

Apstra Helps Large Web Services Company Simplify Network Design, Build, and Operations Process

INDUSTRY

Web Services

APSTRA USE CASES

- Private Data Center
- Intent-Based Networking
- Intent-Based Analytics
- Intent-Based Design

SOLUTION

- Apstra Intent-Based Data Center Automation

CHALLENGES

- Three webscale and growing data centers with flat staff
- IT infrastructure to support data driven services
- In-house automation tools
- Multiple network switch and OS vendors

COMPANY: Large Scale Data Center Operations



DATA CENTER REFRESHES



OPEX CHALLENGES



TELEMETRY AND ANALYTICS

A multi-service web, advertisement, e-commerce, and mobile payment provider has deployed Intent-Based Data Center Automation in its multi-vendor production data center network. With this deployment, the networking team has been able to operate and manage, with limited human resources, a large fabric network comprising of hundreds of racks and thousands of nodes that supports its Hadoop clusters.

“Because the entire network management operations are now streamlined, we are able to focus more on other value-added work. We are going to continue leveraging Apstra’s new capabilities and expand the adoption of Apstra across our entire infrastructure.”

Offering a wide range of services to its end-users required a network infrastructure that can handle their exponentially growing data traffic. While they initially planned to build their automation themselves, they changed their mind after trying AOS – they realized that they could strike a happy balance by leveraging AOS as the automation platform, towards which their talented team can apply their skills to extend and customize to the specific needs of the organization and the business. After having adopted a Clos fabric as part of a Hadoop data analysis infrastructure, this Internet Service Provider implemented Apstra to respond to the rapid expansion of network equipment and simplify the operation and maintenance of the ever-increasing devices.

BUSINESS IMPACT AND RESULTS:

- Intent-Based Network is able to easily deploy networks based on user intent
- Intent-Based Analytics is able to visualize the health of the network and raise alerts for anomalies
- Multi-vendors supporting Arista, Cisco, Cumulus Linux, Juniper and others
- Modern development approaches (graph datastore)

Using Apstra's Intent-Based Data Center Automation, this organization was able to scale their network to address the swelling amount of data generated by the growth of the business. In addition to their massive Hadoop install base, the Fortune 500 company uses Apstra to support more than 100 server racks running over a VXLAN fabric. Since installing Apstra, the engineering team is able to manage its entire network in lieu of hiring additional staff, keeping headcount and costs down. Furthermore, Apstra's Intent-Based Analytics have helped the Fortune 500 company improve its day 2 operations and quickly respond to business demands. One of the biggest advantages was evident when the engineering team realized after 12 months since deploying Apstra, no single outage had been reported.

Further, improvements in agility have been game changing – tasks that took them two weeks in the past now only takes them two hours – a 99% improvement.

Intent-Based Data Center Automation

Digital transformation is driving business strategy. Companies that are successful in making the shift see an increase in revenue and lower operational costs and are more profitable. Consequently, “89% of businesses now have digital initiatives underway,” according to a ZK Research 2018 IT Priorities Study. The automation capabilities delivered by an Intent-Based Data Center can radically change the operational model and enable businesses to slash the costs of running the data center and focus more on innovation. If businesses are to flourish in the digital era, evolving to an Intent-Based Data Center must be one of their top priorities. To learn more about if Intent-Based Data Center Automation is right for your business, download the [Intent-Based Data Centers are the Next Evolutionary Step for Enterprises](#) white paper.

About Apstra

Apstra® Intent-Based Data Center Automation increases application availability and reliability, simplifies deployment and operations, and dramatically reduces costs for Enterprises, Cloud Service Providers, and Telcos. Apstra empowers Intent-Based Data Centers through its pioneering Intent-Based Networking, distributed system architecture, and vendor-agnostic overlay. Headquartered in Menlo Park, California and privately funded, Apstra is a Gartner Cool Vendor and Best of VMworld winner. For more information visit: www.apstra.com or follow us on twitter [@ApstraInc](https://twitter.com/ApstraInc).

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