

# Nutanix Solution Brief

## Optimize your Nutanix Software-Defined Data Center with Virtana Platform

### Essentials

#### Optimize Nutanix Environments with Virtana Platform

- Understand how application workloads stress compute, network, and Storage
- Gain real-time and historical performance visibility from the guest OS to the hypervisor and underlying infrastructure
- Forecast, balance, and manage capacity utilization across applications, Nutanix AHV, and Nutanix AOS Storage

#### Assure the Performance of Mission-Critical Application

- Utilize best practice dashboards as a single pane of glass across software-defined, cloud, and physical infrastructure
- Auto-discover and map application dependencies on software-defined infrastructure
- Predictive capacity management for virtual and physical infrastructure to prevent capacity exhaustion
- Automate root-cause analysis (RCA) through proactive problem resolution to dramatically reduce mean time to resolution (MTTR) of tough performance issues

### The Challenges of Managing Software-Defined Data Centers

Infrastructure teams have evolved their digital infrastructures across the public and private clouds to deliver the on-demand scale, performance and capacity needed to support digital transformation and innovation. Virtualization and Nutanix software-defined-data centers have key strategies to enable this evolution.

Virtana Platform was designed from the ground up as a lifecycle AIOps observability platform designed to map, monitor, and manage mission-critical workload performance and capacity at virtually unlimited scale.

A single intelligent platform that unifies, streamlines, and automates IT operations with a unique, app-centric approach to hybrid infrastructure management that assures deep insights into application performance, consumption, and service levels.

#### Single Pane of Glass for Your Hybrid Infrastructure

Virtana Platform starts by mapping applications and their supporting infrastructure at the cloud, virtual, and physical level. This comprehensive understanding of the data supply chain provides the basis for rich dashboards that deliver service assurance, visibility and control to administrators, architects and executives.

**Assure performance:** The platform monitors hundreds of Nutanix AHV, and Nutanix AOS Storage metrics in real-time and at virtually unlimited scale across any number of Nutanix Prism instances. Combined with this information, network operational detail, operating system data for Linux and Windows, as well as metrics for storage arrays are combined by Virtana Platform to create dynamic, best practice and custom alarms that assure performance and availability.

## With Virtana Cost & Capacity Management, you can:

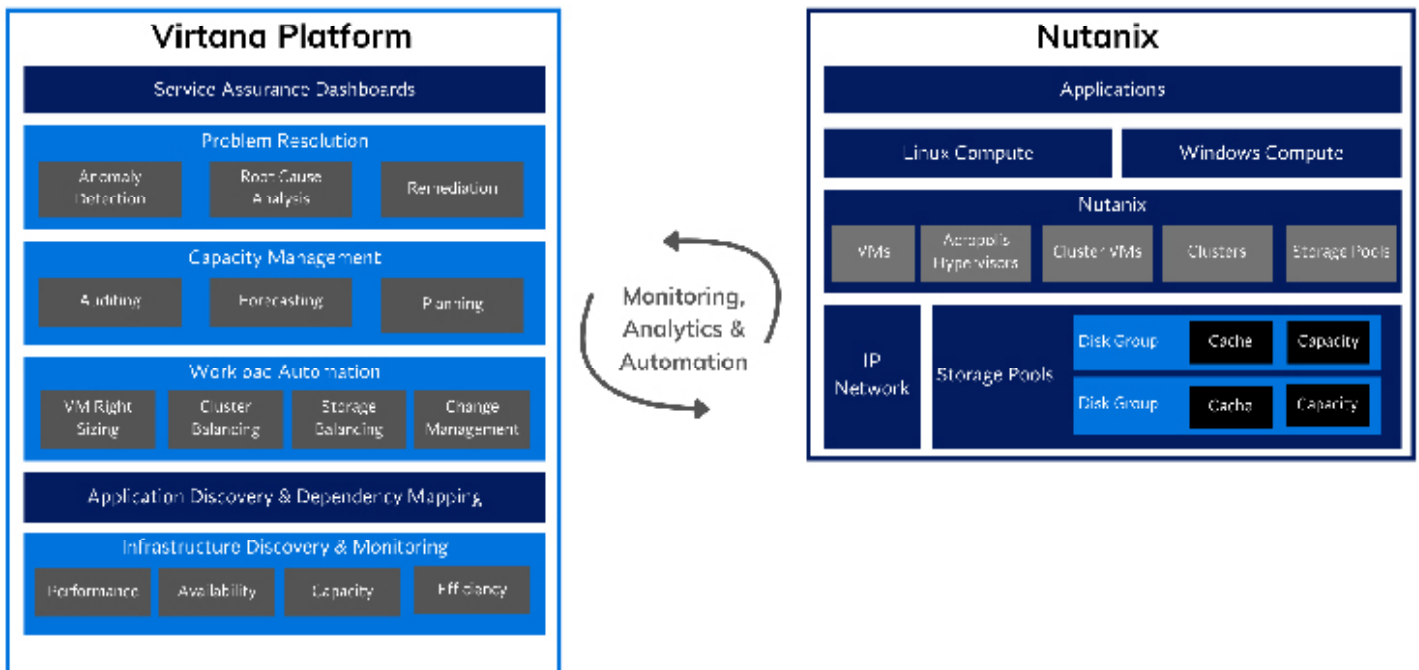
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Proactively manage the digital infrastructure lifecycle: Virtana Platform includes infrastructure level planning, optimization, and continuous problem resolution that ensures application uptime and availability. The solution automatically triages, diagnoses, and provides actionable resolution recommendations that prevent problems before they affect performance by:

- Identifying and reacting to workload behavior changes
- Identifying resource hogs, noisy neighbors and performance bottlenecks
- Rebalancing workloads, application resources, Nutanix AHV clusters, and the supporting underlying storage
- Resizing virtual resources based on dynamic application workload needs
- Modeling workloads and proactively planning and forecasting of future capacity needs

## Logical architecture to support Nutanix Software-Defined Data Centers





- Automatically maps applications to digital infrastructure
- Monitors application flows over the network
- Monitors client and storage node OS instances
- Deliver visibility, scale, and analytics to assure the performance, availability, and capacity of your digital infrastructure

Virtana Platform was built from the ground up as a machine learning-powered analytics platform that goes well beyond the capabilities of traditional AIOps platforms by providing a lifecycle approach to AIOps that assures, manages, and balances workloads across digital infrastructure.

Virtana Platform provides full-stack, end-to-end visibility into digital infrastructure performance and operation. This visibility extends across the applications, the digital infrastructure resources they rely on, and the network flows between them. These comprehensive views into the relationships and capabilities of digital resources, enable advanced correlation that makes identification and root cause analysis easy. Virtana Platform helps assure the performance, availability, capacity, and efficiency of the digital infrastructure in your software-defined data center.



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