CHECK POINT + IMVISION
SECURITY FOR TELCO CLOUD (NFV) AND HYBRID NETWORKS

Benefits

- Detects and enforces isolation and remediation of infected elements
- Data plane analysis and control enhances network security
- Increases detection with rule-based and behavioral analysis
- Broadens network security from perimeter to each Virtual Network Function (VNF)
- Expands detectable attack vectors with infrastructure-to-service aware behavioral analysis
- Expert knowledge and behavioral analysis algorithms decrease false alarm and missed detection ratios

INSIGHTS

Network Function Virtualization (NFV) offers significant advantages to Telco Service Providers, including: CAPEX and OPEX reduction, agility in provisioning and scaling network infrastructure, and ease of network services deployment. Unfortunately, NFV also introduces new security challenges:
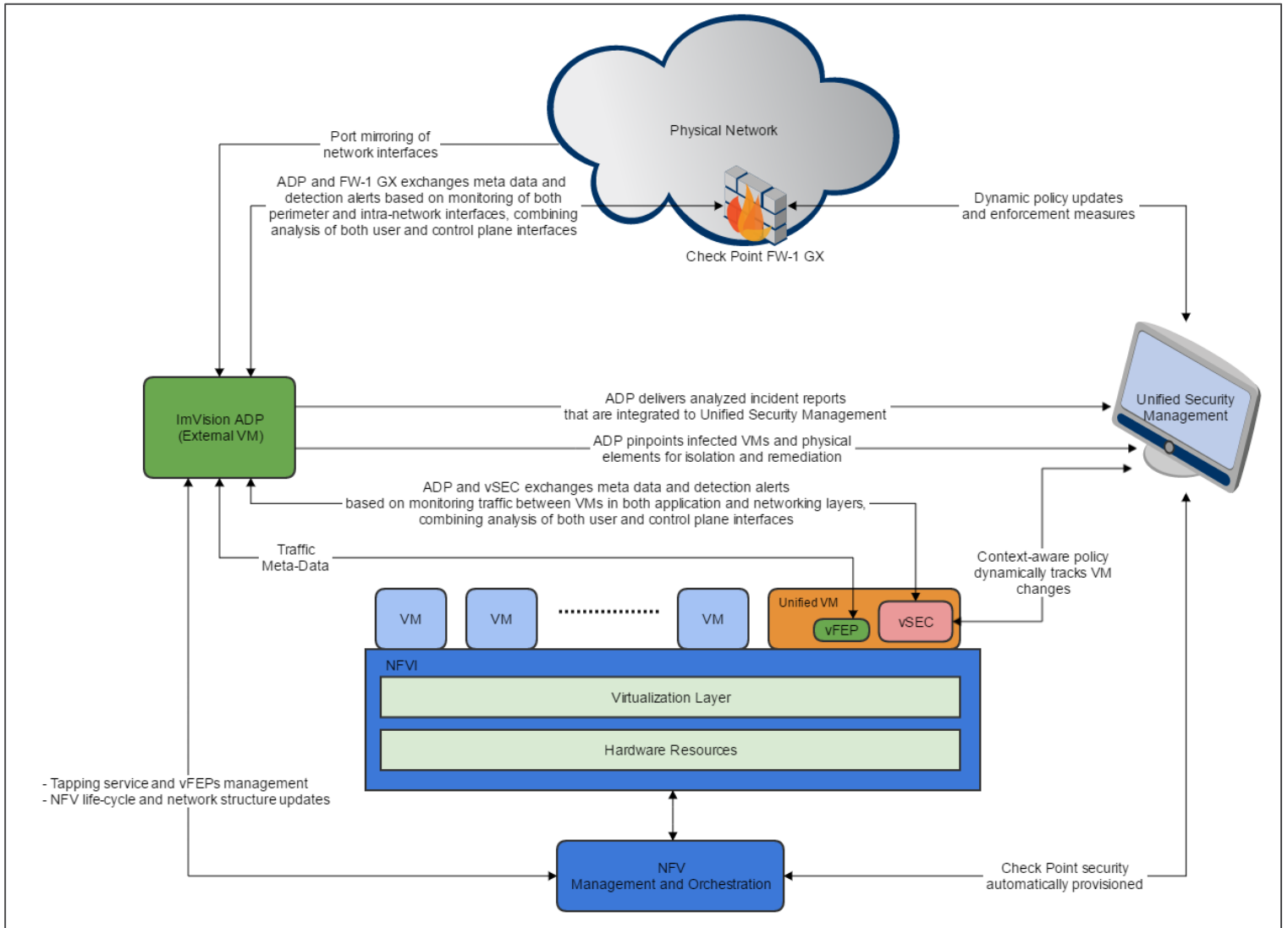
- Generic hardware and open source code increases cyber-threats vulnerability compared to proprietary hardware and software
- Reduced security due to control and data plane separation and decoupling of the services from the infrastructure
- De-composition of core functions, dynamic network configuration, and new protocols exposes the network to new threats
- The new orchestration and controls introduce new attack targets, affecting the entire network if compromised

TELCO CLOUD AND HYBRID NETWORK SECURITY

Check Point and the imVision Anomaly Detection Platform (ADP) secures Telco Cloud (NFV) and hybrid networks. This complete end-to-end cyber-threat detection and prevention spans from the perimeter to each VNF, and from the infrastructure to the application level.

Check Point vSEC offers a complete public and private cloud security portfolio that seamlessly extends security protections to any cloud environment, giving you the same confidence in your cloud that you have in your physical environment. Check Point Firewall-1 GX also provides General Packet Radio Service (GPRS) Tunneling Protocol security –blocking illegitimate traffic within GPRS (2.5G) and UMTS (3G) enabled wireless networks.

Integration of Check Point and imVision detects threats with expanded control and data plane analysis within these networks. imVision's Anomaly Detection Platform (ADP) identifies security anomalies in network services running in Telco cloud NFV or hybrid environments with service aware, correlative behavioral analysis (CBA) technology. Check Point vSEC and FireWall-1 GX data feeds to imVision ADP, improving its decision making process. Conversely, imVision sends critical interface data to Check Point vSEC and FireWall-1 GX, enhancing wireless and cloud network enforcement. In addition, ADP delivers analyzed incident reports to Check Point Unified Security Management. The end result: more efficient security administration, enhanced remediation capabilities, and improved network resilience.

Port mirroring of network interfaces

ADP and FW-1 GX exchanges meta data and detection alerts based on monitoring of both perimeter and intra-network interfaces, combining analysis of both user and control plane interfaces

Physical Network

Check Point FW-1 GX

Dynamic policy updates and enforcement measures

ImVision ADP (External VM)

Unified Security Management

ADP delivers analyzed incident reports that are integrated to Unified Security Management

ADP pinpoints infected VMs and physical elements for isolation and remediation

ADP and vSEC exchanges meta data and detection alerts based on monitoring traffic between VMs in both application and networking layers, combining analysis of both user and control plane interfaces

Traffic Meta-Data

Context-aware policy dynamically tracks VM changes

VM   VM   ·················   VM   Unified VM   vFEP   vSEC

NFVI

Virtualization Layer

Hardware Resources

- Tapping service and vFEPs management
- NFV life-cycle and network structure updates

NFV Management and Orchestration

Check Point security automatically provisioned

ABOUT CHECK POINT

Check Point Software Technologies Ltd. (www.checkpoint.com), is the largest pure-play security vendor globally, provides industry-leading solutions, and protects customers from cyberattacks with an unmatched catch rate of malware and other types of attacks. Check Point offers a complete security architecture defending enterprises' networks to mobile devices, in addition to the most comprehensive and intuitive security management. Check Point protects over 100,000 organizations of all sizes. At Check Point, we secure the future.

ABOUT IMVISION TECHNOLOGIES

imVision Technologies cutting edge solution is designed to identify and understand anomalies in Telco cloud or hybrid networks. The company is made up of a unique blend of Telecom and cyber security experts, and backed by leading Venture Capital firms. For more information, please visit us at www.imvisiontech.com.