Data centers have increasingly virtualized and partitioned, becoming more dynamic and accommodating on-the-fly deployment of new applications in private, public and hybrid clouds. As the IT environment becomes more open and less controlled, the threat landscape is evolving so fast with new threats, new techniques, new actors and new targets. Businesses need to protect their private, public or hybrid environments from an increasingly threatening backdrop within the cloud.

Today's cloud environments need a more flexible approach to deploying security that adapts to constant workload changes, additions and movements. Modern data centers need a solution for insertion of high-performance security platforms into the physical and logical topology using an open, programmable and integrated network framework.

Arista Networks™, the leading provider of cloud networking solutions, has unveiled a new Macro-Segmentation Service (MSS™) capability for CloudVision® that allows Check Point Next-Generation Firewalls to be deployed automatically in a cloudified data center. With CloudVision MSS, Arista provides automated service insertion for specific workloads and workflows across any network topology including layer-2, layer-3 and VXLAN overlay network virtualization frameworks without introducing proprietary network fabrics or protocols.

**SOLUTION**

With Check Point and Arista CloudVision MSS, Check Point's data center firewalls can be attached anywhere in the network on any Arista switch port. Traffic forwarding to and from the Check Point firewall is automatically routed through Arista’s non-blocking and loss-less IP fabric based on the policies defined in the firewall. This allows larger data-centers to centralize security devices in a service-rack and insert them in the path between any workloads or physical devices logically, on demand, while maintaining isolation between the administrative domains of the security and network operators..
A BETTER APPROACH TO SECURING CLOUD DATA CENTERS

By integrating with native APIs provided by Check Point data center firewalls, Arista MSS learns what workloads the security policy should address or monitor. If the security policy requires a specific logical network topology, the CloudVision Macro-Segmentation Service can instantiate that topology into the network IP fabric automatically. The automation capabilities of CloudVision MSS operate in real-time without any need for a network operator to engage a security administrator or vice-versa, and without the network needing to be architected in a manner specific to any workload. This capability is critical to successful deployment of security in an enterprise private or hybrid cloud.

Macro-Segmentation Service with Arista CloudVision is integral to Arista's non-blocking and loss-less IP fabric and Arista EOS software. With Check Point next-generation firewalls, CloudVision MSS enables flexible deployment of security in the network without forklift upgrades and without any proprietary lock-ins. MSS works in unison with server, storage, and network virtualization solutions from Check Point and Arista's partners including OpenStack, Microsoft and VMware. Macro-Segmentation Service complements the intelligence and functionality that these partners provide with enhanced deployment of physical workloads and security services to enable deployment of the complete cloudified data center.

ABOUT CHECK POINT

Check Point Software (www.checkpoint.com) is a leading provider of cyber security solutions to governments and corporate enterprises globally. Its solutions protect customers from cyber-attacks with an industry leading catch rate of malware, ransomware and other types of attacks. Check Point offers a multilevel security architecture that defends enterprises’ cloud, network and mobile device held information, plus the most comprehensive and intuitive one point of control security management system. Check Point protects over 100,000 organizations of all sizes.

ABOUT ARISTA

Arista Networks is an industry leader in software-driven cloud networking solutions for large data center and campus environments. Arista’s award-winning platforms deliver availability, agility, automation analytics and security through CloudVision ® and Arista EOS ®, an advanced network operating system. For more information visit www.arista.com.