



The “New Normal” State of Cybersecurity

LESSONS LEARNED DURING THE PANDEMIC

About me

Bogdan BOTEZATU

- 20 years of fighting cybercrime in different roles
- 14 years under the Draco sign as Director of Threat Research @ Bitdefender
- Builder of decryptors and removal tools before it was cool



Advanced Threat Intelligence

Continuously built into prevention technologies, analytics, and MDR operations



35 billion

Daily threat queries from hundreds of millions of sensors worldwide

400+

Threats discovered every minute (criminals, nation-states, malicious actors)

20

Ransomware decryptors provided free to the market

\$billions

Helped law enforcement take down major cybercrime groups with estimated worth in the billions

285

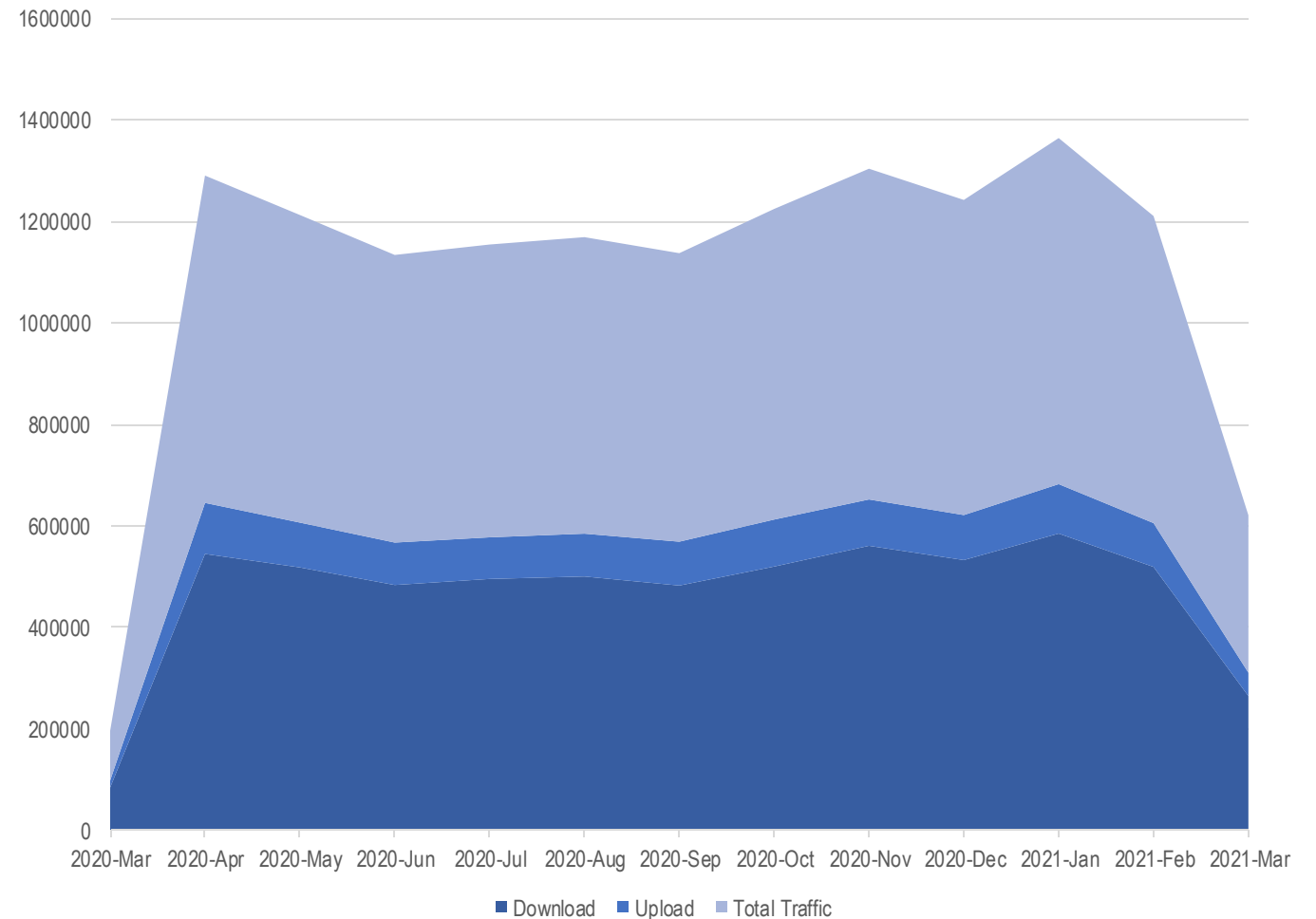
Elite security researchers, threat hunters and security analysts. Close collaboration on incident response with law enforcement; Working with leading academics on quantum computing and cryptography

400+

R&D employees focused on cloud, emerging technology, IoT research and machine learning

Pandemic threat landscape

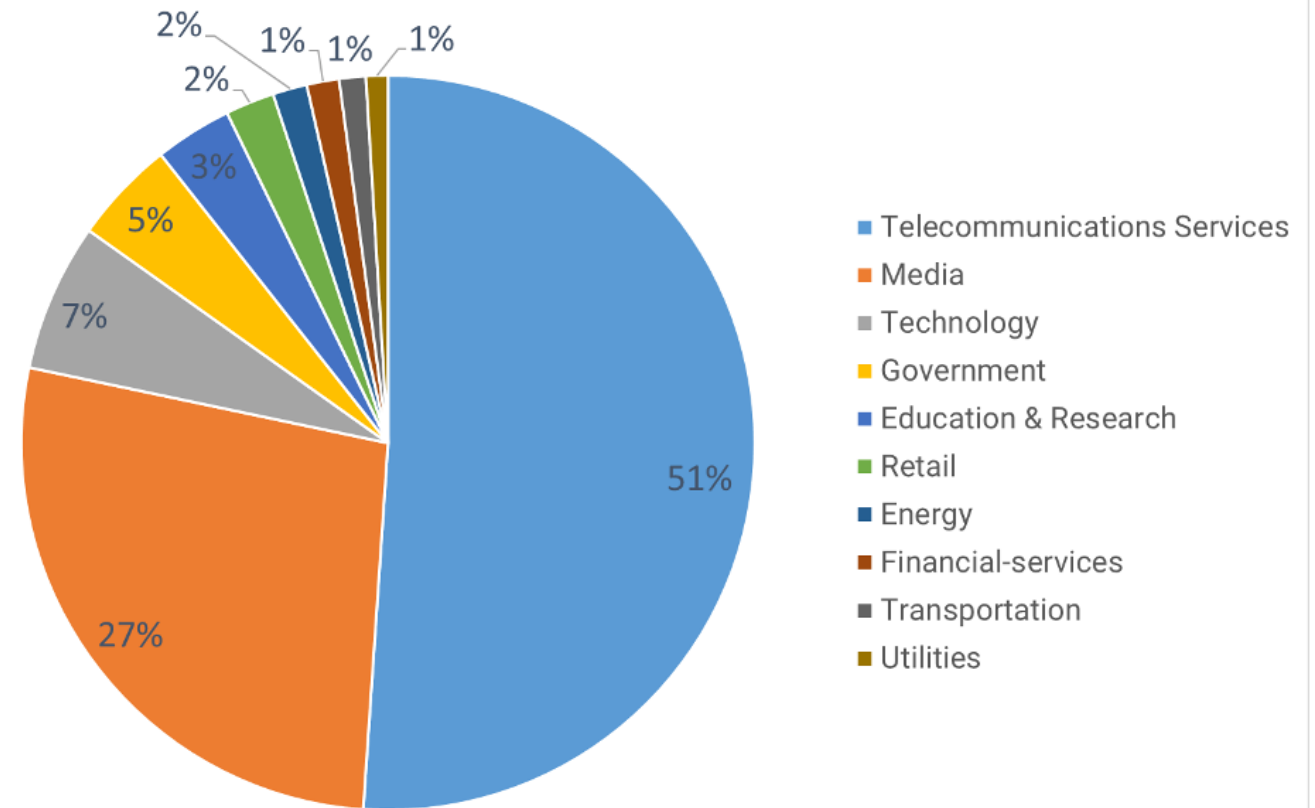
- 4 out of 10 Covid-themed emails are spam
- 46 percent increase in the number of IoT suspicious incident reports
- 55.73 percent of IoT network threats involve port-scanning attacks
- GoLang becoming a popular programming language for IoT malware
- Significant increase of RDP bruteforce attacks and phishing targeted at employees
- Attackers focus more on social engineering, less on malware sophistication



Ransomware during the pandemic

- **485 (c) / 715 (b) percent increase** in year-over-year ransomware attacks
- New vectors include **supply chain attacks** to reach larger pools of victims
- Ransomware becomes a real threat to national security (Darkside vs. Colonial Pipeline)
- Most ransomware attacks go unreported unless featured in the media*

Top 10 industries - August 2021





Challenges

Ransomware is a mature business with proven return of investment:

- Darkside – \$4.4 million in one run
- RagnarLocker - \$4.5 million in one run
- GandCrab – 2 BILLION USD in 18 months

New contenders show up to fill the gaps left behind by big players

Rebranding of “rockstar” groups who so far avoided arrests

- GandCrab -> REvil
- Ryuk -> Conti
- DarkSide -> BlackMatter

Opportunities

Collaboration with Law Enforcement Agencies is effective and helps curb down on ransomware attacks

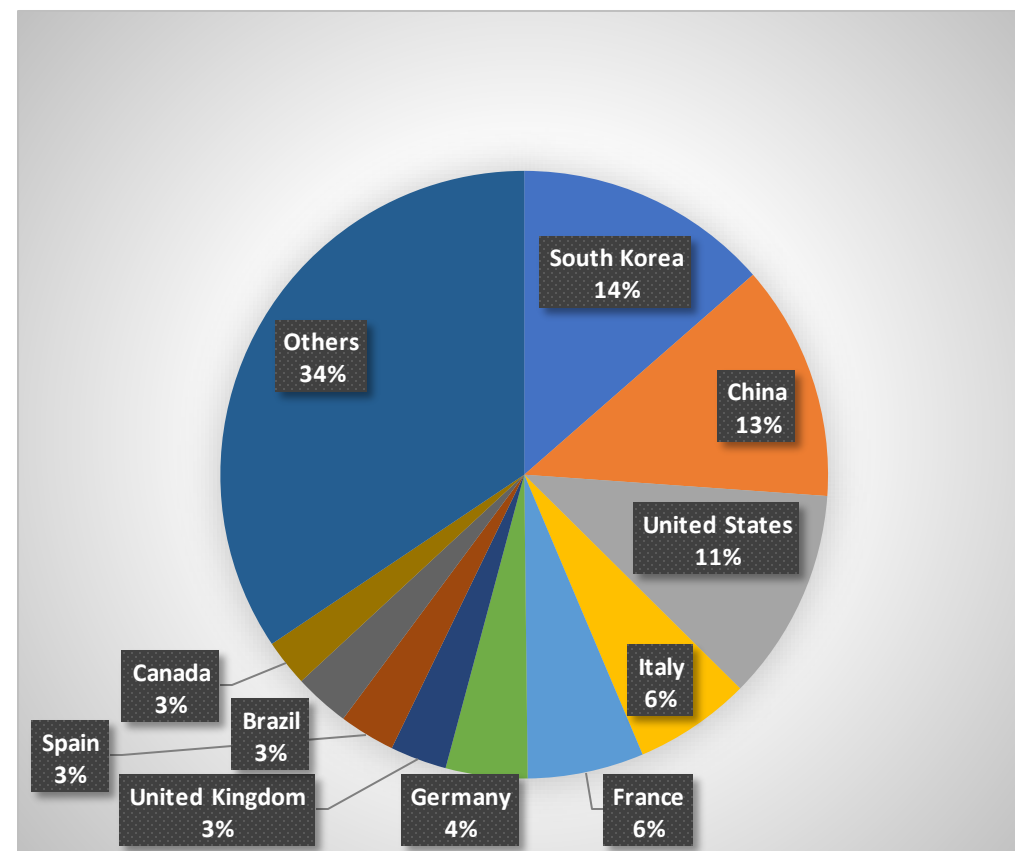
Bitdefender helps users decrypt data for free – more than **1,400** victim-companies in 84 countries saved - #GoldDust

That's more than **500 MILLION** US dollars in unpaid ransom

Weaken operators by cutting off supplies

Internal struggle between affiliates

Establish a positive mindset: a decryptor will be available soon, so **#DONTPAY** the ransom.





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