INTRODUCING:
KASPERSKY SECURITY FOR VIRTUALIZATION | LIGHT AGENT
WHAT IS VIRTUALIZATION SUPPOSED TO BRING?

- Reduced IT costs
- Faster disaster recovery
- OS migrations
- Centralized HW management
- Stability
- Data security
VIRTUALIZATION BENEFITS

- Operational efficiency
- Cost containment
- Speed to solution
- Performance
- Stability
- Centralized management
- What about security?
SECURITY IN VIRTUAL ENVIRONMENTS: TRUE OR FALSE?

**FALSE**

VIRTUAL ENVIRONMENTS ARE MORE SECURE THAN PHYSICAL ENVIRONMENTS

‘IN 2012, 60% OF VIRTUALIZED SERVERS WILL BE LESS SECURE THAN THE PHYSICAL SERVERS THEY REPLACE’ Gartner

**FALSE**

CYBERCRIMINALS DON’T TARGET VIRTUAL MACHINES

MORCUT (AKA CRISIS), THE FIRST TROJAN TARGETING VIRTUAL MACHINES, WAS IDENTIFIED IN 2012

**FALSE**

MALWARE CAN’T SURVIVE THE DECOMMISSIONING OF NON-PERSISTENT VIRTUAL MACHINES

RESIDENT MALWARE CAN
VIRTUAL SECURITY – UNDERSTANDING THE OPTIONS

- TRADITIONAL (Agent-Based) - GREAT PROTECTION /INEFFICIENT IMPLEMENTATION
- LIGHT AGENT - FEATURE-RICH SECURITY

- AGENTLESS - EASY TO DEPLOY/MANAGE FOR VMWARE

- NO SECURITY - NOT AN OPTION!
NO PROTECTION – NOT AN OPTION

VIRTUAL INFECTION AND SPREAD

VIRTUAL EAVESDROPPING

TARGET OF CYBERCRIMINALS

MALWARE CAN SURVIVE “TEAR-DOWN” OF NON-PERSISTENT MACHINES
TRADITIONAL, AGENT-BASED SECURITY
A full version of security software is loaded on each virtual machine

- Inefficient Resource Use:
  - Redundant, full agents
  - Redundant Signature Databases

- Results in:
  - Excessive resource consumption
  - Update storms
  - Instant-on gaps
  - Lower VM densities

Denotes an instance of security software
AGENTLESS SECURITY
One Security Virtual Appliance per host performs malware scanning

➤ Efficient:
➤ Installed and operational in under an hour
➤ No re-boot or maintenance mode required

➤ Eliminates:
➤ Excessive resource consumption
➤ Update and scan storms
➤ Instant-on gaps

➤ Results in:
➤ Higher VM Densities
BUT AGENTLESS HAS LIMITATIONS…

NOT AN OPTION FOR CITRIX OR MICROSOFT

BASIC FILE-LEVEL PROTECTION ONLY
AGENTLESS (VMWARE-ONLY) DOES NOT ACCOUNT FOR 42% OF THE MARKET

47%  24%  18%
THE ANSWER - LIGHT AGENT SECURITY
A Security Virtual Appliance plus a lightweight security agent on each VM

- Includes advanced security features:
  - Vulnerability monitoring
  - Application control
  - Web control
  - Device control
  - Advanced heuristics
  - Protection for IM, mail and web traffic

- Eliminates:
  - Excessive resource consumption
  - Update and scan storms
  - Instant-on gaps
THE LIGHT AGENT APPROACH

- **Optimized Performance through Tight Hypervisor Integration**

- **Light Agent Allows In-Depth Individual Machine Scanning for Maximum Protection**

- **Separate Dedicated Security Virtual Machine Handles the Heavy Work.**

- **Virtual, Physical and Mobile - Managed through a Single Console**

- **Highly Scalable from SMB to Large Enterprise Organizations**
AWARD-WINNING ANTI-MALWARE ENGINE

REAL-TIME RESPONSE TO ZERO-DAY THREATS - KASPERSKY SECURITY NETWORK CLOUD-BASED INTELLIGENCE

DEEP-LEVEL SCANNING AT INDIVIDUAL MACHINE LEVEL, PROTECTING AGAINST THE MOST ADVANCED MALWARE

PROACTIVE DEFENSE INCLUDING AUTOMATIC EXPLOIT PREVENTION
WITH LIGHT AGENT… NETWORK LEVEL PROTECTION

FEATURES HOST-BASED INTRUSION PROVENSION SYSTEM (HIPS) AND FIREWALL

NETWORK ATTACK BLOCKER IDENTIFIES AND Responds TO SUSPICIOUS TRAFFIC BEHAVIOUR

IDENTIFIES AND BLOCKS LINKS TO PHISHING SITES
WITH LIGHT AGENT…CONTROLS

WEB CONTROL

APPLICATION CONTROL

DEVICE CONTROL
MANAGEMENT - KASPERSKY SECURITY CENTER

SINGLE INTUITIVE CONSOLE

PHYSICAL, VIRTUAL AND MOBILE ENVIRONMENT MANAGED TOGETHER

COMBINED VIRTUAL AND PHYSICAL MACHINE ADMINISTRATION AND REPORTING

‘SINGLE-PANE” APPROACH CREATES EFFICIENCY & SAVINGS FOR STRETCHED IT RESOURCES

SCALABLE TO THE MOST COMPLEX ENTERPRISE ENVIRONMENTS
FLEXIBLE LICENSING

CHOOSE BETWEEN “PER-MACHINE” OR “PER-CORE”

‘PER MACHINE’ – BASED ON MAXIMUM NUMBER OF ACTIVATED VIRTUAL MACHINES RUNNING CONCURRENTLY

‘PER CORE’ – COVERS ALL HARDWARE CORES ACROSS THE ORGANIZATION /DATA CENTER.

‘PER CORE’ - IDEAL FOR INFRASTRUCTURE AS A SERVICE (IAAS), WHERE VM COUNT FLUCTUATES

A SINGLE LICENCE COVERS BOTH HYPER-V, XEN AND VMWARE (AGENTLESS) PLATFORMS
Summary

- We can now protect the top 3 virtualization provider platforms

- Light Agent introduces powerful new anti-malware features, as well as control components, allowing corporate policies to be enforced

- Multi-layered security technologies safeguard the virtual environment and corporate assets
KSV | LIGHT AGENT IS:

- SIMPLIFIED MANAGEMENT
- PERFORMANCE
- ADVANCED FILE LEVEL PROTECTION
- NETWORK PROTECTION
- VIRTUAL MACHINE CONTROLS
QUESTIONS?