

Day 4-1-1

anti-virus

detecting a malicious file

malware, detection,
hiding, removing

malware

is the generic term for computer virus, worms, spyware and other malicious software

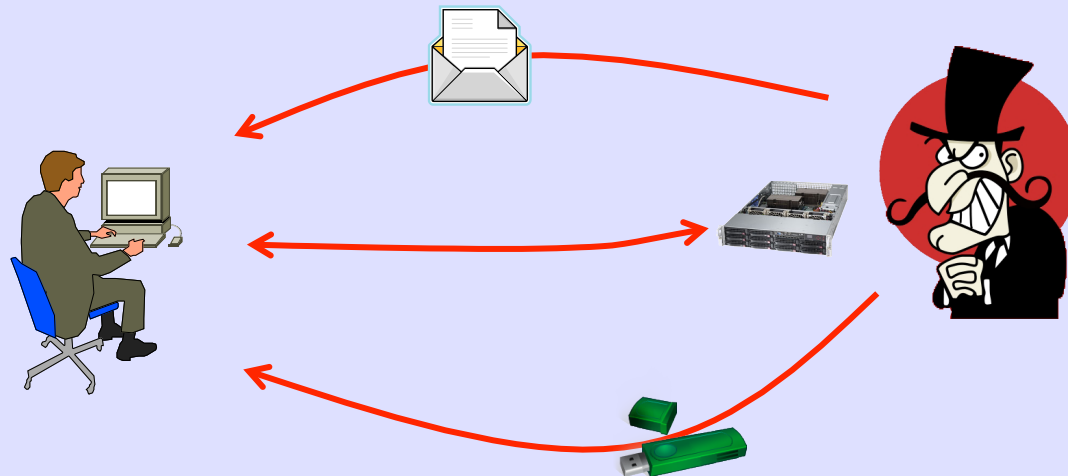
skilled attacker can make it, fun attacker can use it.

- even there are malware build tools with GUI 😞

infection

attackers try to make your devices infected in many ways

- security holes, e-mail, web
- USB memory, file servers



causes

vulnerability

- 0-day security hole without patch
- old security holes are still used to infect

auto-execution for removal media

- USB memory, CD loading

users' careless open

- sometimes happen to execute malwares

detection

signature-based detection

- blacklist of malwares
- check a file with the signatures
- update needed to detect newer malware

heuristics detection

- behavior, characteristic code

when?

write operations take place

- new file, file modification

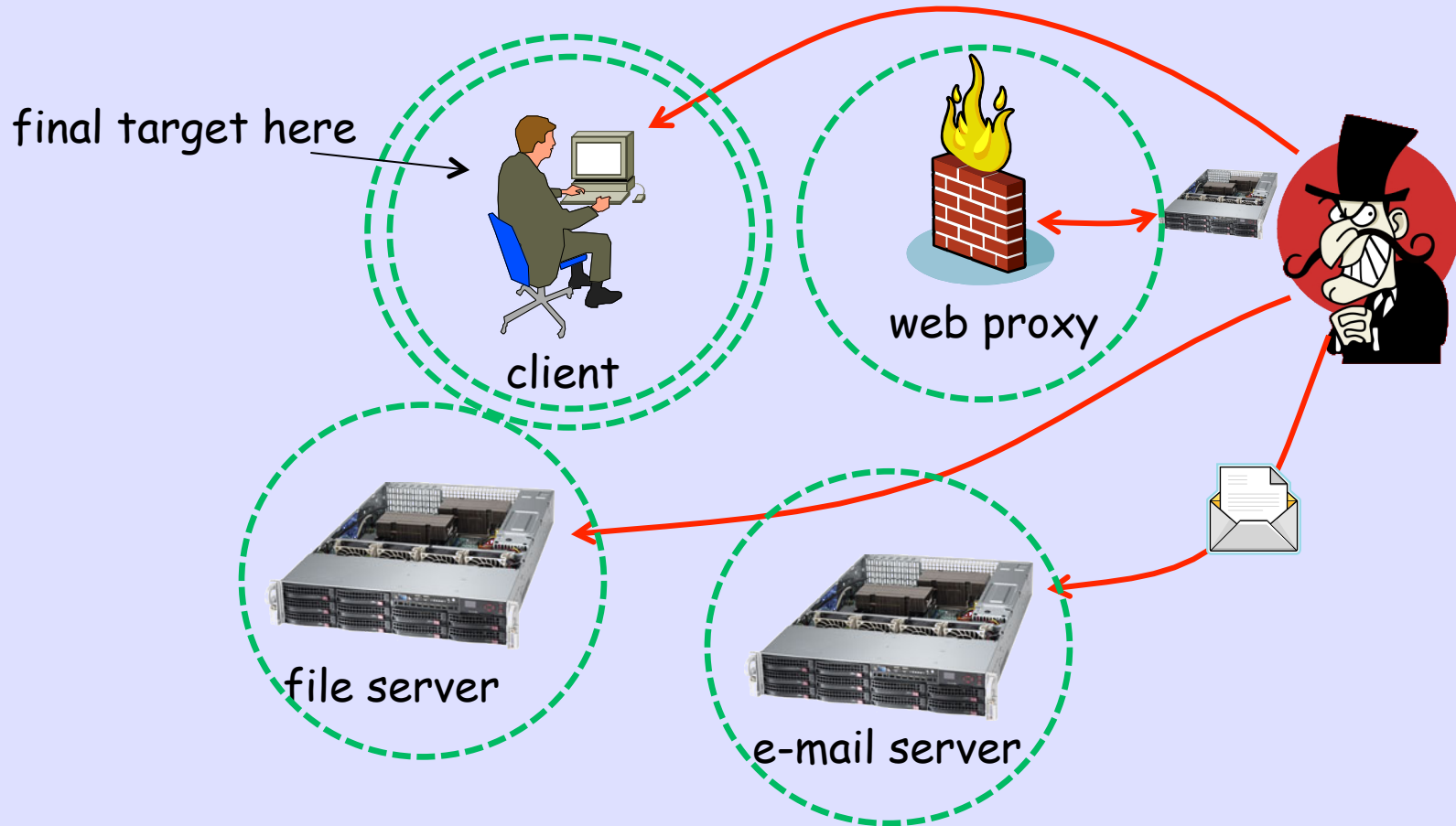
new media is inserted

- USB memory, CD

periodic or manually

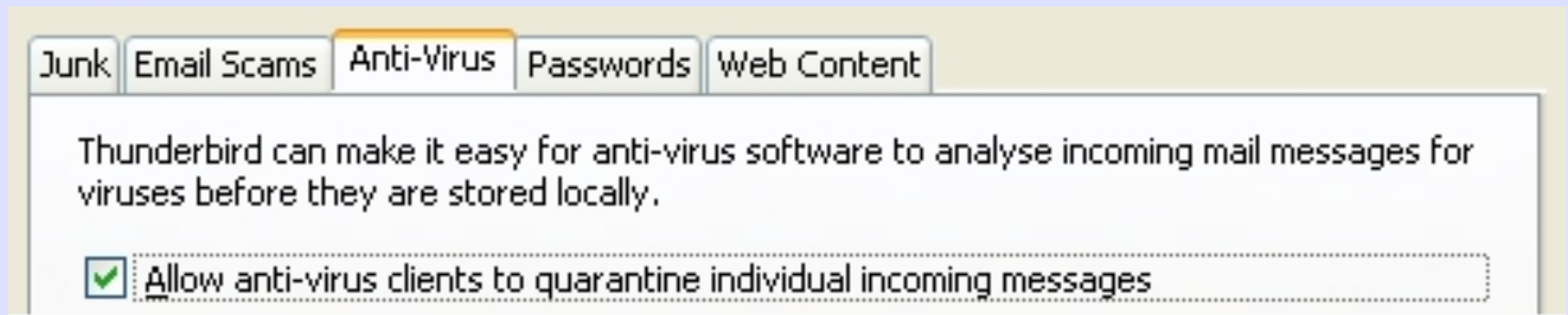
- scan all or important files

where?



staging for detection

Thunderbird example

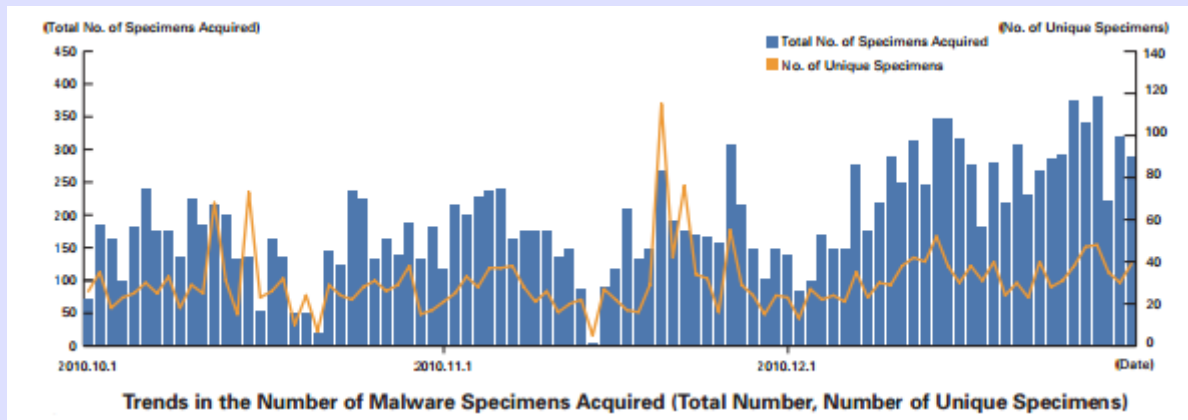


otherwise, entire INBOX file will be considered as 'suspicious' once attached malware is stored into your inbox file

hiding

attackers modify malwares

- not to be detected by anti-virus
- they can check this locally

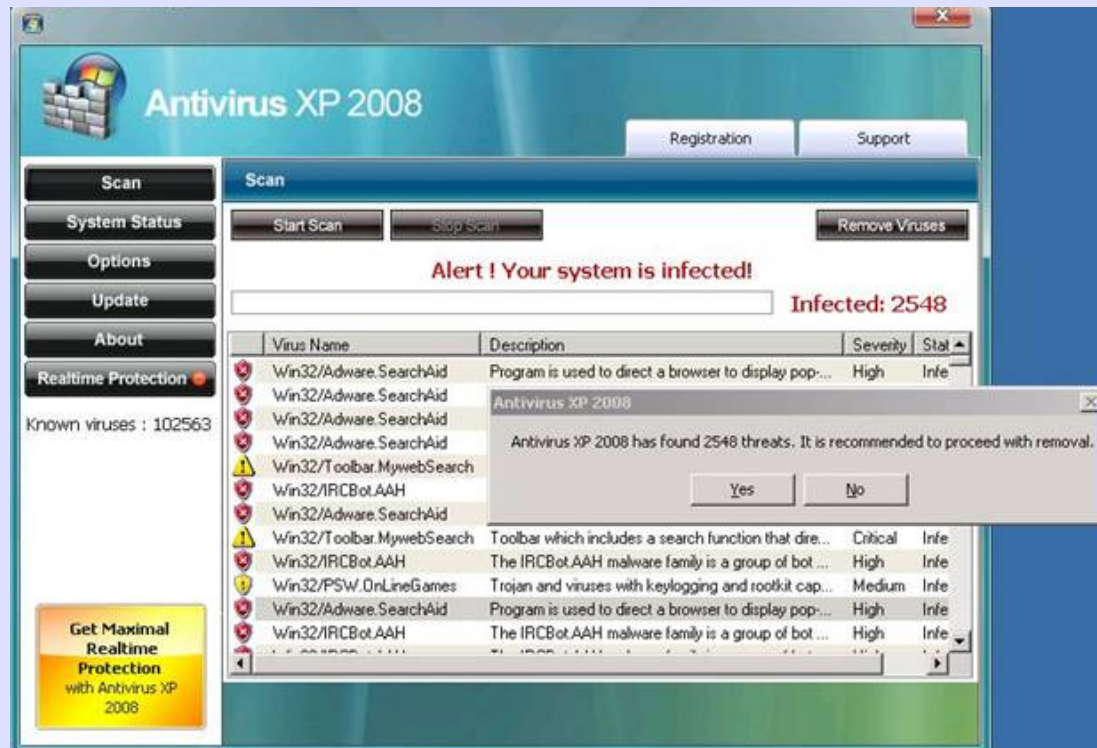


- up-to-date signature needed

fake security software

do nothing, or is just a malware

- also known as 'scareware'



summary

update system

- less security holes

update anti-virus signature

- to detect newer malware

use caution for received/downloaded file

- documents or software