

# The New Standard for Cloud Agility & TCO

Today's data centers are experiencing an exponential growth in virtualized workloads, bringing about a need for a more intelligent approach to virtualization and infrastructure management.

The Nutanix Enterprise Cloud Platform combined together with Platform9's Managed OpenStack solution allows IT organizations to deploy scalable and flexible multi-platform cloud deployments for a variety of use cases including Infrastructure as a Service, Platform as a Service, and Business Continuity and Disaster Recovery.

Infrastructure for clouds need to support a diverse mixture of workloads and scale without requiring significant effort or re-engineering. Traditional infrastructure especially SANs do not fit this model because of the reliance on over-provisioned resources for scaling and operational overhead associated with provisioning and scaling.

## WEB-SCALE INFRASTRUCTURE

The Nutanix solution is different. With the Nutanix Enterprise Cloud Platform, you can seamlessly scale compute and storage together in a single platform on a node-by-node basis as well as support multiple workloads. Together with Platform9's SaaS-managed OpenStack, Nutanix delivers a complete cloud in a box.

Within the Nutanix platform is the patented Acropolis Distributed File System (DFS) deployed through the Nutanix Controller VM. The DFS uses a software-defined, shared-nothing, scale-out approach to storage that eliminates the need for you to deploy a separate networked storage such as a SAN along with its performance bottlenecks and scalability limitations.

On the deployment and scalability front, the DFS will enable you to:

- Deploy a complete solution in minutes versus the days or weeks it takes with traditional SAN and server architectures.
- Scale infrastructure the same way you would scale your business—one node at a time—without complex upfront estimations that can result in wasted capacity.
- Expand and upgrade with practically no effort, and incur zero end-user or application downtime when you need to dynamically grow or shrink your environment.
- Do away with storage bottlenecks by leveraging local storage for individual VMs IO—so no more noisy neighbors across your clusters, either vSphere or Linux hypervisors.

## KEY BENEFITS

Make your transition to the cloud a simple reality with Nutanix web-scale converged solutions and Platform9 Managed OpenStack. Run all of your virtualization, critical applications, and DevOps environments on one platform.

- ✓ **Time To Value:** The Nutanix/Platform9 cloud can be fully deployed and operational within an hour, instead of days or weeks.
- ✓ **SaaS Managed Lowers TCO:** Unlike DIY or shrink wrapped software, Platform9's offering is fully SaaS managed: the cloud platform is monitored 24x7 for issues, problems are pro-actively detected and communicated, and patches and upgrades are delivered as SaaS. The result is a cloud with up to 80% reduced TCO.

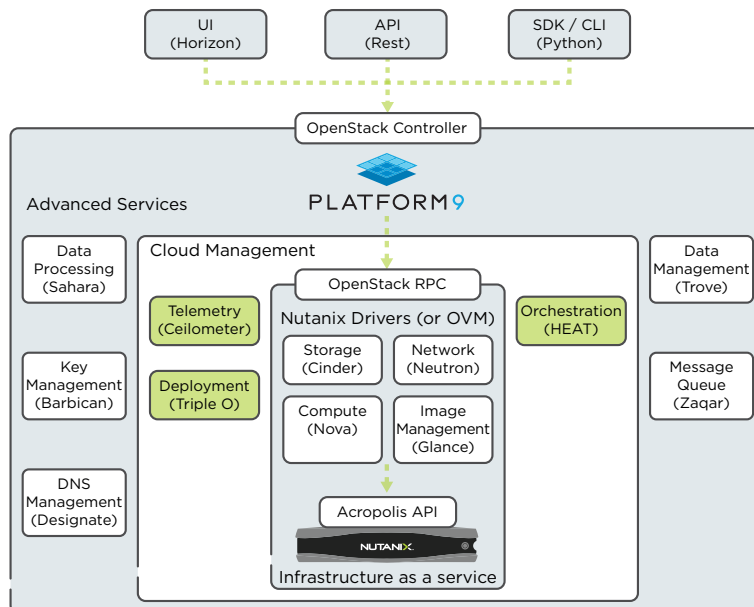
- ✓ **Single Pane Hybrid Cloud:** Platform9 Managed OpenStack includes fully integrated support for Omni, which allows OpenStack to manage both private and public clouds via a single pane of glass, with a unified self-service portal, and unified policy management for capacity allocation and quota management.
- ✓ **Enterprise Ready:** Platform9 Managed OpenStack is fully integrated with common enterprise solutions such as Single Sign On Systems are ready to configure. Multiple data-centers or regions can be managed from a single pane of glass. Lease policies enable more efficient use of capacity, and audit/notification integrations enable integration with any enterprise NOC.

### SAAS-MANAGED CLOUD

OpenStack is the de-facto cloud computing standard in private cloud with open APIs and enjoys enormous support from the open-source community. Platform9 is a leading solution for OpenStack and at the core of Platform9's solution is a fully SaaS-managed architecture, eliminating the need to install, configure, troubleshoot or upgrade the OpenStack cloud management platform. Simply pair and configure Nutanix infrastructure in a few simple steps. Because it is a SaaS solution, Platform9 Managed OpenStack includes proactive 24x7 monitoring of the OpenStack control plane, with proactive 24x7 support for rapid issue detection and remediation. A unified management experience is provided across Nutanix, other legacy hardware and virtualized infrastructure, and public clouds like AWS, GCE; all with the OpenStack API and UI.

Together with the Nutanix solution, Platform9 Managed OpenStack makes implementing your cloud easy:

- Platform9's SaaS-managed architecture means there is no complex management software to install, configure or upgrade. Simply add and configure Nutanix Converged Infrastructure in a few simple steps.
- SaaS deployment means proactive 24x7 monitoring of OpenStack by Platform9, with proactive 24x7 support for rapid issue detection and remediation is built into the solution.
- Operational cost, complexity, and TCO is significantly reduced with a simplified yet feature-rich user experience.
- Single pane management across Nutanix, other legacy hardware and virtualized infrastructure, and public clouds like AWS, GCE; all with the OpenStack API and UI; enabling a true hybrid cloud experience.



## **NUTANIX ENTERPRISE CLOUD PLATFORM & PLATFORM9 SAAS-MANAGED OPENSTACK: BETTER TOGETHER**

Platform9 Managed OpenStack simplifies deployment, maintenance, monitoring, and administration of the control plane of the cloud environment. Unlike DIY approaches or legacy OpenStack distributions, SaaS management makes it faster, easier and cheaper to deliver cloud agility to your end users. Platform9 provides a robust end-to-end SLA for the solution, which enables your IT teams to focus on higher-value projects. IT and DevOps teams can utilize OpenStack's programmatic access to infrastructure for a true DevOps environment. Tenants can be created for individual teams, such as dev/test, QA, and more. Quotas and VM leases enable teams to self-serve, while assuring compute and storage resources are not wasted.

Nutanix's Enterprise Cloud Platform also simplifies and streamlines deployment of a cloud environment, while maintaining high performance and scalability. Nutanix web-scale platforms provide a choice of hypervisor and supports OpenStack Cinder APIs as well as Array Integration (VAAI) for VMware environments. This means you can offload cloning of individual VMs through Platform9 Managed OpenStack using native Nutanix snapshot and cloning functionality. Your team can create efficient, high performance clones of VMs as the foundation for fast and easy provisioning. You can also leverage Nutanix replication to quickly deploy high-performance clones of VMs across multiple Nutanix systems for tasks such as development, testing, and disaster recovery.

Unlike typical OpenStack implementations, Platform9 Managed OpenStack is fully inter-operable with Nutanix across both Acropolis and VMware vSphere virtualization platforms. OpenStack discovers any operations performed via Nutanix's industry leading Prism user experience, while operations performed in OpenStack are also reflected in Prism. The result is freedom to use the tools and APIs of your choice: they are guaranteed to work together.

Your team can also leverage the Nutanix Windows Powershell commandlets, Prism REST APIs, and OpenStack APIs to create your own custom scripts for tasks such as automated deployment, reporting, or even failover. Nutanix and Platform9 support integration with Linux, VMware, and public cloud environments, which empowers your team to easily and efficiently operate in multi-platform, hybrid cloud environment.

Together, Nutanix web-scale converged infrastructure and Platform9 Managed OpenStack deliver a true Hybrid cloud experience that sets the new standard for agility and TCO in cloud infrastructure.

## **GET STARTED**

Nutanix is committed to making your journey to the cloud with Platform9 a success with validated reference architectures and a variety of services delivered by Nutanix or our partner network to help you assess, plan, and deploy your cloud.

For more information about Nutanix solutions for Platform9, visit [www.nutanix.com](http://www.nutanix.com) or contact your local Nutanix representative or authorized reseller.



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Nutanix makes infrastructure invisible, elevating IT to focus on the applications and services that power their business. The Nutanix enterprise cloud platform leverages web-scale engineering and consumer-grade design to natively converge compute, virtualization and storage into a resilient, software-defined solution with rich machine intelligence. The result is predictable performance, cloud-like infrastructure consumption, robust security, and seamless application mobility for a broad range of enterprise applications. Learn more at [www.nutanix.com](http://www.nutanix.com) or follow us on [Twitter@nutanix](https://twitter.com/nutanix).

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