



HackPack

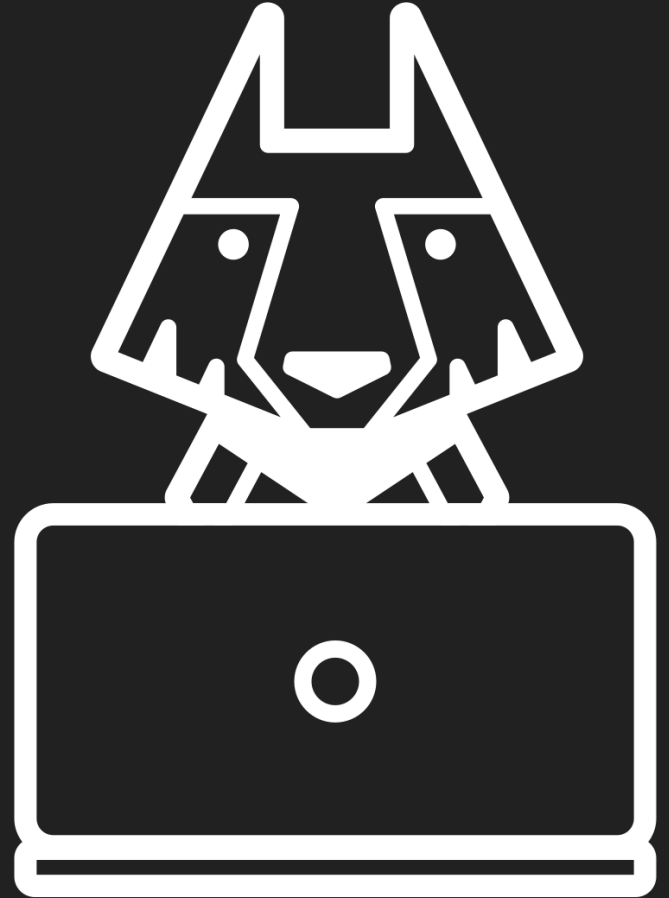
Who am I?



HackPack

What is HackPack?

- Student group with interest in security
- Learn new security-related skills
- Practice your skills in CTFs
- Have fun!



What's a CTF?

- Capture the Flag
- Security-related competition
- Two formats:
 - Jeopardy
 - Attack/Defense
- Solve security challenges for points!
- Contained environment to exercise your security skills
- Fantastic way to learn about security problems in practice



CTF challenges

- Web
- RE (reverse engineering)
- Pwn
- Forensics/Stego
- Crypto
- Other

DEF CON 26 CTF

- The largest, oldest and most l33t CTF in the world
- OOO team organized it this year (and for the next couple years at least)
- Winners get
 - 8 DEF CON black badges
 - 8 DEF CON leather jackets
 - Eternal glory
- Quals in May -> 586 teams
- Finals in August -> 24 teams
- DEF CON attracts ~30,000 people every year...



DEF CON 27 CTF

- Quals -> 1200+ teams
- Finals -> 16 teams
- The highest scoring DEF CON CTF of all time on cftime 96/100

DEFCON CTF finals 2019 (whole game)

service milestones		attack stats	
game started on : August 9th, 2019 9.00 AM		rounds played : 241	
firstblooded in : 6 days, 17 hrs, 31 min, 2 sec		flags stolen : 6772	
firstblood team : HITCONxBFKinesis		teams pwning : 16	
game ended on : August 11th, 2019 1.00 PM		teams pwned : 16	
round progress		patch stats	
last round : 242		attempted : 591 patching attempts	
network cut at : 13:00:00		functional: 255 patches deployed	
service progress		what is this thing?!?	
ooo now : checking it's still up		A real, live attack/defense CTF game Olympics of Hacking, since 1996!	
patch rule : 000 policy			
pcaps : (service by service)		brought to you by the sleep-deprived Order of the Overflow	
indicator : awesome!			
total pwns / global score		want to play? ooverflow.io	
A*0*E : 510 / 564	r3kapiG : 131 / 284	keep being awesome!	
CGC : 106 / 110	saarsec : 292 / 234		
HITCONxBFKin : 1006 / 772	Samurai : 646 / 398		
hxp : 8 / 67	Sauercloud : 114 / 375		
KaisHack GoN : 2 / 281	Seoul+BadAss : 339 / 331		
mhackeroni : 656 / 556	Shellphish : 109 / 284		
PPP : 1442 / 972	TeaDelivrers : 815 / 589		
r00timentary : 499 / 358	TokyoWestrns : 96 / 214		
every team both pwned and was pwned			

[rtc0: 07:12]







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"A VISION FOR YOUR COLLABORATION"

THE CRISIS ANGEL





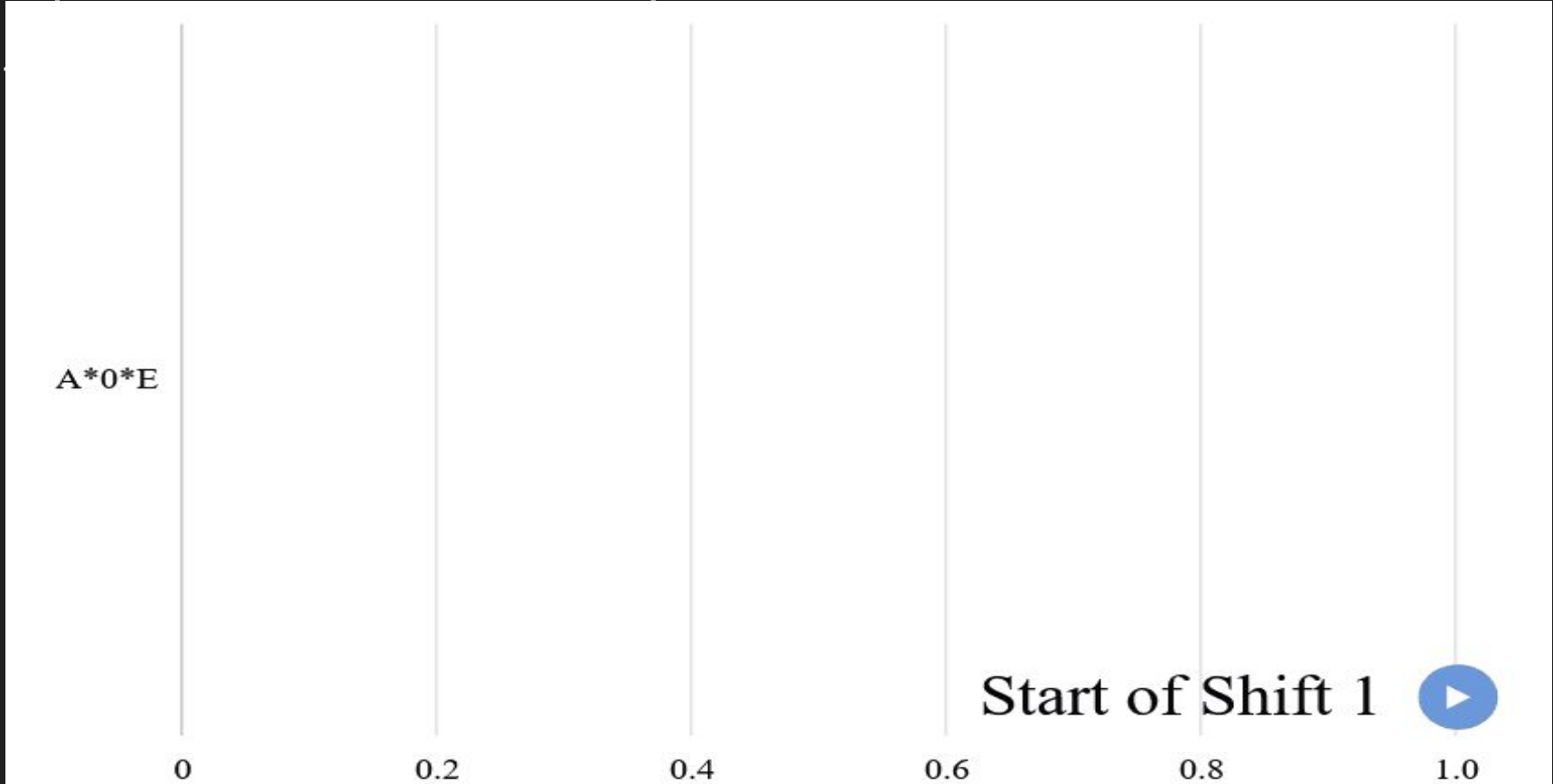
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Capture
the flag

DEFCON#28

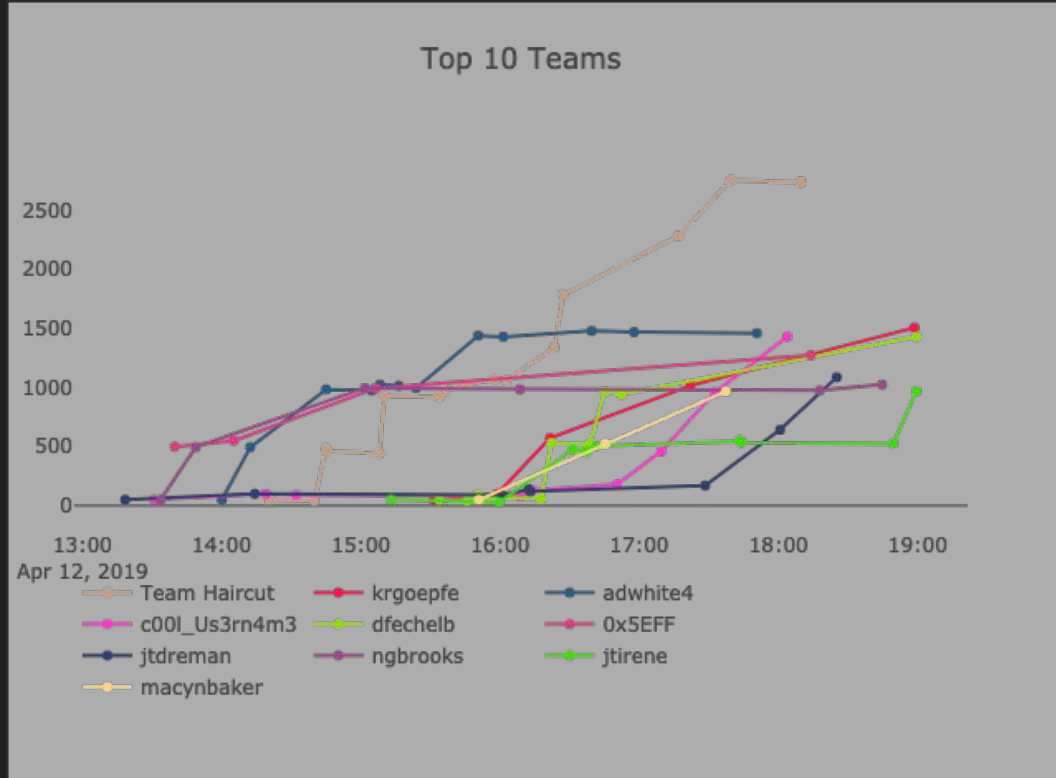
Epic battle for first place



HackPack CTF

- Organized every year in the Spring semester by the core HackPack group
- Part of CSC-405 as homework
- Introductory CTF for students with no security experience
- A chance to get involved in organizing a CTF!

HackPack CTF 2019



Ethics - Avoid going to jail

- We are going to learn some offensive techniques that can cause damage

Never use these skills against any target without written permission

- **Pretty easy, don't do anything illegal!**
- Only try to find vulnerabilities in a system that has a bug bounty program



Bug Bounty Programs

- A number of web sites have started to offer Bug Bounty programs
- They will give you money or fame in exchange for reporting security vulnerabilities to them
- Make sure that they also give you permission, and make sure you understand what is in scope
- Google, Facebook, AT&T, Coinbase, Etsy, Github, Heroku, Microsoft, Paypal,
 - <https://bugcrowd.com/list-of-bug-bounty-programs>





Mark Zuckerberg ✓

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Follow Mark to get his public posts in your news feed.

Follow



18,821,144 Followers

About

🏢 Founder and CEO at Facebook

February 4, 2004 to present

🎓 Studied Computer Science at Harvard University

Past: Phillips Exeter Academy and Ardsley High School

🏠 Lives in Palo Alto, California

📍 From Dobbs Ferry, New York



Khaliil shared a link.

about a minute ago 🌐

Dear Mark Zuckerberg,

First sorry for breaking your privacy and post to your wall , i has no other choice to make after all the reports i sent to Facebook team .

My name is KHALIL, from Palestine .

... See More

Recent

2013

2012

2011

2010

2009

2008

2007

2006

2005

2004

2002

2000

1998

Born

Required skills

- No security background?
 - Linux?
 - Operating Systems?
 - Assembly?
 - Mad Python/Programming skillz?
- Willingness to take a deep dive and understand things in depth
- Self-motivated



HackPack format for Fall'20

- One meeting per week (to be decided how to do this remotely)
- Practice: use your new skills/knowledge
 - Play CTFs together - **pair hacking!**
 - Work on challenges from previous CTFs
 - Post-mortems: How did one of us approached a specific challenge and how did others solve it? (write-ups can be a fantastic way to improve your skills and learn new things!)
- Goal of the semester
 - **Work together on solving all challenges from picoCTF 2018**
 - Produce at least as many write-ups as UNC CTF team has :)
 - These writeups should be the starting point for new members



Introduction round!

- What's your name
- Previous hacking/coding experience
- What do you expect to learn here?
- Any security-related experiences you want to share?

nop