

Arista EOS CloudVision and VMTurbo

Enabling customers to guarantee application Quality of Service at scale on any cloud

Enterprises are accelerating their adoption of virtualization and cloud deployments to meet the demands for new applications, increased use of data and analytics, and a digital led customer experience. Today most enterprises have a cloud 1st policy for running complex application workloads at scale and are pursuing a hybrid-cloud deployment approach leveraging on-premises infrastructure and public cloud providers. As they do so, the complexity of assuring application performance increases exponentially.

As enterprises scale applications with networks spanning their private data center and public cloud resources it is imperative to match workload demand with the right compute, storage and network resources. The Arista and VMTurbo software defined approach enables enterprises to move to cloud-class automation without needing any significant internal development.

CloudVision extends Arista EOS with a network-wide approach for workload orchestration and workflow automation as a turnkey solution for Cloud Networking.

VMTurbo seamlessly integrates with Arista and Public Cloud providers to add network aware placement decisions and the intelligence of which workloads to burst to the public cloud and when to bring them back. With Arista and VMTurbo enterprises are empowered to guarantee application quality of services across any cloud.

KEY BENEFITS

- **Guaranteed Quality of Service levels (e.g. app response time, transactions per seconds) across any cloud**
- **Streamline management of network and virtualized environments with fewer system administrators providing better management of larger environments**
- **Accelerate migration to new virtualization and cloud architectures including OpenStack, Docker and Hybrid Cloud deployment models**
- **Quick time value, deploy and scale to production in hours, see and realize value in days**

Arista CloudVision

Arista CloudVision's abstraction of the physical network to this broader, network-wide perspective allows for a more efficient approach for several operational use-cases, including the following highlights:

- Centralized representation of distributed network state via NetDB which provides the ability to aggregate the network state of all Arista Extensible Operating System devices to a common point through the CloudVision platform and, from there, stream network-wide telemetry data to improve network operations visibility and historical analytics.
- Controller agnostic support for physical and virtual workload orchestration through open APIs such as OVSDB, JSON and Openstack plugins.
- Virtual Machine identification and telemetry via Arista VMTracer and Container identification and Telemetry via Arista Container Tracer for Docker.
- Turn-key automation for zero touch provisioning, configuration management and network-wide upgrades and rollback.
- Compliance Dashboard for Security, Audit and patch management
- Real-time Streaming for Telemetry and Network Analytics, a modern approach to replace legacy polling per device including network buffer management via Arista Latency Analyzer (LANZ).

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VMTurbo Control

VMTurbo complements any virtualization or cloud architecture, whether it is VMware, Hyper-V, OpenStack, Docker, public cloud or heterogonous combination adding:

- Guaranteed application performance with automatable decisions to place “chatty” workloads close to each other reducing inter application tier latency
- Auto discovery and grouping of workloads into dynamic Virtual Pods (vPods) based on frequency of communication (sFlow)
- Extended control into the network layer through Arista Extensible Operating System (EOS) integration, auto discovering network topology and public cloud compute and storage enabling on-demand leverage of resources
- Ability to maximize the value of high bandwidth top of rack switches and ports
- Automatable-decisions that shape traffic flow to minimize buffer overflow risk through Latency Analyzer (LANZ) integration
- Identification of which workloads to burst to the public cloud and when, based on real-time demand while accounting for any business or technical constraint
- Utilization of underlying environment and public cloud resources as efficiently as possible

About Arista Networks

Arista Networks was founded to pioneer and deliver software-driven cloud networking solutions for large data center storage and computing environments. Arista’s award-winning platforms, ranging in Ethernet speeds from 10 to 100 gigabits per second, redefine scalability, agility and resilience. Arista has shipped more than five million cloud networking ports worldwide with CloudVision and EOS, an advanced network operating system. Committed to open standards, Arista is a founding member of the 25/50GbE consortium. Arista Networks products are available worldwide directly and through partners.

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Additional information and resources can be found at: <http://www.arista.com>

About VMTurbo

VMTurbo’s Application Performance Control system enables customers to guarantee Quality of Service for any application while maximizing resource utilization of any infrastructure.

VMTurbo’s patented technology continuously matches any application workload demand to any infrastructure supply. With this unique, real-time capability, VMTurbo is the only technology capable of controlling and maintaining an environment in a healthy state.

To learn more visit vmturbo.com