

# Dark Web

Mr Sivaselvan N<sup>1</sup>, Mr Prasanth S<sup>2</sup>, Ms Kaviya P<sup>3</sup>

<sup>1,2,3</sup> Dept of Corporate Secretaryship

<sup>1,2,3</sup> Sri Krishna Adithya College Of Arts And Science, Kovaipudhur, Coimbatore.

**Abstract-** *Dark Web considers a segment of . It is accessed through TOR. Actors within Dark Web websites are anonymous and hidden. Anonymity, privacy and the possibility of non-detection are three factors that are provided by special browsers such as TOR and I2P. The Dark Web is at the center of the debate over whether to keep anonymity online despite illegal activity. Policymakers need to gain an understanding of the Black Web in order to participate intelligently in the debate and apply an effective Black Web policy. This paper aims to provide contextual recommendations and policies related to the Black Web based on open source research. The number of users in anonymous networks on the Dark Web is another key element that is resulted. In such networks, users are calculated through the client requests of directories (by TOR metrics) and the relay list is updated. Indirectly, the number of users is calculated for the anonymous networks.*

**Keywords-** Cyber security, Dark web , Dark net , Deep web , Government , Public Policy , Tor.

## I. INTRODUCTION

Dark web is one of the illegal websites that we cannot see in any search engine. Certain browsers, such as Tor Browser, are required to access the dark web which was created by the military to protect oversea communication. And it is also used by journalists, enforcement agencies and legitimate users. As with the early Internet, the dark web has also become popular as a refuge for illegal activities. Dark web can be used to sell weapons or drugs and information. These kinds of services are often referred to as hidden services. Even Facebook also has a dark web for who's countries have banned their media network. It is difficult to find out where these sites are hosted and or who is hosting.

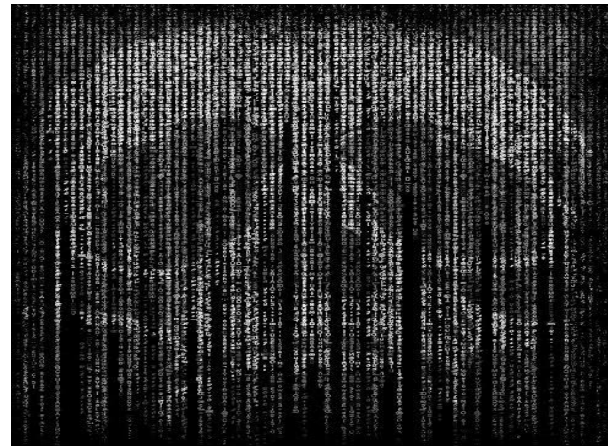
### FOUNDER OF DARK WEB :

ROSS WILLIAM ULBRICHTH is an American who created the darkweb. He was arrested in 2013 because of fraudulent documents in May 2015, he got double life prison without any parole.

### HOW TO ACCESS DARK WEB

The Dark web is accessed by Tor, The Onion Router. It was mainly invented for Safeguard of American Intelligence. There is difference between a normal URL and

dark web URL. It cannot be opened through common search engines like Google, Browser, Firefox etc. The URL in the dark web ends with .ONION. If you are entering Dark web sites, use a virtual private network because it is safer than a VPN browser because VPN may identify your identity and hide your location. TOR is not an easy browser as you think it is very slow compared to other browsers. It is mainly noticed by bot hunting systems. Facebook and The New York Times also have hosted their onion version. After every session TOR clears the browser's history and sweeps your cookies.



### DARK WEB IN MARKET PLACE :

It is also called the Darknet Market. Works through darknet TOR involving German, Australia, Denmark, Moldova, Ukraine, the United Kingdom (the National Crime Agency), and the USA. Their main motive is black market. They stole personal information like credit card, bank information and medical data and loyalty card information to sell it wholesale. It is almost used by 5,00,000 users and 2400 sellers and 32000 transactions. The Central Criminal Investigation Department has arrested an American citizen who is the main operator of the Darknet market.

### BENEFITS OF DARK WEB:

We can't say that it is totally illegal but it is pretty safe to use. It may maintain privacy and it is very useful for the police to cover the criminal through the dark web. It is useful for an entrepreneur to know about his employers and

clients on the dark web. Moreover they create very good friendly - customer service by giving them guarantees.

**DISADVANTAGES OF DARK WEB :**

It is ultimately different from the benefits of the dark web as we saw above. It is only pretty good for their users but not for others. It is one of the worst crime site, they stole most personal information like photos and others. Sometimes it may commit murders

**HOW TO PROTECT FROM HACKING :**

Get prepaid debit cards, invisible before purchase. Don't use anything that can be used to identify you - whether online or in real life. And don't share your username, Password, credit card number, debit card number with anyone and mostly don't throw any kind of tickets like flight tickets. In flight tickets it may have QR scanner code, with that code they stole all kinds of information. And don't open any kind of spam messages like, that you are winning a prize money. And the most important one is, if someone says that he/she gets you a loan from the bank , don't respond to them because they are the agents of selling details.

opened an account of Bitcoin in Dark web and asked the accused to transfer the Bitcoin account. So from this they may seize Bitcoin.

10 crore card data of Indians were leaked by the Bengaluru - based digital payment gateway Juspay

On August 18, 2020 no cards or financial transactions were stolen after hacking the company.

In Chennai,8.2 terabyte consisting of personal information of 3.5 million users were stolen by mobikwik and sold to the dark web.

TOR may hide the location so we don't know from which country they are accessing so India will not raise the legality of access.

**DEEP WEB :**

Deep web cannot be find in search engines like Google, Yahoo and more. It is also as Deep net, Invisible net or hidden web. It is the largest growing category of new information on the internet.400 - 550x more public information than the surface web. Total quality 1000-2000x greater than the quality of the surface web. Approximately 96% of the digital universe is on deep web sites protected by passwords. Jill Ellsworth used the term invisible web in 1994 to refer to the website that were not registered with any search engine.The first use of the specific term Deep web, now generally accepted, occurred aforementioned 2001 Bergnan study. Search engine construct a database of the web by using programs called spiders or web crawlers that begin with the list of unknown web pages. The spider gets the copy of each page and indexes it. Storing useful information that will let the page be quickly retrieved again later. Any hyperlinks to new pages are added to the list of pages to be crawled. Eventually all reachable pages are indexed unless the spider runs out of time or disk space.The collection of reachable pages defines the surface web. The deep web is an endless repository for a mind - reeling amount of information. It's powerful, it unleashes human nature in all its form, both good and bad. There are engineering databases financial information of all kinds, medical papers and pictures and illustrations the list goes on basically for over.



**CASES FILED IN INDIA FOR DARK WEB :**

On February 22,2021 Dark web, drugs and bitcoins were seized by the Police officers in Bengaluru. Police officer

**Deep web vs. Dark Web: What is the difference?**

It is the web which cannot be accessed by the search engines, like government private data, bank data, cloud data etc. The dark web, on the other hand, is defined as “the portion of the Internet that is intentionally hidden from search engines,

uses masked IP addresses, and is accessible only with a special web browser: part of the deep web.” Dark (which can mean “hidden; secret”) is first found before the year 1000 and comes from the Middle English word *derk*. Black Web is a subset of Deep Web that is deliberately hidden and requires access to a specific browser door, as described below. No one really knows the size of the black web, but most estimates make up 5% of the total Internet. Also, not all black web is used for illegal purposes despite the threatening name. The terms “deep web” and “dark web” are sometimes used interchangeably, but they are not the same. Deep Web refers to anything online that is not shown and therefore, therefore, is available through a search engine like Google. Deep web content includes anything behind paywall or requires login credentials. It also includes any content that its owners have blocked web pages from identifying. Medical records, paid content content, membership websites, and private web pages are just a few examples of what makes a deep web. Estimated to place a deep web size between 96% and 99% of the internet. Only a small part of the internet is accessible through a standard web browser - popularly known as the “clear web”.

## II. CONCLUSION

The controversy surrounding the Black Web is not over. Anonymity on the Internet is a double-edged sword that must be handled with care. As policymakers move forward, they must monitor the emergence of the Black Web and ensure that law enforcement agencies have the resources and legal support to be effective in the Dark Web. Black Web policy, like all good policy, needs to be well-directed and well thought out in order to balance the needs of users who love privacy with the government's responsibility to stop illegal activities. On the other hand, The deep web is continue to preplex and fascinate everyone who uses the internet. It contains an enthralling amount of knowledge that could help us evolve technology spices when connected to other bits of information. And of course, it's darker side will always be lurking, too just always does in human nature. The deep web speaks to the fathomless scattered potential of not only the internet but the human race too.

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