

Wasabi builds next generation cloud storage platform leveraging Arista switches

Highlights

Challenge

Cloud storage has become increasingly expensive. Wasabi has set out to commoditize cloud storage. In order to be successful, their holistic solution needs to be fast, flexible, and inexpensive.

Arista Solutions

- Arista 7000 series switches
- Arista EOS®

Results

- Single binary Extensible Operating System
- OPEX savings through programmability, leveraging Ansible to provision all devices
- Cost-effective native 25G & 100G bandwidth to storage environment with Arista

Wasabi, a cloud storage startup targeting industries with large file storage and rapid data retrieval requirements, looks to Arista Networks for programmable, cost-effective and highly performing foundational architecture.



Project Background

In 2016, Wasabi set out to build its first datacenter and develop its now popular emerging cloud storage solution. One of the key requirements to the datacenter infrastructure was cost-effective but high quality native 25G connectivity to the storage devices. Another key requirement was a cost-effective edge router that could take in multiple copies of the Internet routing table and provide enough port-density to scale as customers came on board.

During that time, Arista Networks was close to releasing their first IEEE standard 25G switch option in their product portfolio. Partnering together, Arista was able to provide Wasabi Early Field Trial (EFT) units of the switch to allow testing to begin in their first datacenter.

As the testing moved forward, Wasabi was able to leverage the switch, deployed in Multi-Chassis Link Aggregation (MLAG) pairs to provide a high level of redundancy and active-active forwarding to/from the storage devices.

Upon completion of the testing, Wasabi decided to move forward and standardize with that switch model as their Top of Rack (ToR) choice. Arista was also able to deliver on the second key requirement with their Jericho based switch, which Wasabi ended up standardizing as their edge router.

Wasabi's first production datacenter opened, and customers started to come on board to consume their new cost-effective and high performing cloud storage solution.

Shortly thereafter, Wasabi needed to scale out their infrastructure and worked with Arista to easily migrate their architecture into a spine-leaf design, leveraging a 32-port 100G series at the spine layer, interconnecting their edge and leafs at 100G.

With the new standard architecture in place, Wasabi looked to build efficiencies in the deployment and operations of the network. A single binary extensible operating system with Arista's EOS® in conjunction with Ansible was leveraged to automate the network infrastructure, saving time and providing consistency to the configuration.

Conclusion

Wasabi has since opened several datacenters all around the world, serving their customers in the most efficient way possible.

Wasabi's approach and standardized architecture has resulted in tremendous OPEX savings and a scale out infrastructure that positions them well to be successful in their mission.

As the infrastructure matures and greater scale is needed, both Arista and Wasabi will continue working together as partners to successfully deliver a high performing, low-cost and scalable solution.

Santa Clara—Corporate Headquarters

5453 Great America Parkway,
Santa Clara, CA 95054

Phone: +1-408-547-5500

Fax: +1-408-538-8920

Email: info@arista.com

Ireland—International Headquarters
3130 Atlantic Avenue
Westpark Business Campus
Shannon, Co. Clare
Ireland

Vancouver—R&D Office
9200 Glenlyon Pkwy, Unit 300
Burnaby, British Columbia
Canada V5J 5J8

San Francisco—R&D and Sales Office 1390
Market Street, Suite 800
San Francisco, CA 94102

India—R&D Office
Global Tech Park, Tower A & B, 11th Floor
Marathahalli Outer Ring Road
Devarabeesanahalli Village, Varthur Hobli
Bangalore, India 560103

Singapore—APAC Administrative Office
9 Temasek Boulevard
#29-01, Suntec Tower Two
Singapore 038989

Nashua—R&D Office
10 Tara Boulevard
Nashua, NH 03062



Copyright © 2018 Arista Networks, Inc. All rights reserved. CloudVision, and EOS are registered trademarks and Arista Networks is a trademark of Arista Networks, Inc. All other company names are trademarks of their respective holders. Information in this document is subject to change without notice. Certain features may not yet be available. Arista Networks, Inc. assumes no responsibility for any errors that may appear in this document. 09/18