

# PascalCTF 2026

(a bit too soon)

The making of a highschool **Capture The Flag**

# About us

## Marco **Balducci**

5th year of highschool

📍 Rimini, ITT Blaise Pascal

🚩 Paolo, Ulisse

## Alan Davide **Bovo**

5th year of highschool

📍 Cesena, ITT Blaise Pascal

🚩 Paolo, Ulisse

## Enea **Maroncelli**

4th year of highschool

📍 Forlimpopoli, ITT Blaise Pascal

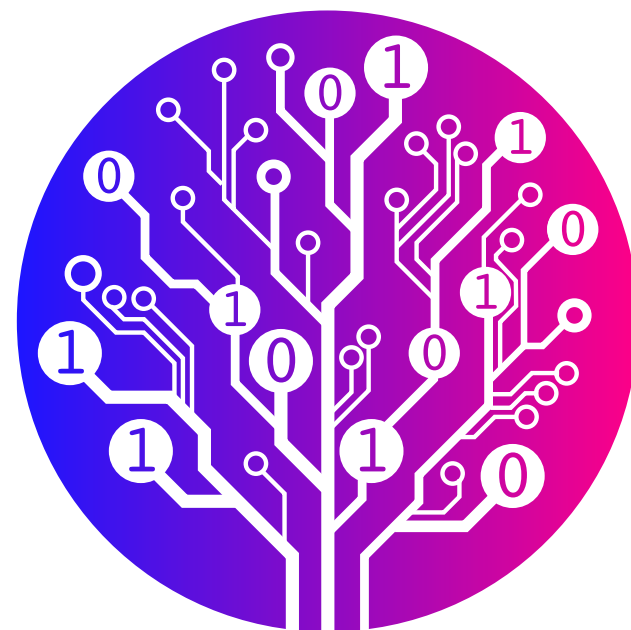
🚩 Paolo

## Prof. Matteo **Lucchi**

Professor

📍 Cesena, ITT Blaise Pascal

🚩 Head organizer of PascalCTF



# Team Paolo


# Why a Highschool?

We first discovered cybersecurity thanks to our older schoolmates who introduced us to this world. Their passion inspired us, and now it's our turn to pass that knowledge forward.

By creating a CTF for high-school students, we aim to spark curiosity, build new skills, and inspire the next generation of cybersecurity enthusiasts. 🌱

# Highschool standards

What can we expect from the average student?

- Basic programming and networking skills
- Zero experience in vulnerability detection and exploitation
- Low attention span 



# How 2 have fun???

## **AI** challenges

Something easy to get the participants in the right mood

## **Gradually** increasing difficulty

The challenges' difficulty had to be carefully chosen to make them accessible to everyone, and also to create a smooth difficulty curve.

## **Help** during the competition

The organizers' constant presence was ensured to answer every possible question (not regarding the solve ofc)

## **No pwn** 🙄

Given how in the 2025 edition no one was able to solve a pwn challenge, we (sadly) had to remove them

# PascalCTF 2026

## Organization

All about finding sponsors and searching for interested students.

## Technical structure

How we developed all the challenges and set up the infrastructure.

# Overall organization

Before starting the development we started focusing on these topics

## Sponsors

We wanted to organize a great event this year thus we needed enough liquidity to buy t-shirts, medals and gadgets.

&

## Searching students

As analyzed before highschool students have no idea whatsoever about the cybersecurity field thus we had to find some ways to make it more interesting.

2025



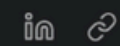
Maggioli



VEM Sistemi



Flashstart



# Sponsors

Huge thanks to the companies that helped us  
in successfully accomplishing our goals!



# Students interests

For an highschool student there isn't anything better than skipping classes.

I swear that anything is better than a lesson of Italian literature 🙄💤

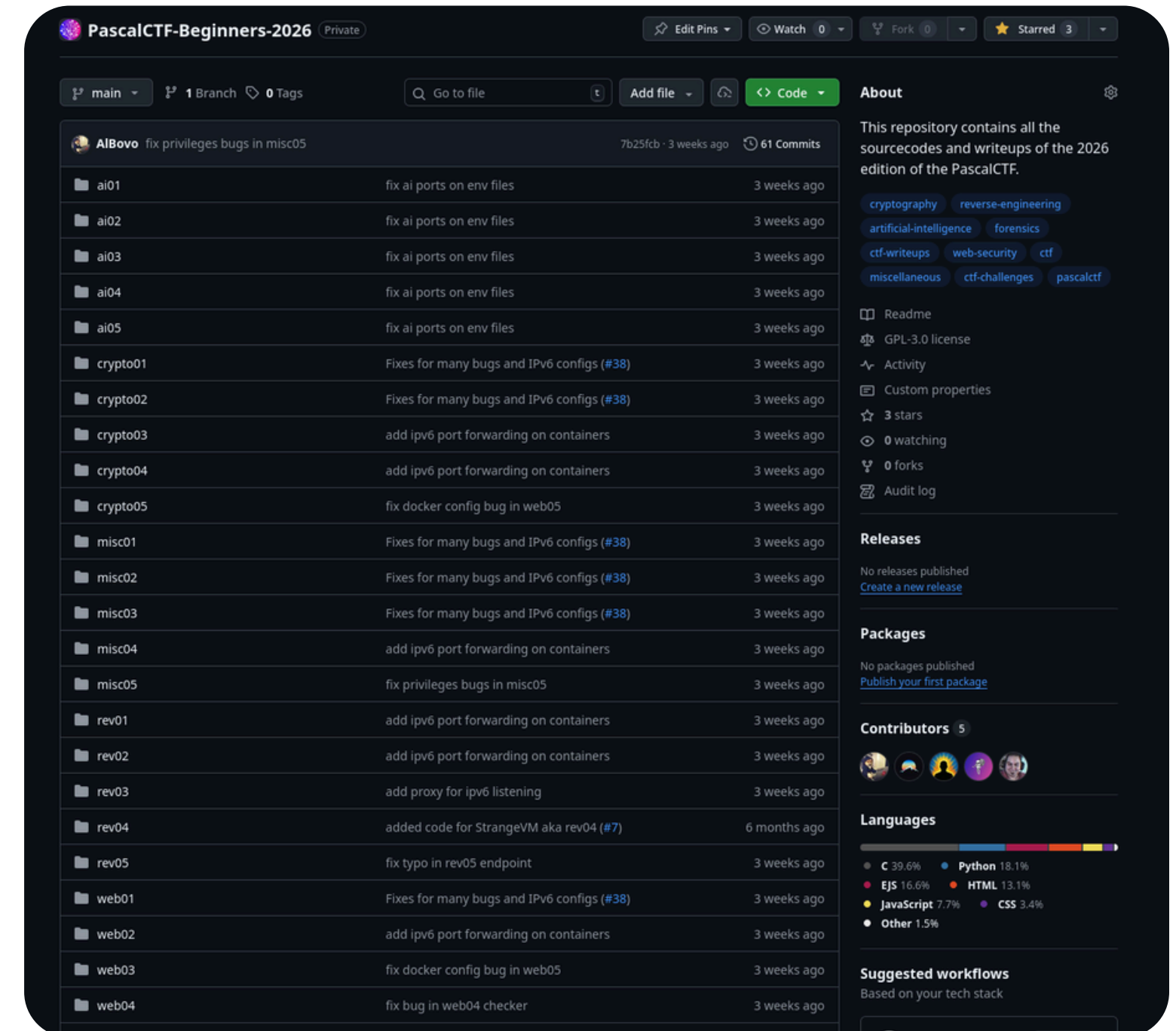
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11/11/2025 11.17.25	erick.balla.stud@ipascalcomandini.it	Erick	Balla	4	N		Davide Gerito	
12/11/2025 17.25.17	chris.bartolini.stud@ipascalcomandini.it	Chris	Bartolini	2	F	Si	Daria Topi	
15/11/2025 14.46.22	marco.bianchi.stud@ipascalcomandini.it	Marco	Bianchi	1	F	No		
06/11/2025 14.28.34	alexandro.bianchini.stud@ipascalcomandini.it	Alessandro	Bianchini	4	I		Luca Bonasia	
06/11/2025 10.27.56	francesco.bignazzi@gmail.com	Francesco	Bignazzi	3	E		Niccolò Zani	x
06/11/2025 14.28.37	luca.gastano.bonasia.stud@ipascalcomandini.it	Luca Gastano	Bonasia	4	I		Alessandro Bianchini	
11/11/2025 10.17.38	matteo.bonci.stud@ipascalcomandini.it	Matteo	Bonci	4	I	Si	Ioannu Torcolacci	x
15/11/2025 14.44.15	matthia.bonfi.stud@ipascalcomandini.it	Matthia	Bonfi	1	F	No		
07/11/2025 9.47.46	matteo.boschi.stud@ipascalcomandini.it	Matteo	Boschi	4	I		Vittorio Gabbinielli	
06/11/2025 14.11.17	filippo.boschi.stud@ipascalcomandini.it	Filippo	Boschi	4	N			
14/11/2025 14.02.34	valentinocaldari@gmail.com	Valentino	Caldari	4	E	No		
06/11/2025 13.02.50	manuel.campara.stud@ipascalcomandini.it	Manuel	Campara	4	I		Matteo Mancini	y
06/11/2025 22.18.38	marco.caprà.stud@ipascalcomandini.it	Marco	Caprì	3	M			
06/11/2025 16.07.55	federico.carmosini.stud@ipascalcomandini.it	Federico	Carmosini	2	E	Si		
15/11/2025 16.49.09	nicola.casavecchia.stud@ipascalcomandini.it	Nicola	Casavecchia	5	SN			
15/11/2025 14.25.04	samuele.cecola.stud@ipascalcomandini.it	Samuele	Cecola	1	H	Si	Leonardo Neri	
12/11/2025 13.10.31	matthia.circotta.stud@ipascalcomandini.it	Matthia	Circotta	5	H		Leonardo Shani	
06/11/2025 13.12.14	coccimiglio5@gmail.com	Carmine	Coccimiglio	5	L		Samuele Romagnoli	x
06/11/2025 19.19.39	fabio.consolini.stud@ipascalcomandini.it	Fabio	Consolini	1	E	Si	Tagliati Bryan	
06/11/2025 13.02.35	stefano.crozzola.stud@ipascalcomandini.it	Stefano	Crozzola	4	I		Manuel Campara	y
15/11/2025 14.46.53	alessandro.d'antonio.stud@ipascalcomandini.it	Alessandro	D'Antonio	1	H	Si	Aron Palamini	
14/11/2025 15.27.19	marcello.decola.stud@ipascalcomandini.it	Marcello	De Cola	2	E	Si	Mirco Rossi	
15/11/2025 14.49.32	francescopaolo.dipiazza.stud@ipascalcomandini.it	Francesco paolo	Dipiazza	1	H	Si	Samuele Mario Checchia	
15/11/2025 10.01.25	luca.dome3577@gmail.com	Luca	Domeniconi	5	G		Giacomo Gatti	
15/11/2025 15.54.39	adam.eltghalini.stud@ipascalcomandini.it	Adam	El ghali	1	F	No		
15/11/2025 13.00.33	simone.fiazz101.stud@ipascalcomandini.it	Simone	Fiazzì	1	H	No	Nicolas Neri	
11/11/2025 11.21.00	francesco.fiorio.stud@ipascalcomandini.it	Francesco	Fiorio	4	N		Francesco Palazzi, Mario Lutfi	x
07/11/2025 9.46.06	vittorio.gabbinielli.stud@ipascalcomandini.it	Vittorio	Gabbinielli	4	I		Matteo Boschi	
15/11/2025 10.00.25	giacomo.gatti.stud@ipascalcomandini.it	Giacomo	Gatti	5	G		Raffaele Zanni	
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15/11/2025 18.24.39	vanan.heer.stud@ipascalcomandini.it	Vanan	Heer	1	H	No	Diego Shini	
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12/11/2025 13.28.58	kweska7@gmail.com	Oliver	Luczyn	1	H		Jordan maoli	
15/11/2025 16.37.39	jordan.maoli.stud@ipascalcomandini.it	Jordan	Maoli	1	H	Si	Oliver Luczyn	
14/11/2025 9.26.26	denis.malvezzi.stud@ipascalcomandini.it	Denis	Malvezzi	3	L	Si	Matthia Lorenza, Henry Mustaj	
06/11/2025 13.33.58	matteo.mancini.stud@ipascalcomandini.it	Matteo	Mancini	4	I		Manuel Campara	y
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14/11/2025 21.26.29	nicolas.mohrasi.stud@ipascalcomandini.it	Nicolas	Mohrasi	4	F			
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15/11/2025 9.59.35	henri.mustaj.stud@ipascalcomandini.it	Henri	Mustaj	3	L	No		
15/11/2025 16.26.25	leo.neri072011@gmail.com	Leonardo	Neri	1	H	No	Giacomo Montali	
12/11/2025 16.18.25	nicolas.neri.stud@ipascalcomandini.it	Nicolas	Neri	1	H	No	Simone Fiazzì	
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15/11/2025 14.21.03	aron.palamini.stud@ipascalcomandini.it	Aron	Palamini	1	H	Si	D'Antonio Alessandro	
11/11/2025 11.14.21	francescopalazzi.stud@ipascalcomandini.it	Francesco	Palazzi	4	N		Mario Lutfi, Florio Francesco	x
10/11/2025 17.50.51	federico.palmicchio.stud@ipascalcomandini.it	Federico	Palmicchio	5	H		Lorenzo Shani	
15/11/2025 14.47.35	elia.palpellia.stud@ipascalcomandini.it	Elia	Palpellia	1	E	Si	Tagliati Bryan e Consolini Fabio	
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14/11/2025 15.27.22	mirco.rossi.stud@ipascalcomandini.it	Mirco	Rossi	2	E	Si	Marcello De Cola	
15/11/2025 14.13.53	andrea.silvano.rusconi.stud@ipascalcomandini.it	Andrea Silvano	Rusconi	3	E			
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15/11/2025 10.00.25	raffaele.zanni.stud@ipascalcomandini.it	Raffaele	Zanni	5	G		Domeniconi Luca	
06/11/2025 16.31.49	nicola.zani.stud@ipascalcomandini.it	Nicola	Zani	3	E		Matthia Terzi	
07/11/2025 16.12.14	renxin.zhang.stud@ipascalcomandini.it	Renxin	Zhang	3	M		Giulio Ortanik	

# Challenges

We created a github repository with a simple structure.

We saved informations about:

- Ports and network configurations
- Descriptions/titles/points
- Writeups
- Checkers 🔥

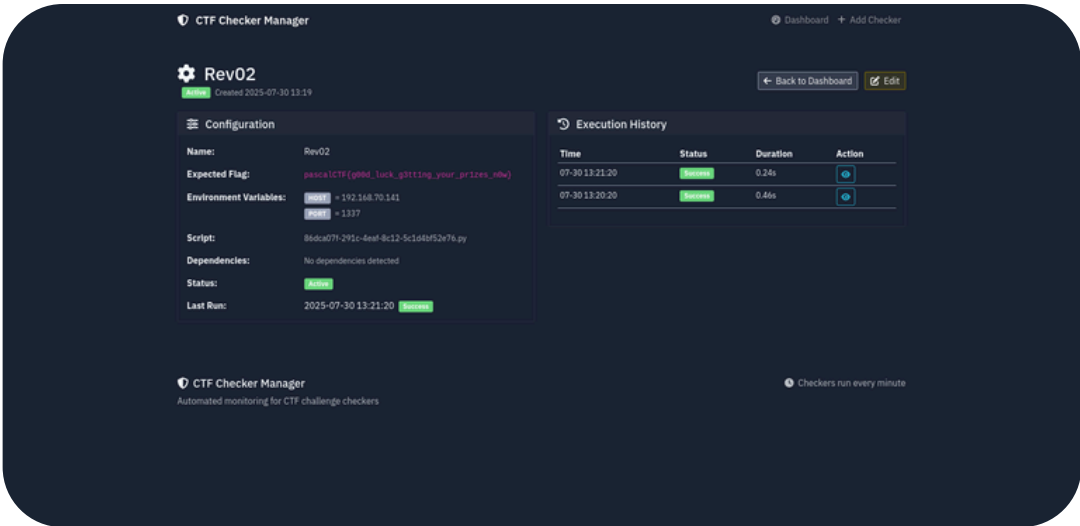
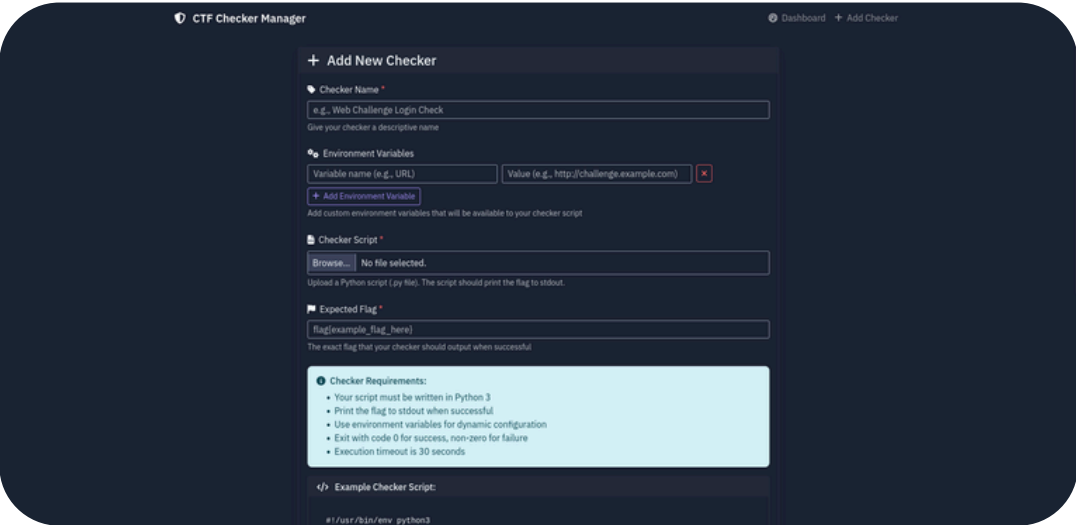
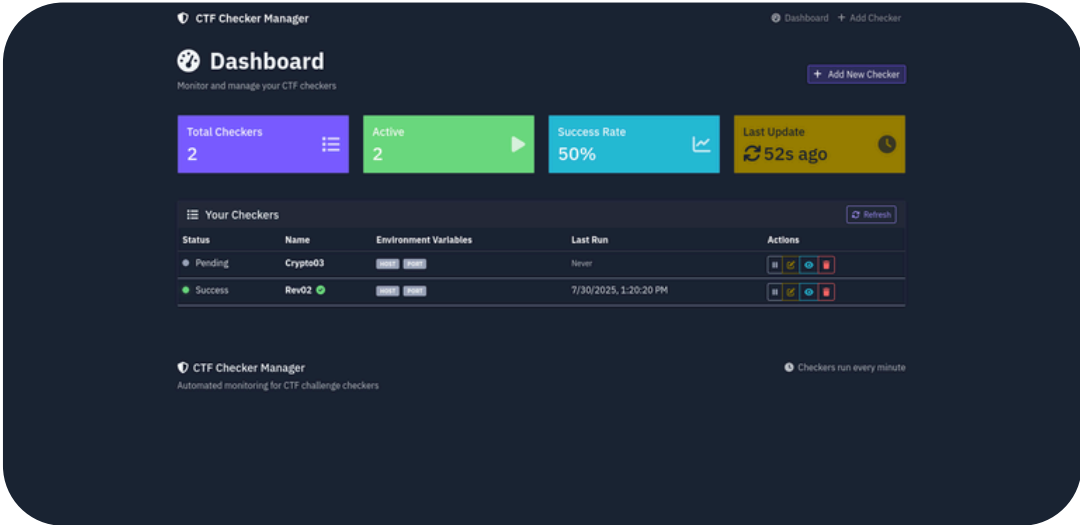


"If it works, maybe ChatGPT  
cooked enough not to  
be blamed 🌹."

— Fent Shui, "How i left my family to capture flags"

# Checkers manager

A simple website able to manage checker scripts and verify the correct behavior of the challenges.



# Some statistics

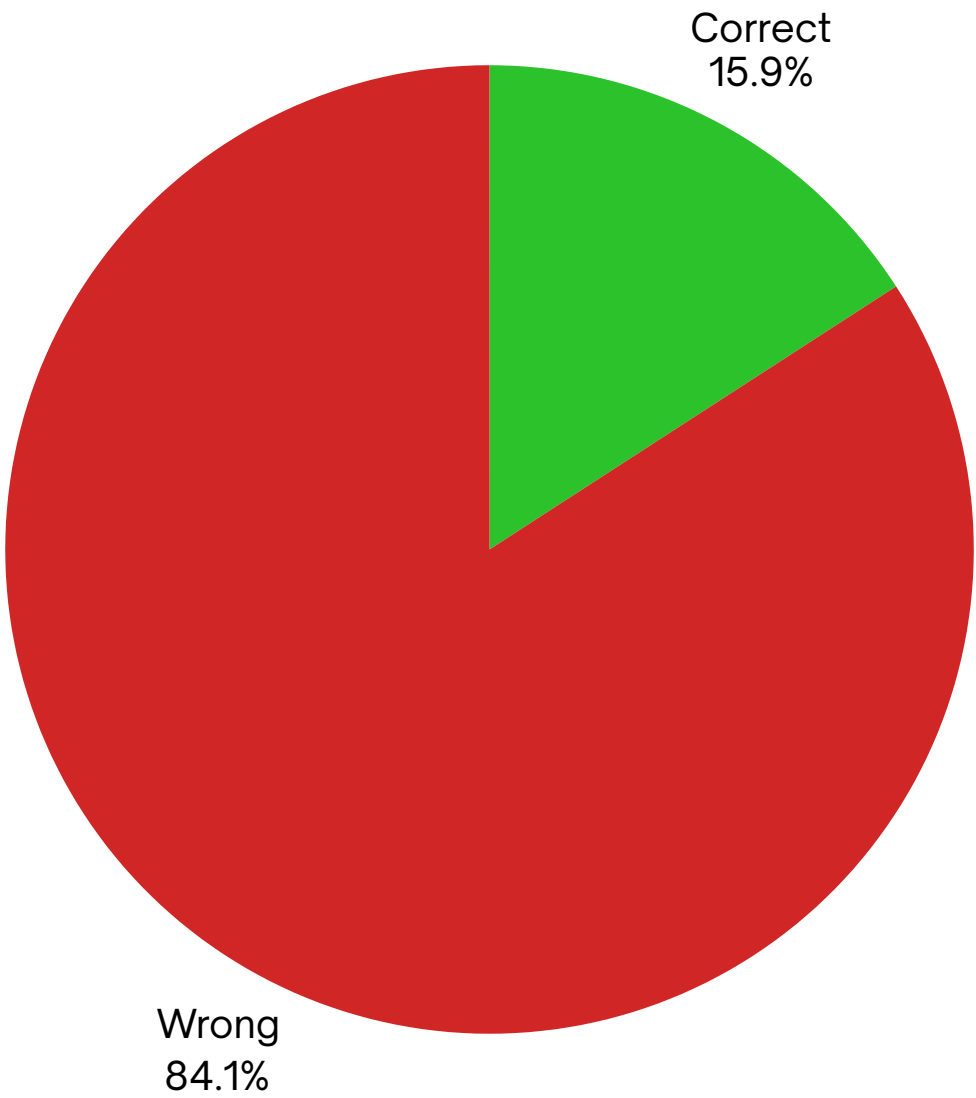
There were many challenges but almost all of them where easily solvable by an AI agent.

Cloudflare exploded in the meanwhile



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<input type="checkbox"/>	2	Cavalieri del Pitone		5323	visible
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<input type="checkbox"/>	5	Alveare delle API		4116	visible
<input type="checkbox"/>	6	/whatever squad		3591	visible
<input type="checkbox"/>	7	I gabibbi		3324	visible
<input type="checkbox"/>	8	Aura Team		3305	visible
<input type="checkbox"/>	9	The Last Cyberagents		3290	visible
<input type="checkbox"/>	10	The bad doctors		2886	visible
<input type="checkbox"/>	11	Five Nights @ PWN		2296	visible
<input type="checkbox"/>	12	Capotreni dell'AI		2197	visible

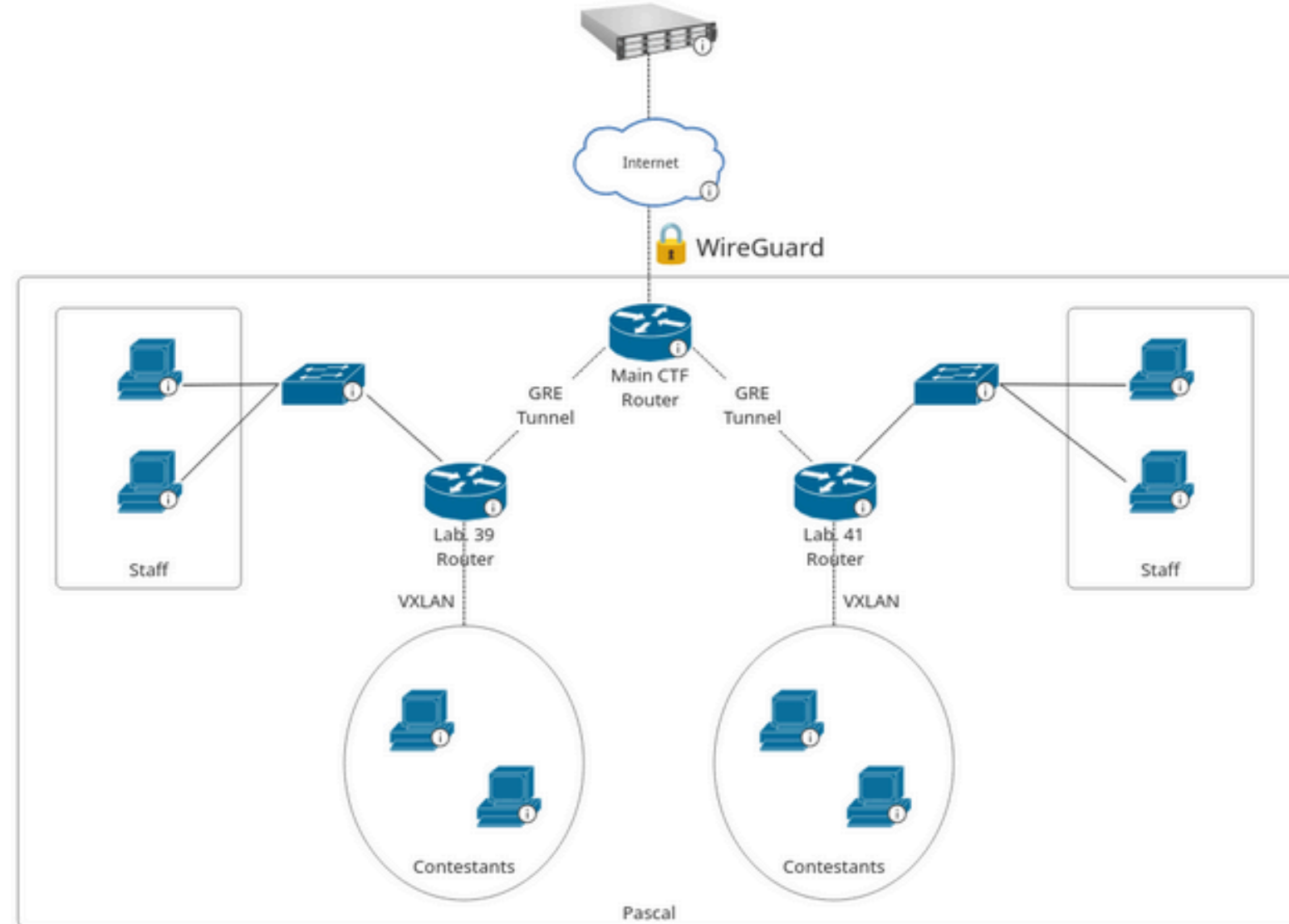
Flags submitted





# Infrastructure

We've a really *complex* infrastructure, our infra guy projected it to be fully compliant with the requirements of our school's network.



our infra guy



# But how to interest people?



## Lessons

From the beginning of the year we had lessons focused on learning the **very basic** of cybersecurity

## Professors

Professors should **encourage** students to learn valuable supplementary skills, such as cybersecurity.

## Events

Events like the **PascalCTF** surely increase students interest, introducing them to cybersecurity in a fun way



# Lessons



Our lessons were designed for people with **zero** experience, ensuring nobody is left behind.

Cybersecurity is surely a difficult subject both to teach and to study, but at least last year, “students” said that we did a great job

The main focus of the CTF and the lessons was in fact interest as many people as possible, **hoping** that someone could get passionate about cybersecurity and join **Team Paolo**



# Suggestions

## Memes

JARVIS SOLVE  
THIS CTF CHALLENGE



## Writeups

Make sure to write the best possible writeups, explaining everything about the exploits to help people learn new things


## Easy challenges

Always keep some easy challenges in the ctfs for newbies, so that everyone can have fun

# Thanks

## PascalCTF Beginners 2026

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sab, 31 Gen. 2026, 09:00 CET — dom, 01 Feb. 2026, 09:00 CET 

On-line


A [PascalCTF](#) event.

Format: Jeopardy 

Official URL: <https://ctf.pascalctf.it/>

Future weight: to be determined 

Rating weight: 0,00 

Event organizers 

- [Paolo](#)

