



CHECK POINT VIRTUAL SYSTEMS

Check Point taps the power of virtualization to simplify security for private clouds

Looking for ways to reduce complexity and simplify network security in your private cloud? Need customized and finely tuned solutions to better protect your growing network needs? You are not alone. In fact, you are among the majority of today's IT professionals who are faced with the challenging task of managing complex securities in an ever growing and more demanding network environment.

The increasing complexity of network security and new threats combined with a slowing growth of IT budget drive the need for a solution that improves operational efficiency, optimizes security and lowers costs.

Network security consolidation has become a strategic trend for IT professionals to deliver more effective security at lower costs. By consolidating multiple security gateways in a single solution, both enterprises and service providers have the opportunity to optimize productivity and minimize the total cost of ownership (TCO).

Organizations can achieve an overall reduction in capital equipment costs (CapEx) as well as in operating costs (OpEx) by reducing the hardware investment and streamlining the management of securing large segmented networks and data centers. Service Providers have the opportunity to increase revenue by delivering new security services easily and efficiency to customers through their managed services.

OVERVIEW

Check Point Virtual Systems enable organizations to consolidate infrastructure by creating multiple virtualized security gateways on a single hardware device, delivering deep cost savings, seamless security and infrastructure consolidation. Based on proven virtualized security design and the extensible Software Blade Architecture, Virtual Systems provide best-in-class customized security protections to multiple networks and simplify enterprise-wide policy by creating tailored policies for each network.

Administrators can replicate conventional physical security gateways with Virtual Systems to deliver advanced protection to multiple networks and network segments. Up to 250 fully independent Virtual Systems can be supported on Check Point gateways or Open Servers, delivering scalability, availability and performance while dramatically reduce hardware investment, space requirements and maintenance costs.

KEY FEATURES

- Consolidate up to 250 gateways in a single device
- Software Blade Architecture
- GAIa 64-bit operating system
- Separation of management duties
- Customized security policies per Virtual System
- Per Virtual System Monitoring of resource usage
- Linear scalability of up to 8 clustered gateways with VSLS technology
- Simple one-click conversion from physical to virtual
- Supported on Check Point Appliances and Open Servers

KEY BENEFITS

- Easily add virtual systems to any security gateway
- Reduce hardware cost and simplified network policy by consolidating multiple gateways into a single device
- Stronger performance and manageability enable enterprises to better leverage their investment
- More granularity and greater manageability with customizable policies per Virtual System
- Better usage-based resource planning with per Virtual System monitoring
- Increased agility and more flexible infrastructure with linear scalability
- Boost performance with Multi-core CoreXL technology

SUPPORTED SOFTWARE BLADES

Firewall	✓
VPN	✓
Identity Awareness	✓
IPS	✓
Application Control	✓
URL Filtering	✓
Antivirus	✓
Anti-bot	✓
Mobile Access*	✓

* SSL VPN available in a future releases



The latest Check Point technologies ensure best performance for virtualized security; CoreXL technology utilizes multi-core processors to increase throughput, 64-bit GAiA OS provides over eight times more concurrent connections, and patented VLSL technology delivers unmatched performance scalability with up to 8 members per cluster.

PROVEN VIRTUAL SYSTEM TECHNOLOGY

For years, Check Point's Virtual Systems technology has been providing value and protection for enterprises and service providers. This proven technology enables organizations to segment their network while simplifying policy settings, consolidating multiple gateways into a hardware platform and providing savings on both capital equipment investments and going support and maintenance. The streamlined management of the virtualized gateways further improves the operational efficiency of a resource-challenged IT department.

SOFTWARE BLADE ARCHITECTURE SUPPORT

Supporting the latest Check Point Software Blade Architecture on every Virtual System, this solution delivers comprehensive protection to multiple networks. Administrators have the flexibility to configure any Software Blades with any security policy to any Virtual System.

CUSTOMIZABLE SECURITY POLICIES

Simplify complex network security policy with more granular and manageable one by creating tailored policies for each Virtual System. Customizing security policy base on requirements and minimizing the complexity create better security practice to meet the business needs.

STREAMLINED CENTRAL MANAGEMENT

Check Point *Security Management* and *Multi-Domain Security Management* solutions provide an effective tool for the administration of the Virtual Systems. Dedicated Virtual Systems for Web Security, Threat Prevention, Firewall, and Remote access enable separation of IT duties. Separate management per Virtual Systems and data segregation support cloud based security-as-a-service needs.

INTEGRATED VIRTUAL ROUTERS AND SWITCHES

Complete virtualization of network infrastructure allows easy deployment and configuration of network topology with simpler inter-VS communication. Save the costs of external network routers and switches. The integrated virtual routers, switches and links direct traffics to their intended destinations with higher efficiency.

HIGH PERFORMANCE

Along with the latest technology and the 64-bit GAiA OS, performance boosts for virtualized security deployments. Up to eight times more concurrent connection capacity, multi-gigabit-per-second performance for firewall and IPS throughputs are just a few examples of the outstanding performance enhancements these Virtual Systems will have. Check Point CoreXL technology utilizes today's gateways' multi-core processors to accelerate traffic and increase throughput.

LINEAR SCALABILITY

Today's networks require flexibility and expandability to support the fast-evolving business needs. To meet this demanding business environment, Virtual Systems can be deployed on multiple gateways using high-performance Check Point technologies, ensuring secure, resilient, multi-gigabit throughput. Virtual Systems leverage the following features and technologies to maximize performance, capacity and system scalability:

Virtual System Load Sharing (VLSL) distributes traffic load within a cluster, providing the ability to distribute virtual systems across multiple cluster members, without requiring any change to existing topology. Every addition of a cluster member effectively spreads the virtual system traffic load within the cluster, providing the benefits of throughput, concurrent connections, redundancy, cost efficiency, configuration simplicity, priority designation, and system scalability.

PER-VS RESOURCE MONITORING

Need to understand how your Virtual Systems are used to better plan your security resources or to create billable customer services?

Granular resource monitoring of CPU and Memory for each Virtual System gives you the necessary insights to effectively plan for your network security resources, or to provide usage-based services to your customers.

Resource Control allows administrators to manage the processing load by guaranteeing that each virtual system will receive only the memory and CPU allocation it needs to deliver its functions. Resources not needed by one virtual system are automatically made available to other virtual systems. Administrators can also limit the CPU resource available to a lower-priority virtual system and assign more resources to mission-critical virtual systems.

EASY ONE-CLICK CONVERSION

Enabling Virtual Systems from a physical system is simple and fast with a single click to launch the *Virtual System Conversion Wizard*.

