THE SENATE THIRTY-SECOND LEGISLATURE, 2023 STATE OF HAWAII

S.B. NO. 1478

JAN 25 2023

A BILL FOR AN ACT

RELATING TO OFFENSIVE CYBERSECURITY.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1	SECTION 1. Chapter 27, Hawaii Revised Statutes, is amended
2	by adding a new subpart to part VII to be appropriately
3	designated and to read as follows:
4	"Subpart . Offensive Cybersecurity Program
5	§27-A Definitions. As used in this subpart:
6	"Agency" means any executive branch agency of the State or
7	any county agency.
8	"Breach":
9	(1) Means unauthorized access or acquisition of
10	computerized data that has not been secured by
11	encryption or other methods or technology that renders
12	electronic files, media, or databases unreadable or
13	unusable; and
14	(2) Does not include the good faith acquisition of
15	personal information by an employee or agent of the
16	employee if the personal information is not used or
17	subject to further unauthorized disclosure.



"Common vulnerability scoring system" refers to the open 1 2 industry standard, which is maintained by the Forum of Incident 3 Response and Security Teams or a successor entity, for assessing 4 the severity of computer system security vulnerabilities and 5 uses a numerical score to help organizations properly assess and 6 prioritize their vulnerability management processes. 7 "Criminal justice information" means private or sensitive 8 information collected by federal, state, or county law 9 enforcement, including: 10 (1)Fingerprints or other biometric information; 11 (2) Criminal background and investigation information; and 12 (3) Personal information. 13 "Cybersecurity" means processes or capabilities, wherein 14 systems, communications, and information are protected and 15 defended against damage, unauthorized use or modification, and 16 exploitation. 17 "Cybersecurity strategy" means a vision, plan of action, or 18 guiding principles, but does not mean an associated operational

19 plan.

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1 "Denial of service attack" means an attack against a 2 computer system designed to make the system inaccessible to 3 users. 4 "Financial information": 5 (1)Means banking, credit, or other account information 6 that, if accessed without authorization, may result in 7 potential harm to a person; and 8 (2) Includes account numbers or codes, credit card 9 expiration dates, credit card security codes, bank 10 account statements, and records of financial 11 transactions. 12 "Health insurance information" means a person's health 13 insurance policy number or subscriber identification number and any unique identifier used by a health insurer to identify a 14 15 person. 16 "Identity theft or identity fraud" means all types of crime 17 in which a person wrongfully obtains and uses another person's 18 personal data in a way that involves fraud or deception, most 19 commonly for economic gain.

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1 "Malware":

- 2 (1) Means software or firmware intended to perform an
 3 unauthorized process that will have an adverse effect
 4 on the confidentiality, integrity, or availability of
 5 an information system; and
- 6 (2) Includes a virus, worm, trojan horse, spyware, adware,
 7 or other code-based system that infects hosts.

8 "Medical information" means a person's medical history,
9 mental or physical condition, or medical treatment or diagnosis
10 by a health care professional.

11 "Office" means the office of enterprise technology12 services.

13 "Penetration testing" refers to a method for gaining 14 assurance in the security of an information technology system by 15 attempting to breach some or all of that system's security, 16 using tools and techniques that a bad actor may use.

17 "Personal information":

18 (1) Means a person's first name or first initial and last
 19 name in combination with the following when names and
 20 data are not encrypted:

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(A) The person's social security number;

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1	(B)	The person's driver's license number;
2	(C)	The person's Hawaii state identification card
3		number;
4	(D)	The person's financial institution account
5		number, credit card number, or debit card number
6		in combination with required security codes,
7		access codes, or passwords that permit access to
8		a person's financial accounts;
9	(E)	The person's date of birth;
10	(F)	The maiden name of the person's mother;
11	(G)	Medical information;
12	(H)	Health insurance information;
13	(I)	An identification number assigned to the person
14		by the person's employer in combination with
15		security codes, access codes, or passwords; or
16	(J)	The person's digitized or other electronic
17		signature; and
18	(2) Doe	s not include information available to the public
19	from	m federal, state, or county government records.
20	"Ransom"	means a payment for services or goods to a
21	malicious age:	nt to:

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1	(1)	Decrypt data on a computer system;
2	(2)	Retrieve lost or stolen data; or
3	(3)	Prevent the disclosure and dissemination of
4		information.
5	"Reg	ulated information" means information and information
6	technolog	y resource protection requirements established by the
7	federal g	overnment and regulating organizations.
8	"Reg	ulating organizations" means organizations that
9	establish	laws, regulations, policies, guidelines, and
10	standards	, including the Federal Bureau of Investigation,
11	Internal	Revenue Service, Social Security Administration,
12	Federal D	eposit Insurance Corporation, United States Department
13	of Health	and Human Services, Centers for Medicare and Medicaid
14	Services,	and Payment Card Industry Security Standards Council.
15	"Sig	nificant damage" means:
16	(1)	A degradation in or loss of mission capability to an
17		extent and duration that the agency is not able to
18		perform one or more of its primary functions;
19	(2)	Damages of \$10,000 or more to agency assets as
20		estimated by the agency;

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1	(3)	A financial loss of \$10,000 or more as estimated by
2		the agency; or
3	(4)	Harm to persons involving loss of life or serious
4		life-threatening injuries.
5	"Soc	cial engineering":
6	(1)	Means the tactic of manipulating, influencing, or
7		deceiving a person to gain control over a computer
8		system or steal personal or financial information; and
9	(2)	Includes the use of psychological manipulation to
10		trick users into making security mistakes or giving
11		away sensitive information, such as "phishing" or
12		baiting.
13	§27-	-B Offensive cybersecurity program. There is
14	establish	ned within the office an offensive cybersecurity
15	program,	which shall:
16	(1)	Analyze cybersecurity threats;
17	(2)	Evaluate and provide intelligence regarding
18		cybersecurity;
19	(3)	Promote cybersecurity awareness, including awareness
20		of social engineering threats;

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1		(4)	Conduct penetration testing among state and county
2			agencies to evaluate the security of state and county
3			information technology systems;
4		(5)	Conduct agent-based security and ensure that assets
5			are being inventoried and managed according to best
6			practices;
7		(6)	Use the common vulnerability scoring system to
8			evaluate the severity of vulnerabilities in
9			information technology systems across state and county
10			agencies and prioritize remediation; and
11		(7)	Take other proactive measures to ensure increased
12			cybersecurity for agencies.
13		§27-	C Memorandums of understanding; mutual aid agreements.
14	(a)	The	office may enter a:
15		(1)	Memorandum of understanding with other state, local,
16			or tribal governments of the United States for
17			purposes of ensuring the confidentiality,
18			availability, and integrity of state, local, and
19			tribal information systems and data, including
20			consulting, developing cybersecurity strategy,
20			consulting, developing cybersecurity strategy,



1 prevention of cybersecurity incidents, and response 2 strategies to cybersecurity incidents; and 3 (2) A mutual aid agreement with other state, local, or 4 tribal governments of the United States agreeing to 5 the reciprocal exchange of resources and services for 6 mutual benefit of the parties related to cybersecurity 7 efforts for the purposes of responding to or 8 mitigating active cybersecurity incidents. (b) As used in this section, "state" means a state of the 9 10 United States, the District of Columbia, Puerto Rico, the United 11 States Virgin Islands, or any territorial or insular possession 12 subject to the jurisdiction of the United States. 13 **§27-D** Disclosures of cybersecurity incidents. (a) State 14 and county agencies shall disclose to the office an identified 15 or suspected cybersecurity incident that affects the 16 confidentiality, integrity, or availability of information systems, data, or services. Disclosure shall be made 17 18 expediently and without unreasonable delay. Cybersecurity 19 incidents required to be reported include: 20 (1)Suspected breaches;

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(2) Malware incidents that cause significant damage;

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(3)	Denial of service attacks that affect the availability
	of services;
(4)	Demands for ransom related to a cybersecurity incident
	or unauthorized disclosure of digital records;
(5)	Instances of identity theft or identity fraud
	occurring on an agency's information technology
	system;
(6)	Incidents that require response and remediation
	efforts that will cost more than \$10,000 in equipment,
	software, and labor; and
(7)	Other incidents the agency deems worthy of
	communication to the office.
(b)	Until a cybersecurity incident is resolved, an agency
shall con	tinue to disclose details regarding a cybersecurity
incident	to the office, including:
(1)	The number of potentially exposed records;
(2)	The type of records potentially exposed, including
	health insurance information, medical information,
	criminal justice information, regulated information,
	financial information, and personal information;
	 (4) (5) (6) (7) (b) shall condition incident (1)



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1	(3)	Efforts the agency is undertaking to mitigate and
2		remediate the damage of the incident to the agency and
3		other affected agencies; and
4	(4)	The expected impact of the incident, including:
5		(A) The disruption of the agency's services;
6		(B) The effect on customers and employees that
7		experienced data or service losses; and
8		(C) Other concerns that could potentially disrupt or
9		degrade the confidentiality, integrity, or
10		availability of information systems, data, or
11		services that may affect the State or a county.
12	(c)	The legislative and judicial branches may disclose to
13	the office	e cybersecurity incidents that affect the
14	confident	iality, integrity, or availability of information
15	systems, d	data, or services.
16	(d)	The office shall adopt rules pursuant to chapter 91
17	regarding	the procedures and form in which an agency shall
18	disclose (cybersecurity incidents to the office.
19	(e)	The office, to the extent possible, shall provide
20	consultat	ion services and other resources to assist agencies and



1 the legislative and judicial branches in responding to and remediating cybersecurity incidents. 2 3 (f) No later than twenty days prior to the convening of 4 each regular session, the office shall submit a report to the 5 legislature that includes: 6 (1)All disclosed cybersecurity incidents required 7 pursuant to this section; 8 (2) The status of those cybersecurity incidents; and 9 Any response or remediation to mitigate the (3) 10 cybersecurity incidents. 11 The office shall ensure that all reports of disclosed 12 cybersecurity incidents are communicated in a manner that 13 protects victims of cybersecurity incidents, prevents 14 unauthorized disclosure of cybersecurity plans and strategies, 15 and adheres to federal and state laws regarding protection of 16 cybersecurity information. 17 **§27-E Rules.** The office may adopt rules pursuant to 18 chapter 91 necessary to implement the purposes of this chapter." 19 SECTION 2. Chapter 27, Hawaii Revised Statutes, is amended 20 by designating sections 27-41 to 27-45 as subpart A, entitled "General Provisions". 21



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1 SECTION 3. (a) No later than January 1, 2025, the office 2 of enterprise technology services shall: 3 (1)Complete an initial round of penetration testing on 4 the information technology systems of each agency; 5 (2) Assess vulnerabilities within those systems using the common vulnerability scoring system; and 6 7 (3) Work with agencies to identify and address any 8 vulnerability threats identified having a benchmark 9 score exceeding 3.9 on the common vulnerability 10 scoring system. 11 (b) No later than twenty days prior to the convening of 12 the regular session of 2025, the office of enterprise technology 13 services shall submit a report to the legislature describing the 14 office's progress in meeting the requirements of this section. 15 (c) As used in this section, "agency", "common 16 vulnerability scoring system", and "penetration testing" shall 17 have the same meanings as in section 128B-A, Hawaii Revised 18 Statutes. 19 SECTION 4. There is appropriated out of the general 20 revenues of the State of Hawaii the sum of \$ or so

much thereof as may be necessary for fiscal year 2023-2024 and

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1 the same sum or so much thereof as may be necessary for fiscal 2 vear 2024-2025 to: 3 (1) Perform the duties assigned to the office of 4 enterprise technology services by this Act, including 5 the creation of an offensive cybersecurity program; 6 and 7 (2) Establish full-time equivalent (FTE) 8 permanent positions necessary to perform the functions 9 required by this Act. 10 The sums appropriated shall be expended by the office of 11 enterprise technology services for the purposes of this Act. 12 SECTION 5. In codifying the new sections added by section 1 and referenced in section 3 of this Act, the revisor 13 14 of statutes shall substitute appropriate section numbers for the letters used in designating the new sections in this Act. 15 16 SECTION 6. This Act shall take effect on July 1, 2023. 17 INTRODUCED BY:



Report Title:

Offensive Cybersecurity; Office of Enterprise Technology Services; Program; Established; Appropriations

Description:

Establishes an offensive cybersecurity program within the Office of Enterprise Technology Services to analyze an evaluate cybersecurity threats and increase cybersecurity awareness and education. Requires the program to conduct penetration testing of state agencies to identify vulnerabilities and assess the severity of computer system security vulnerabilities using the Common Vulnerability Scoring System. Establishes a goal for all state and county agencies to identify and address vulnerabilities having a benchmark score exceeding 3.9 on the Common Vulnerability Scoring System by January 1, 2025. Authorizes the Office of Enterprise Technology Services to enter into memorandums of understanding and mutual aid agreements with other governments within the United States. Makes appropriations and authorizes the establishment of positions.

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