RSA°C Studio

SSLammed, SSLayed and SSLapped Around - Why Hackers Love SSL



Grant Asplund

Director of Evangelism
Blue Coat Systems
@gasplund







In Our Labs

- Annual
 - +246.25 Billion Requests HTTP Down 3% to 83%
 - +39 Billion Requests HTTPS Up 5% to 14%
- Daily
 - Up to 750M Domain or IP Address rating requests HITTP
 - Up to 110M Domain or IP Address ratings requests HTTPS
 - 30K Unique/Unknown Executable Applications Contained HTTPS

In Our Labs - Typical Seven Days...

- Top 50 Sites Visited 69% HTTPS
- ▼ Top 10 Most Visited Sites = 100% HTTPS
- 1.1M Sites Classified Potentially Unwanted Software
 - 24% Enterprise Users 76% Consumer Users
 - Most Use Port 443 Legitimately Purchased SSL Certificates
- > +40,000 Requests Newly-Classified Malicious HTTPS Sites
- 100,000 Requests to Command and Control HTTPS Sites
 - Typically Already Infected 35% from Enterprise Users

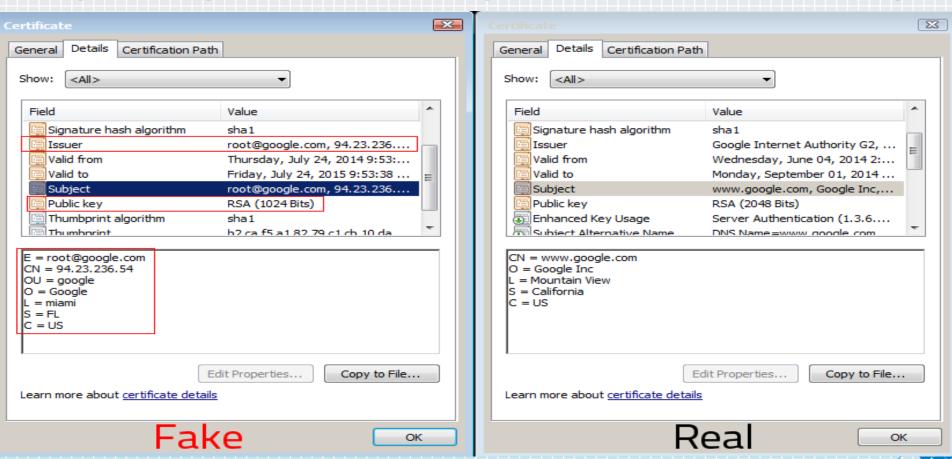


Over a seven-day period, the ten most commonly used port numbers for SSL traffic to servers classified as "botnet command and control"

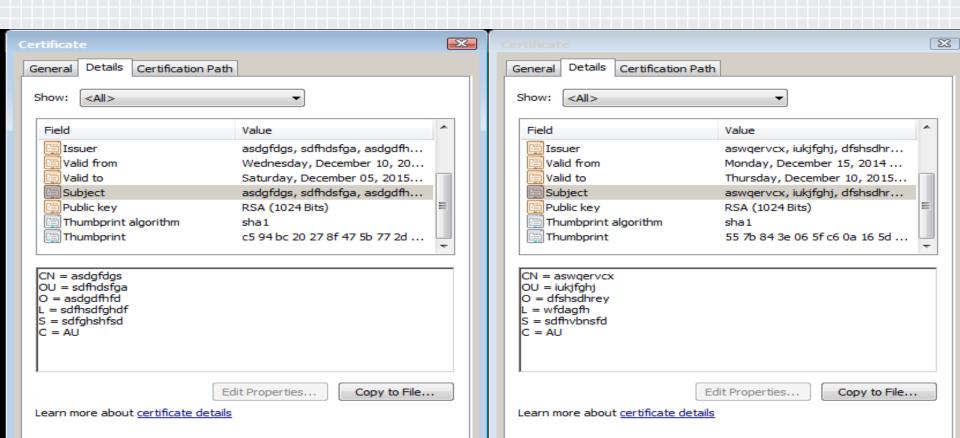


Port	Percentage
9001	74.66%
443	5.45%
80	2.51%
9201	1.97%
8443	1.73%
8080	1.68%
9090	1.06%
110	0.99%
1337	0.98%
9101	0.98%

Bogus Dyre "Google" SSL certificate (used in July, 2014) #RSAC along with legit cert used during same time period by Google



Recent Dyre C&C SSL certificates with 360-day validity, 1024 bit RSA keys, and key-mash details



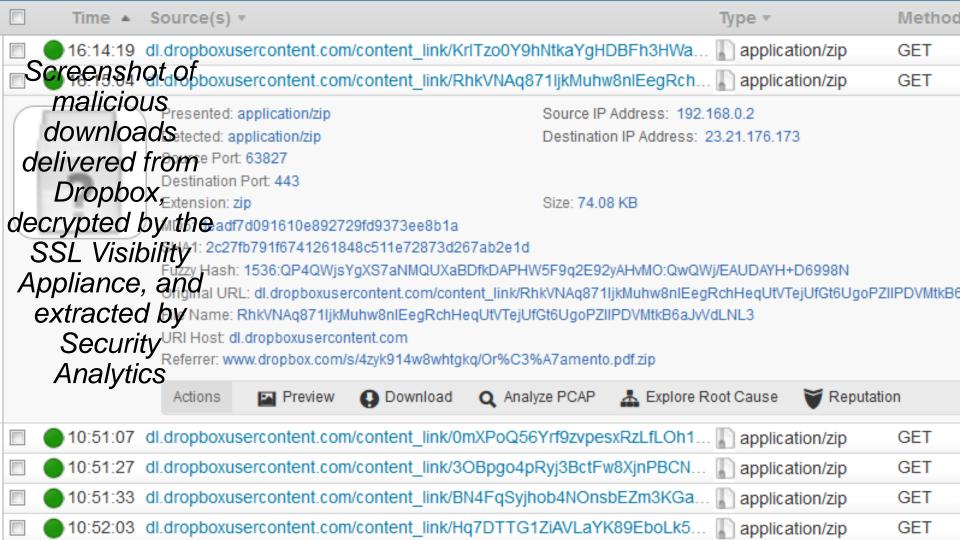


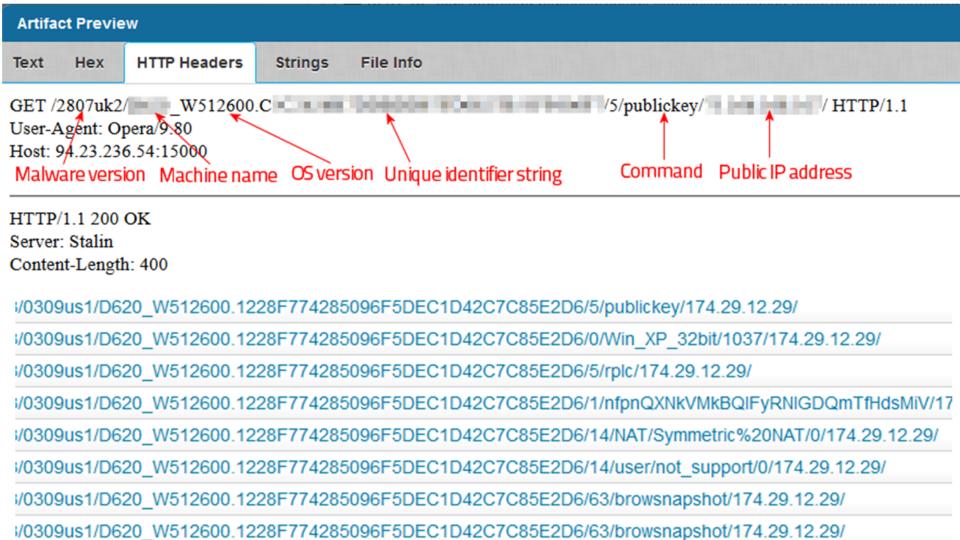
Seeing and Apprehending Upatre





onference2015

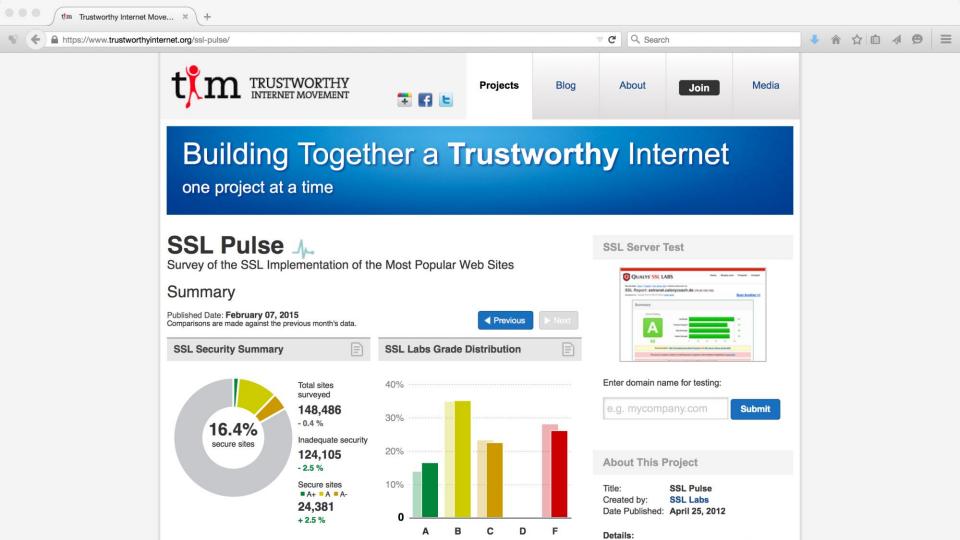


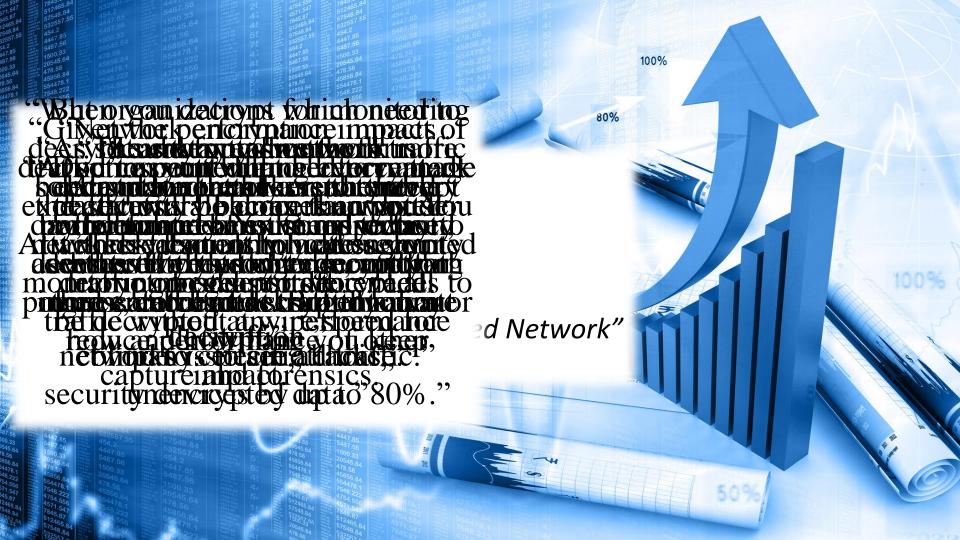














RSA Conference 2015 San Francisco | April 20-24 | Moscone Center

Thank You!

Grant Asplund
Director of Evangelism
grant.asplund@bluecoat.com
@gasplund

