### Conficker Worm Shuts Down French and UK Air Forces

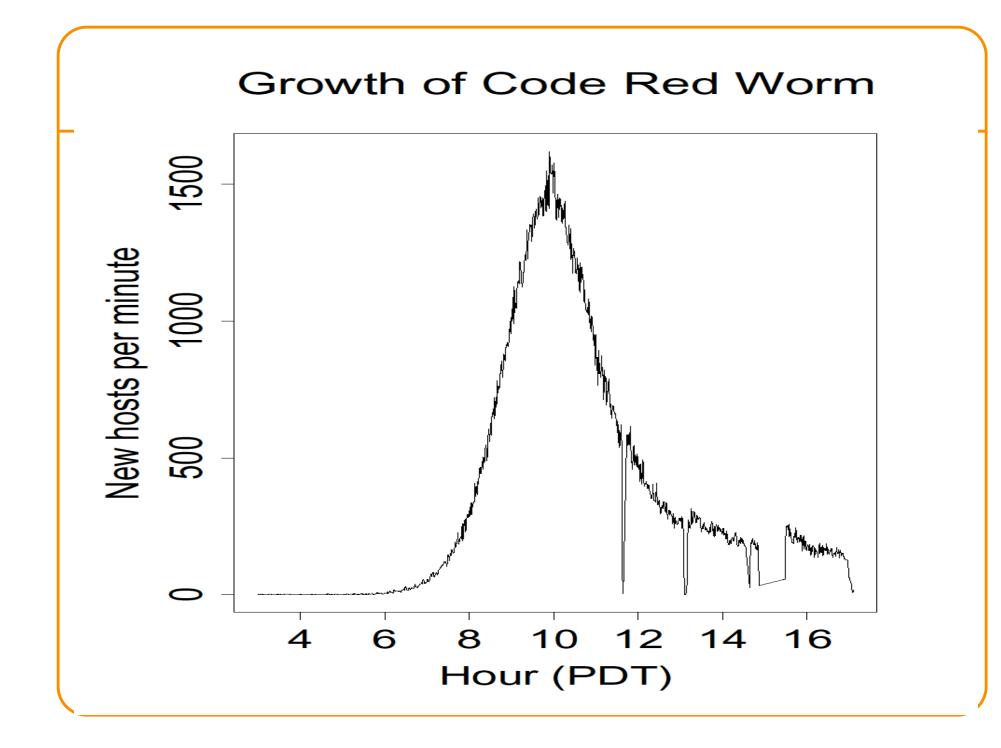
Posted 02/10/09 at 09:51:47 PM | by Mark Edward Soper

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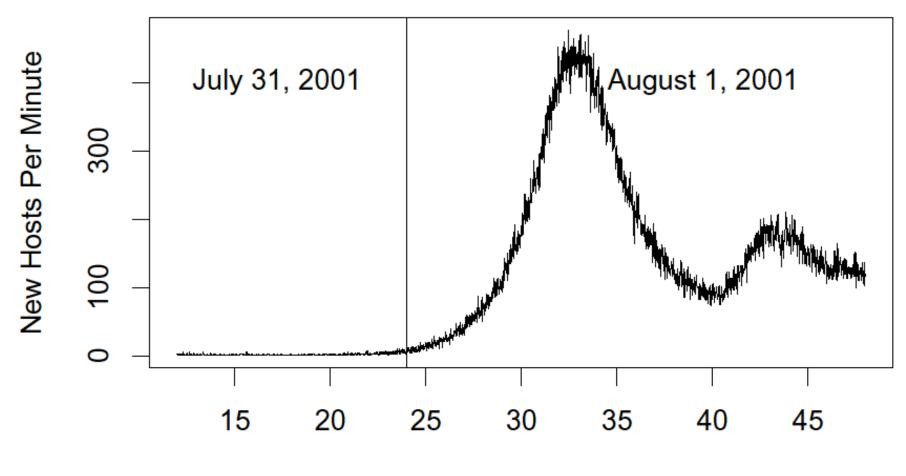


The London Telegraph reports that the Conficker (aka Downadup and Kido) worm virtually shut down both the French naval air force and Great Britain's RAF and Royal Navy for some time last month.

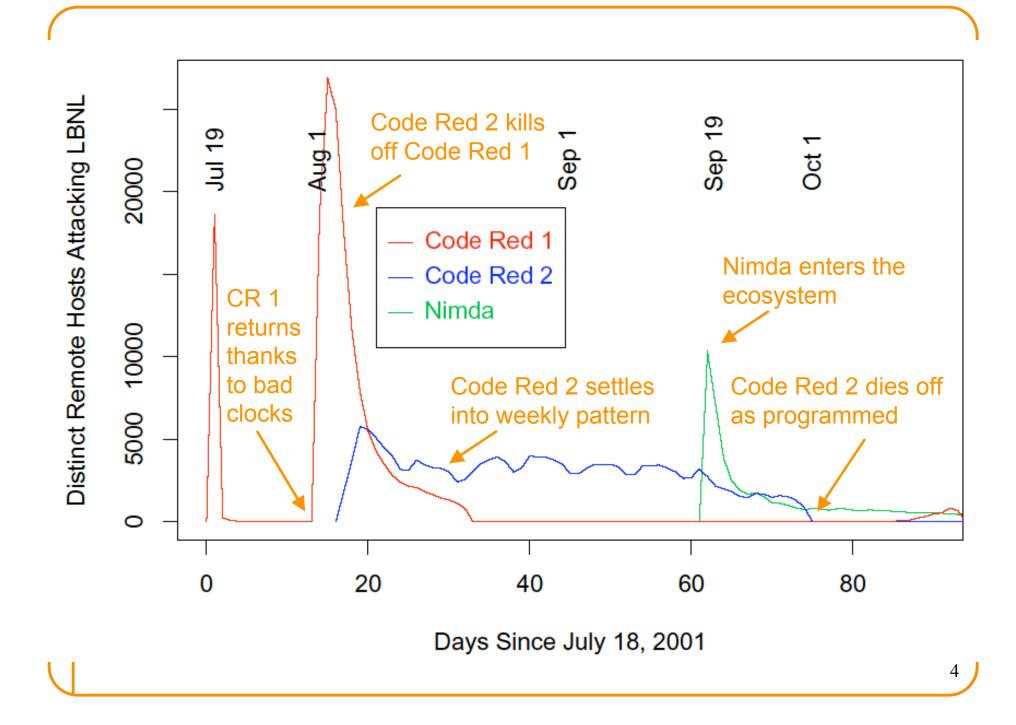
Ironically, the French had been warned as far back as October to harden their systems, but as we reported last month, millions of PCs haven't yet been protected by installing KB958644. As with other infections, the culprit appears to have been an infected USB flash memory key, and the infection prevented the French Navy's Rafael multi-role combat aircraft from being flown for several days in mid-January. The non-

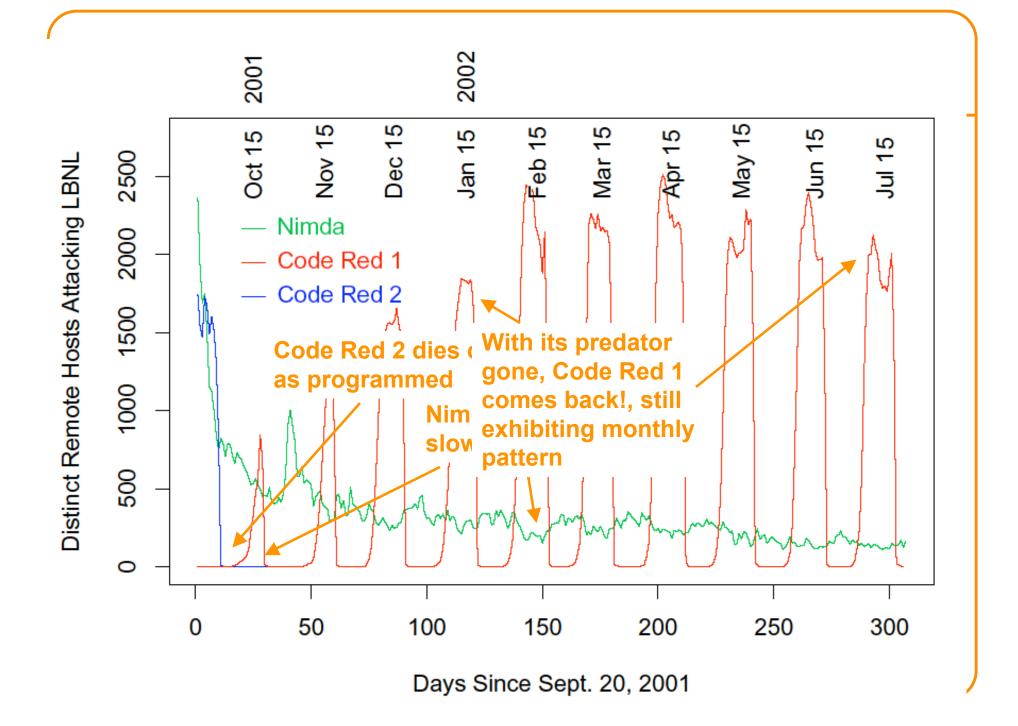


### **Return of Code Red Worm**



Hours (PDT) Since Midnight, July 31





# **Modeling Worm Spread**

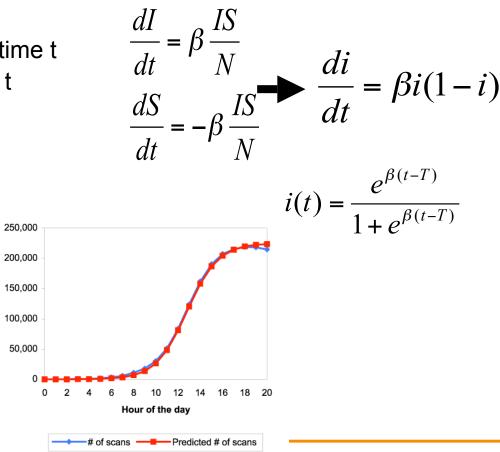
- Often well described as *infectious epidemics* 
  - Simplest model: homogeneous random contacts

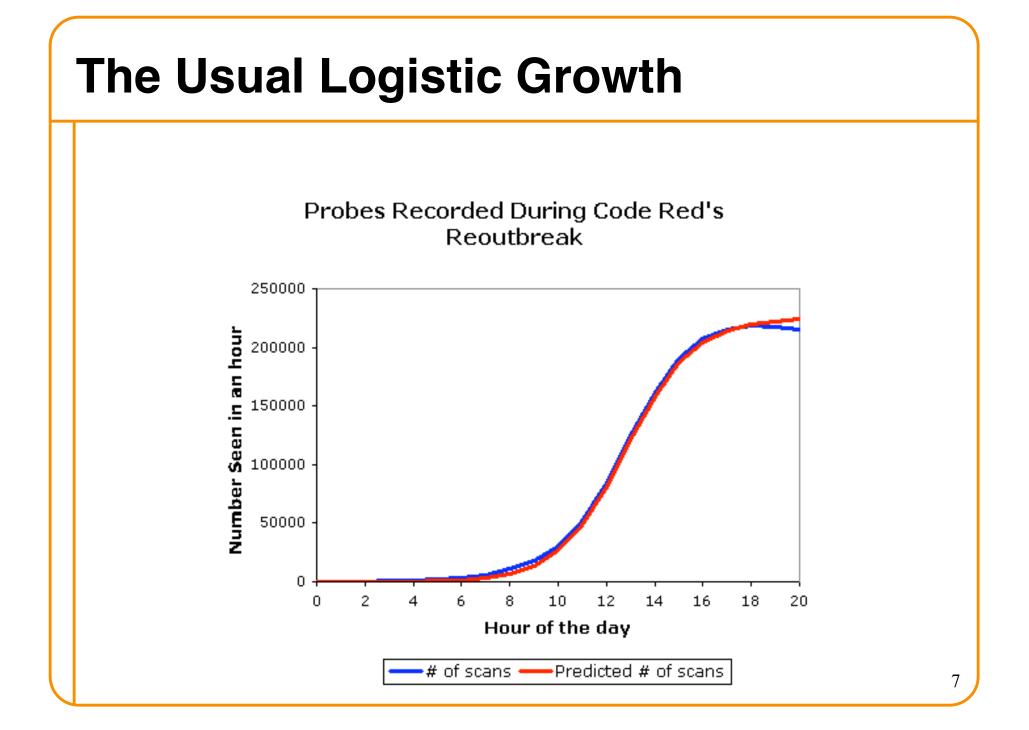
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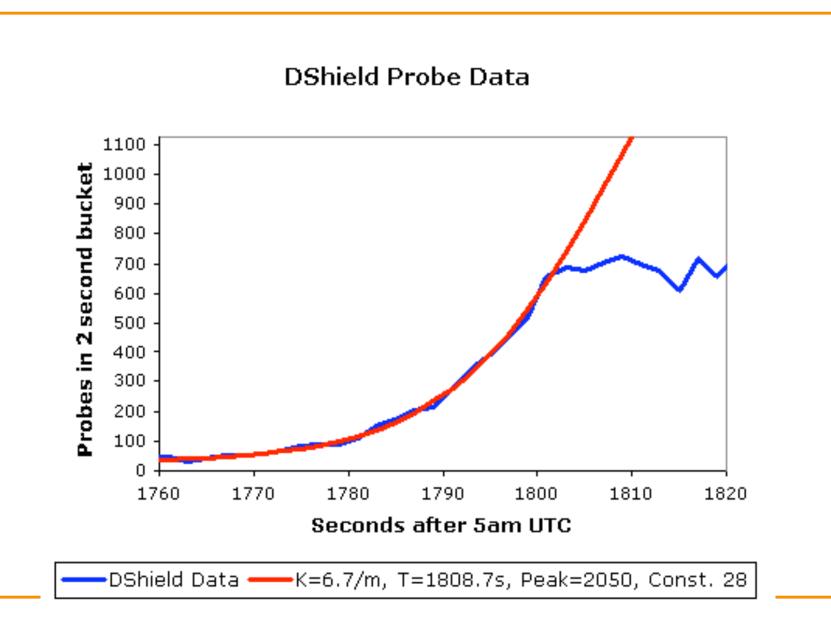
Number seen

- Classic SI model
  - N: population size
  - S(t): susceptible hosts at time t
  - I(t): infected hosts at time t
  - $\beta$ : contact rate
  - i(t): I(t)/N, s(t): S(t)/N

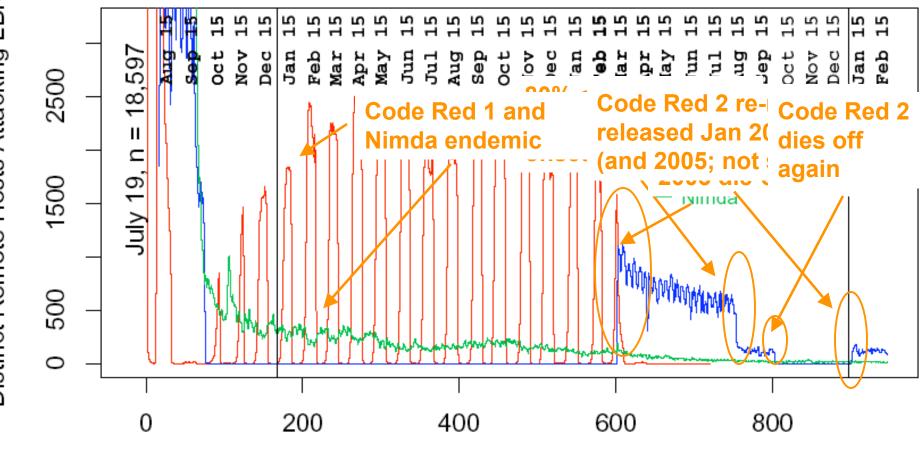




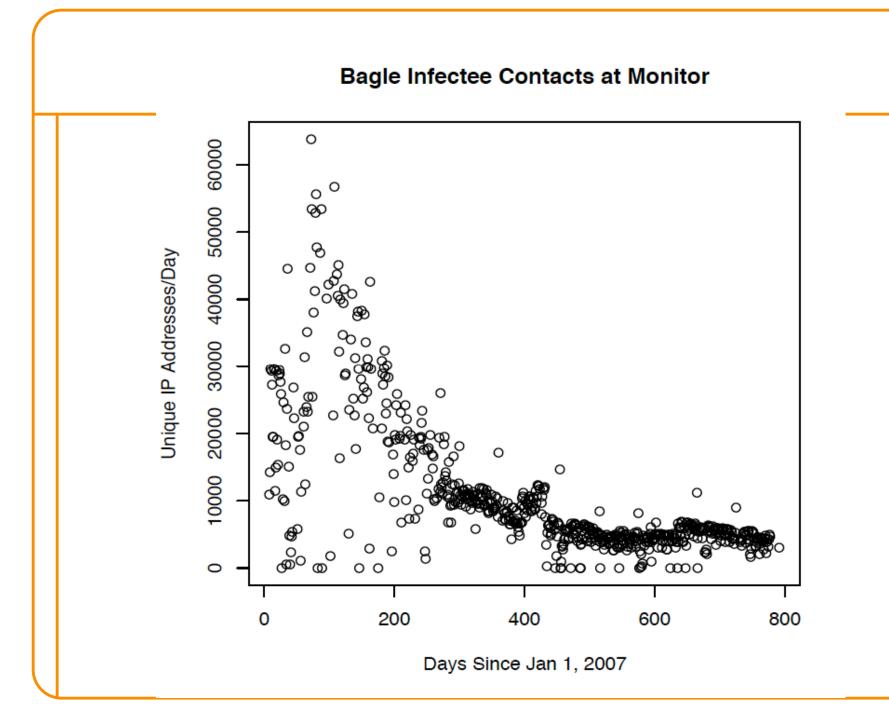
## Slammer's Bandwidth-Limited Growth



Distinct Remote Hosts Attacking LBNL



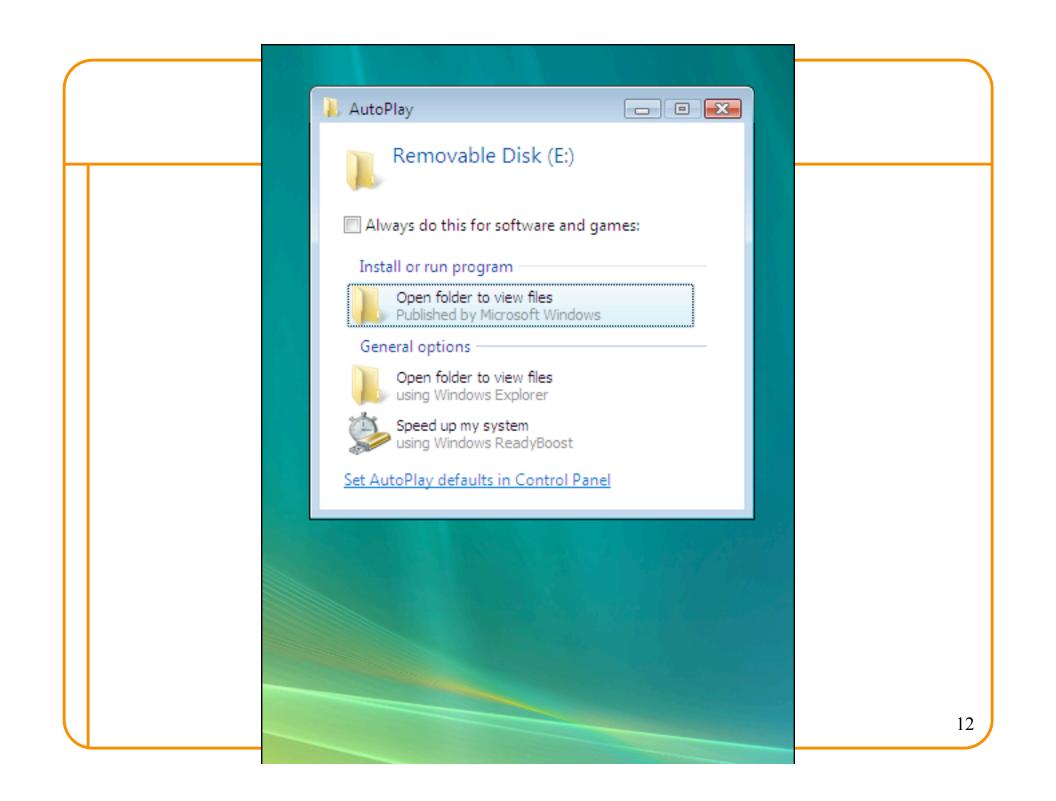
Days Since July 19, 2001

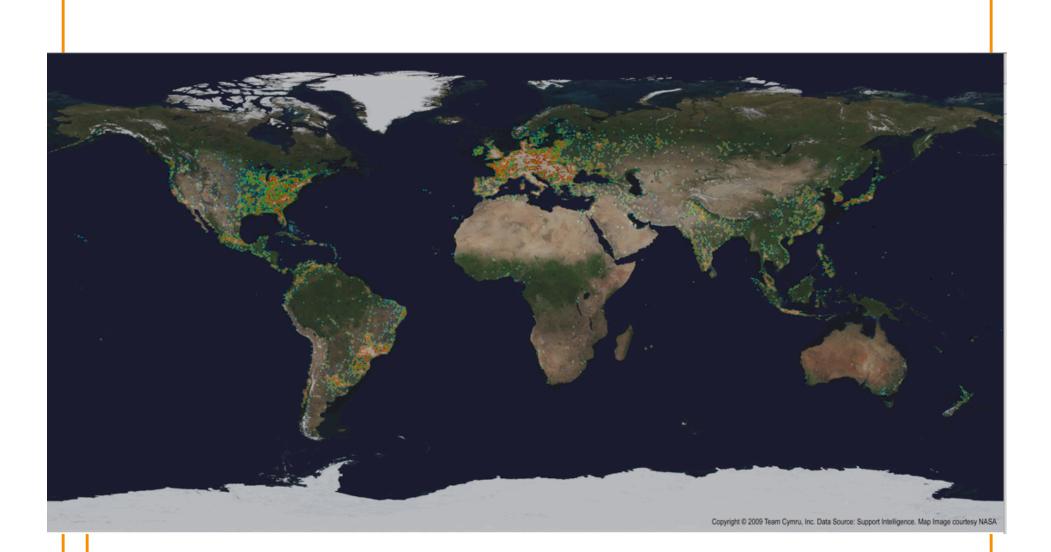


MS puts up \$250K bounty for Conficker author **Zombie masterminds wanted undead or alive** By John Leyden • Get more from this author Posted in Security, 12th February 2009 18:15 GMT

Free whitepaper - Trend Micro marries security with Cloud Computing

Microsoft is offering a \$250,000 reward for information that leads to the arrest and conviction of the virus writers behind the infamous Conficker (Downadup) worm.







 Total IP Addresses:
 10,512,451

 Total Conficker A IPs:
 4,743,658

 Total Conficker B IPs:
 6,767,602

 Total Conficker AB IPs:
 1,022,062

#### OS Breakdown:

WinNT=0, 2000=163395, WinXP=10189556, 2003 Srv=75361, Vista=82495, Win98=44, Win95=32, WinCE=3, Other=1565

#### Browser Breakdown:

IE5=26,525, IE6=7,494,466, IE7=2,988,039, FireFox=893, Opera=150, Safari=166, Netscape=12

