The Chinese University of Hong Kong (CUHK)
Customer Testimonial | Check Point Security Gateway Virtual Edition (VE)

QUICK FACTS

**Customer Profile**
- Established in 1963, The Chinese University of Hong Kong (CUHK) is a comprehensive research-led university delivering high-quality education on both undergraduate and postgraduate levels and serving the community with cutting-edge research.
- With nine colleges and eight faculties, CUHK currently has 20,000 undergraduate and postgraduate students, as well as some 7,400 teaching and administrative staff.

**Industry**
- Education

**Business Challenges**
- Handle massive loads of data traffic across the CUHK campus network
- Virtualize and secure the data center to centralize and consolidate IT resources, reduce costs, and save physical space
- Evolve security protection to keep pace with CUHK’s virtualization strategy

**Check Point Solutions**
- Check Point Security Gateway Virtual Edition (VE)

**ROI**
- “With Check Point, we are able to manage both our physical and virtual security solutions from a single management console, further extending our security investment and enabling us to achieve a high ROI.”
  - Mr. C.H. Cheng, Associate Director, Infrastructure, Chinese University of Hong Kong.

CUHK is well known as technology pioneer within Hong Kong’s academic sector. With its datacenter growing exponentially, the university turned to virtualization to optimize its server and network resources, as well as reduce costs and data center real estate. However, data center virtualization comes with its own challenges, especially when it concerns security as legacy tools often do not provide the control and visibility needed to extend protection within virtual environments.

- Deliver security in a dynamic environment with all vMotion being monitored and the virtual server policy remaining intact
- Inspect all traffic between various virtual machines
- Immediately and automatically apply protection when new virtual machines are created
- Provide central administration to reduce management complexities

**Selection Criteria**
- Highly granular protection
- High performance, low latency inspection
- Compatibility with existing systems
- Scalability to provide additional protections for emerging threats
- Ease of use and simplified management

“Our virtual data center supports a massive campus network, which is crucial to teaching and research excellence. Check Point VE delivers comprehensive security, protecting us from external threats as well as those propagating from inter-VM traffic.”

– Mr. C.H. Cheng, Associate Director, Infrastructure, Chinese University of Hong Kong

“Our data center is evolving into a fully-fledged virtualized private cloud environment. Check Point VE helps us to efficiently secure and protect our dynamic environment from a broad range of existing and emerging threats”

– Mr. C.H. Cheng, Associate Director, Infrastructure, Chinese University of Hong Kong
The Chinese University of Hong Kong (CUHK)

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THE CHECK POINT SOLUTION

1 Comprehensive virtual machine security
To provide complete security for its virtualized environment, CUHK leverages the Check Point Security Gateway Virtual Edition (VE) in hypervisor mode. The VE solution maximizes security during migration and creation of VMs or maintenance activities and provides CUHK with immediate protection to enforce policies within its dynamic virtual environment. Additionally with integrated IPS, the solution inspects inter-VM traffic at the hypervisor level protecting the university’s virtual environment from both external and internal threats.

2 Easy-to-manage and deploy
Check Point Security Gateway VE is managed from the same security management console as other Check Point products, enabling CUHK to leverage its existing Check Point Management solution to provide unified control. This enables consistency in the creation, distribution and management of security policies across the entire IT environment, both virtualized and physical, further simplifying management, reducing costs, and streamlining processes.

3 Software Blade Architecture Provides Robust and Flexible Protection
The Check Point Security Gateway VE is built on Check Point’s Software Blade Architecture enabling flexible and comprehensive protection. This enables CUHK to deliver modular security components based on its specific needs with a wide range of benefits while giving it the ability to add future Software Blades as its security requirements evolve.

CHECK POINT BENEFITS

- Complete virtual machine security for dynamic virtualized environments
  - Includes Firewall, IPS, VPN, Anti-virus, Anti-spam, URL Filtering, and Web security
  - Virtual Machine (VM) deployment requires no network changes
  - New VMs are protected with automatic security policy enforcement

- Simplified, unified management; efficient compliance
  - Single management interface for physical and virtualized environments
  - Tailored reporting to accelerate auditing and achieve compliance
  - Preserve security with zero downtime during virtual machine live migration

- Extensible, on-demand security via Software Blade Architecture
  - Protect against emerging threats with optional Software Blades
  - Extensible solution includes IPS and Web security at the hypervisor level

SUMMARY

“With a number of Software Blades at our disposal, we have the flexibility to tailor the solution to our specific needs.”

- Comprehensive security • easy-to-manage • scalability
  - Complete security for dynamic virtualized environments
  - Simplified central management
  - Flexible and scalable