

Documentation

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This aims to be the Documentation of the Erasureprotocol. Just add your information in the fitting section, cd into docs and run `asciidoctor-pdf Documentation.adoc` so the pdf will be generated.

# Introduction

...

WARNING

TODO

# Why, Where, Who

# How

# Workflow

# Infrastructure

...

WARNING

TODO



# Dependencies

# Smart Contracts

# Workarounds

# Functions

...

WARNING

TODO

**Internal**

# privateKey User

# publicKey User

# Examples



# yarn deploy ganache

09/11/2019 **Output:**

```
$ yarn etherlime deploy ./deployment/deploy.js --compile=false ganache
$ .../erasure-protocol/node_modules/.bin/etherlime deploy ./deployment/deploy.js
--compile=false ganache
Deployment Wallet: 0x87e0ED760fb316eeb94Bd9cF23D1d2BE87aCe3d8
Deployer set to deploy from address: 0xD9995BAE12FEe327256FFec1e3184d492bD94C31

JSONRPC Deployer Network: http://localhost:8545/

Deploying contract: MockNMR
Contract MockNMR deployed at address: 0xc9707E1e496C12f1Fa83AFbbA8735DA697cdBf64

Deploying contract: Erasure_Posts
Contract Erasure_Posts deployed at address: 0x9eD274314f0fB37837346C425D3cF28d89ca9599

Deploying contract: Erasure_Agreements
Contract Erasure_Agreements deployed at address:
0x655341AabD39a5ee0939796dF610aD685a984C53

Deploying contract: Erasure_Users
Contract Erasure_Users deployed at address: 0x0116090EfeC8A6c176A094d3094c58811a7eA39c

Deploying contract: Post_Factory with parameters:
0x9eD274314f0fB37837346C425D3cF28d89ca9599
Contract Post_Factory deployed at address: 0xa6DD34f3CeA10D1F78c0b1F8C13eFbAbE5DF9708

Deploying contract: Feed_Factory with parameters:
0x9eD274314f0fB37837346C425D3cF28d89ca9599
Contract Feed_Factory deployed at address: 0x305b8DDA35b2e9b395E63Ad7B4e845859ab3aB4e

Deploying contract: CountdownGriefing_Factory with parameters:
0x655341AabD39a5ee0939796dF610aD685a984C53
Contract CountdownGriefing_Factory deployed at address:
0xEE43f3f33d2972441251887FbB7C64D2fD55677f

Register Factories

addFactory() | Post_Factory => Erasure_Posts
Waiting for transaction to be included in a block and mined:
0x76b534cf1014c67fd685c8465eaf02c29bbf72feb342e3ac29917362ade1cf14
addFactory() | Feed_Factory => Erasure_Posts
Waiting for transaction to be included in a block and mined:
0xa6fa8a054aa18d6ba5b21b363a209907ef3e46e44050a3c21f764a721487c61c
addFactory() | CountdownGriefing_Factory => Erasure_Agreements
Waiting for transaction to be included in a block and mined:
0xfefcf9f705dec349f2a6d4a1298d71e5ec7742264f166a000018973adaf99bfc
```

## Transfer Registry Ownership

```
transferOwnership() | Erasure_Posts => 0x87e0ED760fb316eeb94Bd9cF23D1d2BE87aCe3d8
Waiting for transaction to be included in a block and mined:
0x174b2275617139c9993017d95d1db58c6bd0eff6136383e45656e8f5a56b8a0b
transferOwnership() | Erasure_Agreements => 0x87e0ED760fb316eeb94Bd9cF23D1d2BE87aCe3d8
Waiting for transaction to be included in a block and mined:
0x0dba0aba8d40a5e3519ff65d7bfd4545b4ddb4b398b5050dc745d6207fbc9d84
```

Create test instances from factories

```
multihash: 0x1220c8a6fecb58509ad6757316d27f9e8c2e40ea5a0f64d215215b70310f2930ed4f
Waiting for transaction to be included in a block and mined:
0xee57520d552f6dd2e872dbcf1e5b88a495eb711431c04d7268c7aa10784e0d40
createExplicit() | Post_Factory => 0x2Fb8954109c5b1544c3B4b09e1F3Fa93D5f3DFfa
Waiting for transaction to be included in a block and mined:
0x3c813d227e18a25ca66b0eb76329a5c826f374f19be707a35b8d5092ca146fe6
createExplicit() | Feed_Factory => 0xDBC73fCC1166d3F6cb0CacCcF64cCb78eBc4EbF1
TypeError: contracts.CountdownGriefing_Factory.instance.createExplicit is not a
function
    at deploy (.../erasure-protocol/deployment/deploy.js:203:54)
    at process._tickCallback (internal/process/next_tick.js:68:7)
Your deployment script finished with failure!
```

Here is your report:

Event Time	11 September, 11:54:52
Executor	EtherlimeGanacheDeployer
Name or Label	MockNMR
Tx Hash	0x4e9e123cd999c45ef8c34ded1d7ef78a24e757b900bae48b348c8d257073dfd1
Status	Success

Gas Price	2.0 Gwei
-----------	----------

Gas Used	1928080
----------	---------

NetworkID	1568195479869
-----------	---------------

Result	0xc9707E1e496C12f1Fa83AFbbA8735DA697cdBf64
--------	--

Solc Version	0.5.11+commit.c082d0b4.Emscripten.clang
--------------	---

Contract Verification	Not recorded
-----------------------	--------------

Event Time	11 September, 11:54:52
------------	------------------------

Executor	EtherlimeGanacheDeployer
----------	--------------------------

Name or Label	Erasure_Posts
---------------	---------------

Tx Hash	
0x9dc6c3e6b0a5b82c30f33a8565b55e0376cd3b69808264c306349356c8eb35cb	

Status	Success
--------	---------

Gas Price	2.0 Gwei
-----------	----------

Gas Used	2326829
----------	---------

NetworkID	1568195479869
-----------	---------------

Result	0x9eD274314f0fB37837346C425D3cF28d89ca9599
--------	--

Solc Version	0.5.11+commit.c082d0b4.Emscripten.clang
--------------	---

Contract Verification	Not recorded
-----------------------	--------------

Event Time	11 September, 11:54:53
------------	------------------------

Executor	EtherlimeGanacheDeployer
----------	--------------------------

Name or Label	Erasure_Agreements
---------------	--------------------

Tx Hash	0x0fd994663014a394ddb530a1cb0e49d57b9a76baccd6bc3435183163b352344f
---------	--

Status	Success
--------	---------

Gas Price	2.0 Gwei
-----------	----------

Gas Used	2327149
----------	---------

NetworkID	1568195479869
-----------	---------------

Result	0x655341AabD39a5ee0939796dF610aD685a984C53
--------	--

Solc Version	0.5.11+commit.c082d0b4.Emscripten.clang
--------------	---

Contract Verification	Not recorded
-----------------------	--------------

Event Time	11 September, 11:54:53
------------	------------------------

Executor	EtherlimeGanacheDeployer
----------	--------------------------

Name or Label	EraseUsers
---------------	------------

Tx Hash	0xcea4ed0927e8769f3187944956532a3a74bdf967b8d1eceb65c4e36193ae2073
---------	--

Status	Success
--------	---------

Gas Price	2.0 Gwei
-----------	----------

Gas Used	1104011
----------	---------

NetworkID	1568195479869
-----------	---------------

Result	0x0116090EfeC8A6c176A094d3094c58811a7eA39c
--------	--

Solc Version	0.5.11+commit.c082d0b4.Emscripten.clang
--------------	---

Contract Verification	Not recorded
-----------------------	--------------

Event Time	11 September, 11:54:53
------------	------------------------

Executor	EtherlimeGanacheDeployer
----------	--------------------------

Name or Label	Post_Factory
---------------	--------------

Tx Hash	0x2805735f8e736be613b478e3d636e72594f3a110d0c3ebc075f23d72fc233c08
---------	--

Status	Success
--------	---------

Gas Price	2.0 Gwei
-----------	----------

Gas Used	4208717
----------	---------

NetworkID	1568195479869
-----------	---------------

Result

0xa6DD34f3CeA10D1F78c0b1F8C13eFbAbE5DF9708

Solc Version

0.5.11+commit.c082d0b4.Emscripten.clang

Contract Verification

Not recorded

Event Time

11 September, 11:54:54

Executor

EtherlimeGanacheDeployer

Name or Label

Feed\_Factory

Tx Hash

0x046ae9e8aef9cfce32c760f822d72fb22471e76d7b9427fe440a4786a222b7cf

Status

Success

Gas Price

2.0 Gwei



Gas Used	4099665
----------	---------

NetworkID	1568195479869
-----------	---------------

Result	0x305b8DDA35b2e9b395E63Ad7B4e845859ab3aB4e
--------	--

Solc Version	0.5.11+commit.c082d0b4.Emscripten.clang
--------------	---

Contract Verification	Not recorded
-----------------------	--------------

Event Time	11 September, 11:54:54
------------	------------------------

Executor	EtherlimeGanacheDeployer
----------	--------------------------

Name or Label	CountdownGriefing_Factory
---------------	---------------------------

Tx Hash	0x6dcbb2e6284544f7a1f9bd8344ffcee68b92b4cb033354fe5da07c231ff9b525
---------	--

Status	Success
Gas Price	2.0 Gwei
Gas Used	6376589
NetworkID	1568195479869
Result	0xEE43f3f33d2972441251887FbB7C64D2fD55677f
Solc Version	0.5.11+commit.c082d0b4.Emscripten.clang
Contract Verification	Not recorded
Event Time	11 September, 11:54:55
Executor	EtherlimeGanacheWrapper
Name or Label	EtherlimeGanacheWrapper

Tx Hash	0x76b534cf1014c67fd685c8465eaf02c29bbf72feb342e3ac29917362ade1cf14
---------	--

Status	Success
--------	---------

Gas Price	2.0 Gwei
-----------	----------

Gas Used	113890
----------	--------

NetworkID	1568195479869
-----------	---------------

Result	Successfully Waited For Transaction
--------	-------------------------------------

Solc Version	Not recorded
--------------	--------------

Contract Verification	Not recorded
-----------------------	--------------

Event Time	11 September, 11:54:55
------------	------------------------

Executor	EtherlimeGanacheWrapper
----------	-------------------------

Name or Label	EtherlimeGanacheWrapper
---------------	-------------------------

Tx Hash	0xa6fa8a054aa18d6ba5b21b363a209907ef3e46e44050a3c21f764a721487c61c
---------	--

Status	Success
--------	---------

Gas Price	10.0 Gwei
-----------	-----------

Gas Used	98890
----------	-------

NetworkID	1568195479869
-----------	---------------

Result	Successfully Waited For Transaction
--------	-------------------------------------

Solc Version	Not recorded
--------------	--------------

Contract Verification	Not recorded
-----------------------	--------------

Event Time	11 September, 11:54:56
Executor	EtherlimeGanacheWrapper
Name or Label	EtherlimeGanacheWrapper
Tx Hash	0xfefcf9f705dec349f2a6d4a1298d71e5ec7742264f166a000018973adaf99bfc
Status	Success
Gas Price	10.0 Gwei
Gas Used	113890
NetworkID	1568195479869
Result	Successfully Waited For Transaction

Solc Version

Not recorded

Contract Verification

Not recorded

Event Time

11 September, 11:54:56

Executor

EtherlimeGanacheWrapper

Name or Label

EtherlimeGanacheWrapper

Tx Hash

0x174b2275617139c9993017d95d1db58c6bd0eff6136383e45656e8f5a56b8a0b

Status

Success

Gas Price

10.0 Gwei

Gas Used

30444

NetworkID	1568195479869
-----------	---------------

Result	Successfully Waited For Transaction
--------	-------------------------------------

Solc Version	Not recorded
--------------	--------------

Contract Verification	Not recorded
-----------------------	--------------

Event Time	11 September, 11:54:56
------------	------------------------

Executor	EtherlimeGanacheWrapper
----------	-------------------------

Name or Label	EtherlimeGanacheWrapper
---------------	-------------------------

Tx Hash	0x0dba0aba8d40a5e3519ff65d7bfd4545b4ddb4b398b5050dc745d6207fbc9d84
---------	--

Status	Success
--------	---------

Gas Price	10.0 Gwei
-----------	-----------

Gas Used	30444
----------	-------

NetworkID	1568195479869
-----------	---------------

Result	Successfully Waited For Transaction
--------	-------------------------------------

Solc Version	Not recorded
--------------	--------------

Contract Verification	Not recorded
-----------------------	--------------

Event Time	11 September, 11:54:56
------------	------------------------

Executor	EtherlimeGanacheWrapper
----------	-------------------------

Name or Label	EtherlimeGanacheWrapper
---------------	-------------------------

Tx Hash	0xee57520d552f6dd2e872dbcf1e5b88a495eb711431c04d7268c7aa10784e0d40
---------	--



Status	Success
--------	---------

Gas Price	10.0 Gwei
-----------	-----------

Gas Used	362923
----------	--------

NetworkID	1568195479869
-----------	---------------

Result	Successfully Waited For Transaction
--------	-------------------------------------

Solc Version	Not recorded
--------------	--------------

Contract Verification	Not recorded
-----------------------	--------------

Event Time	11 September, 11:54:57
------------	------------------------

Executor	EtherlimeGanacheWrapper
----------	-------------------------

Name or Label	EtherlimeGanacheWrapper
---------------	-------------------------

Tx Hash	0x3c813d227e18a25ca66b0eb76329a5c826f374f19be707a35b8d5092ca146fe6
---------	--

Status	Success
--------	---------

Gas Price	10.0 Gwei
-----------	-----------

Gas Used	281724
----------	--------

NetworkID	1568195479869
-----------	---------------

Result	Successfully Waited For Transaction
--------	-------------------------------------

Solc Version	Not recorded
--------------	--------------

Contract Verification	Not recorded
-----------------------	--------------

Done in 12.30s.

# UserXperience

This Topic aims to have a direct contact between devs via git.

# Feedback

## Person a

Ubuntu 18.04 yarn 17.03

Current Workflow worked for me like this.

```
$ yarn install
```

Fine, but got a lot of warnings:

```
[1/4] Resolving packages...
warning etherlime > ethereum-transaction-debugger > truffle-code-utils@1.1.4: WARNING:
This package has been renamed to @truffle/code-utils.
warning etherlime > ethereum-transaction-debugger > truffle-decode-utils@1.0.4:
WARNING: This package has been renamed to @truffle/decode-utils.
warning etherlime > ethereum-transaction-debugger > truffle-solidity-utils@1.2.2:
WARNING: This package has been renamed to @truffle/solidity-utils.
warning etherlime > ethereum-transaction-debugger > truffle-decoder@2.0.1: WARNING:
This package has been renamed to @truffle/decoder.
warning etherlime > ethereum-transaction-debugger > truffle-decoder > truffle-decode-
utils@1.0.17: WARNING: This package has been renamed to @truffle/decode-utils.
warning etherlime > @0x/sol-coverage > @0x/sol-tracing-utils > istanbul@0.4.5: This
module is no longer maintained, try this instead:
  npm i nyc
Visit https://istanbul.js.org/integrations for other alternatives.
warning etherlime > ethereum-transaction-debugger > truffle-decode-utils > web3 >
web3-bzz > swarm-js > fs-promise@2.0.3: Use mz or fs-extra^3.0 with Promise Support
warning etherlime > ethereum-transaction-debugger > truffle-decode-utils > web3 >
web3-bzz > swarm-js > tar.gz@1.0.7:      WARNING      tar.gz module has been
deprecated and your application is vulnerable. Please use tar module instead:
https://npmjs.com/tar
warning etherlime > @0x/sol-coverage > web3-provider-engine > ethereumjs-vm > merkle-
patricia-tree > level-ws > xtend > object-keys@0.4.0:
[2/4] Fetching packages...
info fsevents@2.0.7: The platform "linux" is incompatible with this module.
info "fsevents@2.0.7" is an optional dependency and failed compatibility check.
Excluding it from installation.
info fsevents@1.2.9: The platform "linux" is incompatible with this module.
info "fsevents@1.2.9" is an optional dependency and failed compatibility check.
Excluding it from installation.
[3/4] Linking dependencies...
[4/4] Building fresh packages...
success Saved lockfile.
```

```
$ yarn compile
```

First run hang up, after reboot Done in 54 s.

```
$ yarn flatten
```

throws. After some research i saw that you have to specify a solidity file.

```
$ yarn ganache
```

works and creates a Test-environment.

So now

```
$ yarn test
```

runs and all tests are working.

```
$ yarn coverage
```

worked after changing `./contracts/wrappers/FeedCreator.sol` to `FeedManager.sol` until it throws at different stages. Mostly it throws at `Feed.initialize` ...

```
$ yarn deploy
```

also fails. I don't know where and how to set network and secret.

Solved by: <https://github.com/erasureprotocol/erasure-protocol/issues/193>

#### TIP

First run `export DEPLOYMENT_PRIV_KEY=<priv key from ganache>` and then `yarn deploy ganache`.

## Person b