

THE DEEP WEB – WEB REVERSE SIDE

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In the modern world on the globe are very few people left who do not have representation on the World Wide Web. Internet in the middle of the 20th century broke into human life and firmly took a perfect niche and boundless assistant in solving communication problems and find information. Now it is simply impossible to imagine the absence of the Internet, and with it the possibility of obtaining an answer to any questions. With the internet not only allowed instant communication, but also the successful development of the business, obtaining self-education, the solution of international issues, conducting cash transactions, leisure and many other things.

Undoubtedly, the Web is a huge advantage, but, as it turns out, there is a dark side to it. Few people know that only 15-20% of the Internet is available. The rest of the network of secret and is called deep Internet. Modern technologies allow to create a network to comply with the absolute anonymity of the user to bypass the monitoring of providers servers. Such a network is called the Deep Web - Internet underground. Specificity of the Deep Web - unconditional anonymity, absolute independence from the provider's server, which eliminates the ability to determine what information exchanged between users. Such a secret exchange called onion routing. Deep Web is not indexed by search engines.

On the territory of the shadow of the Internet are e-commerce Web sites, where they sell weapons, drugs, false documents. Here limitless "zones" for the preparation of coups and military solutions of various issues. This invisible Internet has more than 8,000 terabytes of information (600 billion individual documents), it is a huge amount compared to 20 billion. "Surface" of the Internet.

How to enter a hidden Internet?

Log in Deep Web is easy, just need to know how.

To log on to any website Deep Web user data is encrypted and in this form are sent via the same network participants. The disadvantage of the work of this data at their anonymity - its rather low speed.

To access the Internet using a browser of the shadow (or browser plugin), based at the Tor project. This project was developed by the US military, and then declassified and codes transmitted by an independent software companies. Tor - the dominant technology that uses onion routing. The network allows the anonymity of senders and recipients of messages and protects the content of these messages as they pass through it.

All connections in Tor hidden network anonymous: no Internet Service Provide or site owner can not see who you really are (using HTTPS). This works because the network replaces the current address of your computer fake.

How to use Tor?

The scheme of the Tor is simple. The user downloads the Tor-browser on your computer and connects to the network, running it. And from this moment people can anonymously and absolutely fearlessly roam the deep web. No additional settings and complicated steps! And for those who want to get access to the torus with android devices tor android. And be sure to visit the sites where it is easier to start acquaintance with the network.

What is the onion routing? Meaning of onion routing

Onion routing - a technology anonymous data sharing over the network. Posts repeatedly encrypted and then sent through several network nodes, which are called - onion routers. Each router removes a layer of encryption, in order to open the trace statements and send messages the next router where all these actions are repeated. That is, the intermediate nodes do not know the source, destination and content of the message itself.

This routing developed Syverson Poole, Michael Reed and David Goldshlag. The technology has been patented by the US Navy. As of 2009, the Tor network is the dominant network which uses onion routing.

The idea of Onion routing in preserving the anonymity of the sender and the recipient information and protecting the content of the message when it is transmitted.

Onion routing operates on the principle of mixed compounds Chaum, i.e. a message from a source to a destination is transmitted through a sequence of proxies that redirect it in any direction. Messages are transmitted in encrypted form, in order to avoid listening. The advantage of the Onion routing is, there is no need to trust each participating router. Even if one of them is compromised, anonymous connections can still be established, as each router in the network Onion routing encrypts the message and re-transmits them to another Onion routing.

Conclusion

"Deep Internet" is a secret network in which illegal transactions are carried out, purchases and sales of weapons and military equipment in this network are plans for organizing uprisings.

Deep Internet is a secret network in which it is better for users not to enter from their computer, otherwise the police or security service can come to you in case of not legitimate actions committed by you on the network, as each user is put on a special account as soon as he sets himself Torus.

References:

1. Husk M. Top 5 Dark Web Mysteries [Text] / M. Husk // How to monitor the Dark Web. — 2015. — № 9. — pp. 15—25.
2. Bartlett J. Inside the Digital Underworld Paperback [Text] / J. Bartlett // The Dark Net. — 2016. — № 7. — pp. 35—53.
3. Amores R..The Deep Dark Web [Text] / R. Amores // The hidden world. — 2017. — №8. — pp. 59—65.
4. Henderson L. Tor and the Dark Art of Anonymity [Text] / L. Henderson How to Be Invisible from NSA Spying Paperback. —2015. — № 5. — pp. 26—33.
5. Price G. The invisible WEB [Text] / G. Price // To bypass the monitoring of providers servers. — 2015. — № 10. — pp. 18-20.