Enhancing Data Center Efficiency with AVIZ ONES and SONiC NOS

Key Results

- **Reduced Costs :** 30% decrease in operational and capital expenses.

- **Standardized Technology :** Transition to SONiC and WhiteBox solutions

- **Enhanced Support :** Aviz 24/7 support for community SONiC boosted system reliability and accelerated deployment

Strategic Issue

Rising costs and insufficient support with existing legacy systems led to significant delays—over nine months—in deployment, compounded by integration issues with host-level routing. These challenges stalled critical network upgrades and expansions, severely impacting data center agility and scalability for 1984. 1984 quickly realized that deploying host-based EVPN routing with a standard COVID-level over-priced infrastructure underlay network that was not as straight forward as initially sold.

After nine months of ongoing email exchanges, phone calls, and equipment still unutilized in the lab, 1984 realized that the desired network

topology was unachievable with their current solution. This impasse was resolved with the entrance of Aviz. Already proponents of SONiC, 1984 lacked a robust, enterprise-grade option that could support Community SONiC—until they discovered Aviz. Seizing the opportunity, 1984 embarked on their true open networking evolution with SONiC, supported by Aviz. This partnership enabled 1984 to deploy their network as envisioned, without constraints on vendor choice or network development, paving the way for a flexible, tailor-made infrastructure.

The Solution

A strategic pivot to Aviz Networks' expertise in supporting Community SONiC on existing NVIDIA Mellanox hardware enabled 1984 to reuse existing hardware, optimize costs, and streamline network operations. The integration of Aviz ONES allowed 1984 to customize their deployment and expand their operational capacity to meet specific needs. This approach preserves warranties and provides unrestricted access to robust features, significantly boosting data center performance.

Competitors

While 1984 had been deploying a more traditional big box proprietary network approach, the lack of effective support and customization led 1984 to opt for Aviz Networks' more responsive and adaptable solutions with SONiC. The competition meant buying more or different hardware, added licensing, and higher on-going maintenance support costs with zero guarantee.

Why Choose Aviz

1984 chose Aviz Networks for its comprehensive support of Community SONiC and the observability capabilities of Aviz ONES, ensuring a reliable and scalable network foundation **with 30% cost savings**. Aviz's adaptive support for SONiC enables 1984 to achieve the network fabric they desire, offering better support and laying a robust foundation for unlimited growth without restrictions on hardware choice, thereby reducing costs year-over-year.

Deployment

1984's implementation was conducted in a small to mid-sized data center, demonstrating Aviz capability to efficiently manage and deploy to both expansive and compact network environments. 1984 proves that Aviz makes SONiC adaptive to work for any size customer, with any size network.

Protocols

BGP, EVPN

Partnerships

This transformation was supported by EPS Global, reinforcing the deployment with access to additional expertise and resources to ensure a smooth transition and robust operation. EPS Global was able to provide 1984 with Aviz solutions and access to a more robust option for choice in Aviz certified SONiC network infrastructure partners moving forward.

Outcome

1984's strategic upgrade with Aviz ONES and SONiC significantly cut costs and enhanced operational flexibility. The move away from traditional networking giants to an open-source, community- backed platform has not only optimized financial expenditure, but also fortified the network's resilience and scalability. Aviz SONiC support for 1984 means no one dictates what 1984 can or cannot do with their network fabric or which hardware they have to use. 1984 is now master of their own destiny through choice, control, and cost savings delivered by Aviz.

"Partnering with Aviz Networks to implement SONiC is a game-changer for our data center operations. We've seen 30% cost reductions and unmatched system reliability, thanks to Aviz's expert support and guidance."

Julius Pór Bess, Principal Network Architect

For anyone who thinks SONiC is only for large Hyperscalers or is too difficult to deploy, see 1984's blueprint for success. 1984's transformative journey serves as a compelling blueprint for any business seeking to enable a modern AI-ready network fabric without the high costs associated with traditional vendors. Engage with Aviz Networks to discover how Aviz can take SONiC and revolutionize your data center operations, reducing costs and enhancing system reliability. Visit ***www.aviznetworks.com*** to learn more or schedule a consultation.