WIREX SYSTEMS NE2ITION:

Transforming Cloud Security with Advanced Packet Payload Analysis

Introduction

In an era of expanding cloud adoption and increasing cybersecurity threats, maintaining comprehensive and consistent network visibility across diverse cloud environments is paramount. WireX Systems Ne2ition platform harnesses advanced packet analysis to offer unparalleled insight into network activity, providing organizations with the longest duration of detailed data retention across all cloud providers. Many organizations believe leveraging cloud specific visibility is enough to protect their critical business interests yet find blind spots during investigations. As organizations leverage multi-cloud and hybrid-cloud environments, the additional complexity of diverse security sources from cloud-specific options becomes burdensome.

Consistent Data from Diverse Environments – Multi-Cloud and Hybrid-Cloud

The WireX Systems Ne2ition platform operates from the packet payload and therefore provides uniform insight across multi-cloud and hybrid-cloud environments. By leveraging Virtual Taps (VTAPs), VPC Mirroring, Network Virtual Appliances (NVA), Packet Forwarding Agents, and network packet broker solutions, Ne2ition captures packet-level details without disrupting existing workflows. This capability guarantees organizations a consistent and comprehensive dataset for threat detection, investigation, and policy validation, even as cloud providers evolve their offerings.

There are a number of approaches available to ensure adequate access to packet detail and determining the right deployment model is dependent on the specific architecture of each organization. Ne2ition can integrate with any of the deployment models ensuring secure access to critical insights.

Flexible Deployment Models

VTAP / VPC Mirroring / Packet Mirroring - This is the preferred solution and a great cloud specific option for organizations that would like to provide packet replication natively. Many of the major cloud providers already offer or will offer the capability again in the near future.
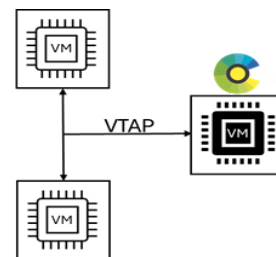
Firewall Integration – A good option for organizations that don't have VTAP, but want all of their ingress/egress traffic covered and decryption support.
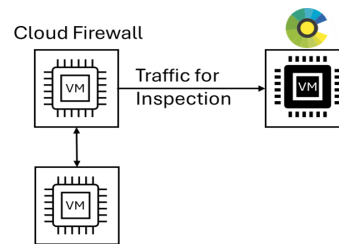
Network Virtual Appliance – A good option for organizations that don't have access to VTAP, but prefer to route traffic and replicate data for analysis. This is the most common option for Azure users and is often referred to as "agentless".
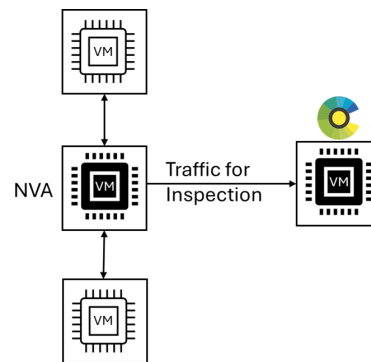
Packet Forwarding Agents – This is the least preferred solution to access network traffic as it consumes additional resources to ensure the packets are replicated for observation.
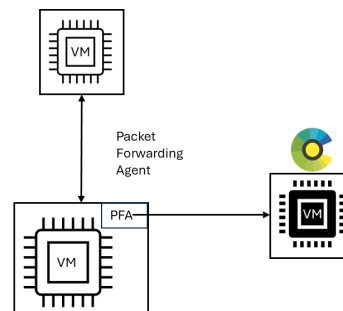
Many network packet broker solutions offer variations of the deployment models listed above. The Ne2ition platform is integrated with the broad NPB ecosystem to ensure sufficient access to the valuable packet payload.

Addressing Specific Challenges

Dynamic cloud environments present unique challenges, including rapid infrastructure changes and varied provider architectures. WireX Systems Ne2ition tackles these issues with:

- ■ **Consistent Monitoring:** Ne2ition ensures uninterrupted visibility regardless of changes in cloud provider tooling and environments, mitigating the risk of blind spots.

- ■ **Adaptive Technology:** Ne2ition dynamically adjusts to capture and analyze network traffic effectively, leveraging cloud-specific access points such as VTAPs and VNAs,

- ■ **Scalable Architecture:** Ne2ition accommodates growth and evolving security needs providing flexibility without compromising performance.

Competitive Advantages

The WireX Systems Ne2ition platform offers advanced packet analysis providing key advantages over competitors:

- ■ **Most Detailed Data:** By leveraging packet-level details, Ne2ition provides unmatched granularity for network visibility.

- ■ **Longest Retention Duration:** Ne2ition stores network data for up to 12 months, far surpassing typical industry standards.

- ■ **Seamless Multi-Cloud Integration:** Ne2ition offers truly consistent monitoring across diverse cloud infrastructures.

Key Use Cases

WireX Systems Ne2ition empowers security teams by addressing critical use cases:

1. **Direct Exploration of Network Activity:** Granular visibility into packet-payload content, offering the most detailed information in the market.

2. **Extended Data Retention:** Comprehensive forensic investigations and compliance reporting (up to 12 months).

3. **Monitor Data In-Flight:** Real-time monitoring ensures data integrity and policy compliance during transmission.

4. **Validate Network Policies:** Maintain alignment between actual network traffic and predefined security policies.

5. **Validate Organizational Policies:** Verify adherence to corporate guidelines, bolstering governance and accountability.

6. **Static File Analysis:** Gain insights into files traversing the network to identify potential threats.

7. **Detect Lateral Movement:** Track unauthorized movement within the network to prevent breaches from escalating.

8. **Behavioral Monitoring:** Analyze application and user behavior to detect deviations indicative of potential security risks.

9. **Open Access to Datasets:** Seamlessly integrate Ne2ition's datasets into SIEM or data lakes, facilitating broader analysis and collaboration.

10. **Automatic Investigation Engine:** Accelerate incident response with automated tools that analyze and contextualize security events.

Conclusion

WireX Systems Ne2ition redefines cloud security by providing the deepest packet analysis, longest data retention, and unparalleled flexibility across deployment models. By addressing the challenges of modern cloud infrastructures and delivering actionable insights, Ne2ition empowers organizations to enhance their security posture and ensure operational resilience in a rapidly evolving digital landscape.