Nutanix Solution for Splunk

Well architected simplicity, stability, and scalability for Splunk data analytics.

SPLUNK AT NUTANIX

The Nutanix cybersecurity team has been running Splunk on Nutanix HCI since 2017. Splunk had to scale rapidly to keep up with the company's needs. Ingest increased more than 10x from 2017 to 2018— to more than 1TB per day—yet node count only increased 3x.

The Nutanix security team needed to respond rapidly to unexpected events that pushed infrastructure limits and threatened to impact Splunk operations:

- Thirty new analysts caused Splunk to hit memory and CPU limits.
- Datacenter migration caused 50% spike in data ingest.

Nutanix Prism enabled the team to address these events themselves. Memory, CPU, and storage capacity were added with just a few clicks, allowing most issues to be resolved in a matter of minutes.

For more details, check out the Nutanix presentation from Splunk.conf19.

Splunk is the leading software platform for unlocking the power of data to drive IT operations and business. But, with data growing at an unprecedented rate, keeping up with the infrastructure needs of Splunk can be a challenge. According to Forrester, 60-73% of all data within an enterprise goes unused for analytics because legacy infrastructure is unable to scale easily and quickly.

Traditional storage systems used in legacy architectures are inefficient. Expansion—and updates to existing infrastructure—take too much time and expertise to refactor, upfront costs are high, and scaling costs are unpredictable. Extra time spent managing infrastructure rather than focusing on Splunk drives up operating expenses and total cost of ownership (TCO).

FOCUS ON SPLUNK INSIGHTS, NOT SPLUNK INFRASTRUCTURE

Nutanix Solution for Splunk is built on industry-leading hyperconverged infrastructure (Nutanix HCI) technology that takes the complexity out of managing infrastructure to support Splunk, allowing your teams to spend more time gaining insight and adding value.

Benefits include:

- **Deliver performance at scale.** Start small and grow easily. Linear scaling delivers predictable performance as needs grow.
- **Expedite time to value.** Accelerate deployment up to 8x from pilot to production, reducing risk.
- **Lower TCO.** Cut total cost of ownership by as much as 50%.
- **Simplify lifecycle management.** Reduce time spent on updates and add new storage services in minutes with no downtime.

Nutanix HCI keeps pace with growing Splunk requirements. Advanced data services, built-in security, intelligent operations, and native data protection are integral parts of the platform.
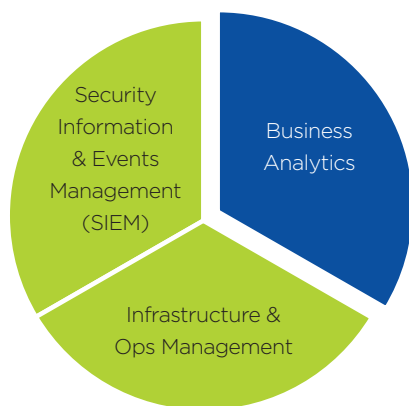
Nutanix delivers the scalability, security, availability, resiliency, redundancy, and recoverability that Splunk requires—with far less effort.

NUTANIX™

SECURITY STANDARDS AND CERTIFICATIONS

SUITE B

FIPS Level 2 Validated 140-2

ISO 27001 Certified — Information Security Management

Nutanix employs multiple security standards and validation programs. It complies with the strictest international standards, including the SP800-53 guidelines, to assure governments worldwide that Nutanix products perform as expected and work with their existing technology.

TOP SPLUNK USE CASES

- Security Information & Events Management (SIEM)
- Business Analytics
- Infrastructure & Ops Management

INTEGRATED DATA SERVICES

Managing storage capacity and performance is a significant pain point for Splunk. Nutanix consolidates all data services on the same platform with compute. Nutanix data services simplify provisioning and management while increasing utilization. Data locality and intelligent tiering ensure optimum performance without constant tuning.
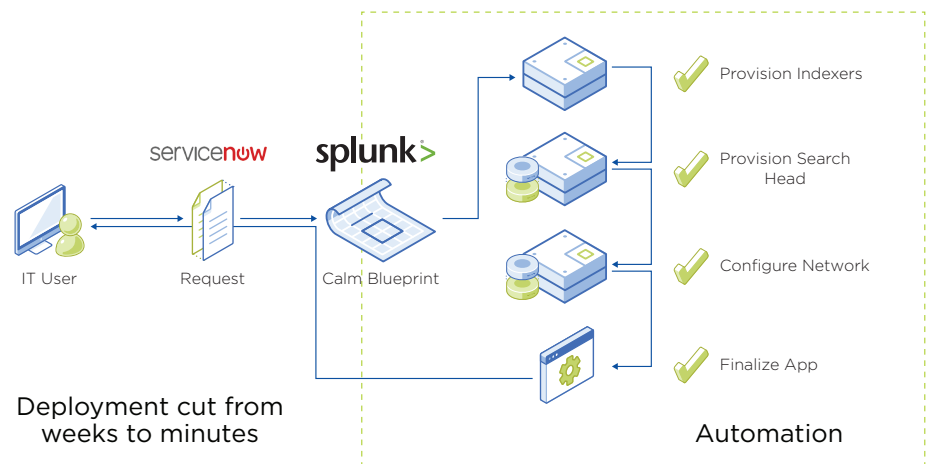
Available data services include block, file, and object storage to address your current and future needs. Nutanix Objects is ready to run Splunk SmartStore, which automatically moves cold Splunk data to an on-premises or cloud object store. Nutanix Objects is a scalable, on-premises object storage that can be optimized to satisfy a range of performance characteristics with the management simplicity of Nutanix.

INTELLIGENT OPERATIONS AND ADVANCED AUTOMATION

Nutanix HCI simplifies infrastructure management across the entire lifecycle, automates operations, and enables self-service to streamline Splunk operations.

Intelligent, one-click operations take the pain and effort out of daily activities, including software installs, upgrades, and workload placement. Advanced analytics provide insights into your Splunk environment, giving you instant visibility into utilization, growth rates, and other critical planning information.

With Nutanix Calm, you can deploy a standard or custom Splunk blueprint and have a usable Splunk environment in minutes, dramatically simplifying new deployments and accelerating time to value.

IT User — Request — servicenow — splunk> — Calm Blueprint

Provision Indexers
Provision Search Head
Configure Network
Finalize App

Deployment cut from weeks to minutes

Automation

PERFORMANCE AND SCALABILITY

With Nutanix HCI technology, simple building blocks create a powerful and flexible scale-out architecture. You can start small and scale as necessary without upfront guesswork or expensive overprovisioning. Splunk can share infrastructure with other applications, or you can dedicate a cluster to Splunk for maximum isolation.
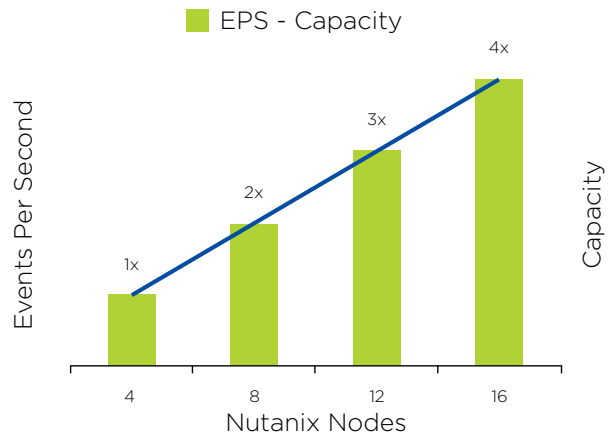
NUTANIX™

CUSTOMERS & INDUSTRIES

- G2K
- FinServ
- Government
- Healthcare
- Telco
- Retail
- Manufacturing
- Education
- Life sciences and pharma

A modest-sized Nutanix cluster can ingest terabytes of data per day, process millions of events per second, and scale performance incrementally as needs grow.

Performance and capacity scaling are predictably linear, so you can add resources incrementally as your Splunk needs grow—avoiding large, unexpected capital outlays.

Chart: EPS - Capacity. X-axis: Nutanix Nodes (4, 8, 12, 16). Y-axis left: Events Per Second. Y-axis right: Capacity. Bars at 1x, 2x, 3x, 4x.

GETTING STARTED WITH SPLUNK ON NUTANIX

To learn how Nutanix can help you turbocharge your Splunk deployment visit nutanix.com/solutions/big-data/splunk.

GO FOR A TEST DRIVE

Test Drive
- Self-guided walk-me experience of provisioning and use cases
- All costs covered by Nutanix
- 4-8 hrs of availability

Free Trial
- 30-day free trial of Nutanix software
- AWS infrastructure costs covered by prospect
- All Nutanix products are available for trial

Single Free Node
- AOS, Prism and Files free for 1 year
- AWS infrastructure costs covered by prospect
- Community Supported
- Limited capabilities of a single node deployment

https://bit.ly/NTNX-TestDrive

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YOUR ENTERPRISE CLOUD

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