



BACKGROUND

It is now the year 2025. Two years after the SingHealth data breach, the Singapore government has consolidated all cyber security matters under the newly established Cyber Security Command (CyCom). Given broad power to remotely take over and shutdown any computerized system suspected to have been infiltrated by hackers, CyCom has successfully eliminated any threats to Singapore's cyber security since its formation, but CyCom's vast power is also its greatest weakness...

Alexander Petrov's parents moved to Singapore a year after the cold war ended, and he was born a year later. Graduating top of his class in NUS, he worked at Google and CISCO before joining CyCom as a security researcher. Unknown to his superiors and colleagues, he had installed a back-door into the inner most depths of CyCom's systems, allowing him to take-over the system and lock all others out.



*Alexander Petrov
(Photo taken after his arrest)*

Yesterday, Alexander was arrested while attempting to escape Singapore by boat. Investigators believed that he was recruited by foreign government agents, and had triggered a "Self-Destruct" script within CyCom before attempting his escape. With all access to CyCom locked out, we only have 45 mins before the self-destruct script activates. Upon activation, the script will utilize CyCom's infrastructure to take over and corrupt all government and private servers located in Singapore.

MISSION OBJECTIVE

- Stop the self-destruct script

MISSION BRIEF

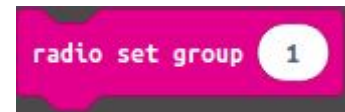
Alexander is a careful man, and we believe he has hidden the key to the script somewhere. He has so far refused to cooperate, but we have managed to retrieve a few clues:

- An electronically locked box
- A electronic token (micro:bit)
- A piece of paper with the URL "<https://www.aposteriori.com.sg/c9428>"

Our investigators believe that the password to the self-destruct script is hidden in the locked box, and that key to the locked box is hidden within the token. Your job is to analyze the clues, retrieve the password from the locked box, and stop the self-destruct script.

TIPS!

- Most of the tasks will involve sending radio messages to the token. Use the “radio send number” block.
- Every token will use a different radio group (written on the device). You **MUST SET THE CORRECT GROUP** on your own micro:bit in order to communicate successfully.
- When sending multiple messages in a row, **ADD A 20ms PAUSE** in-between each message.
- Upon successfully solving each stage of the challenge, a smiley face will appear on screen, followed by 4 numbers. **NOTE DOWN THE 4 NUMBERS IN THE SPACES BELOW.**
- After noting down the numbers, press button “A” to move on to the next challenge. The challenge number will be displayed on screen.



Challenge 0:

https://www.aposteriori.com.sg/c_____

Challenge 1:

https://www.aposteriori.com.sg/c_____

Challenge 2:

https://www.aposteriori.com.sg/c_____

Challenge 3:

https://www.aposteriori.com.sg/c_____

Challenge 4:

https://www.aposteriori.com.sg/c_____