

## INSTRUCTIONS

# STEM GAMES 2024 CTF

Welcome to 2024 Stem Games CTF!

Here are some basic instructions about the CTFd platform used to host the event.

1. Head onto the <https://stemgames24.xfer.hr/> URL.
2. Each team should assign a captain who will create the team and other players join via team name, <https://docs.ctfd.io/tutorials/teams/creating-and-joining-teams/> for more info, be sure to use the **team name specified on Discord** so we know who you are, teams with other names will be deleted before the event starts
3. Once you're registered sit back and relax until the event starts, then you will see all the challenges :)

Some general rules of the CTF:

This is a **jeopardy** style event, meaning that there are multiple categories of tasks. This can give a hint of the direction you should take when solving, e.g. if the task is in the *Web* category, chances that it requires knowledge about binary exploits is rather small.

Each challenge is initially worth **500 points** (except the example challenge) and as more players solve it, it becomes worth less and less. For each solution, the value of the task is decreased by 50, until it reaches 100 (there are 10 solves) where it can't go any lower. **The value is reduced even for those who solved it already**, meaning the time of solving doesn't matter, you lose points for it later if many people solve it, but time remains a tie breaker.

Challenge solution (**the flag**) is always in the format **STEM24{.....}** where ..... is replaced with some characters unless otherwise stated by the challenge, also it is **case sensitive** unless again stated differently. Anything you can find can be a hint to how to find the flag, the challenge name, challenge description, challenge category etc.

Attacks on the infrastructure are forbidden (e.g. *dirbusters*) as well as sharing solutions between teams or other forms of attacks other than what is in the scope of the challenge, use your common sense and if we see something suspicious we'll warn you :)

On the other side there is an example of how to solve a simple challenge. Something similar might appear in *forensics* challenges, but this one is purposely in *misc* as it is a part of these instructions.



## EXAMPLE TASK

1. Once you're registered and on the event starts you'll see all the challenges grouped by category they're in.

We'll now solve a simple *misc* task.

To see the description click on the box with the task.

### Challenges

Misc

Example Challenge  
100

Kakuro  
500

web

CV  
500

Challenge 0 Solves

## Example Challenge 100

Have you read the instructions?

challenge.o...

Flag

Submit

2. Here we can download the needed file for solving, as well as read some hints about what to do in the task.

In the other tab we see who solved the task before us.

3. Next you use your mad hacker skills to analyse the file or whatever else the challenge requires.

Once you have the flag you submit it in the text input below the description.

**Flags are case sensitive.**

```
(base) [~/Documents/ctf_stem24]$ strings challenge.out | grep "STEM24"  
STEM24{CONGRATULATIONS_YOU_HAVE_FOUND_THE_FLAG}  
(base) [~/Documents/ctf_stem24]$
```

STEM24{CONGRATULATIONS\_Y

Submit

## Misc

Example Challenge  
100

4. If it is the right one the box will turn green.

**Congrats on solving the first challenge and good luck with the rest!**

Remember to be creative and think outside the box ;)



STEMgames

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