

AVS staking contract: deployment

GitHub repo: <https://github.com/RitaTcepeleva/AVS-staking>

There you can find source code of Solidity smart contract contracts/stakin_contract.sol

To deploy it you need to install truffle by npm (npm install -g truffle).

Create your .env file using env-example file. Change ETHERSCAN_API_KEY, MNEMONIC, INFURA_ID_PROJECT and other variables to your own. Change the variable DEPLOY_GAS_PRICE by using <https://etherscan.io/gastracker> or <https://ethgasstation.info/index.php> for choosing a gas price (if you'll set too low value, deployment will take a long time).

// DEPLOY_GAS_PRICE = DEPLOY_GAS_LIMIT * gas price on gastracker

we recommend you to use FAST (2m) gas price

Deploy in testnet (Rinkeby example):

To deploy in testnet open /migrations/1_initial_migration.js, paste in <...> you rinkeby token address (if it is not a variable, the address must be enclosed in quotes)

deployer.deploy(Migrations, <...>, 1613606400, 86400);

The second argument is a date of contract creation (1613606400

means Thursday, February 18, 2021 0:00:00, you can change it into your own timestamp).

The third argument is a number of seconds in one day.

Then go to a command line and run `truffle migrate --network rinkeby`

If everything is ok you'll see something like that:

```
Compiling your contracts...
=====
> Everything is up to date, there is nothing to compile.

Starting migrations...
=====
> Network name:    'rinkeby'
> Network id:     4
> Block gas limit: 10000000 (0x989680)

1_initial_migration.js
=====
Replacing 'AVS_staking'
-----
> transaction hash: 0xc90d930d2b1178a3050641550261620bed7880de33bc36e0598a3be5c45321df
> Blocks: 0        Seconds: 4
> contract address: 0xBcCf21a41D1494E7d409d732d88fFB112d9D646B
> block number:    8095301
> block timestamp: 1613658394
> account:
> balance:
> gas used:        2485594 (0x25ed5a)
> gas price:       20 gwei
> value sent:      0 ETH
> total cost:      0.04971188 ETH

Pausing for 2 confirmations...
-----
> confirmation number: 1 (block: 8095302)
> confirmation number: 2 (block: 8095303)
> Saving artifacts
-----
> Total cost:      0.04971188 ETH

Summary
=====
> Total deployments: 1
> Final cost:       0.04971188 ETH
```

After that you should run `truffle run verify AVS_staking --network rinkeby` to verify your contract. Then you'll see an url of your verified contract on Etherscan (Rinkeby testnet).

Deploy in mainnet:

The only difference from the previous example is a variable `AVS_ADDR`, paste it into `deployer.deploy(Migrations, <...>, 1613606400, 86400);` this line.

Then run in command line `truffle migrate --network mainnet`

Then run `truffle run verify AVS_staking --network mainnet`