

Cipher 5

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Capture The Flag

- about 30 teams each host a server
 - like soccer: keep the own box clean while hitting the other box(es) as often as possible
 - analyse, document, secure and attack
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- focuses on application layer and administration
 - code written specifically for this event

Benefits

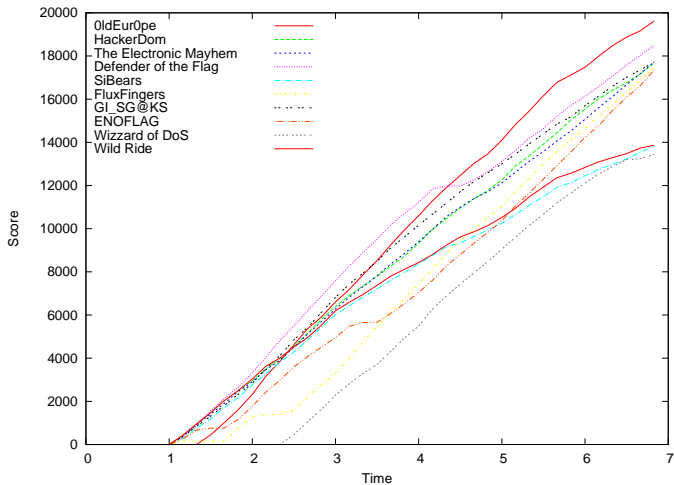
- learn to work under pressure
- learn that there are many ways to compromise security
- learn how difficult it is to actually find bugs in software
- ...and fix them afterwards
- learn that crypto is not the answer (...to everything)
- learn that security by obscurity does not work

Prolog

How
"Security"
Prevents
Security
Exercises

Epilog

defensive

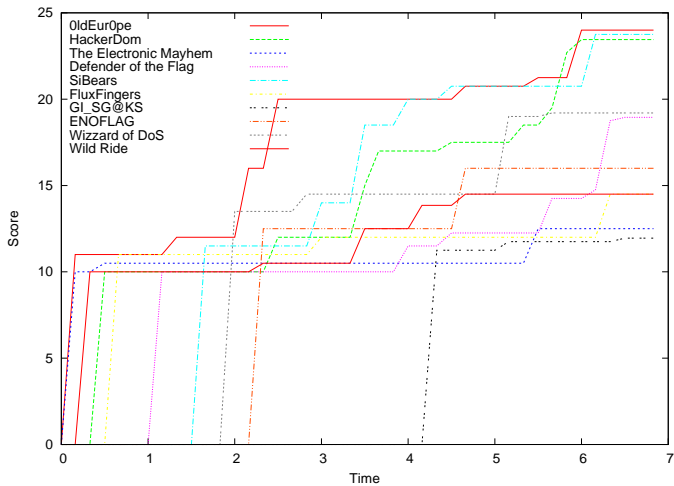


Prolog

How
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advisories

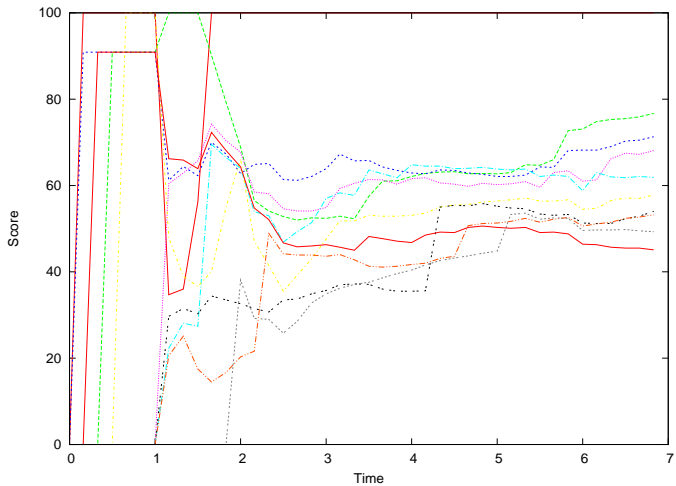


Prolog

How
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Epilog

total



How "Security" Prevents Security Exercises

Communication with teams

- about one third of emails are lost in spam filters
- real time communication in IRC is getting difficult
- (no one reads their emails carefully)

Exchanging data

Prolog

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- How would you exchange a 5GB blob to 50 people all over the world?
- *bittorrent* is blocked or throttled
- some teams simply were not able to download 5 GB within 20 hours
 - need constantly 75KB per second
 - what if TCP-checksum fails? Guess, what – they failed

Connecting people

- setting up a VPN takes more than 6 hours for students?
 - students do not know the meaning of a netmask?
 - students not knowing the impact of using different subnets?
 - principles of SNAT are unknown
 - (some universities using IPs from 10/8 with a /8-netmask?)
-
- strange port filters at hotels (and universities and conferences?)

Encrypting data?

- practical application of *pgp/gpg* is unknown

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Final Standings

	Total	Offensive	Defensive	Ethical
1) OldEur0pe	100	100	100	100
2) HackerDom	77	46	89	97
3) The Electronic Mayhem	72	73	90	52
4) Defender of the Flag	69	35	93	78
5) SiBears	62	19	70	98
6) FluxFingers	59	28	89	60
7) GI_SG@KS	55	27	89	49
8) ENOFLAG	53	4	89	66
9) Wizzard of DoS	49	0	67	80
10) CInsects	48	22	73	47
11) Epic Fail	47	36	49	56
12) squareroots	45	11	60	65
13) Wild Ride	45	6	69	60
14) h4ckInb3rg	43	2	74	54
15) milky way	38	6	56	54
16) StopUsToo	38	1	61	52
17) CIT	38	0	65	48
18) ESSE@INSO	37	0	69	43
19) 0x28 Thieves	36	3	64	41
20) SYPER	34	0	54	47
21) NUCIA	32	1	53	43
22) Bios	29	0	47	41
23) Kav@Buga	29	0	45	43

is C (again) a programming language to write secure programs in?

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can we survive the Internet with students asking the wrong questions?

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why do "security" measure have to bother us all over the place?