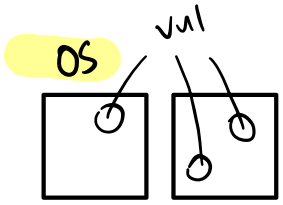
CyberSecurity Simulator



1) ID
2) type (known/unknown)
3) {vulneralbility(s)}
4) version

1) ID
2) type (email, website, etc...)
3) {vulneralbility(s)}
4) version (1.0, 1.1, etc)

targets

contain

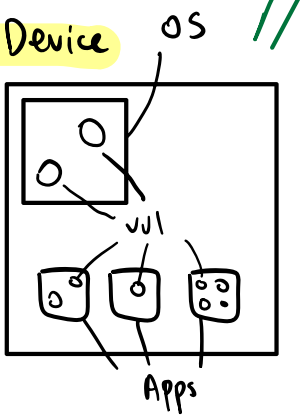
contain

targets

Vulneralbility:

1) ID (1 app, or 1 os,
2) Vultarget but a seq of vel)
3) type (known/unknown)
4) version Min (default = 1.0)
5) version Max (default = 1.0)

Device



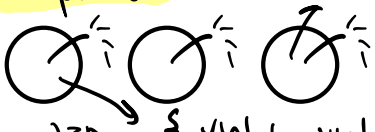
1) ID
2) OS
3) address
4) {app(s)}
5) isCompromised (state).

find

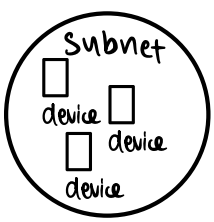
attack

Contains

Exploit: { vul 1, vul 3, ... etc }



1) ID { vul 1, vul 2, ... etc }
2) {target vulnerabilities}
3) type (known/unknown)
4) version Min (default = 1.0)
5) version Max (default = 1.0)



Subnet:

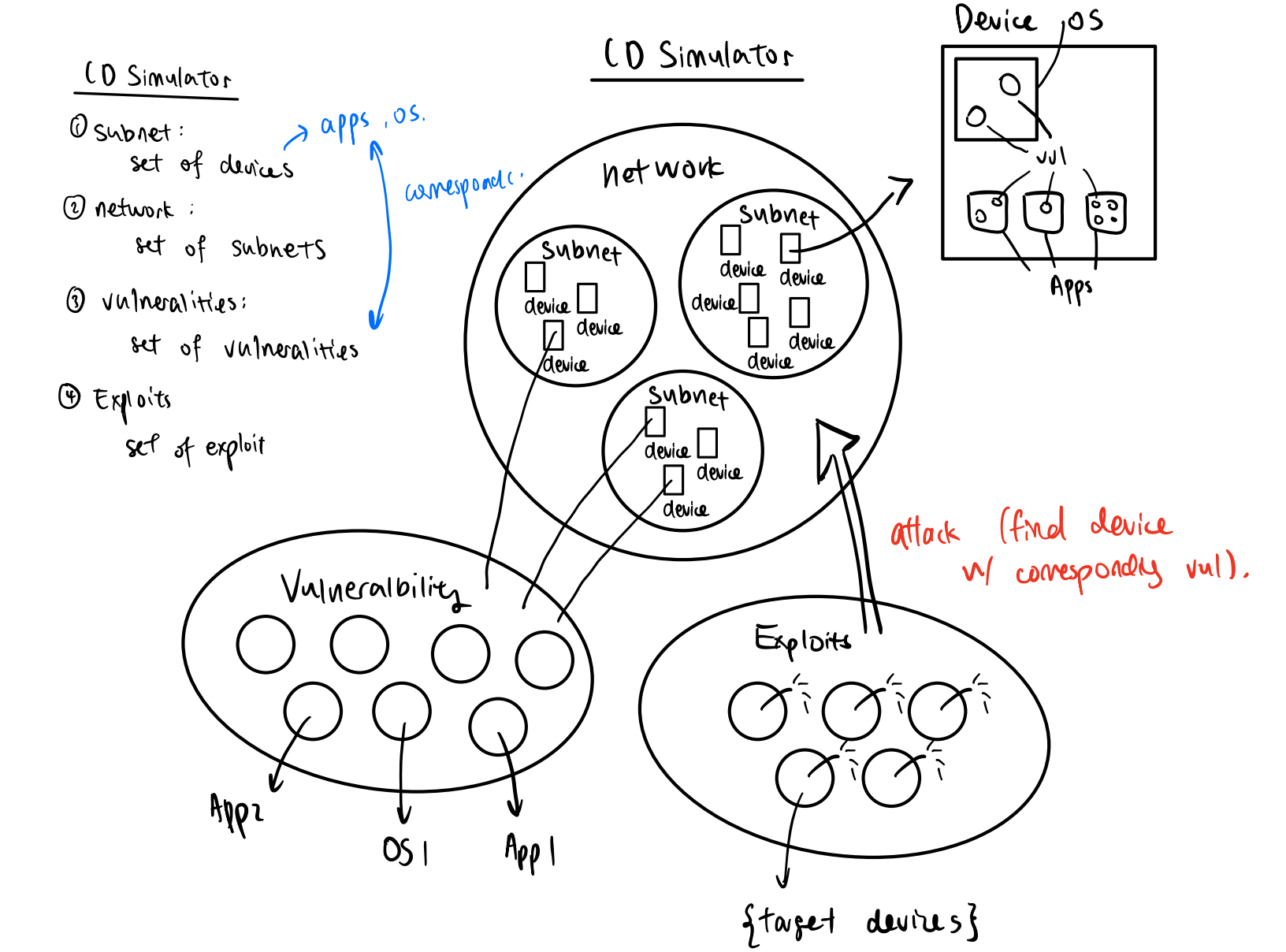
1) {net of devices}
2) num of compromised

CD Simulator

① Subnet: set of devices → apps, os.

② network: set of subnets

③ vulnerabilities: set of vulnerabilities

④ Exploits: set of exploit

correspond.