

# Blockchain-based Asset Management Application #2 - Deployment

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Growth Session #17 - August 23-24 2018

- Building the app with smart contract for adding an asset

### Keyboard

Owner: 0x3e9ca31517c973150b05785a78555f72c12c6390

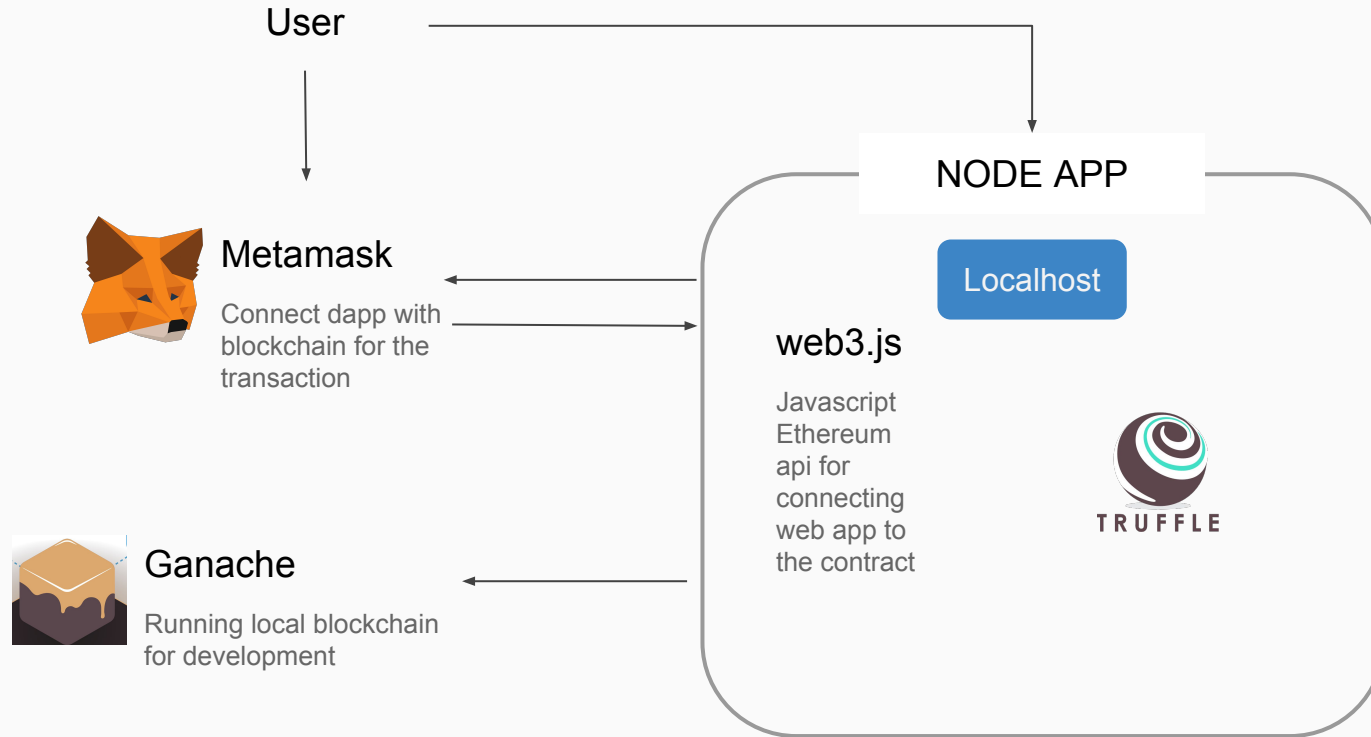
### New Asset

Slug

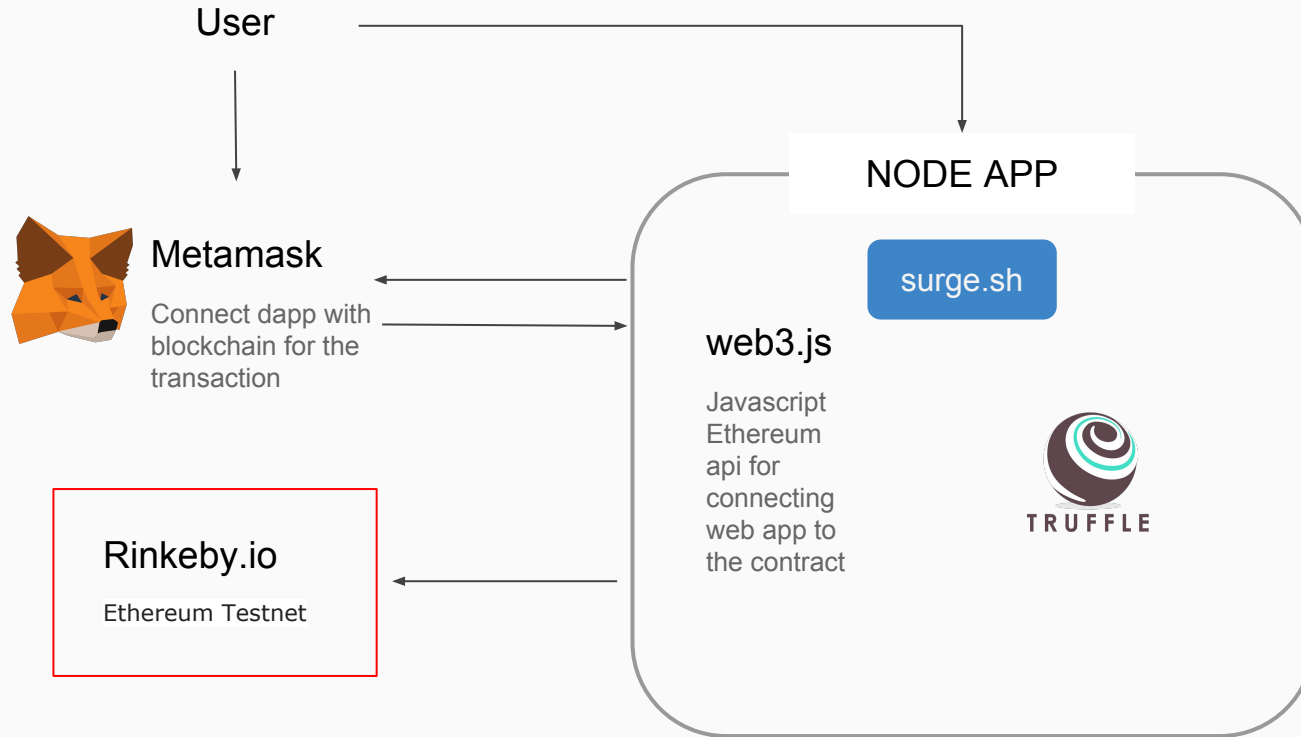
Name

Add

# Intro - Previous session



## Intro - Previous session



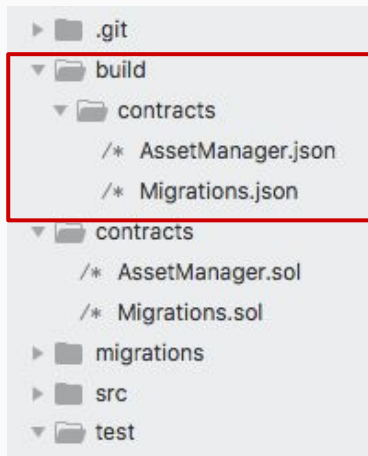
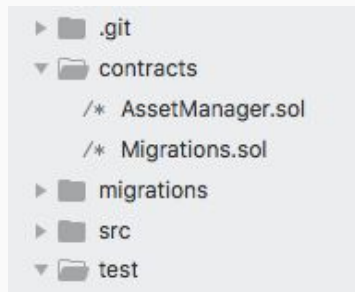
# Compiling and migrating the Contract

 truffle.js

```
module.exports = {  
  networks: {  
    development: {  
      host: "127.0.0.1",  
      port: 7545,  
      network_id: "*"   
    }  
  }  
};
```

## Compiling and migrating the Contract

- truffle compile



```
{
  "contractName": "AssetManager",
  "abi": [
  ],
  "bytecode": "0x608060405234801561001057600080fd5b50610d0180610020600039",
  "deployedBytecode": "0x608060405260043610610078576000357c01000000000000",
  "sourceMap": "26:1608:0:-;;;8:9:-1;5:2;;;30:1;27;20:12;5:2;26:1608:0;",
  "deployedSourceMap": "26:1608:0:-;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;",
  "source": "pragma solidity ^0.4.24;\n\ncontract AssetManager {\n  st",
  "sourcePath": "/Users/rossukhon/Nimbl3GrowthProjects/nimbl3-assets/con",
  "ast": {
  },
  "legacyAST": {
  },
  "compiler": {
  },
  "networks": {},
  "schemaVersion": "2.0.1",
  "updatedAt": "2018-08-24T07:14:39.779Z"
}
```

## Step to deploy the Smart contract with Truffle Framework

- Create an Account on the Network
- Deposit some ETH to that account
- Register an <https://infura.io/> account, get the API for the network.
- Config the INFURA\_API\_KEY and ACCOUNT SEED WORDS to truffle
- Run ``truffle migrate --network network_named_in_truffle_file``

# Compiling and migrating the Contract

Secure | <https://infura.io/dashboard>

DASHBOARD

## YOUR PROJECTS

✓ NIMBL3 GROWTH

API KEY

5404dc72c947410495...

Whitelist

API SECRET ⓘ

24ec8d57bac44c0d98...

ENDPOINT

mainnet.infura.io

✓ MAINNET

ROPSTEN

KOVAN

RINKEBY

```
var HDWalletProvider = require('truffle-hdwallet-provider');
var mnemonic = 'YOUR_ACCOUNT_SEED_WORDS';
var infuraKey = 'YOUR_INFURA_API_KEY';

module.exports = {
  networks: {
    development: {
      host: "127.0.0.1",
      port: 8545,
      network_id: "*"
    },
    rinkeby: {
      provider: function() {
        return new HDWalletProvider(mnemonic, 'https://rinkeby.infura.io/v3/' + infuraKey);
      },
      gas: 1000000,
      network_id: 4
    }
  }
};
```



## Compiling and migrating the Contract

```
→ nimbl3-assets git:(chore/deploy-the-contract) x truffle migrate --network rinkeby
Using network 'rinkeby'.
```

```
Running migration: 1_initial_migration.js
```

```
  Deploying Migrations...
```

```
... 0xa356f88c5a6e4caf325a45315c53c22c0e72ae7abbbe991660ef7f37bfc389a9
```

```
  Migrations: 0x1b0d2fc1f487d128a97a2fd9547729b028d8fb75
```

```
Saving successful migration to network...
```

```
... 0xa8cfcb78c4e536a5ac4ab3ac40f00174028e5319e7b5a53cb0a4466e3eadbff4
```

```
Saving artifacts...
```

```
Running migration: 2_deploy_contract.js
```

```
  Deploying AssetManager...
```

```
... 0xe1ef3f17a49dc1e1d01ac3770aa3b1c6ee36ebc4199206d84ad6e83eff36e5b3
```

```
  AssetManager: 0xd5a284a8b6556d3c71874f4fb38355c9a51c6627
```

```
Saving artifacts...
```

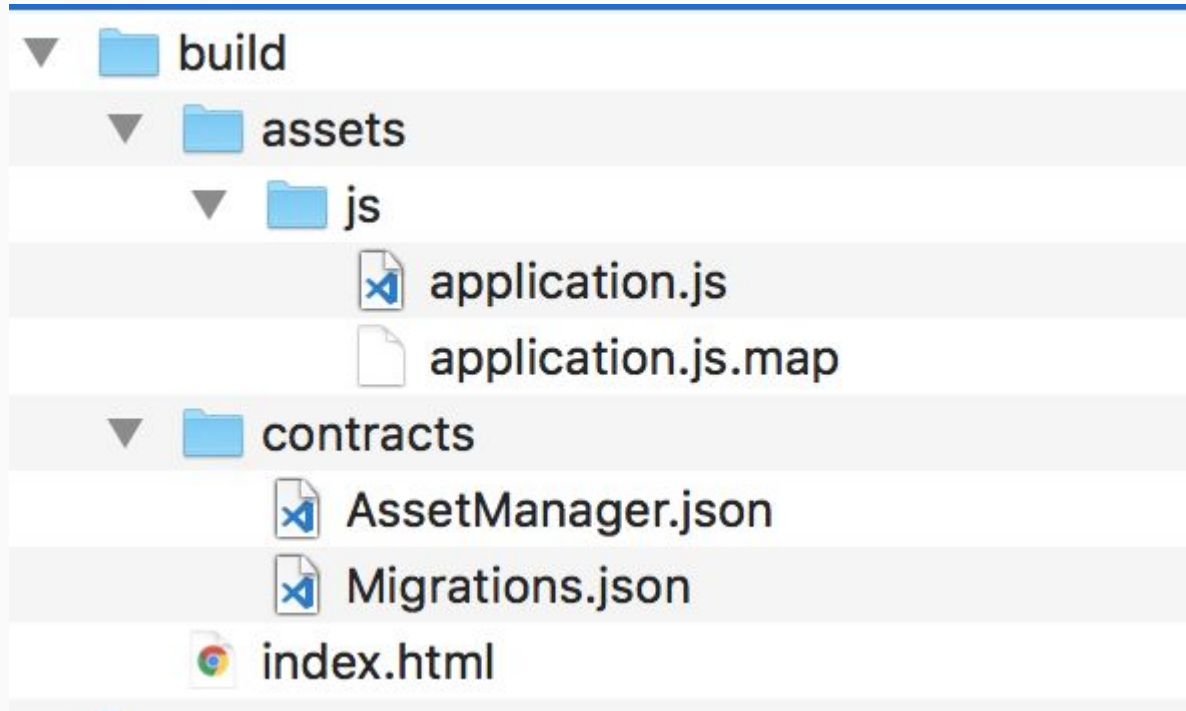
# Compiling and migrating the Contract

- `truffle migrate --network rinkeby`

```
{
  "compiler": {
    "name": "solc",
    "version": "0.4.24+commit.e67f0147.Emscripten.clang"
  },
  "networks": {
    "4": {
      "events": {},
      "links": {},
      "address": "0x924cc88e5b20d80ab23650d4de4983966f21c40e",
      "transactionHash": "0x4c4fef61483a10f052b2d14f6f332519e45cbb87e7ba34fb345ca2129892ad68"
    },
    "5777": {
      "events": {},
      "links": {},
      "address": "0xed74db6add551864b6b729d8670fdb38406aa7e",
      "transactionHash": "0x9d13f322a6c0869d9505fe36f6ae7003c64b99efe219a117ebc7cac2514f17af"
    }
  },
  "schemaVersion": "2.0.1",
  "updatedAt": "2018-08-24T07:43:13.593Z"
}
```

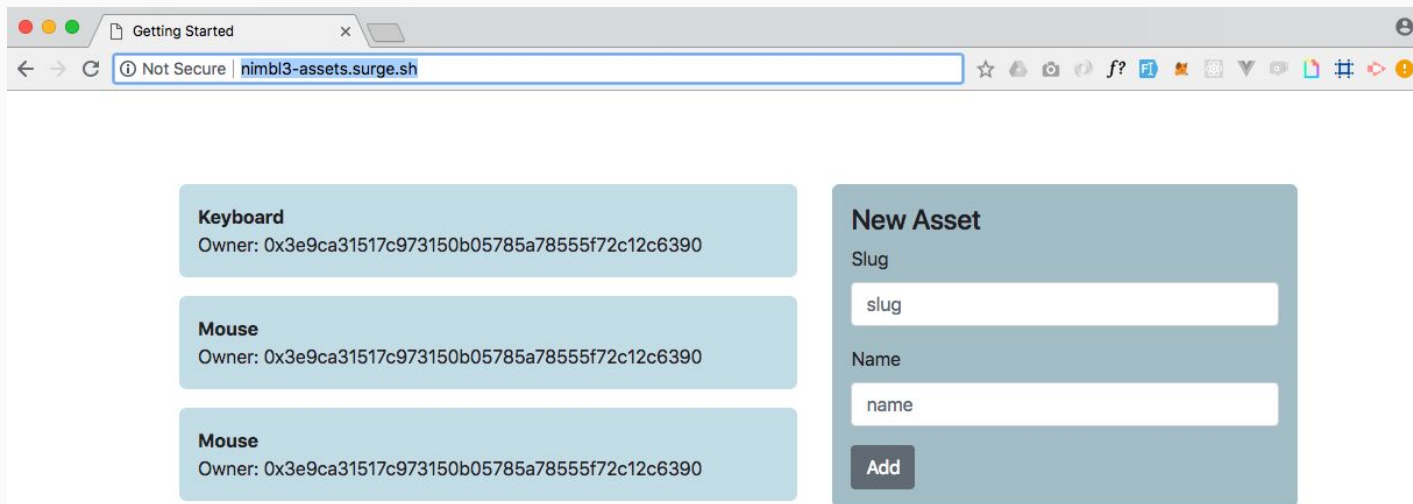
## Deploy Dapp - Surge

```
"build:prod": "./node_modules/.bin/webpack -p --mode production",
```



# Deploy Dapp - Surge

- `surge ./build nimble-assets.surge.sh`



We don't lose data  
with ``deploy --reset``

The build file can run  
everywhere

The contract and the app are  
deployed separately

# Thanks!

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