Cyber Security Past Paper

- Security (-2022), SecurityII (-2018)
- Reference
    - Credit: @Gyorgy Denes

Access Control

For a directory D, the access control bits considered about **the list of filenames**. (different from a file F)

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r for reading the names of the files contained

w to change the list of filenames in the directory
    create, delete, rename or move a file in it

The “sticky bit”  (10-th access control bit in *Berkeley Unix*)
    For D with access w, then a F inside can be removed/renamed only by the *owner* of F [or D].

x to access the contents or attributes of a file in it (directory traversal/search)
    dereference the inode of a known filename in it
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- y2021p4q6 (a)
- y2020p4q7 (b)
- y2019p4q7 (a)
- y2018p4q6
- y2012p4q8 (e)

Buffer overflow

- y2022p4q6
- y2020p4q6 (a,c), y2018p4q7 (c)
    - countermeasures

SQL injection

- y2021p4q7 (a)

Malfunction

- y2023p4q7

CSRF, XSS

- y2022p4q7
- y2019p4q6

Password

- y2021p4q7 (b)
- y2012p4q8 (a)
    - salt

Physical Security

- y2023p4q8