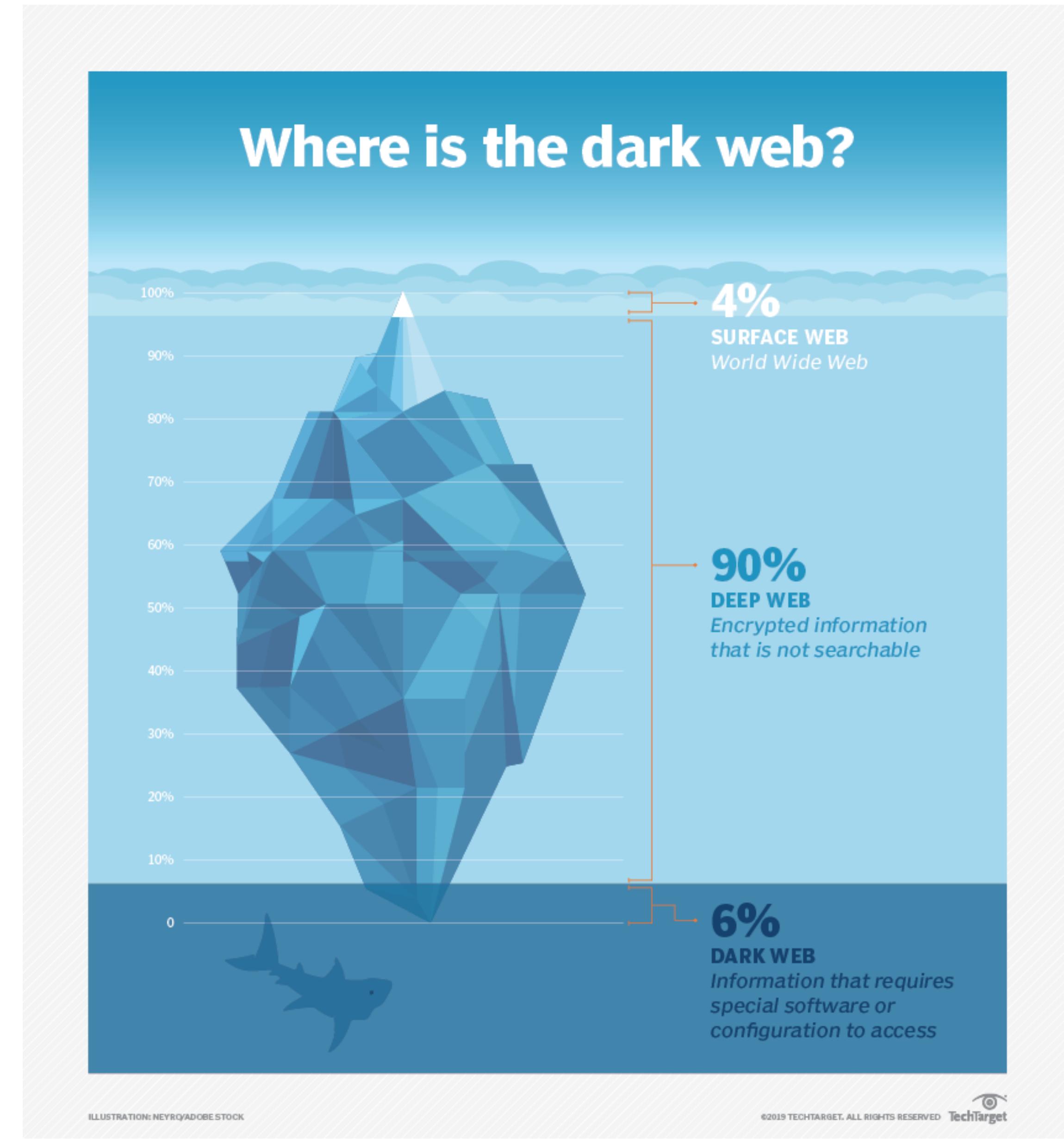


# **The Dark Web & Cybersecurity**

**Tour of the World Wide Web – Session 7**

**Duke OLLI Fall 2023**

**David Shamlan**



# Who uses the Dark Web

- Journalists & whistleblowers
- Political dissidents
- Abuse victims
- Terrorist groups, arms traders, human traffickers
- Child pornographers
- Cybercriminals (aka, “hackers”)
- Cybersecurity researchers

TorBrowser Fichier Édition Affichage Historique Marque-pages Outils Fenêtre Aide Welcome! | Silk Road

Deep web links... Welcome! | Silk... TURN BACK NO... silkroad - Start... The Ultimate T... [Unicon] DEEP ... Erreur de char... Erreur de char... Erreur de char... +

silkroad

messages 0 | orders 0 | account \$0.0000

Search Go

a few words from the Dread Pirate Roberts

Hi, hrtsphpdx logout 0

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From the forum

- Silk Road movie night: cast your VOTE!
- Ask a drug expert physician about drugs and health
- Winning the war on drugs
- New display currencies
- Try Tails for a more secure OS

silkroadvb5piz3r.onion/silkroad/item/ba61911e10 55

Mac OS X Dock: Mail, Address Book, iCal, iPhoto, iMovie, iDVD, iWork, iLife, iTools, iStat Menus, iStat Menus Pro, iStat Menus X, iStat Menus X Pro, iStat Menus X Pro 2, iStat Menus X Pro 3, iStat Menus X Pro 4, iStat Menus X Pro 5, iStat Menus X Pro 6, iStat Menus X Pro 7, iStat Menus X Pro 8, iStat Menus X Pro 9, iStat Menus X Pro 10, iStat Menus X Pro 11, iStat Menus X Pro 12, iStat Menus X Pro 13, iStat Menus X Pro 14, iStat Menus X Pro 15, iStat Menus X Pro 16, iStat Menus X Pro 17, iStat Menus X Pro 18, iStat Menus X Pro 19, iStat Menus X Pro 20, iStat Menus X Pro 21, iStat Menus X Pro 22, iStat Menus X Pro 23, iStat Menus X Pro 24, iStat Menus X Pro 25, iStat Menus X Pro 26, iStat Menus X Pro 27, iStat Menus X Pro 28, iStat Menus X Pro 29, iStat Menus X Pro 30, iStat Menus X Pro 31, iStat Menus X Pro 32, iStat Menus X Pro 33, iStat Menus X Pro 34, iStat Menus X Pro 35, iStat Menus X Pro 36, iStat Menus X Pro 37, iStat Menus X Pro 38, iStat Menus X Pro 39, iStat Menus X Pro 40, 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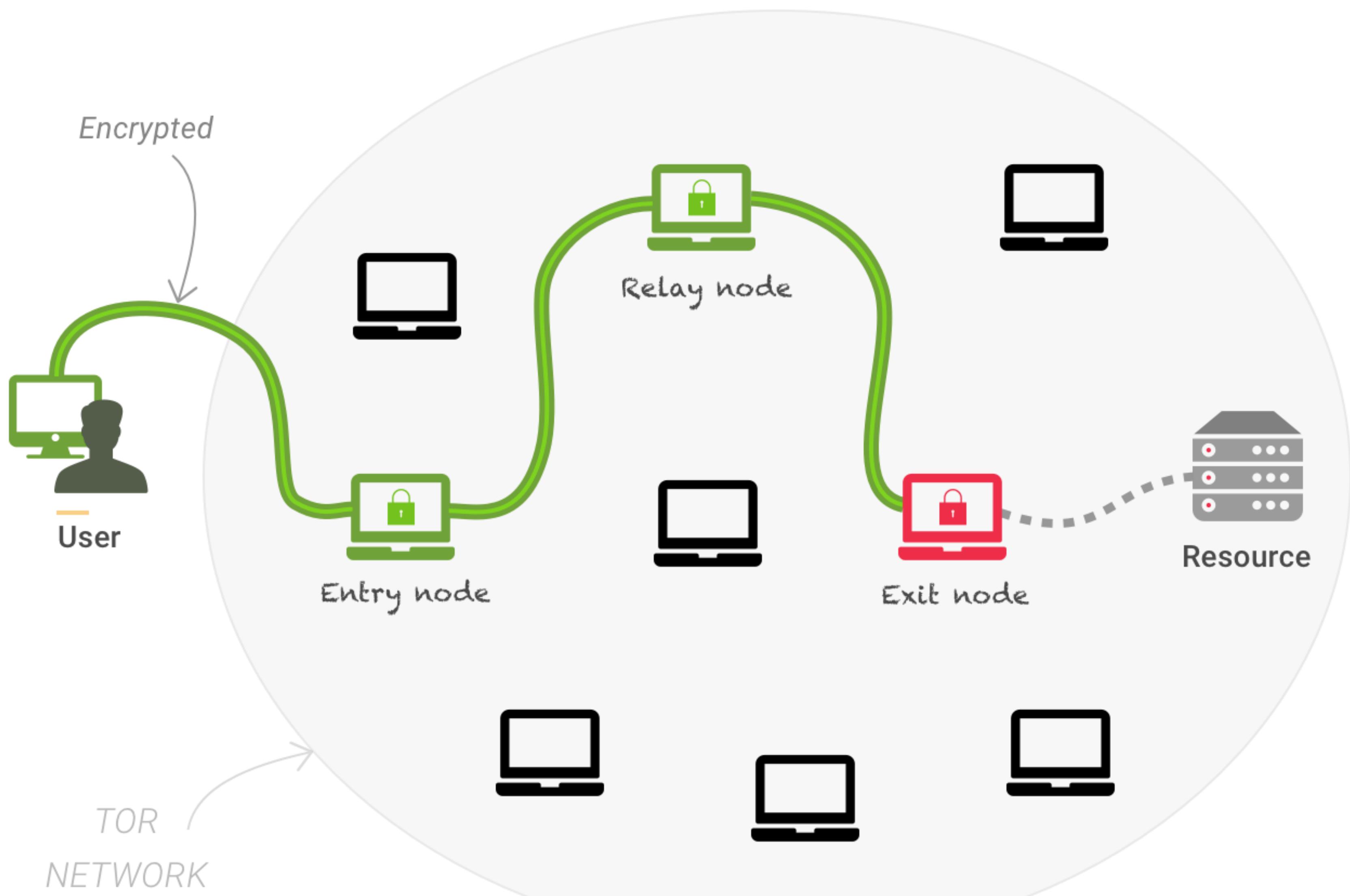
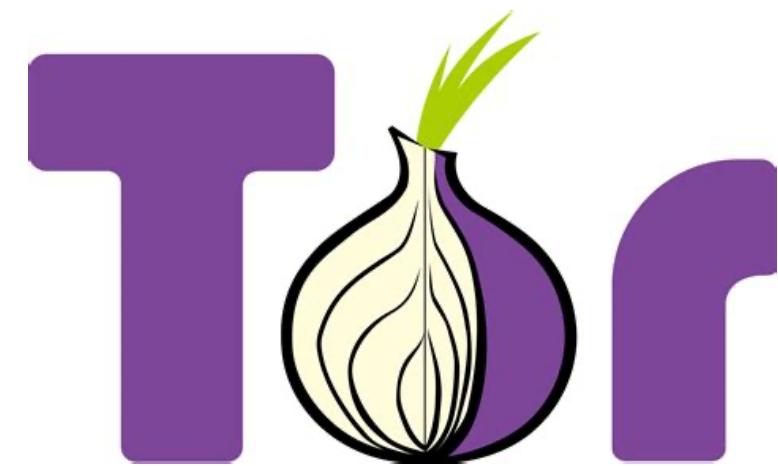
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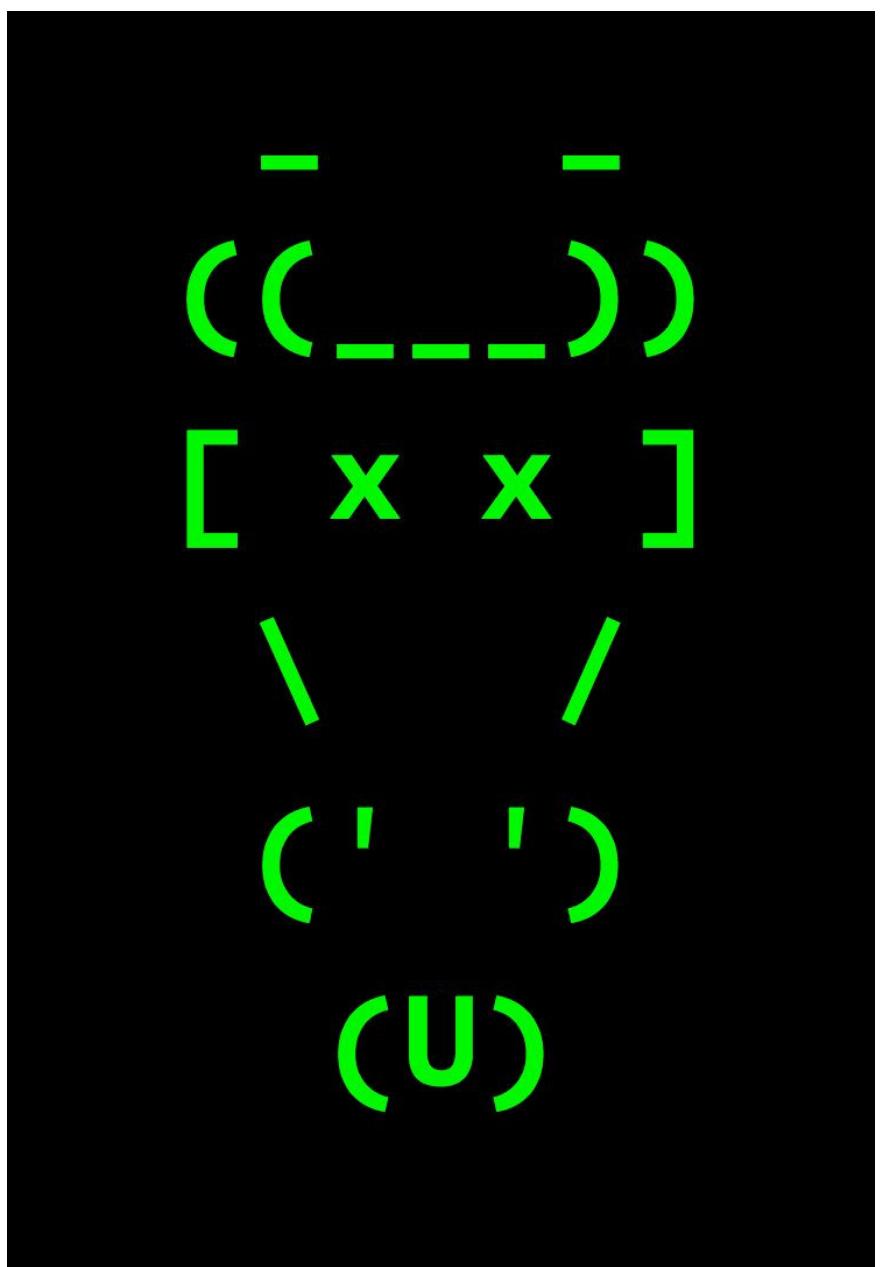


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# Goods & Services

Credit Card Data	\$5 - \$110
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Social Media Accounts	\$1 - \$60
Hacked Services	\$1 - \$300
Forged Documents	\$150 - \$,3000
Email Database Dumps	\$100 - \$120
Malware	\$35 - \$4,500
DDOS Attacks	\$10 - \$750





**LOCKBIT 3.0**

# Types of Cyber Criminals

- Hacktivists
- Script Kiddies
- State Actors
- Insider Threats
  - Malicious insider
  - Negligent insider
  - Third-party or mole
- Scammers
- Cybercrime Groups

# Types of malware

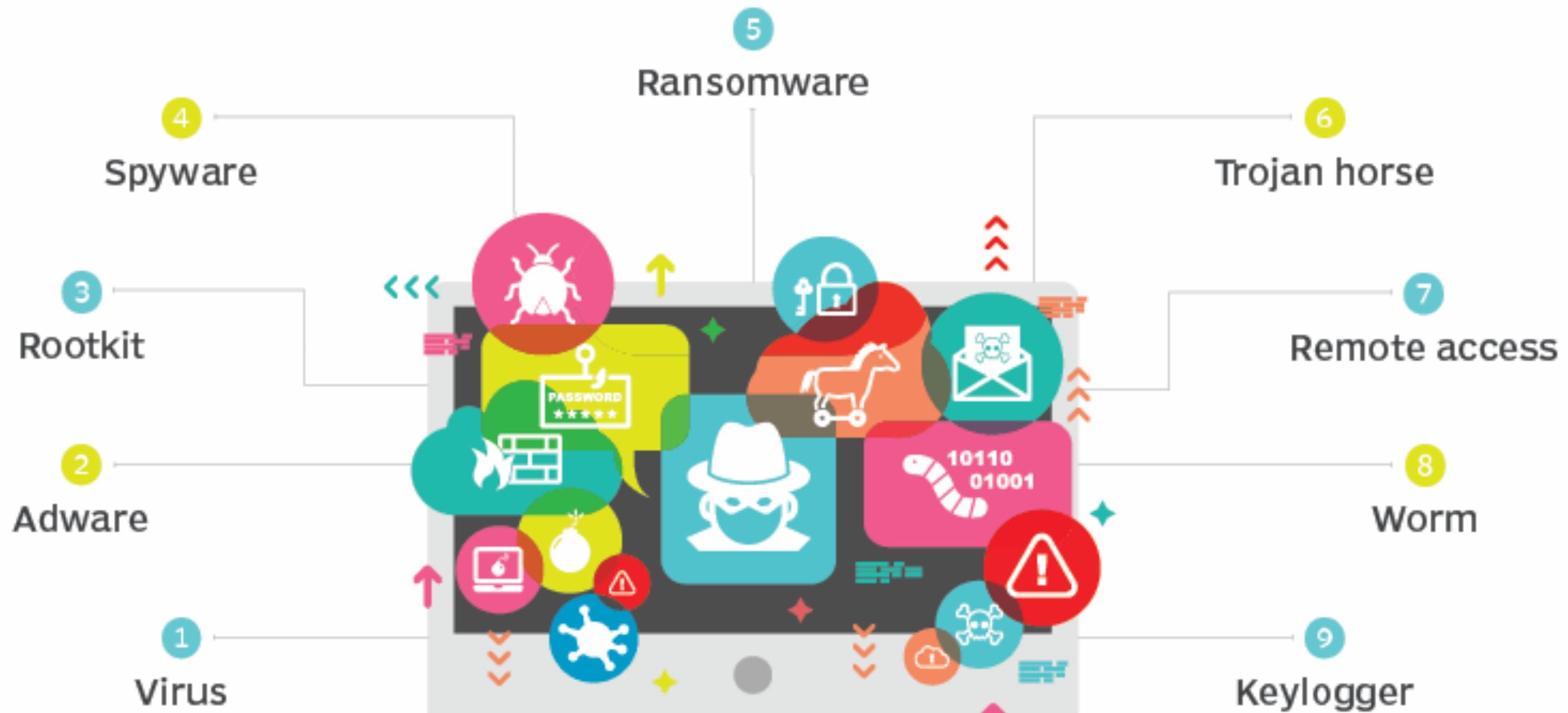


ILLUSTRATION: APINAN/ADBE STOCK, GOODDESIGN10/ADBE STOCK, TULPAHN/ ADOBE STOCK

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## Top Cybersecurity Concerns

Privacy remains a major worry for online users.



**58%**

of adults are more worried than ever about **being a victim** of cybercrime.



**63%**

of consumers are very worried their **identity will be stolen**.



**78%**

of consumers are concerned about **data privacy**.



Source: Norton

## Cyberattacks at a Glance

Ponder these prominent cybersecurity threats in recent years.



There was a 40% surge in global **ransomware** in 2020.



22% of consumers have detected **malware** on an internet-connected device.



**Phishing** was the topmost internet crime reported to the FBI in 2020.



There was a 67% increase in **security breaches** between 2014 and 2019.



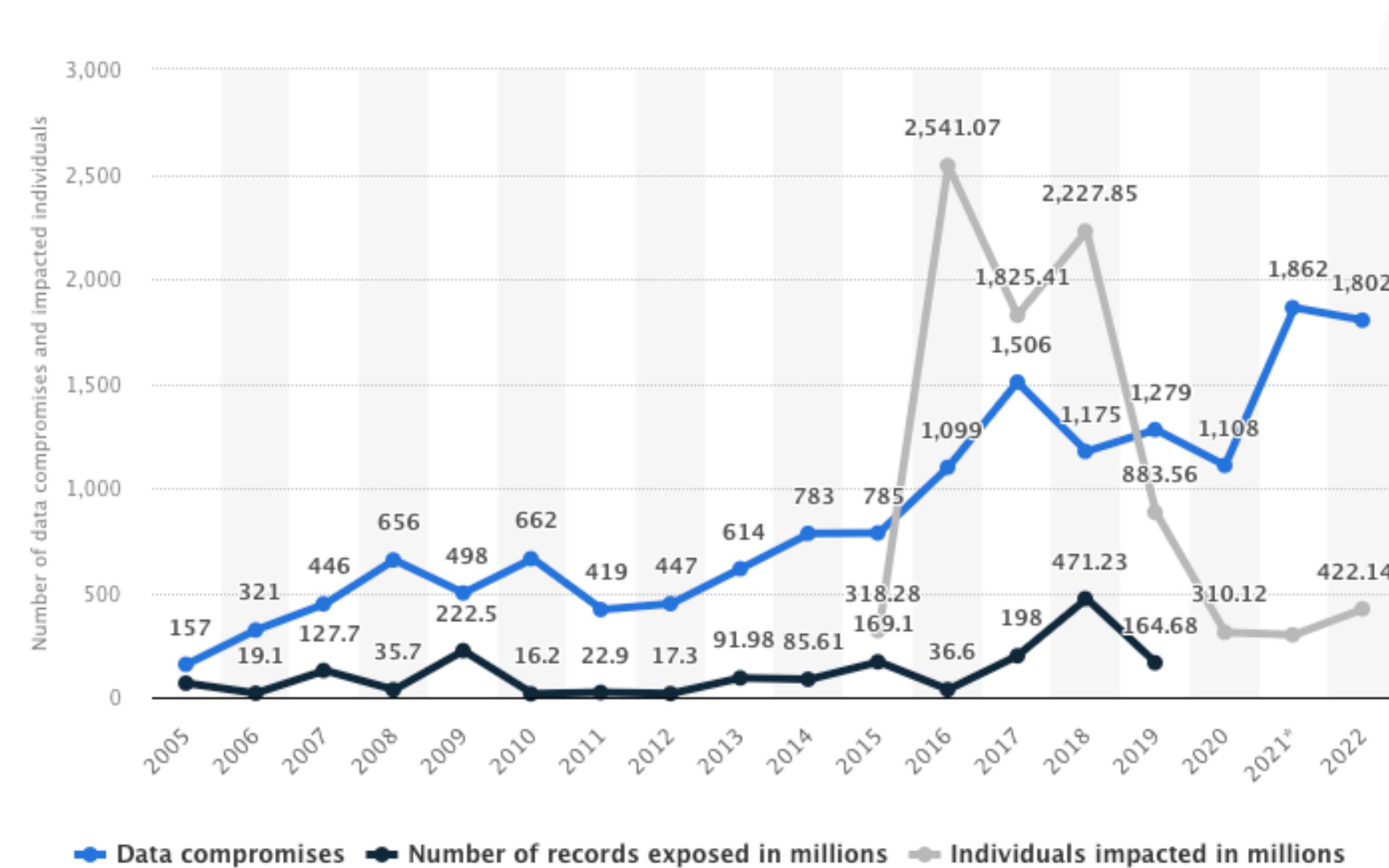
Instances of **stalkerware** increased by 20% from November to January 2021.



**Social engineering** is the most successful means to a data breach.

Source: SonicWall, Norton, FBI, Accenture, Verizon

# Annual Number of Data Breaches



# The Cost of Cybercrimes



Internet crime victim losses in 2020:

**\$4.2 billion**



The average cost of a ransomware attack:

**\$1.85 million**



Global cybercrime damages per second:

**\$190,000**



The average cost of cybercrime for organizations:

**\$13 million**

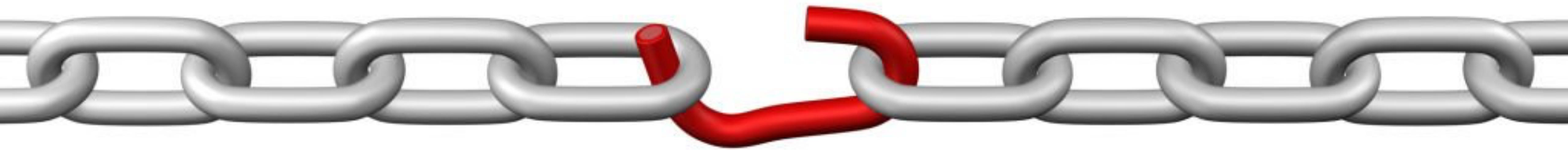
*Source: FBI, Sophos, Cybersecurity Ventures, Accenture*

# Cybersecurity

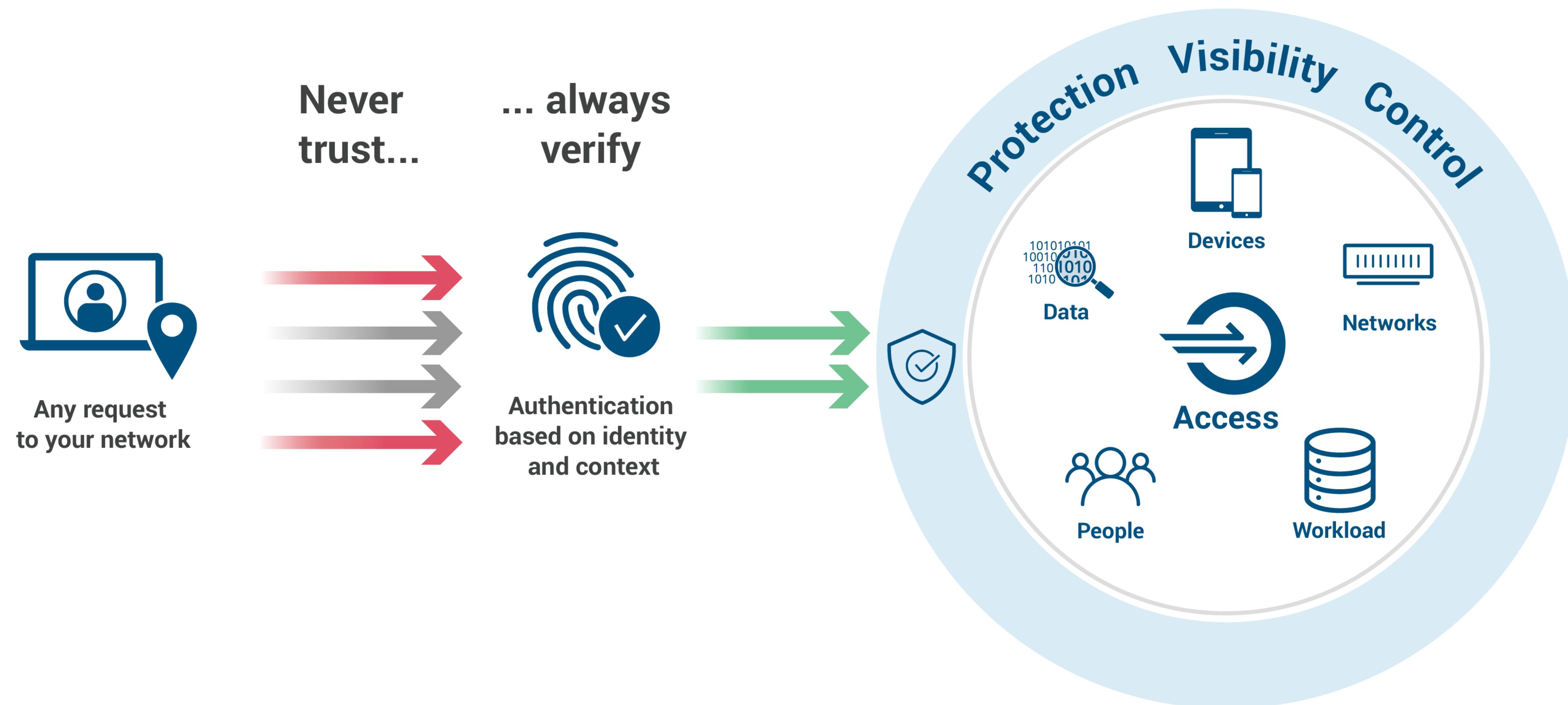
# TRUST

# Cybersecurity Goals

1. Authentication
2. Authorization
3. Confidentiality
4. Nonrepudiation
5. Integrity
6. Availability



# Zero Trust Security



# Unsolicited Advice

1. Strong and unique passwords for all accounts
  - *Use Two Factor Authentication (2FA) when offered*
2. Keep your OS and applications up to date
3. Be vigilant for phishing and scammers

# Password managers

- 1Password
- Bitwarden
- Dashlane
- KeePass
- Keeper
- Nordpass
- Norton Password Manager