

# PicoCTF Write Up

Category : General Skills

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## Binary Search



Easy

General Skills

picoCTF 2024

shell

browser\_webshell\_solvable

Is

AUTHOR: JEFFERY JOHN

### Description

Want to play a game? As you use more of the shell, you might be interested in how they work! Binary search is a classic algorithm used to quickly find an item in a sorted list. Can you find the flag? You'll have 1000 possibilities and only 10 guesses.

Cyber security often has a huge amount of data to look through - from logs, vulnerability reports, and forensics. Practicing the fundamentals manually might help you in the future when you have to write your own tools!

You can download the challenge files here:

- [challenge.zip](#)

This challenge launches an instance on demand.

Its current status is:

NOT\_RUNNING

Launch  
Instance

### Hints

1 2 3

## Binary Search

Author: Jeffery Jhon

Description:

`ssh -p 64580 ctf-player@atlas.picoctf.net` Using the password `6dd28e9b`. Accept the fingerprint with yes, and ls once connected to begin. Remember, in a shell, passwords are hidden!

Hints:

1. Have you ever played hot or cold? Binary search is a bit like that.
2. You have a very limited number of guesses. Try larger jumps between numbers!
3. The program will randomly choose a new number each time you connect. You can always try again, but you should start your binary search over from the beginning - try around 500. Can you think of why?

Solutions:

Pertama-tama kita akan menggunakan command yang telah tertera didalam deskripsi soal PicoCTF didalam shell terminal didalam operasi sistem linux.

Dengan menjalankan command berikut, yakni: `~$ ssh -p 61510 ctf-player@atlas.picoctf.`

Ketika command tersebut dijalankan akan ada perintah untuk memasukkan password. Masukkan password `6dd28e9b`, Setelah itu tebak angka dari 1-1000.

**Hasil Tebakkan :**

Welcome to the Binary Search Game!

I'm thinking of a number between 1 and 1000.

Enter your guess: 500

Lower! Try again.

Enter your guess: 300

Lower! Try again.

Enter your guess: 100

Higher! Try again.

Enter your guess: 150

Lower! Try again.

Enter your guess: 130

Higher! Try again.

Enter your guess: 135

Lower! Try again.

Enter your guess: 133

Lower! Try again.

Enter your guess: 132

Lower! Try again.

Enter your guess: 131

Congratulations! You guessed the correct number: 131

**Flag:**

picoCTF{g00d\_gu355\_de9570b0}