# HOUSE BILL REPORT 2SHB 2044

#### **As Passed House:**

February 11, 2022

**Title:** An act relating to the protection of critical constituent and state operational data against the financial and personal harm caused by ransomware and other malicious cyber activities.

**Brief Description:** Concerning the protection of critical constituent and state operational data against the financial and personal harm caused by ransomware and other malicious cyber activities.

**Sponsors:** House Committee on Appropriations (originally sponsored by Representatives Boehnke, Hackney, Fitzgibbon, Kloba, Ormsby, Sutherland, Ramel and Young).

### **Brief History:**

# **Committee Activity:**

State Government & Tribal Relations: 1/31/22, 2/2/22 [DPS];

Appropriations: 2/7/22 [DP2S(w/o sub SGOV)].

Floor Activity:

Passed House: 2/11/22, 95-0.

## **Brief Summary of Second Substitute Bill**

- Requires the Office of the Chief Information Officer (OCIO) to design, develop, and implement enterprise technology standards for malware and ransomware protection, backup, and recovery.
- Requires the OCIO to establish a ransomware education and outreach program to educate employees of public agencies on the prevention, response, and remediation of ransomware.
- Requires certain state agencies to perform an assessment of their applications and resources containing data and provide the OCIO with a confidential list of prioritized applications based on mission criticality and impact to constituents in the event of system failure or data loss.

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This analysis was prepared by non-partisan legislative staff for the use of legislative members in their deliberations. This analysis is not part of the legislation nor does it constitute a statement of legislative intent.

Requires various reporting by the OCIO on information relating to
mission critical applications, business essential applications, the status of
immutable backups for each application, and the breadth of threat
landscape.

#### HOUSE COMMITTEE ON STATE GOVERNMENT & TRIBAL RELATIONS

**Majority Report:** The substitute bill be substituted therefor and the substitute bill do pass. Signed by 7 members: Representatives Valdez, Chair; Lekanoff, Vice Chair; Volz, Ranking Minority Member; Walsh, Assistant Ranking Minority Member; Dolan, Graham and Gregerson.

Staff: Desiree Omli (786-7105).

#### HOUSE COMMITTEE ON APPROPRIATIONS

Majority Report: The second substitute bill be substituted therefor and the second substitute bill do pass and do not pass the substitute bill by Committee on State Government & Tribal Relations. Signed by 33 members: Representatives Ormsby, Chair; Bergquist, Vice Chair; Gregerson, Vice Chair; Macri, Vice Chair; Stokesbary, Ranking Minority Member; Chambers, Assistant Ranking Minority Member; Corry, Assistant Ranking Minority Member; Boehnke, Caldier, Chandler, Chopp, Cody, Dolan, Dye, Fitzgibbon, Frame, Hansen, Harris, Hoff, Jacobsen, Johnson, J., Lekanoff, Pollet, Rude, Ryu, Schmick, Senn, Springer, Steele, Stonier, Sullivan and Tharinger.

**Staff:** Jessica Van Horne (786-7288).

#### **Background:**

## Consolidated Technology Services.

The Consolidated Technology Services agency, also known as Washington Technology Solutions (WaTech), supports state agencies as a centralized provider and procurer of certain information technology (IT) services. The Office of the Chief Information Officer (OCIO) is established within WaTech and has certain primary duties related to state government IT, which include establishing statewide enterprise architecture for IT and standards for consistent and efficient operation of IT services throughout state government. The OCIO is responsible for establishing security standards and policies to ensure the confidentiality and integrity of information transacted, stored, or processed in the state's IT systems and infrastructure. In 2021 the Office of CyberSecurity (OCS) was statutorily established within the OCIO. Some of the OCS's responsibilities include establishing standards and policies to protect the state's information technology systems and

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infrastructure, developing a centralized cybersecurity protocol for protecting and managing state IT assets and infrastructure, creating a model incident response plan for agencies to adopt for certain incidents, and defining core services that are required to be managed by agency IT security programs.

Under the OCIO policy, agencies must classify data into categories based on the sensitivity of the data as follows:

- Category 1: for public information;
- Category 2: for sensitive information;
- Category 3: for confidential information that is specifically protected from release or disclosure by law, such as certain personal information, certain information about public employees, lists of individuals for commercial purposes, and information about the infrastructure and security of computer and telecommunication networks; and
- Category 4: for confidential information that is specifically protected from disclosure by law and for which especially strict handling requirements are dictated and the disclosure of which may result in serious consequence from unauthorized disclosure such as threats to health and safety or legal sanctions.

#### Public Records Act.

The Public Records Act (PRA) requires state and local agencies to make all public records available for public inspection and copying unless a record falls within an exemption under the PRA or another statute that exempts or prohibits disclosure of specific information or records. The PRA is liberally construed, and its exemptions interpreted narrowly. To the extent necessary to prevent an unreasonable invasion of personal privacy, an agency must delete identifying details from the records sought when it makes a record available. A person's right to privacy is violated only if disclosure would be highly offensive to a reasonable person and is not of legitimate concern to the public. Exemptions under the PRA are permissive, meaning that an agency, although not required to disclose, has the discretion to provide an exempt record. Certain information relating to security is exempt from disclosure under the PRA. For example, information regarding the public and private infrastructure and security of computer and telecommunications networks are exempt. Public and private infrastructure and security of computer and telecommunications networks includes: security passwords; security access codes and programs; security risk assessments; security test results to the extent that they identify specific system vulnerabilities; and any other information which, if released, may increase the risk to the confidentiality, integrity, or availability or security of IT infrastructure or assets.

#### **Summary of Second Substitute Bill:**

The OCIO must design, develop, and implement enterprise technology standards specific to malware and ransomware protection, backup, and recovery (standards).

The OCIO must also establish a ransomware education and outreach program to educate public agency employees on prevention, response, and remediation of ransomware. As part

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of the education program, the OCIO must publish and distribute ransomware-response educational materials specifically for chief financial and chief information officers of state agencies. In addition, the OCIO must provide ongoing assistance to the Legislature by identifying mission critical systems that do not maintain backup and recovery capabilities and may require further investment to do so. The OCIO must modify existing portfolio reporting mechanisms to support the collection of data necessary to monitor risk associated with malware and ransomware protections.

Except for institutions of higher education, a state agency that is defined within the standards established by the OCIO must:

- ensure that all mission critical applications, business essential applications and other data that requires special handling is protected;
- perform an assessment of their applications and resources containing data and report the size of managed data to the OCIO;
- provide the OCIO, by September 30, 2022, with a confidential list of prioritized applications based on mission criticality and impact to constituents in the event of a system failure or data loss; and
- ensure that all mission critical applications, business essential applications, and other resources containing Category 3 or 4 data are protected in accordance with the established standards.

The data reported by agencies must be analyzed for risk and used to provide the Legislature with a prioritized list of mission critical systems that requires additional protections to maintain continuity of operations in the event of malicious cyber activity.

By October 31, 2023, the OCIO must analyze and aggregate the data reported by state agencies and report the following to the Governor and Legislature:

- information regarding mission critical applications and business essential
  applications, such as the total number of each application, the amount of data
  associated with each application, the estimated annual data change and growth rates
  for each application, the percent of each application with immutable backups, the
  percentage of each application that undergoes annual continuity of operations
  exercises, and the percentage each application that meets the established standards;
- the percentage of applications with cataloged and categorized data;
- prioritized applications identified by each state agency; and
- recommendations for further legislation, rules, and policy to increase protections against ransomware.

This report issued by the OCIO and any information used to inform the report are confidential and may not be disclosed.

Beginning on December 31, 2024, the OCIO must submit a biannual report to the Legislature, Governor, and Technology Services Board on:

• the number of mission critical applications and business essential applications, and

the amount of each with immutable backups;

- the number of business essential applications with standard-compliant backups;
- the number of applications containing Category 3 or 4 data, and the amount with immutable backups;
- the breadth of threat landscape;
- a prioritized list of systems requiring immutable backups and the cost of implementing immutable backups for each;
- the number of staff required to manage malware prevention and response;
- · progress toward protection; and
- recommendations for additional work to protect critical state IT systems.

The biannual report is exempt from public disclosure.

By December 31, 2025, the Office of Financial Management, Department of Enterprise Services, and WaTech must ensure that all mission critical and business essential IT systems are compliant with established standards and supported by immutable backups. "Immutable backup" means that no external or internal operation can modify the data and the data must never be available in a read or write state to the client.

The Information Security Account is created in the custody of the State Treasurer as a non-appropriated account. Disbursements from the account are subject to authorization by the Director of WaTech (Director). Expenditures from the account may only be used for state agencies to procure immutable data backup and disaster recovery services for mission critical and business essential applications or other critical IT systems. The Director must consider disbursements based on the agency's prioritized application list to ensure the funding is allocated to protect the most vulnerable IT systems containing the most sensitive public information. Money in the account may supplant existing funding to WaTech.

The OCIO must apply for any federal grants or other financial assistance programs for the purpose of security and protection to critical state agency IT systems.

The act is known as the Washington State Ransomware Protection Act.

**Appropriation:** None.

**Fiscal Note:** Preliminary fiscal note available. New fiscal note requested on February 2, 2022.

**Effective Date:** The bill takes effect 90 days after adjournment of the session in which the bill is passed. However, the bill is null and void unless funded in the budget.

# Staff Summary of Public Testimony (State Government & Tribal Relations):

(In support) The State Auditor's report published in 2020 highlighted glaring gaps in the

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state agency's ability to protect public data. As we moved online as a result of COVID-19, public and private data were put at a higher risk due to increased dependency on technology. Malicious cyber activity has increased by 600 percent since 2018. Data backup and investing in recovery systems are ways to protect against ransomware attacks. As demonstrated by the ransomware attack on Lincoln County during the certification of the election in 2020, bad actors are after the valuable identifying information that state agencies collect such as a person's signature, name, address, and date of birth. A person who has access to this information can download another person's ballot online and print a fraudulent ballot, which, if received first, is treated as a legitimate ballot.

Most agency applications used do not have a data backup systems. Mission critical and business essential applications are what we want to protect first. Immutable backups will make it so the data is not changed when it's stored and will allow agencies to recover the data unchanged from those who hold it hostage. This policy signifies that the state will continue its commitment to good stewardship of its residents data and fight against cyber attacks.

### (Opposed) None.

(Other) Small and medium sized organizations like state agencies are disproportionately impacted by cyber attacks. Ransomware is overwhelming all organizations. An attack occurs every 11 seconds and the number is growing. The global cost of cyber attacks was around \$17 billion in 2020 alone. After an attack, full recovery of data can take six to nine months if there is no backup.

The use of data backup systems and disaster recovery is an important component of recovery from cyber attacks, but there are other security controls that are also important for proactive ransomware protection. WaTech has adopted a cloud-first policy with an intent to migrate state technology assets to cloud services. For applications that aren't cloud ready, they may need to seek data backup services within the state's data center to comply with the 2025 deadline in the bill.

### **Staff Summary of Public Testimony (Appropriations):**

(In support) There is a rising increase in ransomware attacks across the State of Washington. The risk is growing as state agencies combine and integrate various systems. The policies in this bill should have been implemented several years ago. There are concerns about whether state employees will have sufficient training in preventing ransomware and malware attacks. There are concerns that state employees working from home may present a greater security risk than those working in state facilities.

(Opposed) None.

Persons Testifying (State Government & Tribal Relations): (In support) Representative

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Matt Boehnke, prime sponsor; and Tamborine Borrelli, Washington Election Integrity Coalition United.

(Other) Jerry Cochran, Pacific Northwest National Lab; and Derek Puckett, Washington Technology Solutions.

**Persons Testifying (Appropriations):** Representative Matt Boehnke, prime sponsor; and Reni Storm.

**Persons Signed In To Testify But Not Testifying (State Government & Tribal Relations):** None.

Persons Signed In To Testify But Not Testifying (Appropriations): None.

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