



SOFTWARE VULNS + OTHER: categories: input, output, OS interaction, code/ logic. 38 OF STEPS: inj; CFH; Codex. BOF Prot: Memsafe lang's, safe coding, extensions or safe libs. stackguard, PAd, Guard Pages, stack Randomisation (ASLR), Nx,

MALWARE: Software that violates security policy.  
VIRUS: Attaches to programs, hops to others. Can spread by drive by (most often similar to worms).  
Trojan: Something that is not what you expected / it said

by drive by (most often similar to worms). Trojan: Something that is not what you expected / it said it is. Logic/Time Bomb: triggers as scheduled.

It is. Logic/Time Bomb: triggers on [logic/time] even  
Trapdoor; allows unauthorized access to file.

virus: allows unauthorized access to functionality  
worm: replicating virus that uses the network to propagate, and exploits a vulnerability in the target system. Dormant → spread trigger x-code

Rabbit: exhaust resources through replication

NetBot: control-channel-orchestrated trapdoor Root

Kit: hooks os calls to call Kit functions, stays hid-

en, changes syscall /function tables. Virus Scanner

versions: 1] signature-based 2] heuristics, integrity checks 3] behavior based 4] Multiple. Zero Day: no patch exists when vuln is disclosed. Pwnable.

Patch exists when vuln is disclosed. Bluepill  
Rootkit: installed a hypervisor nested on top of

Code: makes a copy of itself on top of existing one. Virus Types: Polymorphic: many same functioning copies of same virus; Stealth: hide from signature; Encrypted; Metamorphic: complete rewrite

LAWERISM: DMCA: protect IP LAWS about privacy: 4th amendment; Patriot Act; Wiretapping; key escrow/PG; FOIA; Privacy levels: Anonymity: can't determine identity; Pseudonymity: like Anon. can make user responsible for resource use; Unlinkability: can't tie 2 user accesses together. Unobservability: others can not see resource in use. HIPAA - health Sarbanes Oxley Gramm Leach Bliley - pressure on industry, - GLBA - finance simple hash function:  $h(a) = (a+5) \bmod 7$