

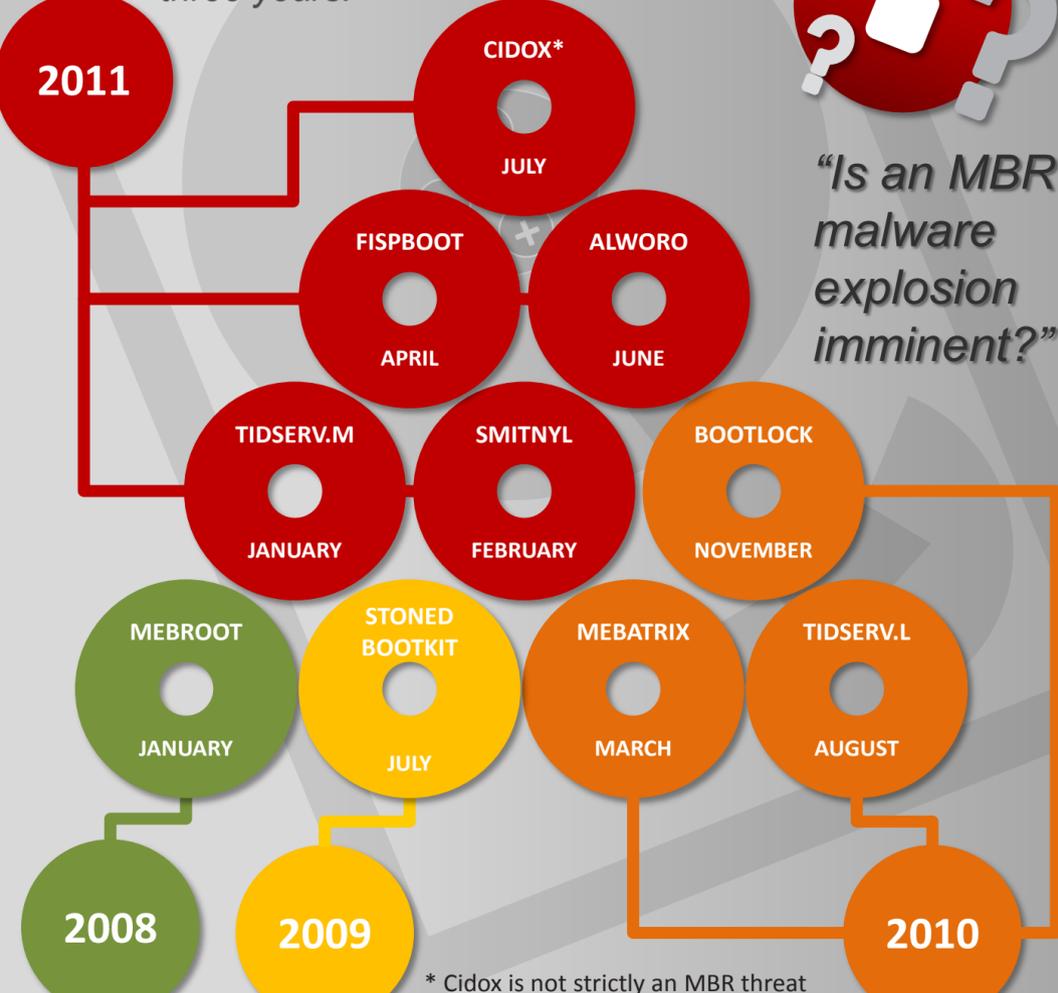
MBR Malware Back in Fashion

RETURN OF THE BOOTUP MALWARE

There has been as many new MBR threats found in the first seven months of 2011 as there were in all the previous three years.



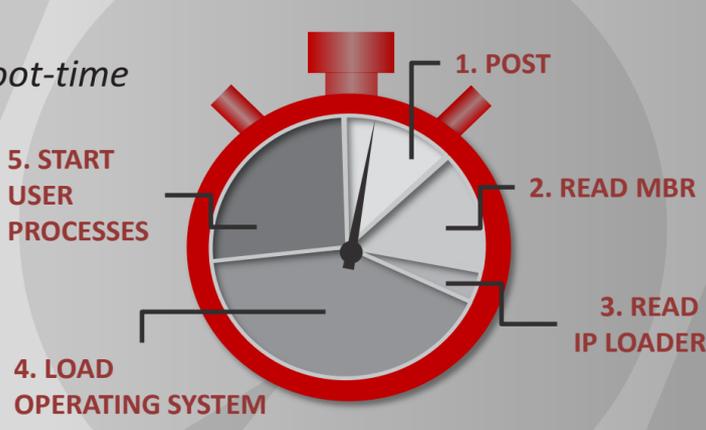
"Is an MBR malware explosion imminent?"



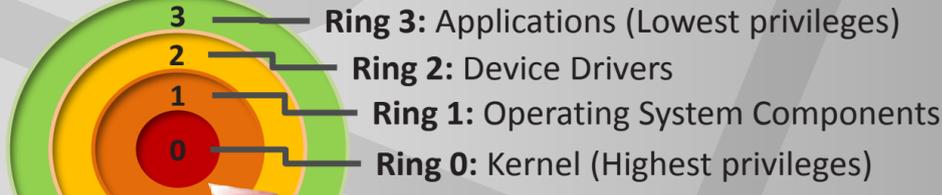
THE GOAL OF MBR/BOOT TIME MALWARE

"... get in quick ..."

"The goal of boot-time infection is to get the malware loaded onto the computer before the operating system does. Whatever gets loaded first ultimately calls the shots."

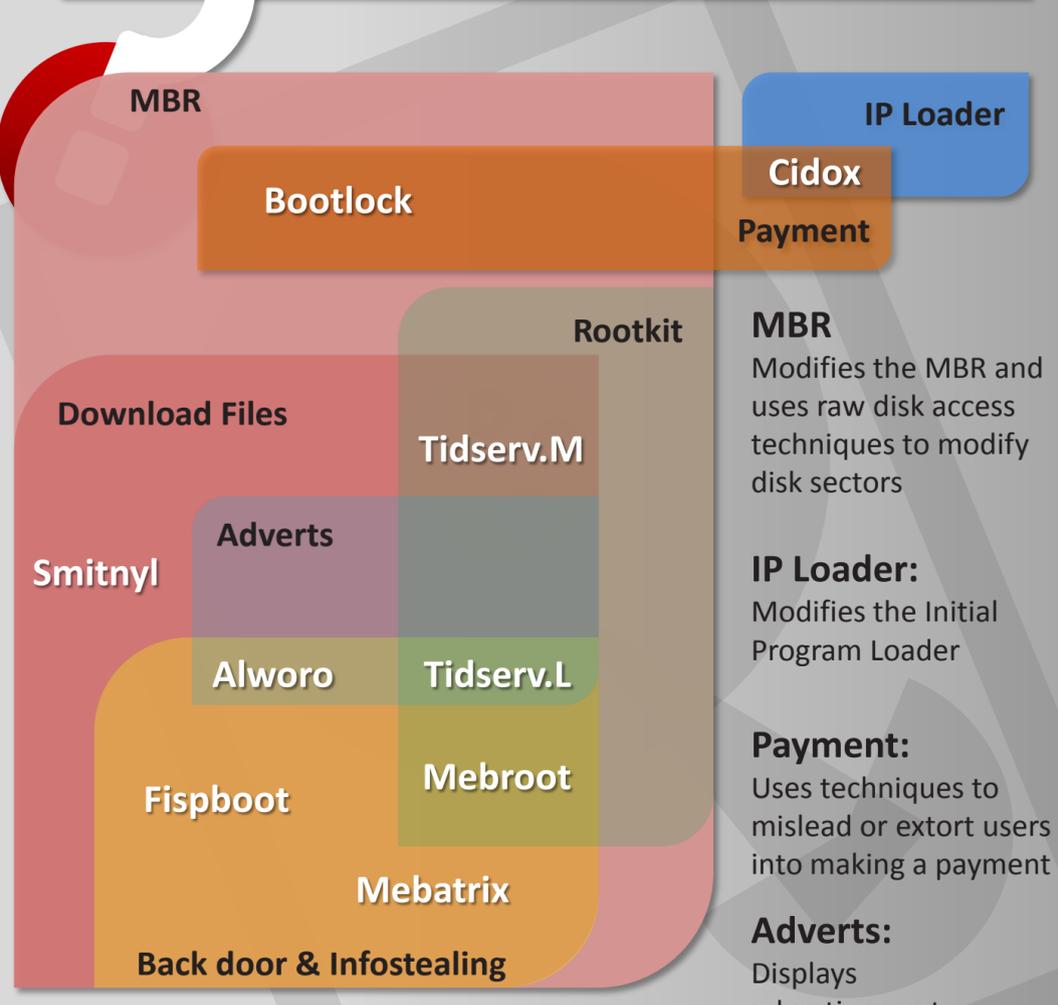


PROTECTION RING SECURITY ARCHITECTURE



Boot malware components typically operate at the ring 0 level with the highest privileges for access to computer resources.

WHAT THEY DO



A BRIEF HISTORY OF BOOT MALWARE

"Boot infection is not a new idea..."

- 2000** Boot sector viruses such as **Stoned.Michealangelo** were all the rage
- 2005** eEye researchers present **BootRoot** project at BlackHat
- 2007** Researchers at NVLabs present **Vbootkit** at BlackHat
- 2007/2008** **Mebroot** makes its debut
- 2009** **StonedBootkit** appears, **Vbootkit** becomes open source
- 2010** **Mebatrix**, **Tidserv.L**, and **Bootlock** debut
- 2011** **Tidserv.M**, **Smitnyl**, **Fispboot**, **Alword**, and **Cidox**

"What's in store for the rest of 2011?"



Sources:

- <http://www.symantec.com/connect/blogs/mbr-rootkit-paper-vb2008>
- <http://www.symantec.com/connect/blogs/bootroot-trojanmebroot-rootkit-your-mbr>
- <http://www.blackhat.com/presentations/bh-usa-05/bh-us-05-soeder.pdf>
- <http://www.nvlabs.in/?q=node/16>

