3.4.1 Activity outline

Investigation on Darknet and Virtual Currencies

in cooperation with Romania's Directorate for the Investigation of Organised Crime and Terrorism (DIICOT)

Bucharest, Romania
28 February – 3 March 2017

Background

The Darknet is becoming increasingly a place where illegal activity thrives and criminals function in perceived anonymity. Reportedly, almost 30% of hidden services on Tor relate to some form of illicit activity, such as selling illicit drugs, weapons, compromised data, counterfeit pharmaceuticals, chemicals and other illicit products. "This highlights the increasing dependence of other crime areas on online services, and the subsequent need for all law enforcement to have the capability to investigate online."[1]

Cybercrime Programme Office (C-PROC) of the Council of Europe, within the framework of iPROCEEDS project is organising a pilot training on Investigation on Darknet and Virtual currencies with the support of the law enforcement officers from Austria, Belgium and The Netherlands. This training was developed under EMPACT framework and it has been facilitated by the European Cybercrime Training and Education Group (ECTEG).

The action will involve cybercrime investigators, financial investigators, other phenomena experts and prosecutors who will learn how to work in a practical way in detecting, identifying, collecting intelligence and evidence in order to prosecute all criminal activities on the Darknet or using virtual currencies.

Expected Outcome

The training seeks to increase the skills, expertise and knowledge of the law enforcement officers on investigating the Darknet and virtual currencies that would result in more efficient and effective investigative efforts, having a direct impact on the criminal threat.

Participants

The target group of the activity are law enforcement officials having to deal with crimes facilitated by use of Internet Dark Web sites, as well as financial investigators and prosecutors from Albania, Bosnia and Herzegovina, Montenegro, Serbia, "the former Yugoslav Republic of Macedonia", Turkey Kosovo*[2] and Romania.

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[1] Internet Organised Crime Threat Assessment (IOCTA) 2016, p. 48.

[2] *This designation is without prejudice to positions on status, and is in line with UNSC 1244 and the ICJ Opinion on the Kosovo Declaration of Independence.

Location

Directorate for the Investigation of Organised Crime and Terrorism (DIICOT) HQ, Calea Griviței 24, Bucharest, Romania.

Programme

Monday, 27 February 2017	
09h00	Arrival of the participants
13h00	Lunch break
14h00	Arrival of the participants and set-up of the classroom (only trainers)
17h00	End of day 1
19h00	Dinner
Tuesday, 28 February 2017	
09h00	Opening session (DIICOT, Council of Europe)
09h20	Introduction and tour de table
10h00	**Module 1: Introduction to the Internet** ▪ IPv4 – IPv6 addresses ▪ Identification of user/IAP ▪ Identification of domain owner ▪ Use of DNS/DNS site blocking ▪ VPN basics ▪ Protocols, HTTP ▪ Hands-on
13h00	Lunch break
14h00	▪ Multiple sites on one IP ▪ Multiple IP for one site ▪ Static vs. dynamic web: how to seize ▪ Google searches – basic of crawlers ▪ Traces on server side ▪ Hands-on
17h00	End of day 2
19h00	Dinner
Wednesday, 1 March 2017	

09h00	**Module 2: Encryption and anonymity**
	▪ Cryptography basics
	  ○ Playing with PGP + hands-on
	▪ Anonymising tools/services
	  ○ Proxy, VPN etc. + hands-on
	▪ Diving into Tor
	  ○ Concepts/underlying techniques
	  ○ Start with Tor Browser
	  ○ Useful resources
	  ○ Hidden services
	  ○ Tools/services
	  ○ Alternatives to Tor
	  ○ Hands-on

13h00	Lunch break
14h00	**Module 3: Exploring the dark web**

	▪ Criminal Business Model
	  ○ Jabber hands-on
	▪ Shining a light into the dark web
	  ○ Searching the dark web
	  ○ OSINT
	▪ Link entities between dark web and surface web
	▪ Google hacks and social media
	▪ Hands-on

17h00	End of day 3
19h00	Dinner
Thursday, 2 March 2017	
09h00	**Module 4: Virtual/crypto currencies** ▪ Introduction ▪ Anonymous money ▪ What is Bitcoin ▪ Alternatives to Bitcoin ▪ The Bitcoin network ▪ How to buy bitcoins ▪ Bitcoin wallets + practicals
13h00	Lunch break
14h00	▪ How do Bitcoin transactions work ▪ Blockchain analysis and tools ▪ Role of exchangers and mixers ▪ Seizure of bitcoins + practicals
17h00	End of day 4
19h00	Dinner
Friday, 3 March 2017	
09h00	**Case study** ▪ Operational case example + quiz ▪ Case exercises ○ Q&A ▪ Applying knowledge learned and best practices ▪ Feedback and evaluations
12h00	Closing ceremony and certificates
13h00	Lunch break
14h00	End of day 5
19h00	Dinner

Contact

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