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Dark Web

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Abstract: *The entire Internet is a network of many computers and their large systems. The network has open websites using search engines such as Google and Firefox. The dark web is part of the deep web. You can contact via TOR. Participants of the dark web are anonymous and confidential. Anonymity, anonymity and undetectable duration are our decisions provided by private browsers such as TOR and I2P. In this article, we will analyze the impact of darkness on various areas of society and draw out the findings. Average number of anonymous users (using TOR) in Kosovo and the darknet world over time. The effectiveness of hidden web information is evident in findings from Ahimia and Onion City dark web investigations. Anonymity on the dark web is completely unproven. TOR is working on this and organizing covert operations..*

Keywords: dark web, TOR, privacy, anonymity, I2P, application, computer network

I. INTRODUCTION

Many people think that the World Wide Web and World Wide Web are different. There are also two separate themes with similar themes. The Internet requires numerous networks and their extensive infrastructure. (Gehl, 2016) It connects millions of computers by creating a network, and each device can communicate with other computers as long as it is connected to the internet. The Internet (intermediate level) provides access to information. Conceptually, web content consists of web pages opened by search engines such as Google and Firefox. This information is called the "top of the web". (Gehl, 2016). Another component of the Internet is the Deep Web, which serves to process content for various purposes [1].

Contains information about individuals and intranets (organizations, organizations, businesses, commercial websites, etc.), web pages or research articles. The wide web is also classified as the dark web. Its contents are intentionally hidden and cannot be accessed by standard web browsers. Owners of dark pages are anonymous and confidential. (Chen et al., 2008) Applications on the dark web can be accessed to exchange low-risk and anonymous (anonymous) information. User anonymity is crucial to the dark web and has recently been supported by encrypted tunnels for security monitoring. The TOR project was launched in 2002 by the US Naval Research Laboratory to enable anonymous online communication. The Invisible Internet Project (I2P) is another network on the web that offers data end communications security, data encryption, and more. (Hurlburt, 2017) and their identities are hidden. To transfer data from one layer to another, TOR creates "relays" of computers recording the data through tunnels around the world. The darknet can be exploited through open participation of other online communities (TOR or I2P). (Harrison et al., 2016) TOR contains the name of the program we run on the device and the data network that manages and controls it. Improve your connection. This allows users to access websites through virtual tunnels through which individuals and organizations can share information on public networks without violating their privacy. (Harrison et al., 2016).

The dark web refers to any website that cannot or is not indexed by search engines such as Google for various purposes [2]. This category also includes dynamic web pages, blocked sites (such as sites that require credentials for access), offline sites, private sites (such as sites that require credential access), non-HTML files/content/text, and sites that restrict Internet access.

Restricted access to websites includes websites whose domain names are listed on the Domain Name System (DNS) site and are not controlled, for example, by the Internet Corporation for Names and Numbers (ICANN). It works on BIT domains, websites and non-standard high-level standard DNS and finally on the dark web. Darknet is a legitimate Internet control site. Until other apps like Tor are downloaded. Many deep web sites share common practices that occur on the dark web.

USES OF DARK WEB:

Purpose of the Dark Web Smart people who buy drugs online will not want to enter the keyword into the browser on a regular basis. He/she must surf anonymously using a network that does not redirect anyone interested in his/her IP address or address. But drug dealers prefer not to set up online stores because authorities can quickly determine who the registrant is or the real-world website's IP address. There are other explanations for buying drugs People choose to remain anonymous or set up websites that cannot be traced to specific places or people. People who want to protect their information from government surveillance may want to hide the dark web.

Information: They may want to share much of their insider information with reporters, but they don't want to get in their way. Protesters in the regime want to remain anonymous so they can tell the world what is happening in their areas. But on the other side of the coin, those who want to plan assassinations against high targets will need a method that is guaranteed to be foolproof. Some crimes may involve online anonymity, such as the sale of documents such as passports and credit cards. The same can be done for people who leak sensitive information from others, such as emails and phone calls.

II. RELATED WORK

Related Studies The situation of gun sharing and child pornography can easily spread with the help of the dark web. Users who use the TOR network to send messages over the internet can easily use encryption to remain anonymous. Therefore, studying a lot of information for in-depth analysis can strengthen the research, which is why the TOR method along with other elements is provided with the help of many US intelligence systems (Navara & Nelson, 2007).

mechanisms are allowed to be used for legal purposes, but there are also darknet mechanisms that are allowed to be used for illegal reasons. By carefully examining the web tracker, the confidentiality of the program can be easily revealed to evaluate the data and the study continues with the help of ISI test base. The data analysis application is based on a comprehensive analysis of various aspects of the dark web and is explained in detail during the verification process. This study also explains the important aspects of the research done by the researchers [3]. In another study by Barnett et al., the performance of spiders means that they use for information outside the World Wide Web, with ease of access through the registration process. and the necessary information can be easily filled in various forms.

Social Network Analysis (SNA) is a topic of interest and has been undertaken with the aim of providing an image-based method that allows analyzing network structures from standing structure or population strength. (Navara and Nelson, 2007) indeed.

The SNA method is specifically designed to analyze forums and web links. The main goal is to understand the "remote network" and its special features. A detailed coding system has been developed to detect radical websites and terrorist content [4]. Thoughts and analysis can detect malicious websites and criminals that pose serious threats. Counter-terrorism refers to the use of specialized knowledge, research and techniques to collect, collect, process and interpret a variety of terrorism-related intelligence for an overall purpose (world/national security). These methods include computer science, mathematics, astronomy, economics, social sciences, etc. comes from the fields.

Technology, Features, Access and Communication on the Dark Web:

Anonymity on the Dark Web comes from the Greek word "anonymous", meaning to hide a person from others. If we do some activities on the internet, our fingerprints will be recorded as data in the network. If an Internet Protocol address cannot be recorded, we can assume that anonymity is guaranteed. TOR clients stream the web to the global site through a network of volunteers [5].

This makes it easier to hide information to prevent the risk of consumer tracking behavior. The dark web also leads to negative consequences by encouraging criminals to commit cybercrimes and cover their tracks. It is seen as a good tool for governments to share classified information, for journalists to bypass censorship, and for activists to "report" on regime actions. Dos Technology 1 supports secure communication in computer networks. Messages are sent encrypted (using asymmetric encryption) and distributed to each network node. (Jonason et al., 2014). This section contains some usage information taken and extracted from our program. The first study of data collected in the last 2 years on the classification of all existing deep learning websites.

Language detection is done by two different methods: The Python module called Prediction Language uses triple-based algorithm and works offline. (A); (b) Google Translate. Additional specific detects were created to address the shortcomings of each system: for example, Google Translate does not know "hidden words" (such as no information on the page), but in case of ambiguity it translates to English, causing significant differences in the data. The table below shows the importance of this language in percentage [6] List of pages in this language. In the statistics calculation We filtered out pages smaller than 1 kb (because they do not have enough data to check correctly) and all pages "Unknown"<br>Deep and what we see on the networkServices.

Think hard about the types of purchases people want to make when privacy is guaranteed. The lack of proper identification leads to high risk, but they also have vague protection that often allows them to sell illegal products and services. In general, unlike covert cybercrime, some of the things we see on the deep web have a greater impact on the "real world." Unless the page selling the following products and services is genuine, we cannot guarantee their availability [7]. We cannot cover all the products and services available, but we have included some important ones that will help us understand the country better.

Online privacy on the Dark Web

Online privacy on the Dark Web is used to allow private, anonymous and private communications and activities for specific purposes. Below are some examples of the above concepts: anti-censorship and political activity. TOR has found that this is a good way to avoid censorship and access other sites or files that have been blocked in some way. It allows people to access information that is not available anywhere else in the world.

To prevent this, some governments have issued regulations regarding the use of TOR or have restricted access to TOR for a limited period of time. (Jonason et al., 2014) Effective Communication: When a person chooses to view confidential personal or business information in a chat room or meeting, this is allowed from TOR. Its purpose is to protect children online (e.g. web browsing) from malicious activity (e.g. their device's hidden IP address). Companies can use these tools to protect their business and prevent spies from reaching them (Jonason et al., 2014).

Journalists can use TOR to communicate anonymously with journalists and activists. Individuals can connect with TOR vendors and share confidential information, such as safe deposit boxes in New York. Edward Snowden used Tail (an encryption function) running on TOR. Whistle for journalists to publish classified information. Information Leak: TOR Allowed Its purpose is to protect children online (e.g. web browsing) against brute force (e.g. hidden device IP addresses). Companies can use these tools to protect their business and isolate spies. (Jonason et al., 2014)

Dark Web for Government, Military, and Intelligence Communities:

Thanks to anonymous Tor and other applications such as I2P, the Dark Web can become a platform for online actors. However, as mentioned, researching and using the dark web can be beneficial in many ways. This is not only for individuals and companies who wish to remain anonymous, but also for police, military etc. It also applies to other government institutions such as Anonymity on the dark web can be used to prevent the enemy from searching and stealing military command and control areas. The military can use darkness to gain information about the world in which it operates and to reveal activities that pose risks to the military. There is evidence, for example, that the Islamic State (IS) and its affiliates are trying to use it. The Department of Defense (DOD) will monitor these operations in the war against the Islamic State and use a variety of tactics to disrupt terrorist plans. TOR tools can be used by the military to conduct covert or covert activities on computer networks, such as web advertising or denial of service, or to intercept and intercept enemy communications. (Nilsson et al., 2019).

Security issues

Viruses:

A virus is a program that is installed on your computer without your knowledge and works against you. Connecting themselves or transmitting computers or files to other machines, faxes, mobile devices, etc. on the network. These are the computers that enable the transmission. These affect the operation of the machine and affect the stored data by altering or completely deleting it. Virus definitions: (1) Melissa, (2) Sasser, (3) Zeus, (4) Conficker, (5) Stuxnet, (6) My doom, (7) Red Code.

Warms:

Hot Unlike viruses, worms do not need to connect to a host. They only print until they use up all remaining resources on the machine. The term "worm" is often used to refer to "self-replicating" malware (Malicious software). It has some hard disk or other free computer memory. Popular examples: (1) Badtrans, (2) Bagle, (3) Gun, (4) Explore Zip, (5) Kak worm, (6) Net sky, (7) SQL Slamme © 2019 JETIR April 2019, Volume 6, Issue 4 www.jetir.org (ISSN-2349-5162) JETIREQ06074 Journal of Emerging Technology and Innovation Research (JETIR) www.jetir.org 326 Hackers. An Emerging Hacker, person. A person who breaks into a computer, usually to gain access to administration.

White Hat Hackers: White hat hackers are information security experts who enter and control computers to protect the security of systems and networks and wonder how they defend themselves. White hats use their intelligence to increase security by exposing vulnerabilities to malicious actors (called black hat hackers) who can identify and control them. When systems are used similarly, if not equally, to users, the bad guys, the white hat hackers, have the power to find them against the companies that find them.

Gray hat hackers: The term "white hat" or "blue hat" is often used for hackers who break laws or practices but do not have criminal intent like black hat hackers. Consumers or security professionals.

Black Hat Hacker:A black hat hacker is a person with computer skills whose goal is to weaken or bypass network security. Black hat hackers are also known as crackers or dark hackers. It is generally believed that hackers build things, while crackers break things.

III. CONCLUSION

Darknet networks such as TOR have created many ways for criminals to trade legal and illegal "goods" anonymously. The dark web is a growing product, especially in the field of illegal activities. The conservation process must carefully consider these problems and take steps to eliminate them. This article investigates the influence, privacy and confidentiality of the Dark Web The results of the research show daily Internet traffic to anonymous users in the Kosovo region and the world in general, with the influence of hidden source websites. Dark Web.

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