



**CYBER SECURITY THREATS: RANSOMWARE ATTACKS
IN SINGAPORE (2020-2021)**

UNDERGRADUATE THESIS

**Submitted as one of the requirements to obtain
Sarjana Sosial**

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RELATIONS STUDY PROGRAM CIKARANG FEBRUARY, 2023 1 FINAL PROJECT ADVISOR
RECOMMENDATION LETTER This final project entitled "Cyber Security Threats: Ransomware

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Abstrak

Serangan ransomware adalah salah satu jenis kejahatan dunia maya yang telah menyebar ke seluruh dunia. Ransomware adalah jenis perangkat lunak berbahaya yang mengenkripsi file pada perangkat, mengunci data terenkripsi penting milik korban atau organisasi sehingga mereka tidak dapat mengakses atau membuka file, dan meminta korban untuk membayar uang tebusan dalam mata uang tertentu dengan crypto untuk memulihkan file. Serangan ransomware ini adalah jenis aktor non-negara, yaitu peretas topi hitam, yang disebut aktivisme online dan anonim, peretas topi hitam ini adalah seseorang yang memiliki bakat dan menggunakannya untuk keuntungan pribadi secara politik dan ekonomi. Penjahat serangan ransomware ini berhasil membuat korbannya membayar untuk memulihkan file daripada melaporkannya, termasuk di Singapura. Singapura menduduki peringkat ke-6 dengan bayaran tertinggi pada tahun 2021. Penelitian ini menggunakan konsep keamanan nasional, keamanan nasional merupakan upaya yang dilakukan oleh suatu negara dalam mempertahankan negaranya dari ancaman. Tujuan dari penelitian ini adalah untuk melihat dampak serangan ransomware terhadap perekonomian Singapura, dan memang benar serangan ini berdampak terhadap perekonomian Singapura. Perbandingan kerugian ekonomi Singapura pada tahun 2020 dan 2021, teori ini menggunakan konsep Nasional Security dalam kerangka penelitian teoretis, konsep ini membantu penulis dalam melihat bagaimana Singapur bertindak pada menanggapi serangan siber ini.

Kata Kunci : *Keamanan Siber, Serangan Ransomware, Ekonomi, National Security*

Abstract

Ransomware attacks are a type of cybercrime that has spread throughout the world. Ransomware is a type of malicious software that encrypts files on a device, locks the victim's or organization's important encrypted data so that they cannot access or open the file, and requires the victim to pay a ransom in a specific currency with crypto to recover the file. This ransomware attack is a type of non-state actor, i.e., black hat hacker, which is called online and anonymous activism, this black hat hacker is someone who has talent and uses it for personal gain politically and economically. The criminals of this ransomware attack managed to get their victims to pay to recover the files rather than reporting them, including in Singapore. Singapore is ranked as the 6th highest paid in 2021. This study using a National security concept, national security is an effort made by a country in defending its country

from threats. The purpose of this research is to look at the impact of ransomware attacks on the Singapore economy, and it is true that this attack has a huge impact on the Singapore economy. A comparison of Singapore's economic losses in 2020 and 2021 is shown, using the concept of national security in a theoretical research framework. This helps the authors examine Singapore's response to this cybercrime attack.

Keywords : *Cyber Security, Ransomware Attack, Economy, National Security*