[115H4036]

.....

(Original Signature of Member)

116TH CONGRESS 1ST SESSION



To amend title 18, United States Code, to provide a defense to prosecution for fraud and related activity in connection with computers for persons defending against unauthorized intrusions into their computers, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

Mr. GRAVES of Georgia introduced the following bill; which was referred to the Committee on _____

A BILL

- To amend title 18, United States Code, to provide a defense to prosecution for fraud and related activity in connection with computers for persons defending against unauthorized intrusions into their computers, and for other purposes.
 - 1 Be it enacted by the Senate and House of Representa-
 - 2 tives of the United States of America in Congress assembled,

3 SECTION 1. SHORT TITLE.

- 4 This Act may be cited as the "Active Cyber Defense
- 5 Certainty Act".

1 SEC. 2. CONGRESSIONAL FINDINGS.

2 Congress finds the following:

3 (1) Cyber fraud and related cyber-enabled
4 crimes pose a severe threat to the national security
5 and economic vitality of the United States.

6 (2) As a result of the unique nature of 7 cybercrime, it is very difficult for law enforcement to 8 respond to and prosecute cybercrime in a timely 9 manner, leading to the existing low level of deter-10 rence and a rapidly growing threat. In 2017, the De-11 partment of Justice prosecuted only 165 cases of 12 computer fraud. Congress determines that this sta-13 tus quo is unacceptable and that if left unchecked, 14 the trend in cybercrime will only continue to deterio-15 rate.

16 (3) Cybercriminals have developed new tactics
17 for monetizing the proceeds of their criminal acts,
18 making it likely that the criminal activity will be fur19 ther incentivized in the absence of reforms to cur20 rent law allowing for new cyber tools and deterrence
21 methods for defenders.

(4) When a citizen or United States business is
victimized as the result of such crime, the first recourse should be to report the crime to law enforcement and seek to improve defensive measures.

1 (5) Congress also acknowledges that many 2 cyberattacks could be prevented through improved 3 cyber defensive practices, including enhanced train-4 ing, strong passwords, and routine updating and 5 patching to computer systems.

6 (6) Congress determines that the use of active
7 cyber defense techniques, when properly applied, can
8 also assist in improving defenses and deterring
9 cybercrimes.

10 (7) Congress also acknowledges that many pri-11 vate entities are increasingly concerned with stem-12 ming the growth of dark web based cyber-enabled 13 crimes. The Department of Justice should attempt 14 to clarify the proper protocol for entities who are en-15 gaged in active cyber defense in the dark web so 16 that these defenders can return private property 17 such as intellectual property and financial records 18 gathered inadvertently.

(8) Congress also recognizes that while Federal
agencies will need to prioritize cyber incidents of national significance, there is the potential to assist the
private sector by being more responsive to reports of
crime through different reporting mechanisms. Many
reported cybercrimes are not responded to in a time-

ly manner creating significant uncertainty for many
 businesses and individuals.

3 (9) Computer defenders should also exercise ex4 treme caution to avoid violating the law of any other
5 nation where an attacker's computer may reside.

6 (10) Congress holds that active cyber defense 7 techniques should only be used by qualified defend-8 ers with a high degree of confidence in attribution, 9 and that extreme caution should be taken to avoid 10 impacting intermediary computers or resulting in an 11 escalatory cycle of cyber activity.

(11) It is the purpose of this Act to provide
legal certainty by clarifying the type of tools and
techniques that defenders can use that exceed the
boundaries of their own computer network.

16 SEC. 3. EXCEPTION FOR THE USE OF ATTRIBUTIONAL17TECHNOLOGY.

18 Section 1030 of title 18, United States Code, is19 amended by adding at the end the following:

20 "(k) EXCEPTION FOR THE USE OF ATTRIBUTIONAL21 TECHNOLOGY.—

"(1) This section shall not apply with respect to
the use of attributional technology in regard to a defender who uses a program, code, or command for
attributional purposes that beacons or returns loca-

tional or attributional data in response to a cyber in trusion in order to identify the source of an intru sion; if—

4 "(A) the program, code, or command origi5 nated on the computer of the defender but is
6 copied or removed by an unauthorized user; and
7 "(B) the program, code or command does
8 not result in the destruction of data or result

9 in an impairment of the essential operating
10 functionality of the attacker's computer system,
11 or intentionally create a backdoor enabling in12 trusive access into the attacker's computer sys13 tem.

14 "(2) DEFINITION.—The term 'attributional
15 data' means any digital information such as log files,
16 text strings, time stamps, malware samples, identi17 fiers such as user names and Internet Protocol ad18 dresses and metadata or other digital artifacts gath19 ered through forensic analysis.".

20 SEC. 4. EXCLUSION FROM PROSECUTION FOR CERTAIN
21 COMPUTER CRIMES FOR THOSE TAKING AC22 TIVE CYBER DEFENSE MEASURES.

23 Section 1030 of title 18, United States Code, is24 amended by adding at the end the following:

"(l) ACTIVE CYBER DEFENSE MEASURES NOT A
 VIOLATION.—

3 "(1) GENERALLY.—It is a defense to a criminal
4 prosecution under this section that the conduct con5 stituting the offense was an active cyber defense
6 measure.

"(2) INAPPLICABILITY TO CIVIL ACTION.—the
defense against prosecution created by this section
does not prevent a United States person or entity
who is targeted by an active defense measure from
seeking a civil remedy, including compensatory damages or injunctive relief pursuant to subsection (g).

13 "(3) DEFINITIONS.—In this subsection—

"(A) the term 'defender' means a person
or an entity that is a victim of a persistent unauthorized intrusion of the individual entity's
computer;

18 "(B) the term 'active cyber defense meas19 ure'—

20 "(i) means any measure—
21 "(I) undertaken by, or at the di22 rection of, a defender; and
23 "(II) consisting of accessing
24 without authorization the computer of
25 the attacker to the defender's own

1	network to gather information in
2	order to—
3	"(aa) establish attribution of
4	criminal activity to share with
5	law enforcement and other
6	United States Government agen-
7	cies responsible for cybersecurity;
8	"(bb) disrupt continued un-
9	authorized activity against the
10	defender's own network; or
11	"(cc) monitor the behavior
12	of an attacker to assist in devel-
13	oping future intrusion prevention
14	or cyber defense techniques; but
15	"(ii) does not include conduct that—
16	"(I) intentionally destroys or ren-
17	ders inoperable information that does
18	not belong to the victim that is stored
19	on another person or entity's com-
20	puter;
21	"(II) recklessly causes physical
22	injury or financial loss as described
23	under subsection $(c)(4)$;
24	"(III) creates a threat to the
25	public health or safety;

1	"(IV) intentionally exceeds the
2	level of activity required to perform
3	reconnaissance on an intermediary
4	computer to allow for attribution of
5	the origin of the persistent cyber in-
6	trusion;
7	"(V) intentionally results in in-
8	trusive or remote access into an
9	intermediary's computer;
10	"(VI) intentionally results in the
11	persistent disruption to a person or
12	entities internet connectivity resulting
13	in damages defined under subsection
14	(c)(4); or
15	"(VII) impacts any computer de-
16	scribed under subsection $(a)(1)$ re-
17	garding access to national security in-
18	formation, subsection $(a)(3)$ regarding
19	government computers, or to sub-
20	section $(c)(4)(A)(i)(V)$ regarding a
21	computer system used by or for a
22	Government entity for the furtherance
23	of the administration of justice, na-
24	tional defense, or national security;

"(C) the term 'attacker' means a person or 1 2 an entity that is the source of the persistent unauthorized intrusion into the victim's computer; 3 4 and 5 "(D) the term 'intermediary computer' 6 means a person or entity's computer that is not 7 under the ownership or primary control of the 8 attacker but has been used to launch or obscure 9 the origin of the persistent cyber-attack.". 10 SEC. 5. NOTIFICATION REQUIREMENT FOR THE USE OF AC-11 TIVE CYBER DEFENSE MEASURES. 12 Section 1030 of title 18, United States Code, is amended by adding the following: 13 14 "(m) NOTIFICATION REQUIREMENT FOR THE USE 15 OF ACTIVE CYBER DEFENSE MEASURES.— 16 "(1) GENERALLY.—A defender who uses an ac-17 tive cyber defense measure under the preceding sec-18 tion must notify the FBI National Cyber Investiga-19 tive Joint Task Force and receive a response from 20 the FBI acknowledging receipt of the notification 21 prior to using the measure. 22 (2)**REQUIRED** INFORMATION.—Notification 23 must include the type of cyber breach that the per-24 son or entity was a victim of, the intended target of 25 the active cyber defense measure, the steps the defender plans to take to preserve evidence of the
 attacker's criminal cyber intrusion, as well as the
 steps they plan to prevent damage to intermediary
 computers not under the ownership of the attacker
 and other information requested by the FBI to assist with oversight.".

7 SEC. 6. VOLUNTARY PREEMPTIVE REVIEW OF ACTIVE 8 CYBER DEFENSE MEASURES.

9 (a) PILOT PROGRAM.—The Federal Bureau of Inves-10 tigation (hereinafter in this section referred to as the 11 "FBI"), in coordination with other Federal agencies, shall 12 create a pilot program to last for 2 years after the date 13 of enactment of this Act, to allow for a voluntary preemp-14 tive review of active defense measures.

15 (b) ADVANCE REVIEW.—A defender who intends to prepare an active defense measure under section 4 may 16 17 submit their notification to the FBI National Cyber Investigative Joint Task Force in advance of its use so that 18 the FBI and other agencies can review the notification and 19 20 provide its assessment on how the proposed active defense 21 measure may be amended to better conform to Federal 22 law, the terms of section 4, and improve the technical op-23 eration of the measure.

(c) PRIORITIZATION OF REQUESTS.—The FBI may
 decide how to prioritize the issuance of such guidance to
 defenders based on the availability of resources.

4 SEC. 7. ANNUAL REPORT ON THE FEDERAL GOVERNMENT'S

5 PROGRESS IN DETERRING CYBER FRAUD 6 AND CYBER-ENABLED CRIMES.

7 The Department of Justice, after consultation with 8 the Department of Homeland Security and other relevant 9 Federal agencies, shall deliver an annual report to Con-10 gress not later than March 31 of each year, detailing the 11 results of law enforcement activities pertaining to 12 cybercriminal deterrence for the previous calendar year. 13 The report shall include—

(1) the number of computer fraud cases reported by United States citizens and United States
businesses to FBI Field Offices, the Secret Service
Electronic Crimes Task Force, the Internet Crimes
Complaint Center (IC3) website, and other Federal
law enforcement agencies;

20 (2) the number of investigations opened as a re21 sult of public reporting of computer fraud crimes,
22 and the number of investigations open independently
23 of any specific crimes being reported;

24 (3) the number of cyber fraud cases prosecuted
25 under section 1030 of title 18, United States Code,

1	and other related statutes involving cybercrime, in-
2	cluding the resolution of the cases;
3	(4) the number of computer fraud crimes deter-
4	mined to have originated from United States sus-
5	pects and the number determined to have originated
6	from foreign suspects, and details of the country of
7	origin of the suspected foreign suspects;
8	(5) the number of dark web cybercriminal mar-
9	ketplaces and cybercriminal networks disabled by
10	law enforcement activities;
11	(6) an estimate of the total financial damages
12	suffered by United States citizens and businesses re-
13	sulting from ransomware and other fraudulent
14	cyberattacks;
15	(7) the number of law enforcement personnel
16	assigned to investigate and prosecute cybercrimes;
17	and
18	(8) the number of active cyber defense notifica-
19	tions filed as required by this Act and a comprehen-
20	sive evaluation of the notification process and vol-
21	untary preemptive review pilot program.

SEC. 8. REQUIREMENT FOR THE DEPARTMENT OF JUSTICE TO UPDATE THE MANUAL ON THE PROSECU TION OF CYBER CRIMES.

4 (a) The Department of Justice shall update the5 "Prosecuting Computer Crimes Manual" to reflect the6 changes made by this legislation.

7 (b) The Department of Justice is encouraged to seek 8 additional opportunities to clarify the manual and other 9 guidance to the public to reflect evolving defensive tech-10 niques and cyber technology that can be used in manner 11 that does not violate section 1030 of title 18, United 12 States Code, or other Federal law and international trea-13 ties.

14 SEC. 9. SUNSET.

15 The exclusion from prosecution created by this Act16 shall expire 2 years after the date of enactment of this17 Act.