things of the internet

GLOBAL CYBER DOMAIN REPORT

Understanding the internet is essential. In our opinion, one of the best ways to understand the internet is undoubtedly via DNS protocol.

As Roksit, we have very detailed, historical, and relational records of about 506,322,733 domains in our database. In other words, we have the entire internet data! The statistics from our records are as follows.

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Powered by Roksit Cyber X-Ray AI Platform Report Summary

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Roksit is a DNS Layer Security Platform focused on actively protecting all devices in the network against any malicious activity, including Phishing, Ransomware, and Zero-day attacks.

Roksit's threat database updates itself 24/7 by crawling the entire internet and categorizing the whole internet's domains by using its own AI with immense accuracy. Many Firewall vendors around the world benefit from Roksit's threat database.

Today, **Roksit** receives the DNS traffic of more than 10.000+ companies from 74 countries each day.

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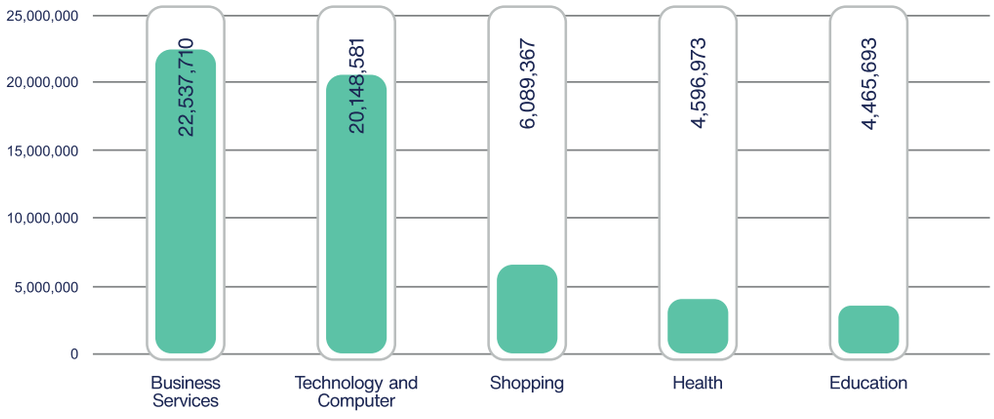
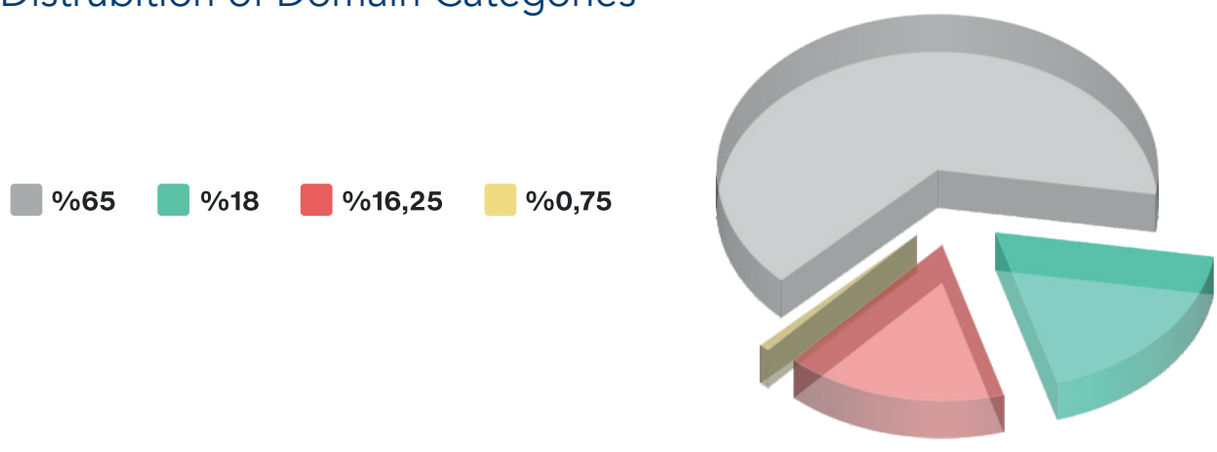
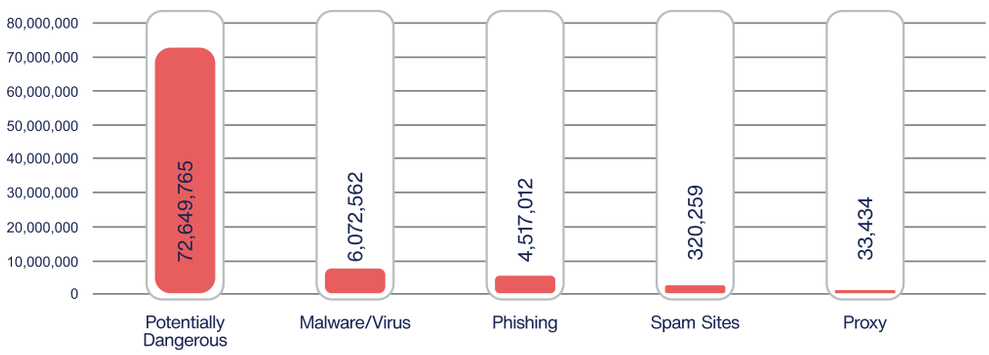
TOP 5 Safe Domain Categories



Distrubition of Domain Categories



TOP 5 Malicious Domain Categories



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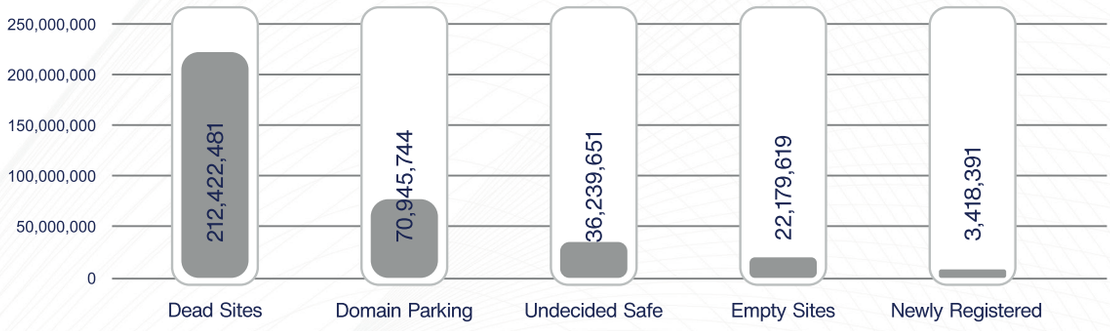
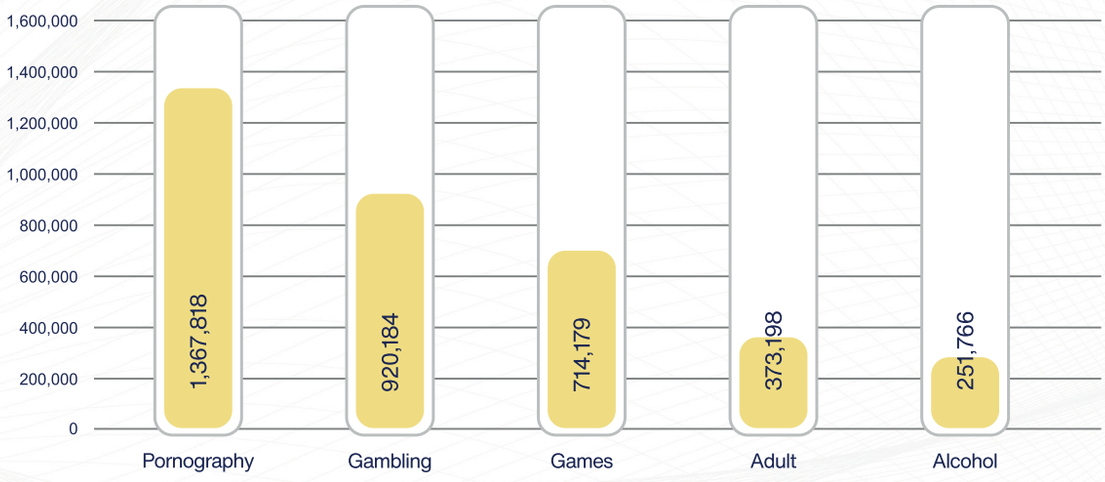
TOP 5 Variable Domain Categories



TOP 5 Restricted Domain Categories



TOP 5 Malicious Domain Categories

The total number of FQDNs in the world is 1,228,820,448.

The total number of domains in the world is 506,322,733 (Including dead sites).

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Tracking

'Down Domains' for Security By the end of 2021, the total number of domains registered worldwide has surpassed 570 million, with over 315 million dead sites. So why track these 'down domains' in terms of cyber security?

There are 79 million malware domains in the Cyber X-Ray database. Approximately 85% of these domains do not have an IP address. Below is an example of a malicious traffic report found in a passive state.

	Variable	Safe	Malicious	Restricted
Has no inlink (there are no webpages referring these domains)	285,756,544	29,783,954	36,438,327	1,033,271
Has inlink from malicious domains	1,746,015	3,602,126	606,856	264,376
Has inlink from safe domains	37,788,104	38,905,902	2,748,262	1,220,605
Has inlink from variable domains	13,474,767	18,123,888	1,003,255	672,238
Has inlink from restricted domains	2,375,815	4,071,791	280,313	752,728

[2] Internal linking, links between pages on a single website, is also a core component of how search engines discover and rank a website's content.

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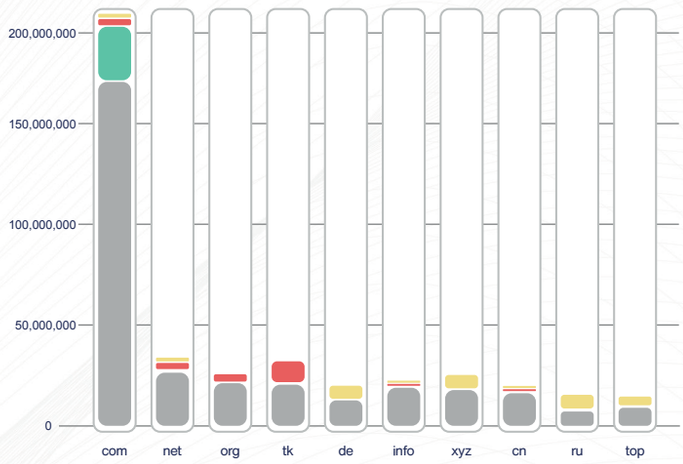
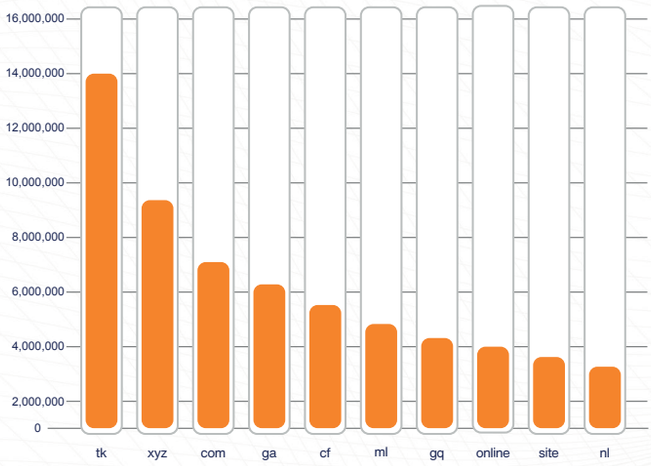
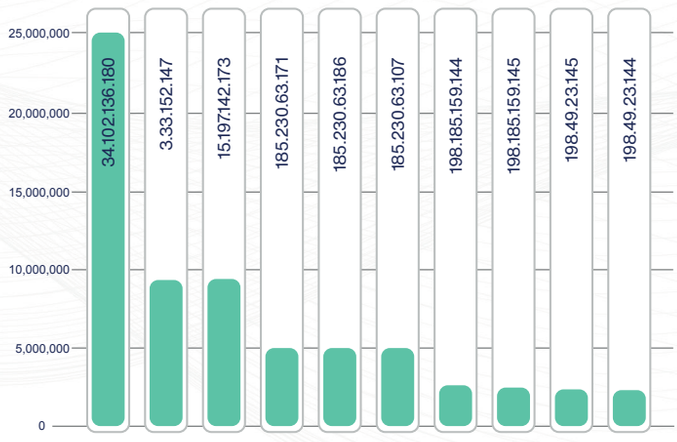
Top 10 TLDs with Category Groups



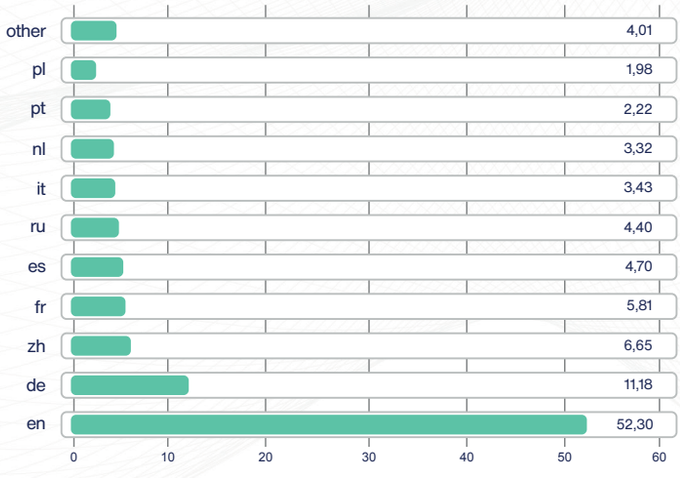
Top TLDs Contain the Most Malicious Domains



Top 10 Most Popular IP Addresses (by the number of domains using them)



Languages Used on the Internet



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Key Findings

The number of newly registered or first-seen domains in **2021 is 61,455,161.**

About **40%** of domains with valid SSL from domains with HTTP status 200 use free SSL.

More than **5 billion** DNS A record changes were made in 2021.

More than **13 million** 'paid link building' (backlink) services were purchased in **2021.**

The total number of paid backlinks exceeds **93 million.**

During the pandemic, up to **2,000** malicious websites were created daily with the Covid-19 theme.

The most secure TLD (Top level domain) on the web is '.gov'. This domain was developed for government agencies and is the only top-level domain free of dangerous websites.

In **2021**, an average of **100,000** malicious domains were discovered per day.

The worst places to download files are '.tk' (Tokelau), '.ws' (Samoa), '.bg' (Bulgaria) and '.biz' (Registry Services, LLC). If you visit these domains or download files from them, you deal with a potentially dangerous website one out of ten times.

Next to .gov, the most secure domains are the Scandinavian domains. The list goes as follows;

1. '.fi' (Finland)
2. '.no' (Norway),
3. '.se' (Sweden),
4. '.is' (Iceland)
5. '.ie' (Ireland).

Over 80% of malware use DNS to communicate with command-and-control (C&C) servers, exfiltrate data or redirect traffic to malicious sites.

Get The Report

Scan QR Code to review the report in detail and download it to your computer.

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