

The background of the slide features a stylized globe with a network of white lines connecting various points across the continents. The globe is rendered in shades of blue and white. Overlaid on the right side of the globe is a semi-transparent grey rectangular area containing the names of various cities and countries in a light blue, sans-serif font. The cities listed include Bogotá, Austria, Buenos Aires, Ireland, Norway, Switzerland, Perú, New York, Denver, The Netherlands, Frankfurt, Romania, Amsterdam, France, Slovenia, Beijing, Brissel, Croatia, Poland, Spain, and Sao Paulo. The text is arranged in a somewhat chaotic but readable manner, suggesting global connectivity.

Preparing for the Future of the Internet: Performance and Security Matter

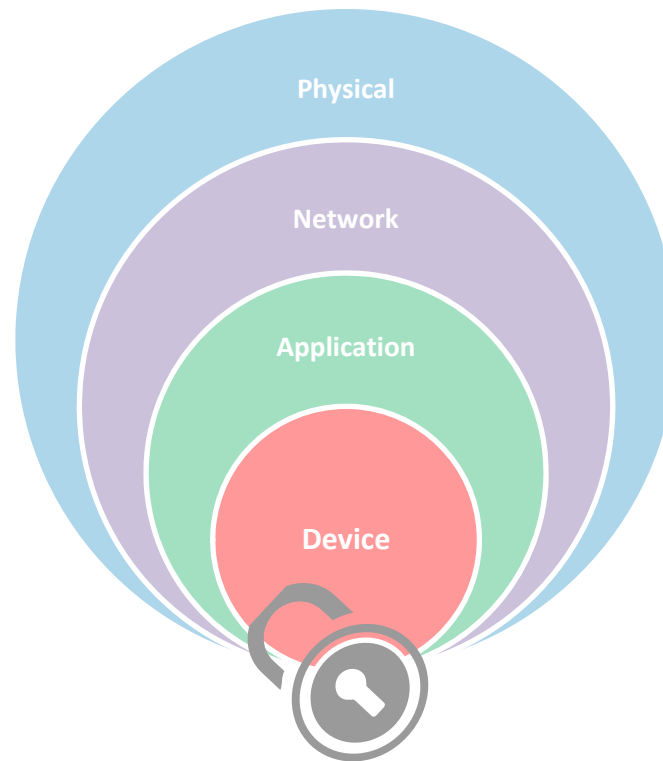
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Level 3 Communications

March 18, 2016

Availability

Performance

Defense-In-Depth

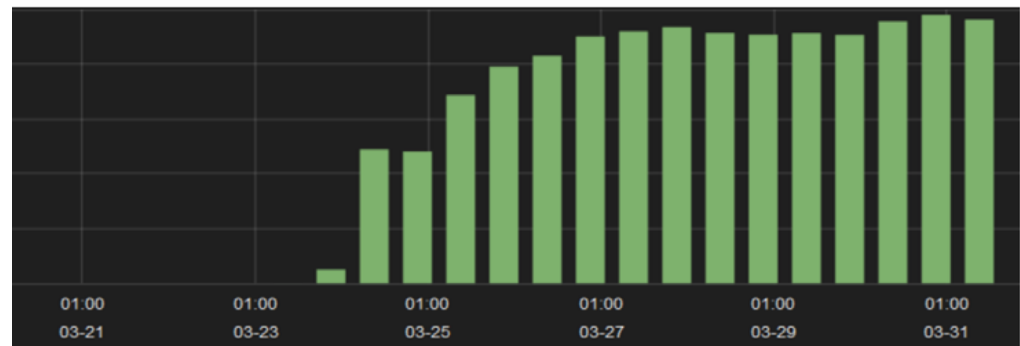
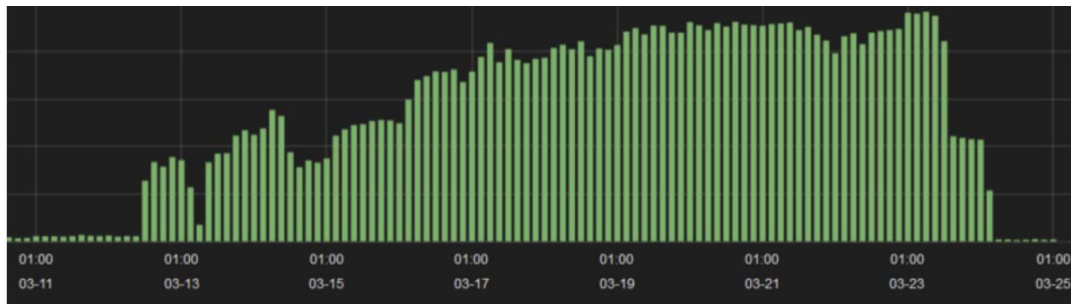


Layered Security Model

Teamwork of Security Vendor, NEP, Carrier and More

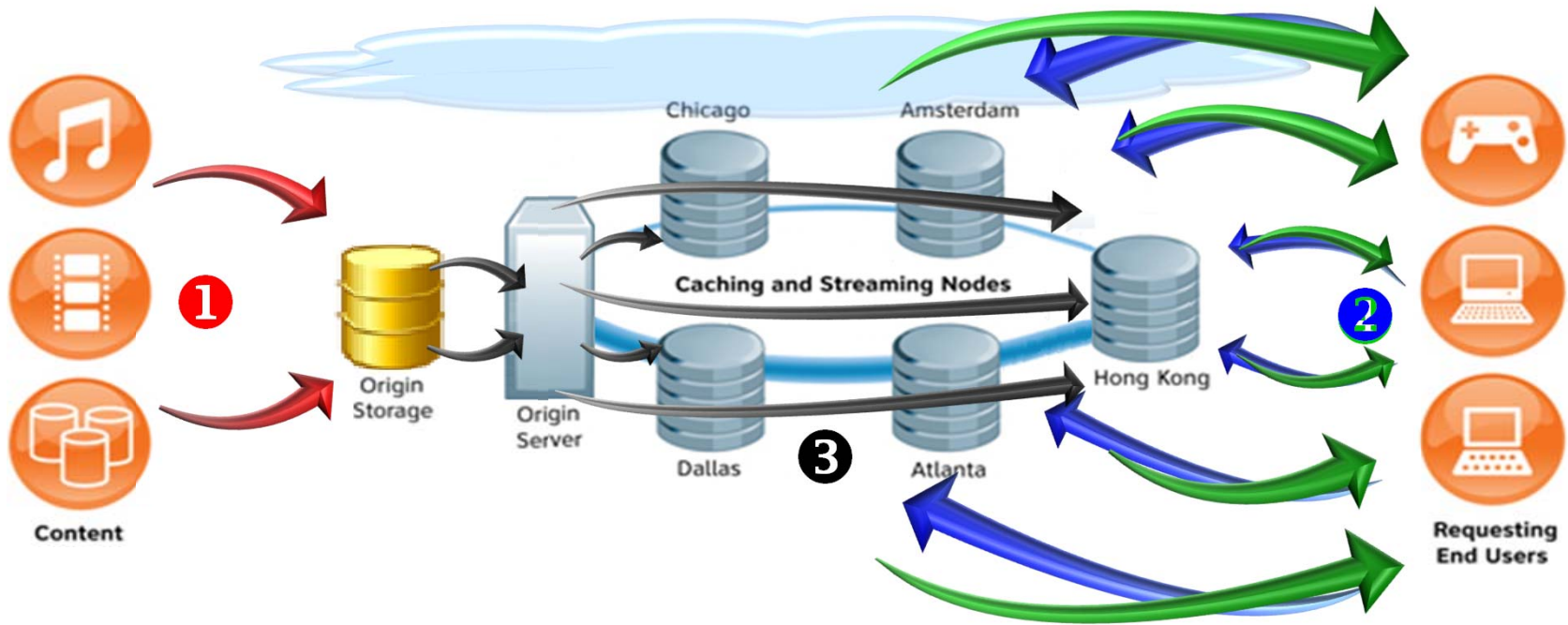


Point of Sale Malware: PoSeidon Use Case



Source: Level 3sm Threat Research Labs, May, 2015

Content Delivery Network



HTTP 2 – the Future is Now

http/2

- More Secured
- Performance
 - More compact and less error-prone
 - Fully multiplexed, instead of ordered and blocking
 - Fewer TCP Connects and SSL Handshakes
 - Header compression to reduce overhead
 - Allows servers to “push” responses proactively into client caches



Bogotá Austria Buenos Aires
Ireland Norway
Switzerland Perú
The Netherlands Denver
Romania Frankfurt
France Amsterdam
Slovenia
Brussels Beijing Brasil
Croatia Poland
Spain Sao Paulo
St. Gallen
Singapore Finland Slovakia
Bulgaria
Finland Tokyo
Republic of the Netherlands Los Angeles

Thank you!