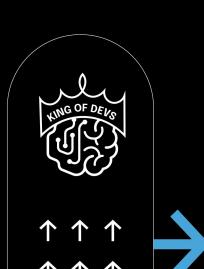
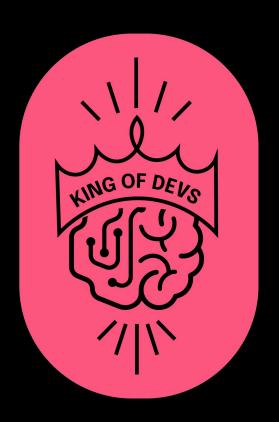
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WORKSHOP DAY 1 HARDHAT PLUGINS



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BLOCK HOUSE

Hardhat plugins

@nomicfoundation/hardhat-toolbox

@nomiclabs/hardhat-ethers <u>can</u>

hardhat-gas-reporter

hardhat-contract-sizer

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etherscan

```
etherscan: {
   apiKey: {
       mainnet: `${process.env.ETHERSCAN_API_KEY}`,
        rinkeby: `${process.env.ETHERSCAN_API_KEY}`,
        polygon: `${process.env.POLYGONSCAN API KEY}`,
        polygonMumbai: `${process.env.POLYGONSCAN_API_KEY}`,
```

hardhat.config.ts | hardhat.config.js

ΑT

BLOCK HOUSE

Commands:

etherscan

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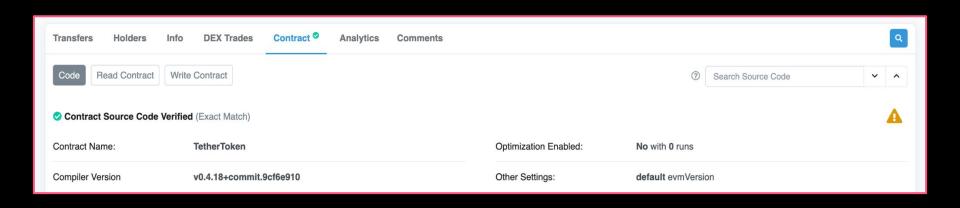
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- npx hardhat verify --network <network_name> <DEPLOYED_CONTRACT_ADDR>
 - npx hardhat verify --network <network_name> <DEPLOYED_CONTRACT_ADDR>
 "constructor arg"
 - npx hardhat verify --network <network_name> <DEPLOYED_CONTRACT_ADDR>
 --constructor-args <args_file.js>

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think & d

etherscan



 $\bullet \quad \text{https://etherscan.io/token/0xdac17f958d2ee523a2206206994597c13d831ec7\#code} \\$

think & dev think & dev

gas-reporter

```
gasReporter: {
    enabled: !!process.env.REPORT_GAS,
    currency: "USD",
    gasPrice: 21,
},
```

• npx hardhat test

gas-reporter

Solc version: 0.8.9		Optimizer enabled: true		Runs: 200	Block limit: 30000000 gas		
Methods							
Contract	Method	Min	Max	Avg	· # calls	usd (avg)	
OzStoppablePattern	withdraw	_	_	33820	7	-	
Deployments				· % of limit			
Constant		_	_	86501	0.3 %	-	
Immutable		_	_	90857	0.3 %	- 1	
NoConstants		-	-	109202	0.4 %	-	
					<u> </u>		

hardhat-contract-sizer

```
contractSizer: {
    alphaSort: true,
    runOnCompile: true,
    strict: true,
    only: [":ERC20$"],
```

npx hardhat size-contracts

hardhat-contract-sizer

Contract Name	Size (KiB)	 Change (KiB)
Constant	0.149	
Immutable	0.161	ı
List	1.011	
LockV4	0.483	
LockV5	0.605	
LockV6	0.656	
LockV7	0.489	
LockV8	0.471	
NoConstants	0.142	
OzStoppablePattern	0.525	
StoppablePattern	0.420	







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