



Intel Botnet Detection and Remediation techniques

David Brockmyer, Intel IT Information Security
May 30, 2012

IT@Intel

Legal Notices

Intel and the Intel logo are trademarks of Intel Corporation in the U.S. and/or other countries.

* Other names and brands may be claimed as the property of others.

Copyright © 2012, Intel Corporation. All rights reserved.

Intel IT Vital Statistics



6,400 IT employees

54 global sites

91,500 Intel employees⁺

164 sites, 62 countries

87 Data Centers

~75,000 servers

>142,000 Devices

>109K PCs (80%+ mobile)

>33,000 Handhelds (58% BYO)



Consumerization of IT

Consumerization: the increasing influence that our technology experiences in our personal lives, both hardware and applications, have on the technology that we expect to use at work.

Mobile Business PCs

Managed Standard

- 2-4yr refresh
- <24 month avg.
- SSDs as standard
- BYO models in pilot



Personal Companion Devices

- >29k devices, 58% personal
- Broadening list of apps/services
- Abstracting data & apps from devices



Social Media

- Internal & external collaboration tool
- 23% employees contribute internally
- Connecting customers globally



Video Collaboration

- Integrated range of solutions from large room to PCs
- >600 conferences per week
- \$73M avoided in travel in 2011



User Systems

Internet Consumption

Mail Gateway

Proxy

Botnet
Detection

Networks

Netflow

NIDS

Botnet
Detection

Log Monitoring

Systems

AV

HIPS

Encrypt

Web Presence

Internet Delivery

WAF

3-Tier Arch.

Platforms

Vuln Scans

Testing

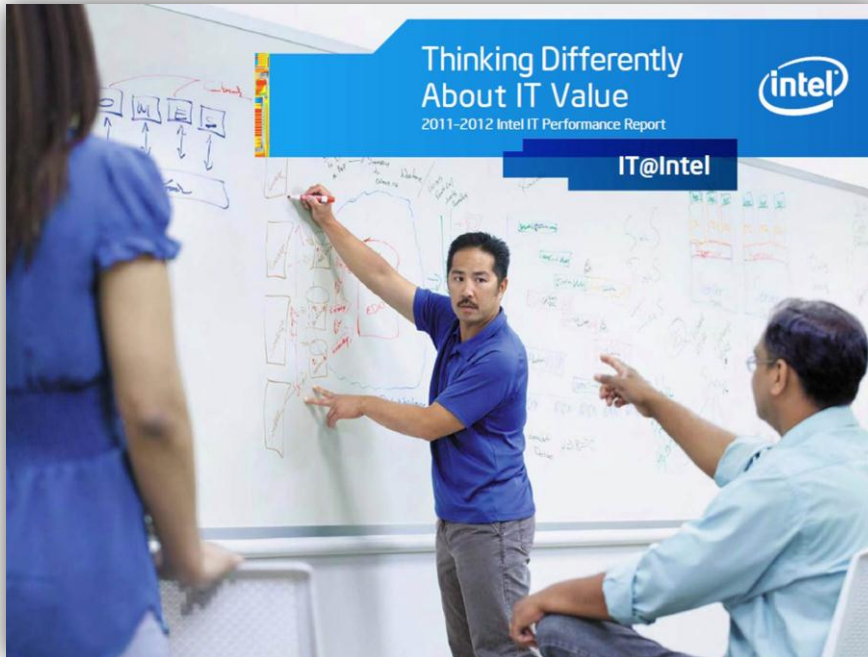
Systems

AV

HIPS

Log Monitoring

Sharing Intel IT Best Practices with the World



IT@Intel White Paper
IT Best Practices
Employee Productivity and IT Innovation
January 2011

Enabling Global Collaboration with Intel®-based Infrastructure

Executive Overview
With access to advanced collaboration tools deployed on Intel®-based infrastructure, Intel employees can easily and instantaneously share data, brainstorm new ideas, and work safely and collaboratively with team members and Intel business partners around the world.

The collaboration tools we support are complex, those that assist in general productivity, and those that support collaboration. Productivity tools include team messaging, file, and collaboration. Social tools include tools to create and publish content, including reports, utilizing documents and social media. Internal and external collaboration tools are listed below.

- **Enhanced employee productivity** through content sharing, unified ability to access, create, locate and follow team working links
- **Increased agility** (collaborative) enables employees to connect and interact in real time across the globe, in the office, and across time-zones, reducing time to get results by while increasing staff
- **Optimize job satisfaction**, team spirit that being able to connect

Phillip Jambon
Globalization Product Line Manager
Intel IT

Catherine Spence
Marketing Director
Intel IT

Daphne Wilson
Manufacturing Support Manager
Intel IT

IT@Intel White Paper
New Information Technology
Data Center Efficiency
September 2008

Intel IT Data Center Solutions: Strategies to Improve Efficiency

Executive Overview
Our long-term data center planning process will help us realize an estimated USD 1 billion in savings while enabling the ability to respond faster to business needs.

Over time, Intel IT has evolved our strategies to optimize our data center infrastructure to respond faster to business needs while enhancing the services and value it brings to the business. Our new data center strategies shift the emphasis away from reducing the number of physical data center facilities vs. virtual, focusing on approaches that leverage the full potential of our data centers worldwide. This helps increase business value across the entire data center infrastructure. We expect our research to achieve a combined cost savings of about USD 1 billion by 2014.

Our approach centers on three strategies: optimization, virtualization, and energy procurement. The key elements of these strategies include:

- Accelerating our effort to take advantage of performance and power efficiency improvements.
- Consolidating and virtualizing our server resources.
- Utilizing facilities to improve facilities utilization and energy efficiency.
- Acting quickly to realize immediate energy savings through energy management.
- Leveraging new data centers in aggregation sites where possible.
- Evolving new server, server rack, and facility utility.

Our long-term planning process will help us optimize our business efficiency across the data center environment as well as support faster business decision-making and enhance the services and value that IT brings to the business.

© 2008 Intel Corporation. All rights reserved. Intel Confidential. www.intel.com/IT

Learn More About Intel IT's Initiatives at www.intel.com/IT



Thank You

