NUBEVA PRISMS

Elastic Packet Processing for Public Clouds

Nubeva Prisms EPP - Product Brief

Introduction:

Deploying security tools to monitor workloads in the cloud is extremely difficult. This lack of sufficient security monitoring and alerting in the cloud is a barrier to cloud adoption and cloud maturity. Nubeva is on a mission to solve this problem. As part of our product strategy, we created the Nubeva Elastic Packet Processor (EPP).

Challenges Solved By Elastic Packet Processing:

Cloud Infrastructure TAP Immaturity: Infrastructure packet mirroring offered by cloud platform providers, can be expensive at scale and not yet available for all regions and workloads. While the agentless packet acquisition is a good step forward, users of cloud infrastructure TAPs can enhance their capabilities by with Nubeva Prisms for filtering and replication to multiple, rather than single, tool and storage destinations.

Workload Tax: Packet replication taxes the source workload which drives up costs and drives down performance. The more you process mirrored packet streams and the more destinations you send replicated streams to, the more source CPU, memory and bandwidth is consumed. Resource consumption like this can trigger elastic events and additional costs purely due to monitoring, security and compliance overhead and not related to the core purpose of the workload tasks.

Simultaneous Monitoring and Recording: Traditional security and performance monitoring solutions wait until something goes wrong before they start capturing packets for deeper inspection. This means that they have to wait until a problem or threat happens again before they can really track down the issue. Nubeva Prisms enables organizations to practice nation-state packet multiplexing, allowing for every packet capable inspection and storage for follow up and deeper analysis.

What About Cloud Taps?

Cloud Taps such as Azure VTAPS, is a one-to-one tap and mirror configurations but cannot provide advanced filtering or multi-destination replication.

Nubeva is partnering with cloud providers to enhance their native taps.

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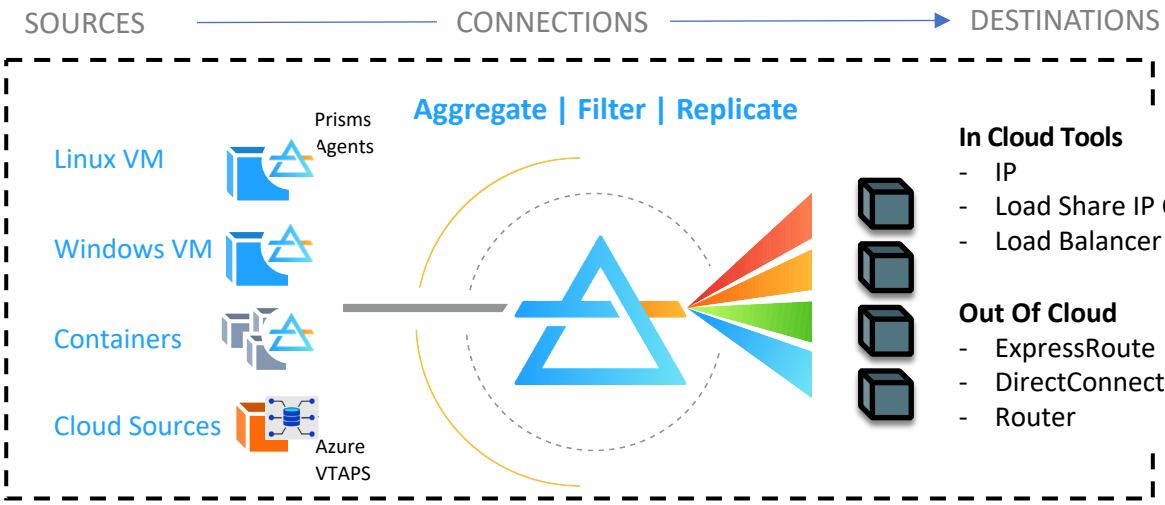
333 W. San Carlos St. Suite 600 San Jose, CA 95113 844.538.4638 www.Nubeva.com

Solution:

The Nubeva's Elastic Packet Processor (EPP) is a high-performance, autoscaling packet processor that handles advanced PCAP filtering, ability to export NetFlow from public cloud sources and distributes the selected traffic to any routable IP destination to unlock cloud visibility.



Solution Highlights:

Massive Low-Cost Performance and Throughput Gains: Nubeva's performance is 10 times or more than any other traffic mirroring product giving the best chance to deliver full packet streams.

Application Performance Boost: Capture a single stream of mirrored traffic to an elastic packet processor which performs advanced filtering and replication to multiple destinations without multiplying the bandwidth, CPU or memory overhead consumed by the source workload.

Cloud Network Optimization: Nubeva can replicate traffic to multiple monitoring and storage tools, dramatically reducing the amount of extraneous and repeated data flowing across your network.

Security and Forensic Storage at the Same Time: Nubeva lets you immediately send processed packet streams to security tools like IDSs while - at the same time - sending full, unfiltered packet streams to indexed storage for forensic follow-up, anomaly detection and threat hunting.

Full Cloud PCAP and NetFlow : Nubeva's can mirror traffic or IPFIX telemetry data in environments where traditional L2 tapping simply doesn't work in the public cloud.

Foundation for the Future: PSPs are the foundation for cloud visibility. The ability to run multiple services as modular packet processing engines is the foundation to deliver even more advanced services.