

- [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)

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

set-user/group-ID

[Without] Process started by user U will have the same value U stored as the effective, real, and saved user ID and cannot change any of them.

[With] When a program file F with owner O is started by user U, the real user ID will be set to U, both the effective and the saved user ID of the process will be set to O.

- [y2019p4q7 \(a\)](#)
 - chmod
- [y2012p4q8 \(e\)](#)
 - dir, sticky bit

- [y2021p4q6 \(a\)](#)
 - file and dir
- [y2020p4q7 \(b\)](#)
 - setuid
- [y2018p4q6](#)
 - access-control matrix

Buffer overflow

- [y2022p4q6](#)
- [y2020p4q6 \(a,c\)](#), [y2018p4q7 \(c\)](#)
 - countermeasures

SQL injection

- [y2021p4q7 \(a\)](#)

Malfunction

- [y2023p4q7](#)

CSRF, XSS

- [y2022p4q7](#)
- [y2019p4q6](#)

Password

Confidentiality, Integrity, Availability

- [y2021p4q7 \(b\)](#)
- [y2012p4q8 \(a\)](#)

- salt

Physical Security

- [y2023p4q8](#)