

Frontrunning Attacks Exercise 2

Intro

There is a new lucrative referral program for a DEFI perpetual protocol.

When you refer someone you get from the protocol a comission of 50% from the user's trading fees.

The referral system is implemented using a `Referrals.sol` smart contract.

Can you frontrun users and "steal" their referral code?

Accounts

- 0 - Deployer & Owner
- 1 - User
- 2 - Attacker (You)

Tasks

Task 1

Using Ethers, find a way to listen to the pending transactions that are being sent to the contract.

Task 2

Find a way to get the transaction data of the pending transaction.

Task 3

Find a way to frontrun the user's transaction and steal his referral code so it will be yours.

Useful Link

[Hardhat Mining Modes](#)