Nutanix Prism
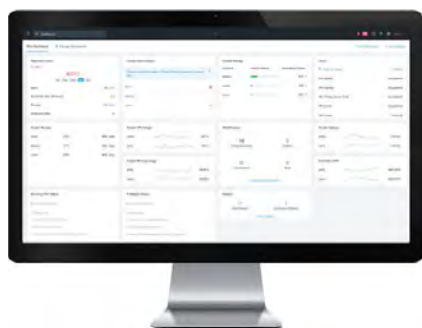
△ Prism

Nutanix Prism is an end-to-end consumer-grade management and operations solution for virtualized datacenter environments that brings unprecedented simplicity by combining several aspects of administration, reporting, and intelligent automation for IT Operations.

Prism provides intuitive management of the entire stack, from storage and compute infrastructure, physical and virtual networking, and VMs. Prism RBAC enables granular control on which users can perform what actions on entities such as VMs, applications, reports, and clusters. These capabilities are included in the Prism Starter licensing tier, which comes included with every Nutanix AOS license.

Prism Pro and Prism Ultimate tier's add IT Operations capabilities, that address IT Ops teams' workflow. With these, Prism intelligently plans and optimizes for capacity, proactively detects performance anomalies, and enables codeless automation of operations tasks. These are capabilities powered by machine learning and work with major ITSM tools. Also included in the Operations tiers are advanced application insights and automation for troubleshooting application-related infrastructure bottlenecks. Prism also offers visibility into private cloud IT resource consumption for targeted IT cost reductions and accurate budgeting.

Prism advanced features can be accesses via the Prism Central console (PC) which is included with all Prism licensing tiers. PC provides a unified interface for managing all of your clusters, globally, from a single management interface.

ONE-CLICK MANAGEMENT

Prism gives administrators the ability to manage their global environment, from hardware up through the VMs, with one-click simplicity.

- **Cluster Management:** Deploy and expand clusters in minutes, manage host profiles, and configure and monitor virtual networking.

- **VM Management:** Manage VMs through their entire lifecycle, from creation to initial placement, network configuration, to protection and migration.

- **Storage Management:** Manage storage policies with VM-centric workflows and monitor with comprehensive visibility into storage utilization.

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AUTOMATED OPTIMIZATION AND REMEDIATION

Prism includes a powerful application and VM-centric capacity forecast, planning, and optimization engine powered by Nutanix's X-Fit algorithm.

- **Capacity Behavior Analytics:** Predictive analysis of capacity usage and trends based on workload behavior enabling pay-as-you-grow scaling.

- **Capacity Optimization:** Inefficiency detection in resource usage and automated optimization of VM sizing based on behavioral analysis.

- **Anomaly Detection:** Predictive monitoring-based machine learning to generate actionable signals and provide early warnings.

OPERATIONAL AUTOMATION

Prism's X-Play links intelligent signal with automated actions. Build codeless automation routines and improve operations productivity.

- **Codeless Task Automation:** Create playbooks for common troubleshooting steps. These playbooks can be triggered automatically based on the alert polices.

- **Action Gallery:** A collection of out-of-the-box actions for notification, VM management, reporting, and scheduling. It also includes the REST and script actions that can connect to your existing tools and systems.

- **Centralized Upgrade:** One-click upgrades to hundreds of clusters without service disruption.

APPLICATION INSIGHTS AND BROAD AUTOMATION

Prism can quickly isolate problems between infrastructure and application stack. Now get intelligent alerts for application metrics as well.

- **Applicating Discovery:** Real-time agentless discovery of applications, via IPFIX data, gives an understanding of the full stack of applications.

- **Application Monitoring:** Visibility into databases, queries and metrics to reduced RCA time for application issues.

- **Non-AOS VM Monitoring:** A single pane for entire virtual infrastructure even, non-AOS environments, including monitoring and alerts.

CLOUD RESOURCE INSIGHTS

Prism can now create private cloud VM cost metering based on a built-in TCO Model, a SaaS based capability, delivered by Beam.

- **VM Cost Metering:** Out of box visibility to unit VM cost with built in TCO framework.

- **Chargeback:** Create customizable cost centers using Clusters, Categories mapping. Can be extend to multi cloud use case with Xi Beam

- **Budgeting:** Automated threshold-based alerting on cost spend along with algorithmic quarterly projections with variance analysis

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Notes:
- A 90-day trial version of Prism Ultimate is included with every edition of AOS
- Licensing will be on a per-node per year basis with option to purchase for 1/2/3/4 or 5-year term
- One license should be purchased for each node in the cluster that is being "managed" by Prism Pro or Ultimate tier

	STARTER	PRO	ULTIMATE
Ideal Use Case	HCI Management	Infrastructure AIOps	IT Service AIOps
Nutanix HCI Management			
Infrastructure management	✓	✓	✓
Monitoring & troubleshooting	✓	✓	✓
Enterprise AuthN + RBAC	✓	✓	✓
1-click upgrades via LCM	✓	✓	✓
Comprehensive search	✓	✓	✓
Operational Insights			
Customizable dashboard		✓	✓
Reporting		✓	✓
Application discovery			✓
Automated Optimization			
Capacity forecast		✓	✓
VM Inefficiency detection and right-sizing		✓	✓
Just-in-time planning		✓	✓
Proactive Remediation			
Anomaly detection		✓	✓
Advanced troubleshooting		✓	✓
Monitoring for non-AOS virtual infrastructure		✓	✓
Application monitoring (*)			✓
Smart Automation			
Low-code/no-code operations automation		✓	✓
Self-tuning with machine learning			✓
Cost Management for Nutanix (**)			
Cost metering for resources			✓
Budgeting and chargeback			✓
Content Pack			
SQL Server monitoring			Included

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