

ExtraHop-Arista Persistent Monitoring Architecture for SDN



Simplify and de-risk SDN adoption with persistent visibility across the client, network, application, virtualization, database, and storage tiers.

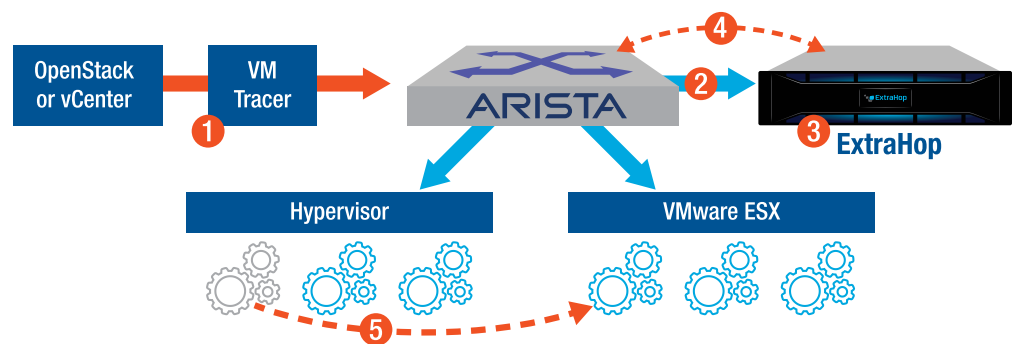
BENEFITS

- Track performance as workloads migrate across hosts and VLANs
- Correlate activity across the client, network, application, virtualization, database, and storage tiers
- See metric details that matter, such as the URI included in an HTTP 500 error, a slow stored database procedure, the file name associated with an NFS error, or client IP associated with a failed login
- Save money on a superior solution at just one-tenth of the cost of legacy switching and monitoring products

AT-A-GLANCE

The vision of software-defined datacenters promises to dramatically simplify IT management. But when applications are divorced from dedicated infrastructure, traditional approaches to monitoring performance and security no longer work. The ExtraHop-Arista Persistent Monitoring Architecture offers a non-invasive method for maintaining persistent visibility into increasingly abstracted server, application, storage, and network tiers. IT teams can understand what is really happening with an application workload regardless of where it is running, what it is comprised of, or where it is moving.

The ExtraHop-Arista Persistent Monitoring Architecture enables IT organizations to combine the unparalleled SDN capabilities of Arista's EOS, the world's most advanced network OS, with groundbreaking wire data analytics from ExtraHop. IT teams no longer need to create a separate tap aggregation layer just to get access to the data. The DANZ functionality can be programmatically controlled to tap traffic from any source in seconds and ExtraHop transforms that data into meaningful real-time insight into performance, availability, and security.



1. Arista's VM Tracer links to vCenter to recognize vMotion and VXLAN events.
2. Arista intelligently routes mirrored traffic to ExtraHop where it is processed at up to a sustained 40 Gbps.
3. ExtraHop discovers and monitors real-time performance across tiers, and dynamic events, for workloads associated with specific VM instances and clusters.
4. Arista uses the ExtraHop API to show everything that comprises a workload: hosts, applications, databases, storage, etc.
5. ExtraHop and Arista maintain persistent visibility during provisioning, deprovisioning, VM migration, SDN topology change, etc.

SDN AND WIRE DATA ANALYTICS LEADERS



ARISTA 7150S

- Recognized as the price-performance leader in network switching
- First switch with integrated tap aggregation capabilities (DANZ)
- Layer 2/3/4 switching up to 1.28Tbps and 960Mpps
- Consistent latency as low as 350ns for all packet sizes
- Large L2 and L3 tables for virtualized and cloud network environments



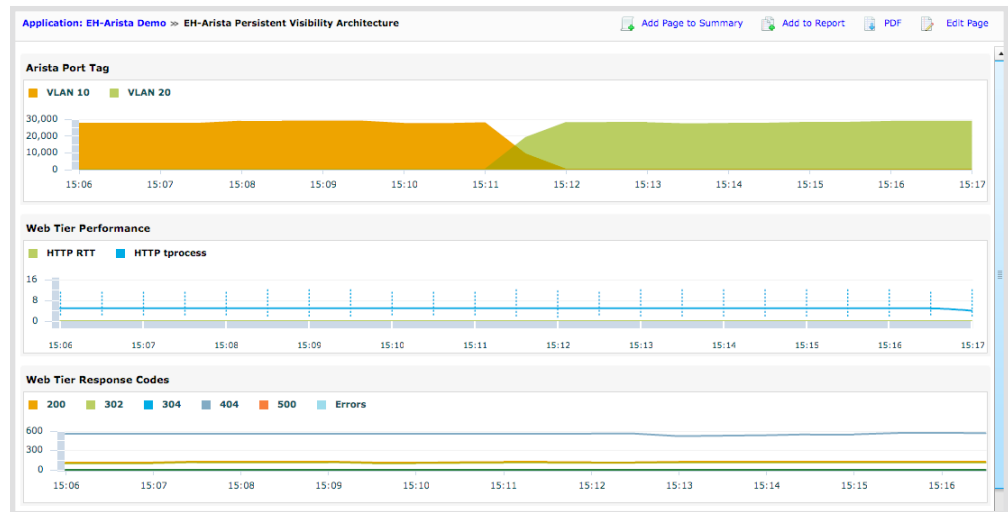
EXTRAHOP EDA 9100

- Industry leader in real-time wire data analytics
- Performs the full-stream reassembly and full-content analysis at a sustained 40 Gbps—sufficient to analyze over 1.3 million HTTP transactions per second
- Bulk decryption at 40 Gbps with 64,000 handshakes per second for 2048-bit RSA keys

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The ExtraHop-Arista solution enables IT teams to maintain persistent visibility into application performance even as workloads are migrated from one host to another and/or from one VLAN to another.

WIRE DATA ANALYTICS FOR SDN ENVIRONMENTS

As an end-point for orchestrated traffic from Arista, ExtraHop transforms packets into wire data for correlation across all tiers without agents or probes. IT teams can understand the conversations taking place within the virtualized datacenter—at the wire protocol level in real time.

With persistent visibility into application, network, and infrastructure performance, IT organizations can more confidently adopt flexible and cost-effective virtualization technologies.

- **Get real-time details** for activity at all tiers: client, network, web, application, database, storage, and shared services.
- **Measure baseline performance** before and after application migrations.
- **Track performance-based SLAs** for application owners and other stakeholders.

PRICE-PERFORMANCE LEADERSHIP

Arista and ExtraHop are the price-performance leaders in the switching and wire data analytics markets. With the ExtraHop-Arista Persistent Monitoring Architecture, IT organizations can support SDN for their cloud environments without having to purchase a separate tap aggregation layer or costly agents for every server.

Together, one Arista 7150S switch and one ExtraHop EDA 9100 appliance offer far greater value than legacy switching and monitoring products, both in terms of upfront cost—roughly one-tenth the cost of a comparable legacy solution—and in ongoing maintenance.

- **Deploy in as little as 15 minutes** with no configuration required and no system overhead.
- **Automatically discover and classify applications and devices**, avoiding the manual tagging and configuration required by legacy tools.
- **Enjoy peace of mind** with a passive approach to analyzing data off the wire that uses no agents, probes, polling, or synthetic transactions.