Improving Domain Names Utilization

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Content

Status Quo of Chinese Phishing Websites

Anti-Phishing Alliance of China (APAC)

Suggestions for Improving Domain Names Utilization

Q & A
In 2016, the total amount of Chinese phishing websites is 147,211, which is 2.5 times bigger than that of 2015. Phishing attacks become more rampant and governance situation become more severe.
Status Quo of Chinese Phishing Websites

Distribution of Industries

Payment Transaction: 45.70%
Financial Security: 27.76%
Telecommunication: 20.55%
E-commerce: 5.21%
Others: 0.79%
Status Quo of Chinese Phishing Websites

Distribution of TLDs

- .com: 64.24%
- .cc: 14.95%
- .tk: 1.03%
- .cn: 1.39%
- .net: 2.98%
- .au: 0.95%
- .top: 0.85%
- .br: 0.80%
- .cl: 0.67%
- .pw: 6.09%
- .tn: 0.85%
- .br: 0.80%
- .cl: 0.67%
- others: 6.04%
Status Quo of Chinese Phishing Websites

Distribution of Phishing Websites Life Duration

- 1 day: 15.25%
- 2 days: 19.83%
- 3 days: 17.77%
- 4 days: 11.71%
- 5 days: 6.62%
- 6 days: 3.89%
- 7 days: 2.86%
- 8 days: 1.71%
- 9 days: 1.15%
- 10 days: 1.17%
- 11 days: 1.17%
- 12 days or more: 16.87%
Anti-Phishing Alliance of China (APAC)

- Founded on July 18, 2008
- A nonprofit industry organization
- CNNIC assumes the duties of secretariat
- Official Website: www.apac.cn
- Reporting Email: jubao@apac.cn
APAC Members

APAC is mainly comprised of registries and registrars, financial agencies, e-commerce enterprises and cybersecurity companies. Up to the end of 2016, the number of APAC members increased to 523.
Organize and carry out investigation and research on anti-phishing, provide relevant business and policy consultation services for members as well as offer decision support for government.

Perform international exchange and cooperation concerning legislation research, technical application and standard formulation.

Organize members in finding out, governing and preventing from phishing sites, share relevant information and promote construction of comprehensive governance system.
APAC Architecture

**APAC**

- **Expert Steering Committee**
  - Responsible for carrying out guidance on operation of APAC

- **Secretariat**
  - Responsible for daily work of APAC, preparation of Members’ Conference and treatment of unexpected events

- **Members**
  - Members’ Conference has the right to formulate and modify the Articles and make decisions on important matters

- **Third-Party Technical Recognition Institutions**
  - Responsible for preservation and technical recognition for phishing webpages; and propose advices on technical recognition for phishing websites
APAC Treatment Categories

For Domain Names registered in China

- If the website is totally fake:
  APAC registries/registrars will suspend the resolution service

- If the website is partly fake:
  APAC registries/registrars will inform registrant to delete the phishing webpages

For Domain Names registered outside China

- APAC cybersecurity companies and browser makers will “tweet” warnings through their products when users visit phishing websites
In 2016, the APAC has identified and processed a total of 107,303 phishing websites, accumulatively up to 385,996.
Since 2009, CNNIC has been focusing on the anti-phishing technical research, the “Proactive Phishing Detection System” is an important achievement.

The core of the system is based on the Big Data analysis for the machine learning of domain name utilization.

The phishing websites can be monitored and tracked from the registration phase, and can be discovered and disposed when they online.
CNNIC’s Contributions---Proactive Phishing Detection System
In 2016, the system identified and processed more than 40,000 phishing websites of 80 brands.
The life duration of phishing website detected by the system is 4.684 days, much shorter than the average number.

CNNIC has published more than 10 academic papers and holds more than 10 anti-phishing patents.

“Technical Specifications of Data Exchange for Reporting Phishing Attacks”, the only anti-phishing industrial standard in China.
CNNIC’s Contribution---Reports & Briefings

The “Global Chinese Phishing Attack Trends Report” analyzes the phishing attacks targeting Chinese brands and users over the world.

APAC releases Briefing every month, analyzing the situation of phishing website treatment.
Suggestions for Improving Domain Names Utilization

- **Capacity Building**
  - Encourage registries, registrars, academic institutions to facilitate scientific research, data exchanging and technology sharing

- **Enhance Supervision**
  - Promote standardization on identification, sharing and disposal, and seek more cooperative chances with government agencies

- **Strengthen Education**
  - Strengthen universal education for end users, and heighten their awareness of online risks
THANKS!

Q & A