



Cadence Improves Developer Software Delivery by Increasing System Utilization More Than 20%

Cadence Design Systems leveraged Platform9's upstream open source stack and operational automation to deliver a **20% increase** in critical resource utilization via "click to compute" resource delivery, and planned cloud resource provisioning, which reduced their TCO significantly.

Executive Summary

Platform9's Managed OpenStack solution enables electronic design leader to achieve its key technology transformation objectives a cost-effective, highly reliable, production-grade private cloud solution. Top five benefits include:

1. Increased system utilization by > 20% and lowered TCO
2. Simplified journey to cloud based solutions
3. Guaranteed 99.9 percent uptime
4. Low operational overhead
5. Proactive troubleshooting

Customer Background

Cadence Design Systems provide the expertise and tools, IP, and hardware required for the entire electronics design chain, including chip design, chip packaging, boards, and systems. Their products are used in mobile, consumer, cloud datacenter, automotive, aerospace, IoT, industrial and other market segments.¹

Customer Challenges

As Cadence engineered more innovative products to address the growing complexity of today's chip and system designs, the need for High Performance Computing (HPC) dramatically increased. In 2014, Cadence moved forward with a cloud-first strategy as their traditional data centers fell short in providing HPC capabilities to support product development. The team investigated virtualization platforms, but the potential costs outweighed the perceived benefits. Specific challenges included:

¹For more information see: [cadence.com](https://www.cadence.com)

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platform9.com/contact

p: 650.898.7369
e: info@platform9.com

Platform9 North America Headquarters

Platform9 Systems, Inc.
800 W. El Camino Real
Suite 180
Mtn. View, CA 94040

Challenge	Description
Difficulty supporting development needs within budget	Engineers required access to high performance computing for product development but it wasn't available. To ensure resources were highly utilized, the team needed to provide a shared development cloud to enhance productivity and accelerate innovation, but prices were prohibitive.
Increasing complexity and cost of virtualization solutions	The cost of installed base virtualization infrastructure was increasing. Each new feature and product increased the capabilities in the environment, but also increased the complexity and cost.
Barriers to OpenStack development	The team looked at OpenStack, an open source solution, but found that it was very complex to deploy and they didn't have the engineering expertise to implement it. Additionally, the OpenStack infrastructure exceeded the budget they could afford.

Customer Solution and Benefits

Working with Platform9 has helped enable a part of Cadence Design Systems' global vision with a solution that provides key benefits. Platform9's next generation hybrid cloud solution includes both Managed Kubernetes and Managed OpenStack.

Benefits	Description
Lower TCO via much higher system utilization	Cadence Design Systems saw 20 percent increase in critical resource utilization via "click to compute" resource delivery and planned cloud resource provisioning, which reduced their TCO significantly
Extending the useful life of existing investments with cloud support	Adopting current work streams to cloud support models enables the company to lower costs for existing projects and transition smoothly to the future state of business.
Simplified Cloud Journey	Longer term, Cadence Design Systems plan to continue to increase its footprint in public and private clouds, with container technologies playing a pivotal role in their plans to expand. Platform9's next generation hybrid cloud solution includes both Managed Kubernetes, and Managed OpenStack, supporting the deployment and management of multiple workload types.

Platform9's SaaS managed cloud solution enables Cadence Design Systems' key mission: employing computational software expertise and collaboration to help customers turn great ideas into reality faster.

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