

CTF Problems

November 9, 2017

Overview

Here are a list of problems we'll be tackling this session! They're divided into categories based on difficulty and this will give you insight into what California CTF will be like next year. We'll keep adding to this google doc throughout the quarter. Also, some of the links may seem sketch, but I tested them out and they're fine.



Beginner Problems

These problems are based on the slides from today's session and they have solutions online! All you need for these problems is the ability to read code and google. So, no prior experience required, just the ability to Google!

We also have more steganography from last week's session. Remember to poke a mentor if you get stuck. :)

Enigmagroup: Basic 1

Topic: Page Source

URL: <https://www.enigmagroup.org/pages/challenges/>

Choose Basic Challenge 1

Where can my robot go?

Topic: Web Hacking, Website crawling

URL: <https://www.enigmagroup.org/pages/challenges/>

Choose Basic Challenge 3

Enigmagroup: Basic 2

Topic: URL Fuzzing

URL: <https://www.enigmagroup.org/pages/challenges/>

Choose Basic Challenge 2

HackYourselfFirst

Topic: SQL Injection

URL: <http://hackyourselffirst.troyhunt.com/>

Try2hack

Topic: A variety of exploits, ranging from JS to SQL Injection

URL: <http://www.try2hack.nl/levels/>

XSS Game:

Topic: Cross Side Scripting

URL: <https://xss-game.appspot.com/>

Challenge:

Topic: Steganography

What you have to do: Using GIMP, and what we did last session, create your very own steganography question! Share it with the rest of your group and try solving each other's questions.

Intermediate to Advanced Problems

Here are some more problems for people with prior CTF experience! Remember to poke one of the mentors if you get stuck at any step.

Zero Bank

Topic: Various different exploits

URL: <http://zero.webappsecurity.com/>

Google Gruyere

Topic: Cross Side Scripting

URL: <http://google-gruyere.appspot.com/>

Crack Me Bank

Topic: SQL Injection

URL: <http://crackme.cenzic.com/kelev/view/home.php>

Resources

- CTF UCLA 2017's Beginner's Guide (tons of resources listed here):
 - tinyurl.com/ctfbeginnersguide
- https://www.codebashing.com/sql_demo
- Slides from the previous sessions:
 - tinyurl.com/ctfslides1
 - tinyurl.com/ctfslides2
 - tinyurl.com/ctfslides3
- KITCTF's Guide
 - <https://kitctf.de/learning/getting-started>
- https://www.reddit.com/r/netsecstudents/comments/2wdkle/any_beginner_guides_for_ctf/
- Trail of Bits:
 - <https://trailofbits.github.io/ctf/>
- SSH tutorial for Windows users
 - https://support.suso.com/supki/SSH_Tutorial_for_Windows