



Securing Your Web World

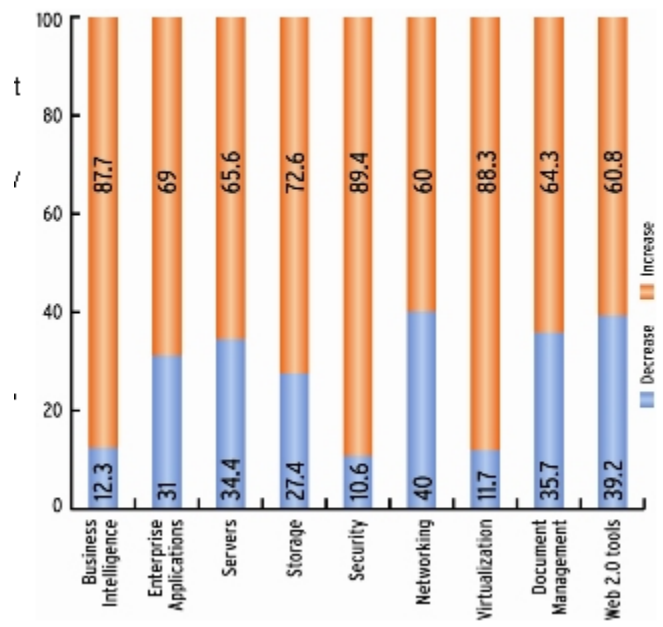


Securing Your Evolving Data Center “ A paradigm shift for Banking Industry “

Deepak Talwar • Technical Sales Consultant - India & SAARC

Adoption Rate in IT Infrastructure – Lets Look at 2009-2010

Figure 2: Technology investments in 2010



Information week 2009
Infrastructure Agenda Survey

- ❖ IT budgets will continue to be under the scanner as before in 2010.
- ❖ Most CXO's feel that 2010 will belong to **cloud computing**.
- ❖ Server virtualization will have much more relevance in 2010 .
- ❖ Green IT is one of the topmost IT spending priorities for CIOs in banking and finance
- ❖ The BFSI , IT services market in India is expected to boost its IT spending from US\$1.6 billion in 2009 to US\$2.7 billion in 2013, growing at a compound annual growth rate (CAGR) of 14.2%.
- ❖ 60 percent of virtualized servers will be less secure than physical servers: Gartner

News Articles Jan 2010 - Mar 2010

Ref: Express Computer , Search CIO , Springboard Research's



The Evolving Datacenter

Lowering Costs, Increasing Flexibility

Physical



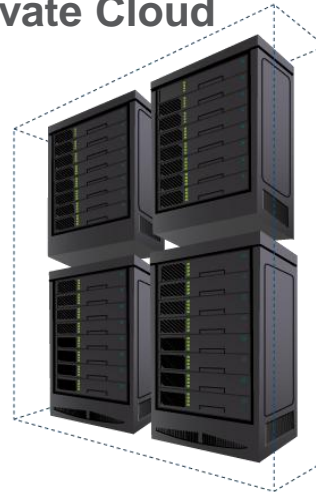
Traditional
datacenter

Virtual



Servers virtualized with
minimal changes to
datacenter processes

Private Cloud



Servers virtualized in
scalable, shared,
automated & elastic
environment

Public Cloud



Select enterprise
applications in
public cloud

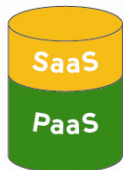
**Datacenters evolving to drive down costs and
increase business flexibility**

Public Cloud Service Models



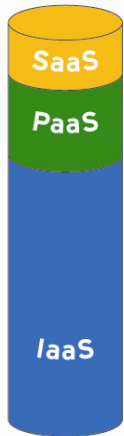
Software as a Service (SaaS)

- Use provider's application over the Internet
- Proprietary infrastructure



Platform as a Service (PaaS)

- Deploy enterprise-created applications to a cloud
- Proprietary infrastructure



Infrastructure as a Service (IaaS)

- Rent processing, storage, network capacity, and other fundamental computing resources
- Full access to infrastructure stack with basic security services (Firewall, Load Balancers etc.)



Based on National Institutes of Standards & Technology (NIST) definitions - <http://csrc.nist.gov/groups/SNS/cloud-computing/>

Cloud Computing Compromises



Jan 2010: Google Gmail **hacked** by attacks originating in China (*Financial Times*)



Oct 2009: Amazon EC2 customer Bitbucket taken offline by Distributed Denial of Service attack (*The Register*)



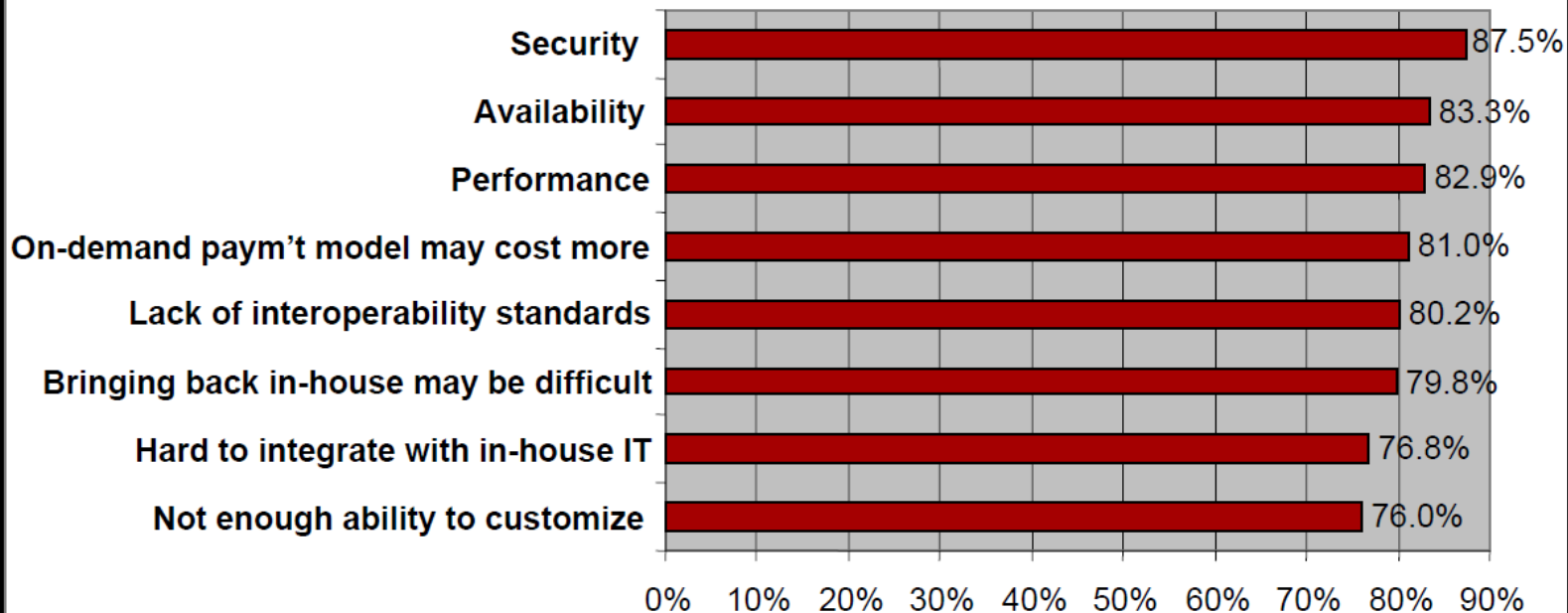
Oct 2007: Salesforce.com security breached. Repeatedly **hacked** (*Washington Post*)

Enterprise security challenges continue in the cloud

“By far, the number one concern about cloud services is *security*.”

-- Frank Gens, IDC, Senior VP & Chief Analyst

Q: Rate the *challenges/issues* of the 'cloud'/on-demand model



(Scale: 1 = Not at all concerned 5 = Very concerned)

Source: IDC Enterprise Panel, 3Q09, n = 263, September 2009

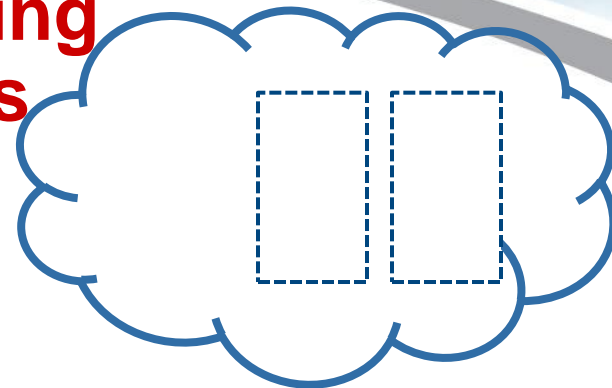
Problem

“Outside-in” approach and rapid virtualization have created less secure application environments

Through 2012, 60% of virtualized servers will be less secure than the physical servers they replace.

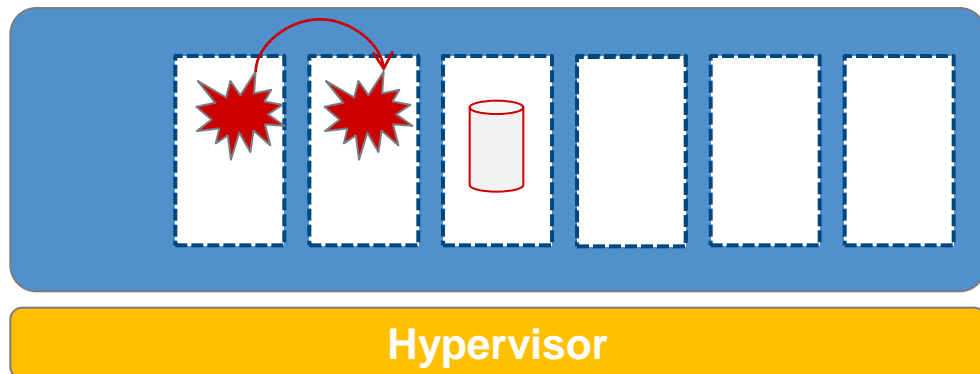
“Addressing the Most Common Security Risks in Data Center Virtualization Projects” Gartner, 25 January 2010

New Framework – Virtualization & Cloud Computing Create New Security Challenges



Inter-VM
attacks

PCI Mobility Cloud Computing

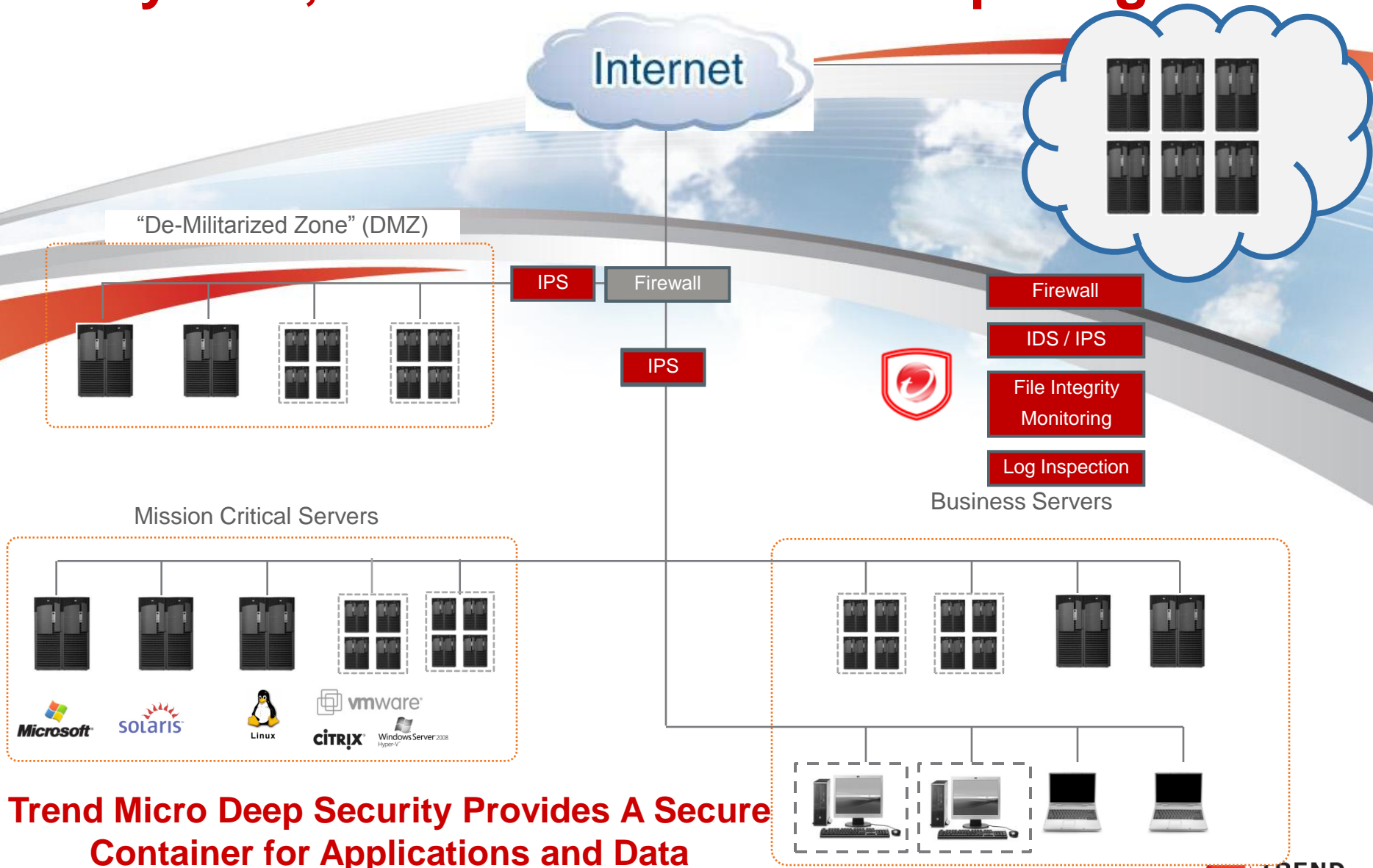


New Challenges Require a New Security Architecture

New Security Challenges Require New Thinking for Banking Institution



“Inside-out” Protection Model for Physical, Virtual and Cloud Computing



Trend Micro Deep Security Provides A Secure Container for Applications and Data

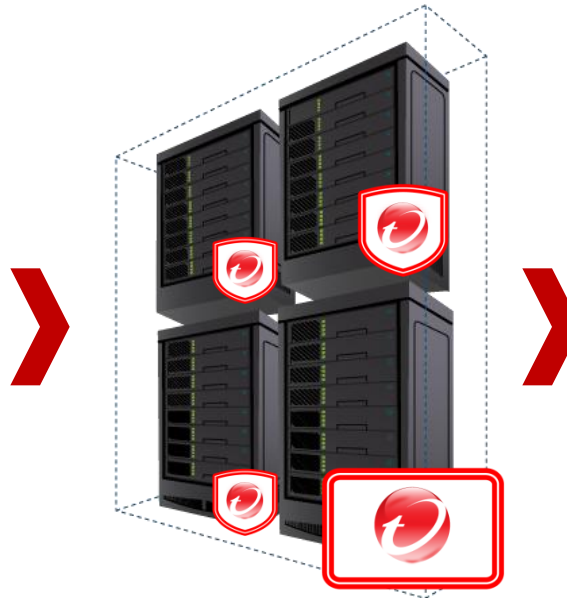
What is Deep Security?

Server & application protection for:

PHYSICAL



VIRTUAL



CLOUD



Deep Packet Inspection

IDS / IPS

Web App.
Protection

Application
Control

Firewall

Integrity
Monitoring

Log
Inspection

Malware
Protection



Trend Micro Security for the Public Cloud

**Software
as a Service
(SaaS)**

**Platform as a
Service (PaaS)**

**Infrastructure
as a Service (IaaS)**

Trend Micro Offerings

HouseCall, InterScan Hosted Messaging Service (IMHS), Email Encryption, Email Reputation Services (ERS)

Deep Security, Core Protection for Virtual Machines

Deep Security, Core Protection for Virtual Machines



Thank You