easy integration with existing data center storage, networking, and security solutions was important as well as the ability to run on a geographically distributed global model with thousands of developers.

## Customer Solution and Benefits

Juniper studied several approaches, including DIY, commercial Kubernetes distributions and Managed Kubernetes as a service. Platform9 Managed Kubernetes (PMK) provided the best solution. Juniper runs Platform9 PMK across their global data centers on bare metal servers.

Benefits	Description
<b>Non-disruptive upgrades enable continuous operations</b>	Seamless upgrade process minimizes operational interruptions and ensures access to open source innovations.
<b>Faster Time to Market</b>	Platform9 Managed Kubernetes enables Juniper to drive digital transformation and faster time to market by providing a flexible, scalable, on-demand infrastructure for the DevOps and CI/CD pipeline.
<b>TCO slashed by 70 % vs. VMware</b>	Lower Engineering Cloud recruiting costs, open source and operational automation and strategic personnel redeployment cuts TCO by > = 50% versus competitors.

Platform9's SaaS managed cloud solution enables the client's key mission: driving end-to-end advancements in network security, automation, performance, and scale.

Platform9 | [platform9.com](https://platform9.com)