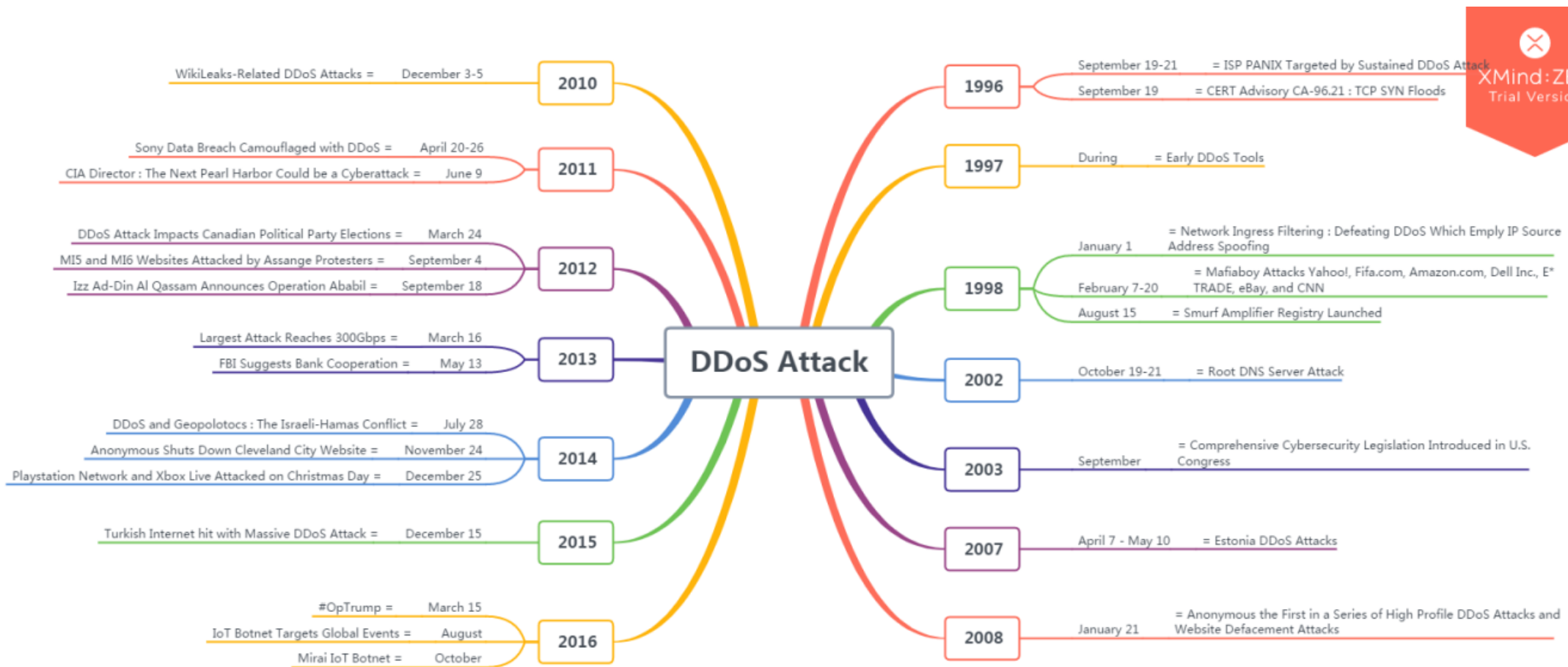**Name : Gonewaje**
NIM   : 09011181419005

The History of DDoS Attack

In 20 years, DDoS attacks have gone from a curiosity, to a nuisance, to a serious threat against the availability of websites, online services and applications. Today, anyone with a grievance and an internet connection can launch an attack. easy-to-use tools and cheap attack services have made ddos attacks more popular and more dangerous than ever. a look back at the news headlines and the increasing size of attacks through the years dosen't sow any signs that this problem will be going away.

Name : Gonewaje
NIM   : 09011181419005

DDoS Attack

Left Side (Timeline)

2010
- WikiLeaks-Related DDoS Attacks = December 3-5

2011
- Sony Data Breach Camouflaged with DDoS = April 20-26
- CIA Director : The Next Pearl Harbor Could be a Cyberattack = June 9

2012
- DDoS Attack Impacts Canadian Political Party Elections = March 24
- MI5 and MI6 Websites Attacked by Assange Protesters = September 4
- Izz Ad-Din Al Qassam Announces Operation Ababil = September 18

2013
- Largest Attack Reaches 300Gbps = March 16
- FBI Suggests Bank Cooperation = May 13

2014
- DDoS and Geopolotocs : The Israeli-Hamas Conflict = July 28
- Anonymous Shuts Down Cleveland City Website = November 24
- Playstation Network and Xbox Live Attacked on Christmas Day = December 25

2015
- Turkish Internet hit with Massive DDoS Attack = December 15

2016
- #OpTrump = March 15
- IoT Botnet Targets Global Events = August
- Mirai IoT Botnet = October

Right Side (Timeline)

1996
- September 19-21 = ISP PANIX Targeted by Sustained DDoS Attack
- September 19 = CERT Advisory CA-96.21 : TCP SYN Floods

1997
- During = Early DDoS Tools

1998
- January 1 = Network Ingress Filtering : Defeating DDoS Which Emply IP Source Address Spoofing
- February 7-20 = Mafiaboy Attacks Yahoo!, Fifa.com, Amazon.com, Dell Inc., E*TRADE, eBay, and CNN
- August 15 = Smurf Amplifier Registry Launched

2002
- October 19-21 = Root DNS Server Attack

2003
- September = Comprehensive Cybersecurity Legislation Introduced in U.S. Congress

2007
- April 7 - May 10 = Estonia DDoS Attacks

2008
- January 21 = Anonymous the First in a Series of High Profile DDoS Attacks and Website Defacement Attacks

Name : Gonewaje
NIM   : 09011181419005

1996

✓ **September 19-21**

ISP PANIX Targete by Sustained DDoS Attack.

The ISP PANIX is struck by a sustained DDoS attack, affecting businesses using Panix as their ISP.

✓ **September 19**

CERT Advisory CA-96.21 : TCP SYN Floods.

CERT/CC Releases an advisory on the growing phenomenon of TCP SYN floods using source IP addresses.

1997

✓ **Early DDoS Tools**

Early DDoS tools emerge from the underground using customer protocols to communicate. Tools suc as Trinoo, Tribe Flood Network, TFN2K, Shaft, and others appear, often coded by their authors. Primitive DDoS networks emerge using IRC and Eggdrop or the Sub7 Trojan.

1998

✓ **January 1**

Network Ingress Filtering : Defeating DDoS Attacks Which Emply IP Source Address Spoofing.

RFC 2267 published, which details how network administrators can defeat DDoS attacks via anti-spoofing measures. This would eventually become a best current practice adopted by many networking vendors.

✓ **August 15**

Smurf Amplifier Registry Launched.

The Smurf Amplifier Registry is launched to help discover and disable "Smurf" amprifiers, which are abused in DDoS attacks. Smurf Attacks use a spoofed broadcast ICMP ping to then reflect back to a victim to create the attack traffic. By 2012 over 193.000 networks have been found and fixed.

✓ **February 7-20**

Mafiaboy Attacks Yahoo!, Fifa.com, Amazon.com, Dell Inc., E*TRADE, eBay, and CNN.

Mafiaboy launches sustained DDoS attacks on multiple early (and major) eCommerce sites. He is investigated by the RCMP and US FBI and found bragging about the attacks on IRC. The Montreal Youth Court sentenced him on September 12, 2001. to eight months of "open custody", one year of probation, restricted use of the internet, and a small fine.

2002

✓ **October 19-21**

Root DNS Server Attack.

Significant "Smurf" attacks strike the root DNS servers and cause some outages for some sites. The attacks are eventually repelled. Total traffic eventually hit 900Mbps.

2003

✓ **September**

Comprehensive Cybersecurity Legislation Introduced in U.S. Congress.

As the U.S. Congress reconvenes this week after a month-long break, legislation imposing cybersecurity requirements on private industry, including a proposal that would require public companies to report their cybersecurity effors, may be on the may.

2007

✓ **April 7-May 10**

Estonia DDoS Attacks.

The former Soviet republic of Estonia is hit with sustained DDoS attacks following tensions with Russia. The issues arise after Estonia moves a statue honoring Soviet forces who server in World War II against Nazi Germany.

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NIM   : 09011181419005

2008

✓ **January 21**

Anonymous the First in a Series of High Profile DDoS Attacks and Websites Defacement Attacks.

Project Chanology was launched in response to the Church of Scientology trying to remove an infamous Tom Cruise interview video from the internet.

2010

✓ **December 3-5**

WikiLeaks-Related DDoS Attacks.

Online payment and financial services firms were hit with a wave of DDoS attacks after blocking payments to Wikileaks.

2011

✓ **April 20-26**

Sony Data Breach Camouflaged with DDoS.

A DDoS attack on SOny was proportedly used to block detection of a data breach that lead to the exfiltration of millions of customer records for PlayStation Network users.

✓ **June 9**

CIA Director: The Next Pearl Harbor Could Be a Cyberattack.

Speaking to the Senate Armed Services Committee, CIA Director Leon Panetta said that "the next Pearl Harbor that we confront could very well be a cyberattack that cripples America's electrical grid and its security and financial systems."

2012

✓ **March 24**

DDoS Attacks Impacts Canadian Political Party Elections.

Canada's New Democrat Party sees its leadership election impacted by DDoS attack that delayed voting and reduced turnout.

✓ **September 4**

MI5 and MI6 Websites Attacked by Assange Protesters.

Anonymous groups hit various US and UK government-related websites in protest at the governments WIkileaks position.

✓ **September 18**

Izz Ad-Din Al Qassam Announces Operation Ababil.

The group criticized Israel and US, and justified the attacks as a response to the innocence of Muslims video by controversial American pastor Terry Jones.

2013

✓ **March 16**

Largest Attack Reaches 300Gbps.

Spamhaus was targeted for naming and blocklisting cybercrime hosting enterprises, spam and botnet operations.

✓ **May 13**

FBI Suggests Bank Cooperation.

FBI says more cooperation with banks is key in probling cyberattacks.

2014

✓ **July 28**

DDoS and Geopolitics: The Israeli-Hamas Conflict.

Precipitous drop in DDoS attacks correlates with the iltimately unsuccessful cease fire talks between Israel and Hamas.

✓ **November 24**

Anonymous Shuts Down Cleveland City Websites.

Anonymous shut down the Cleveland, Ohio city websites and posted a video after Tamir Rice, a twelve-year-old boy armed only with a BB gun, was shot to death by a police officer in a cleveland park.

Name : Gonewaje
NIM   : 09011181419005

✓ **December 25**

Playstation Network and Xbox Live Attacked on Christmas Day.

Lizard Squad claimed to have performed a DDoS attack on the Playstation Network and Xbox Live.

2015

✓ **December 15**

Turkish Internet hit with Massive DDoS Attacks.

This DDoS attacks came in the wake of Turkey shooting down a Russian military aircraft.

2016

✓ **March 15**

#OpTrump.

Anonymous announces #OpTrump.

✓ **August**

IoT Botnet Targets Global Events.

An IoT botnet targeted a major international events with sophisticated large-scale DDoS attacks sustaining 500 gb/sec in attack traffic for the duration of the event.

✓ **October**

Mirai IoT Botnet.

Mirai IoT botnet launches 1Tbps multi vector DDoS attack against DNS infrastructure, taking many of the world's most popular websites offline.