Securing Your Journey to the Cloud

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Attacks on the AV Industry

80% of Threats come from the Web

Data source: TrendLabs

NEW Threat Every 1.5 Seconds

Source: AV-est.org, Nov’09
Data Needs Protection Anytime - Anywhere

• In Private and Public Cloud
  – Primary customer concerns for cloud adoption: Security, Availability, Vendor Viability, Maturity
    • Risk from shared networks, storage, physical and virtual servers, security, applications
    • Issues with control of your data, unknown companies within your environment
  – 2010 Global Cloud Services Revenue $68.3bil – 16.6% growth from 2009, 2014 projected growth to $148.8bil

• Where Data is Viewed, Processed and Stored
  – New Devices – smart phones, tablets, specialized hand helds
  – Physical and virtual servers
  – Local storage systems

Gartner – June 2010
Challenges for Public Cloud: The Private Security Answer

- **Shared Firewall**
  - Shared network inside the firewall
  - Doesn’t matter – treat the LAN as public

- **Virtual Servers**
  - Easily copied machine images – who else has your server?
  - Doesn’t matter – They can start my server but only I can unlock my data

- **Shared Storage**
  - Shared storage – is customer segmentation secure against attack?
  - Doesn’t matter – My data is encrypted

- **Multiple customers on one physical server**
  - Potential for attacks via the hypervisor
  - Doesn’t matter – the edge of my virtual machine is protected

- **Shared Firewall**
  - Shared firewall – Lowest common denominator – less fine grained control
  - Doesn’t matter – treat the LAN as public
Where is Your Data Going?

Hey AT&T customers: Your Facebook data went to China and S. Korea this morning...

March 22nd, 2011 by Barrett Lyon

Quietly this morning customers of AT&T browsing Facebook did so by way of China then Korea. Typically AT&T customers’ data would have routed over the AT&T network directly to Facebook’s network provider but due to a routing mistake their private data went first to Chinanet then via Chinanet to SK Broadband in South Korea, then to Facebook. This means that anything you looked at via Facebook without encryption was exposed to anyone operating Chinanet, which has a very suspect Modus operandi.
Using the Cloud for Smarter Security
Trend Micro Smart Protection Network

Threats
- WWW
- WEB THREATS
- SPYWARE
- RISKS
- EMAIL
- MALWARE

Threat Collection

WEB REPUTATION

FILE REPUTATION

EMAIL REPUTATION

Correlation & Feedback

Partners
- ISPs
- Routers
- Etc.

Off Network

Management

SaaS/Managed

Cloud

Endpoint

Gateway

Messaging

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Thank You!

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