
athena-ide-atom

2020 07 14

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athena ide atom wiki . aergo smart contract IDE (Integrated Development Environment) , , . , , .

CHAPTER 1

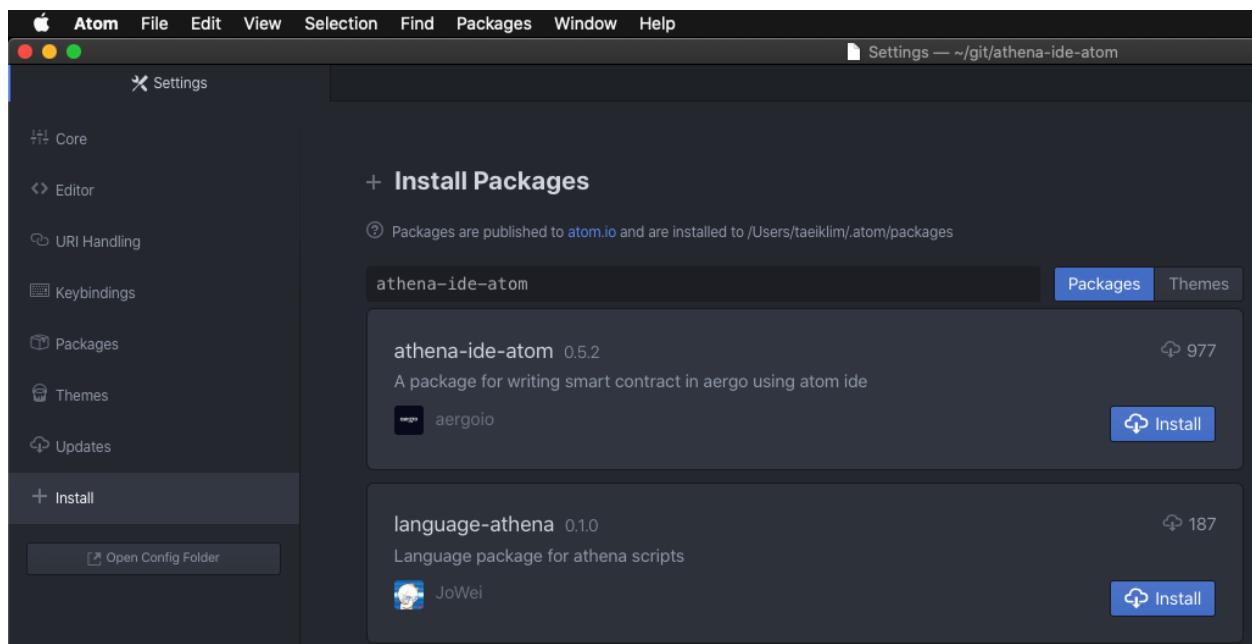
1.1

Athena ide atom atom .

1.1.1 Apm

Athena ide atom apm (atom package manager) .

Atom -> Preferences -> Install



cli . cli git bash .

athena-ide-atom

```
> apm install athena-ide-atom
```

1.1.2

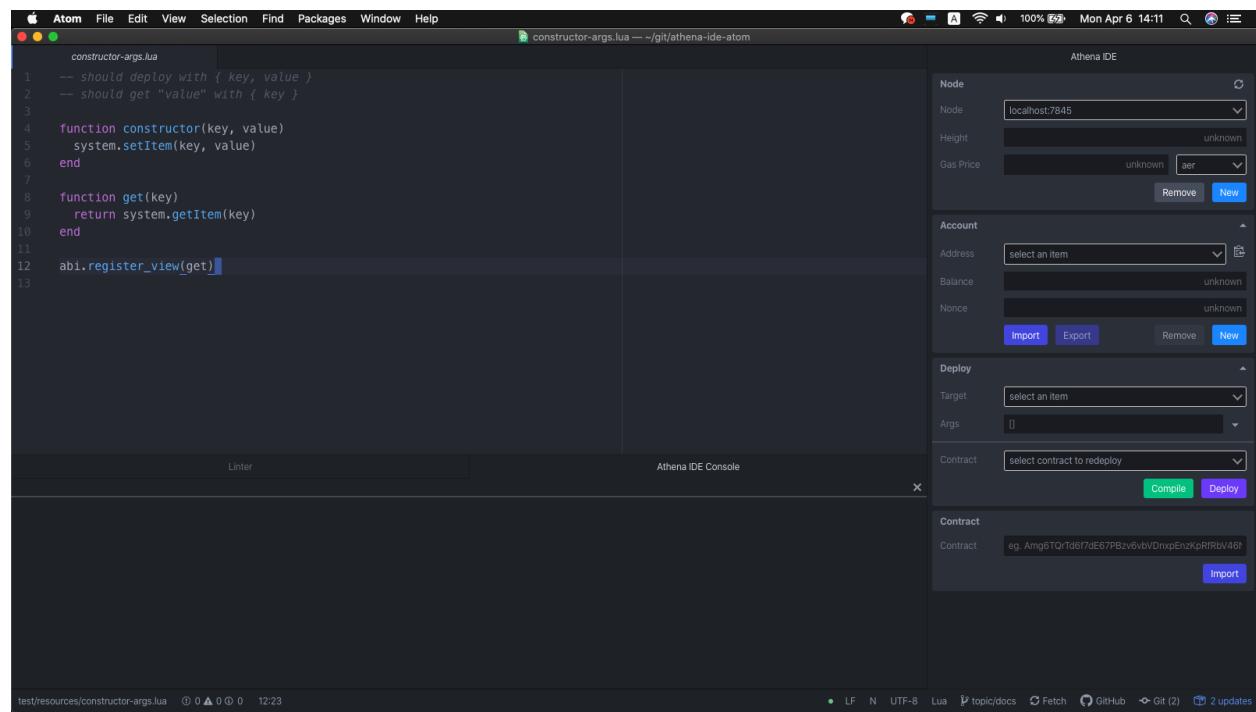
Network apm . releases athena-ide-atom-x.x.x-installer.bin cli . cli git bash .

```
> ./athena-ide-atom-x.x.x-installer.bin
```

1.2

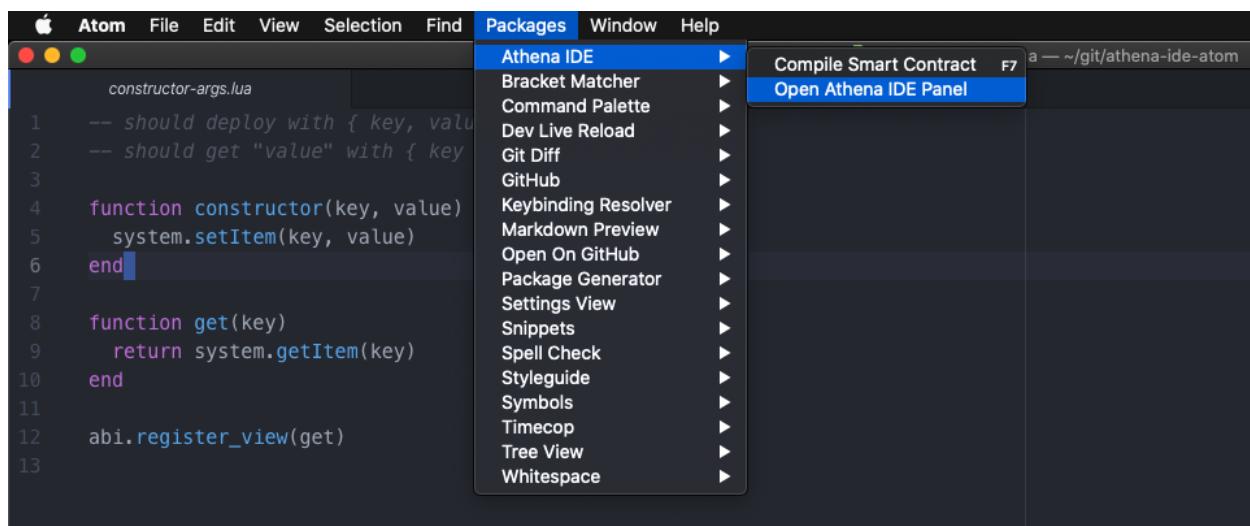
1.2.1

- Mac : Option + Shift + L
- Windows : Alt + Shift + L



1.2.2 Menu bar

Packages -> Athena IDE -> Open Athena IDE Panel



1.3

Athena ide atom lua .

```
3
4     function constructor(key, value)
5         system.setItem(key, value)
6     end
7
8     function get(key)
9         system.|
```

re: m getSender() function
end m getBlockheight() function
abi. m getTxhash() function
m getTimestamp() function
m getContractID() function
m setItem(key, value) function
m getItem(key) function
m getAmount() function
m getCreator() function
m getOrigin() function

1.4

Athena ide atom lua .

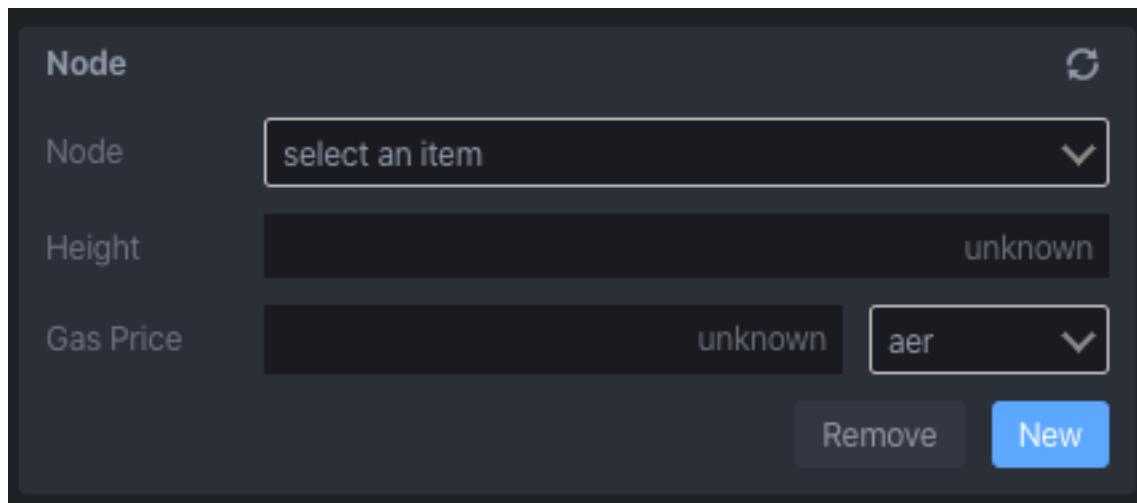
```
3
4     function constructor(key, value)
5         system.setItem(key, value)
6     end
7
8     function get(key)
9         system.
10    • return system.getItem(key)
11 end [10:2] <name> expected near 'return'
12
13 abi.register_view(get)
14
```


CHAPTER 2

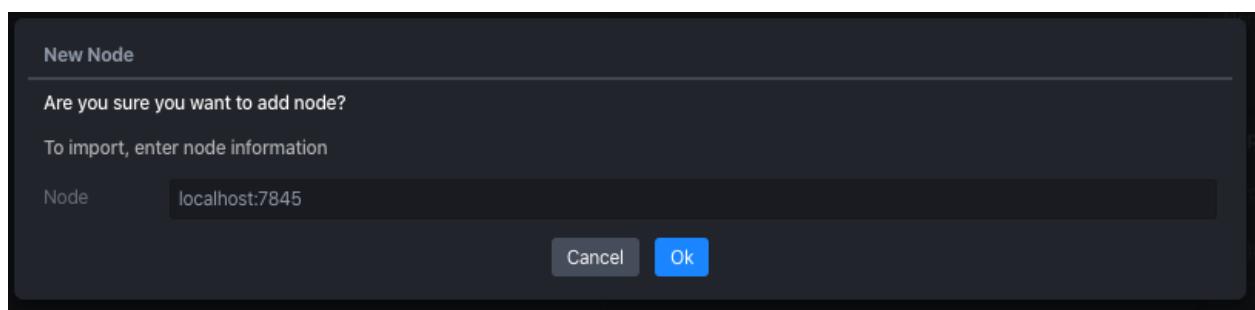
. gas price . localhost:7845.

2.1

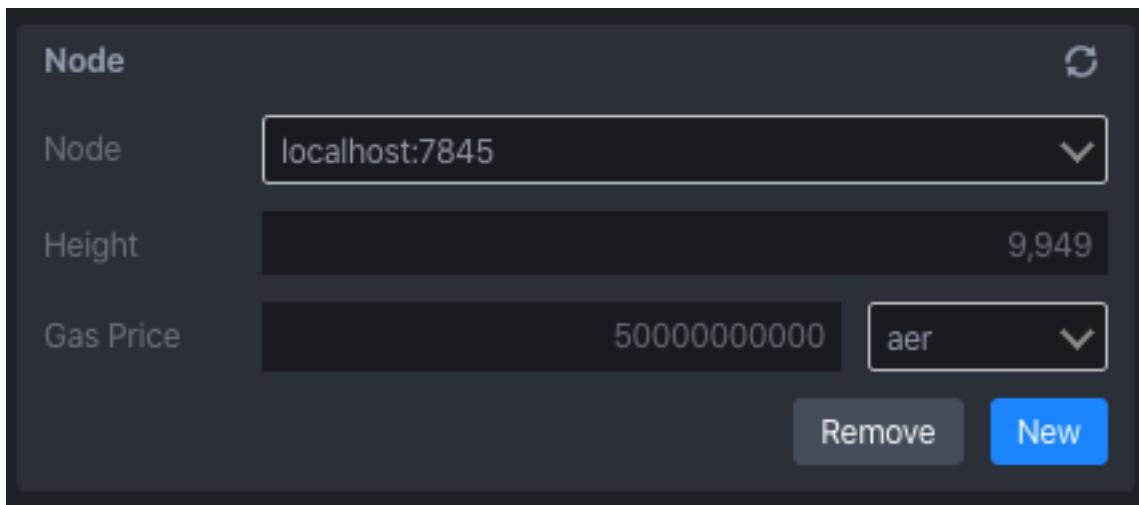
New



Endpoint ok

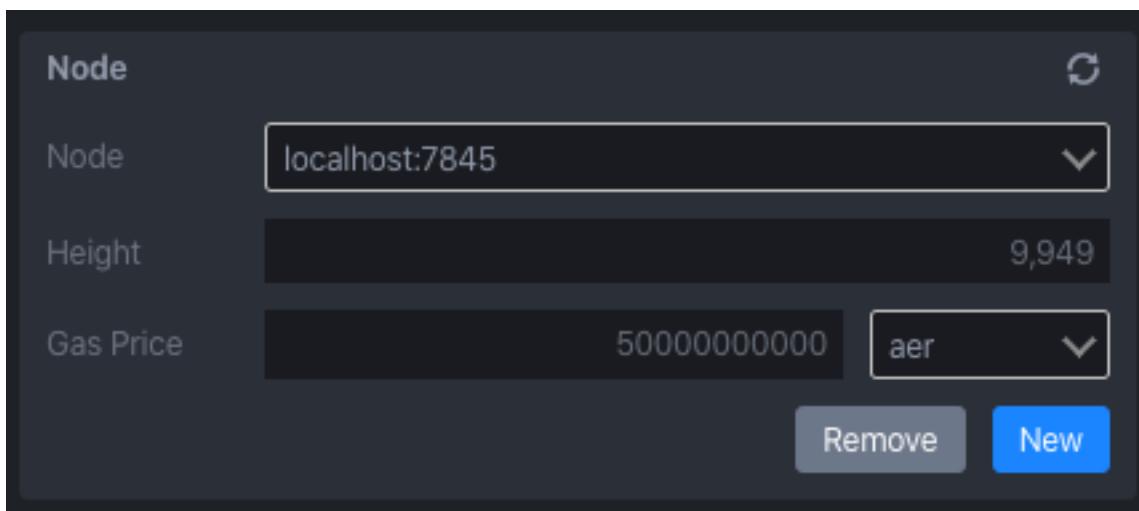


gas price

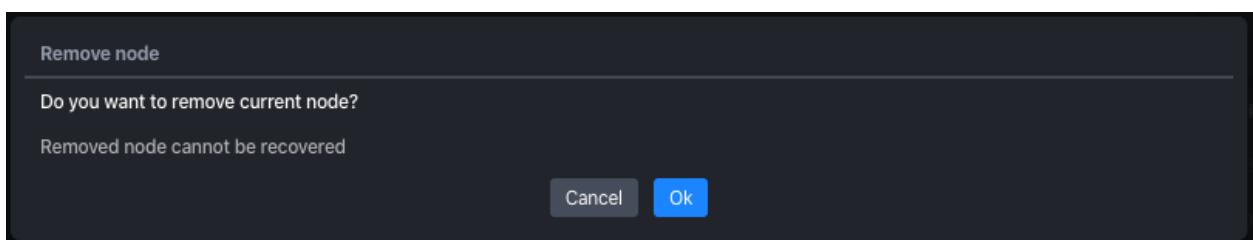


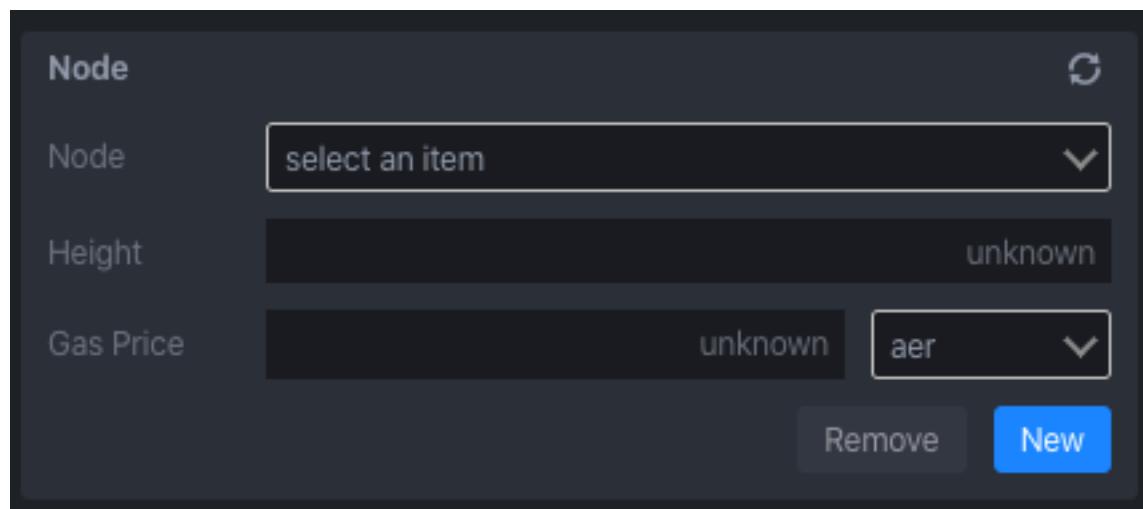
2.2

Remove



Ok



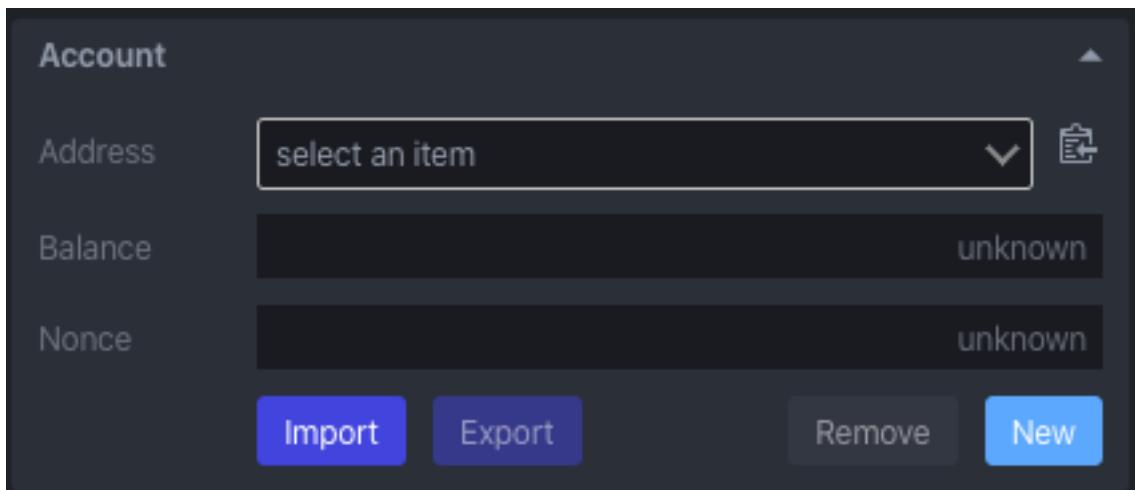


CHAPTER 3

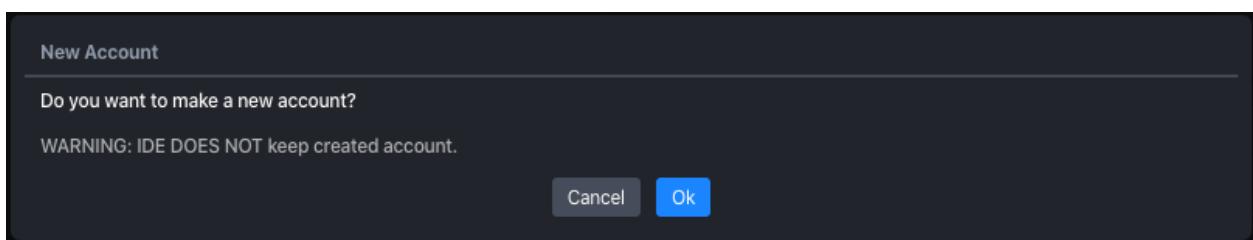
,, . transaction aergo .

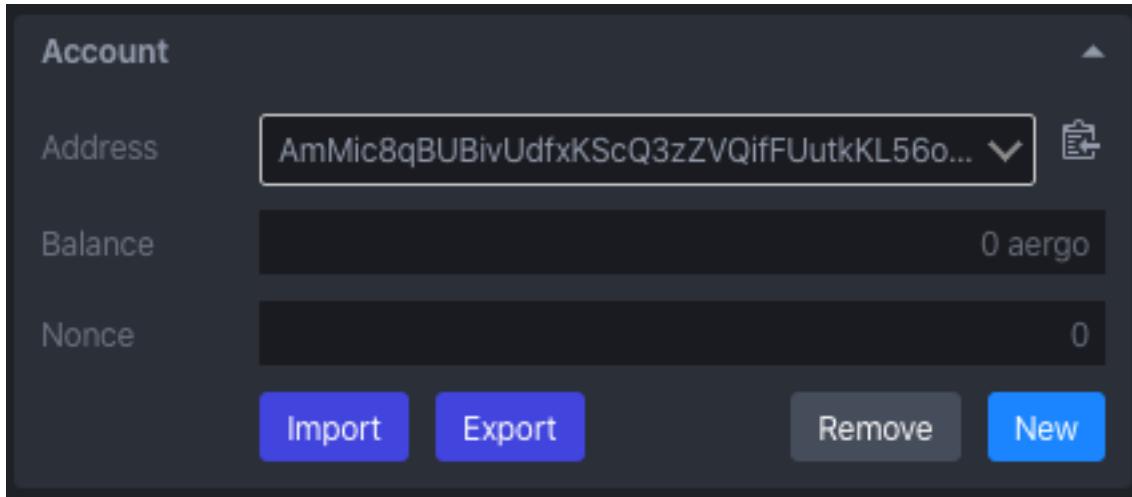
3.1

New



Ok



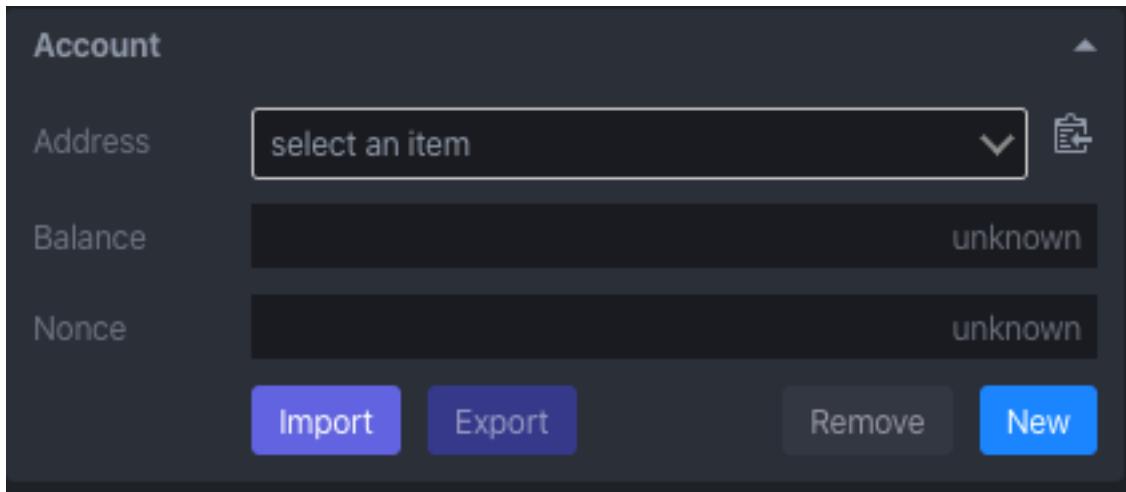


3.2

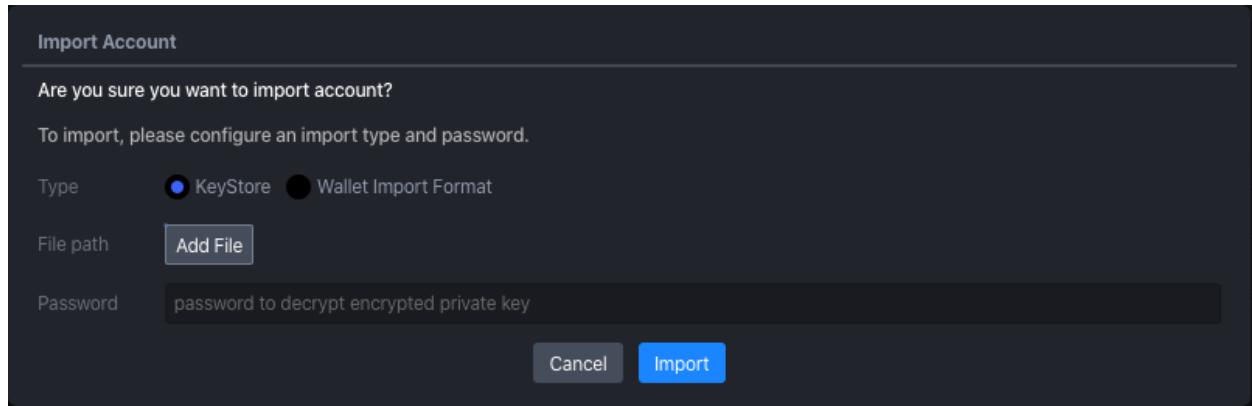
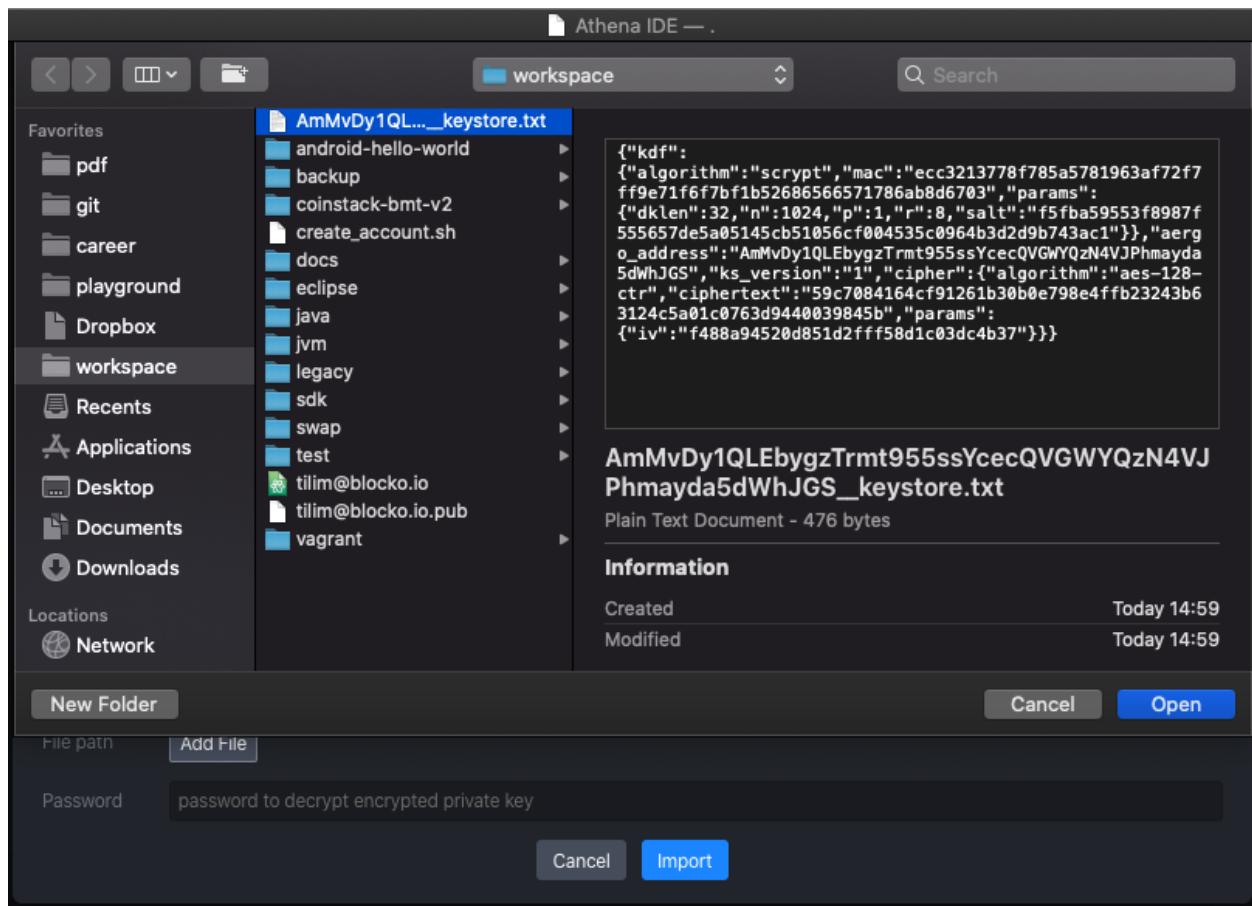
Aergo keystore format wallet import format . Aergo keystore . aergo keystore proposal.

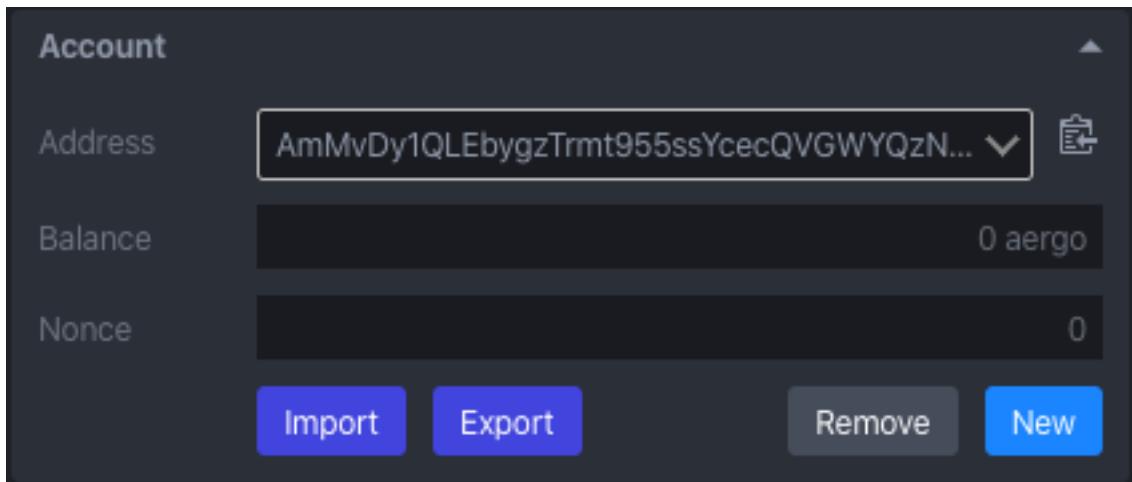
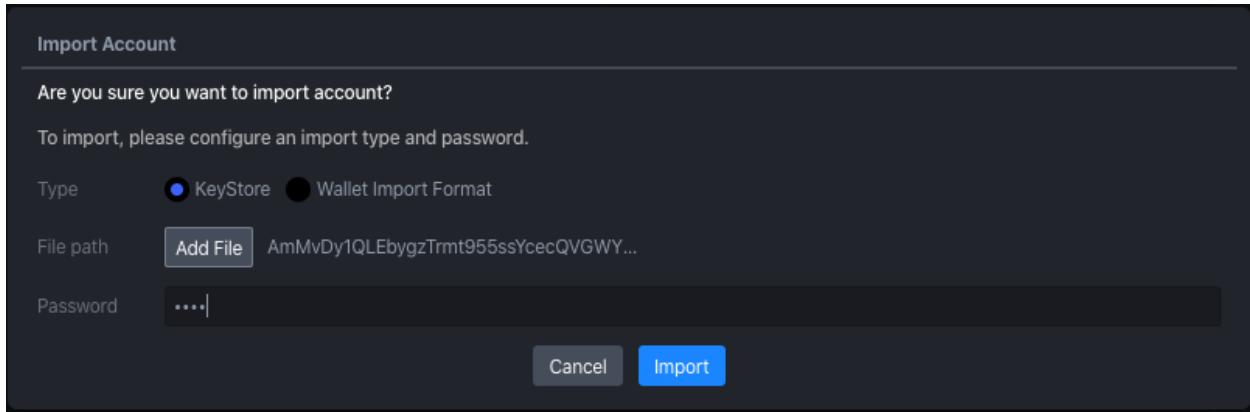
3.2.1 KeyStore

Import



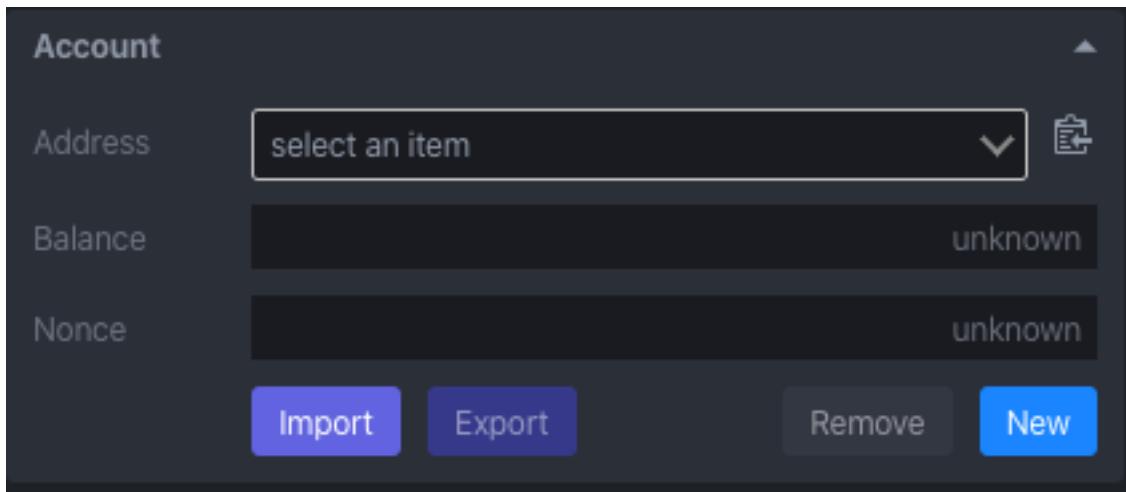
Add file

**Keystore****Keystore**



3.2.2 Wallet Import Format

Import



Wallet import format

The screenshot shows two panels of the Aergo IDE wallet interface.

Import Account Panel:

- Header: Import Account
- Text: Are you sure you want to import account?
- Text: To import, please configure an import type and password.
- Type: KeyStore (radio button selected)
- Type: Wallet Import Format (radio button unselected)
- Private key: 47zupUDdzgdY4YwqT5T5WUrhvVDuuChzzjutD43GrkbymaeT2wERA8Paniymz2iaztT24BPHa
- Password:
- Buttons: Cancel, Import

Account Panel:

- Header: Account
- Address: AmMvDy1QLEbygzTrmt955ssYcecQVGWYQzN... (with a dropdown arrow and edit icon)
- Balance: 0 aergo
- Nonce: 0
- Buttons: Import, Export, Remove, New

3.3

Aergo keystore format wallet import format . Aergo keystore aergo keystore proposal.

3.3.1 KeyStore

Export

Account

Address: AmMvDy1QLEbygzTrmt955ssYcecQVGWYQzN...

Balance: 0 aergo

Nonce: 0

Export Account

Are you sure you want to export account?

To export, please configure an import type and password.

Type: KeyStore Wallet Import Format

Password:

Athena IDE — .

Save As: AmMvDy1QLEbygzTrmt955ssYcecQVGW

Tags:

workspace

Favorites:

- pdf
- git
- career
- playground
- Dropbox
- workspace
- Applications
- Desktop
- Documents

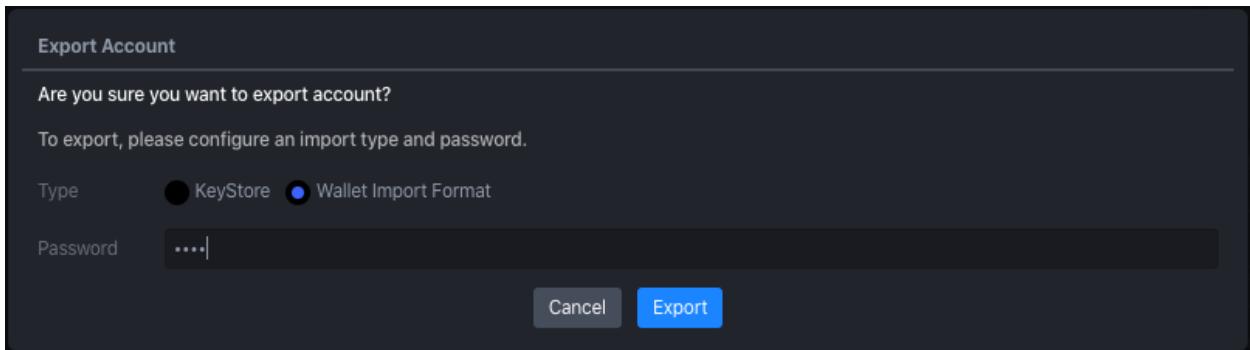
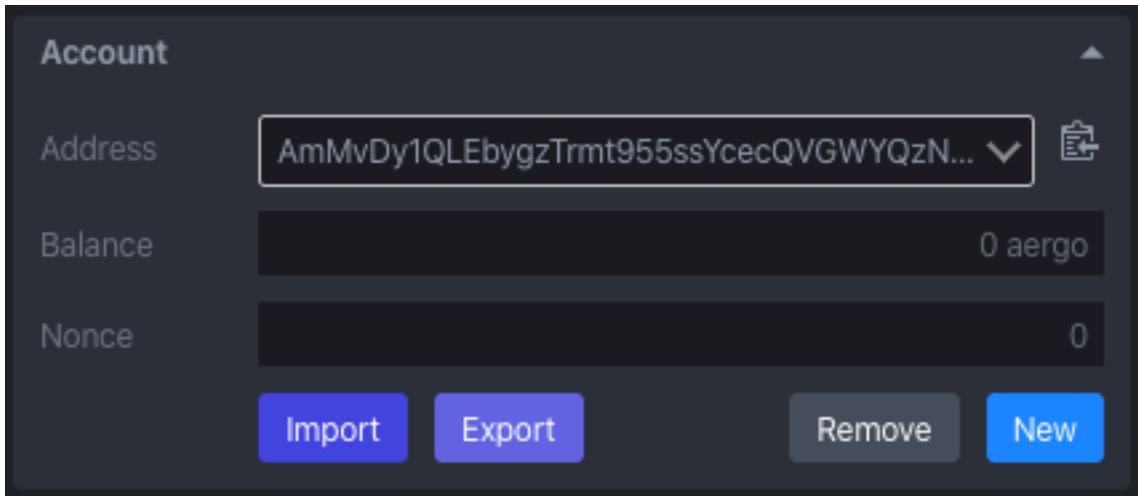
Format: Keystores

New Folder

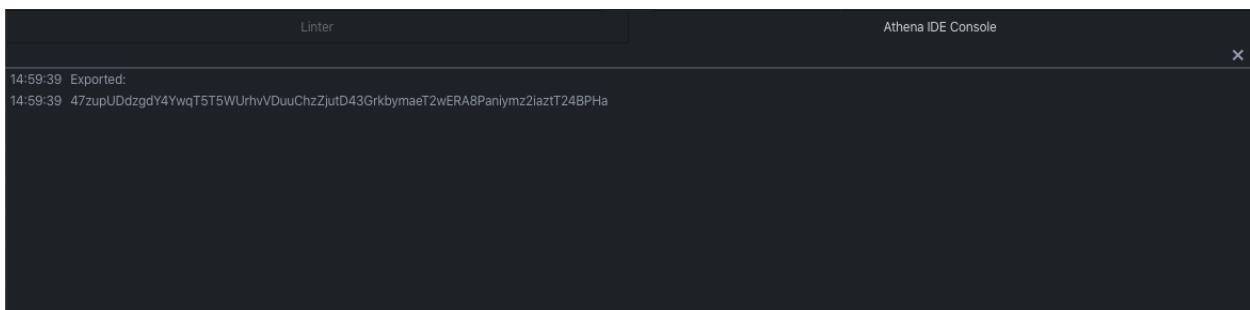
Password:

3.3.2 Wallet Import Format

Export

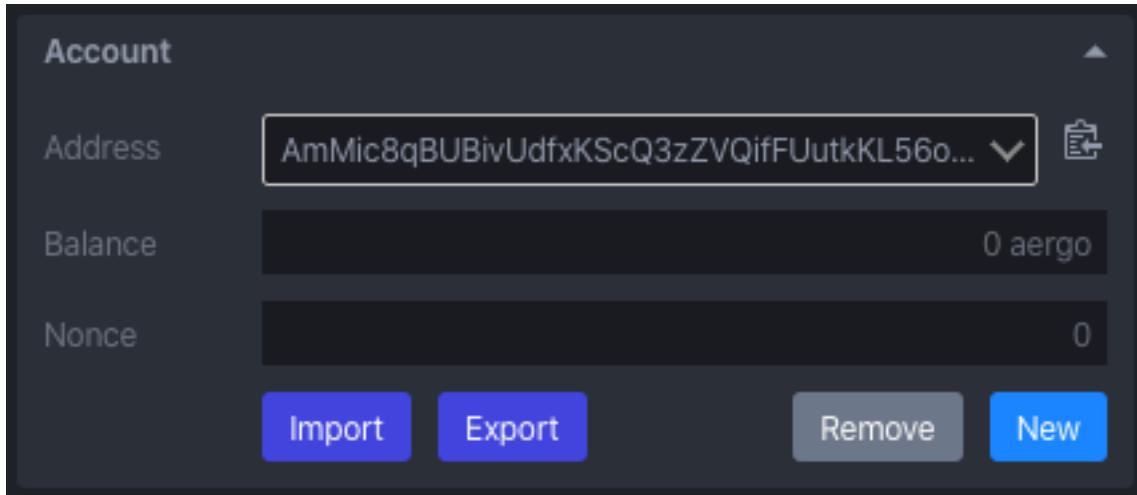


Wallet import format console

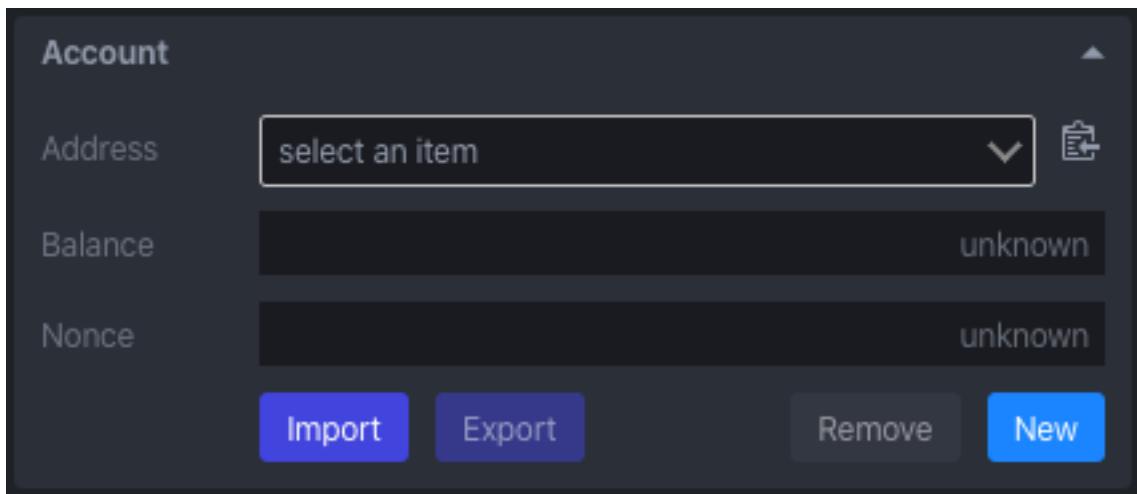
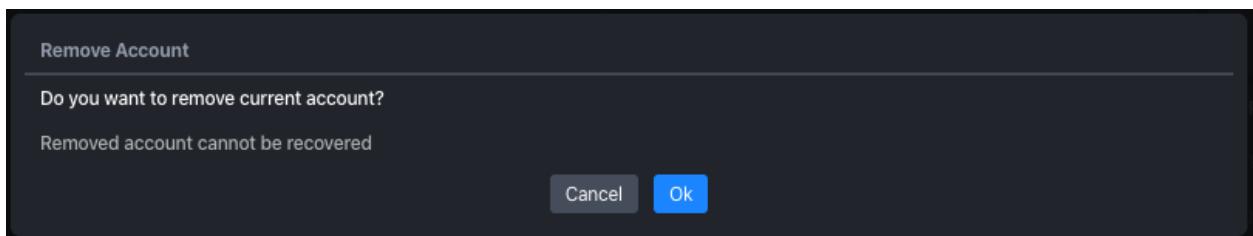


3.4

Remove



Ok

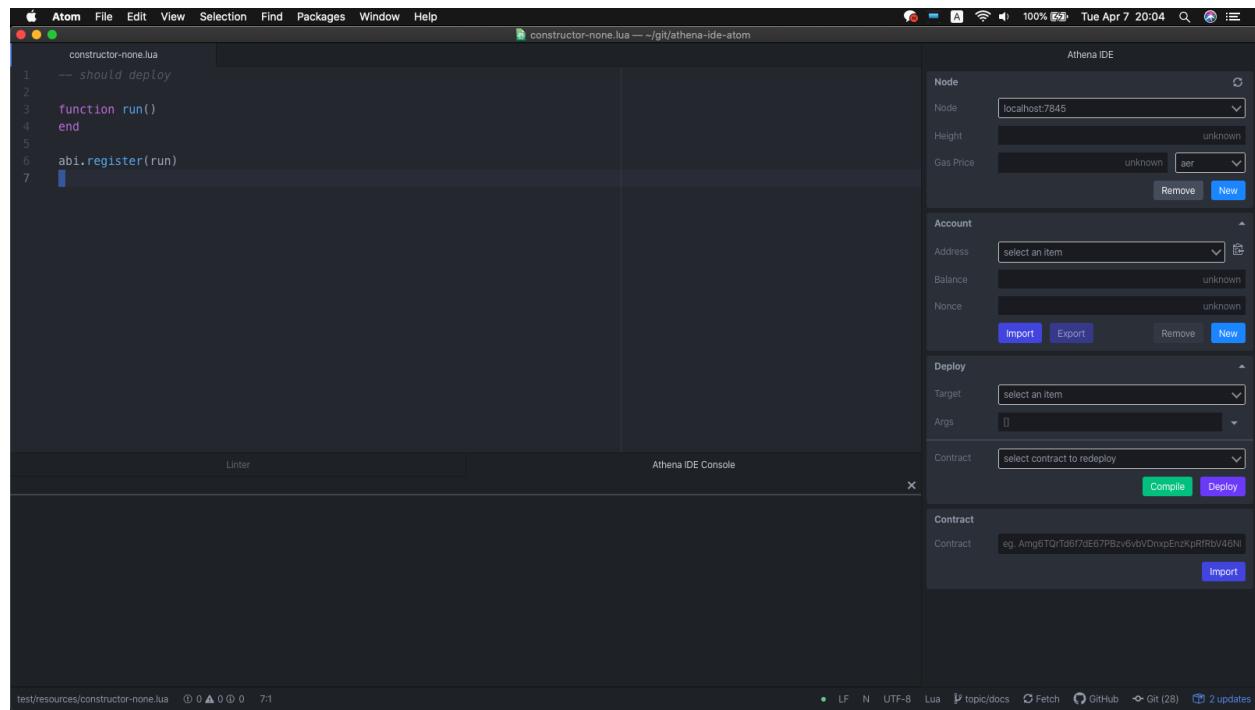


CHAPTER 4

```
// .      aergo .
```

4.1

. Compile F7 .



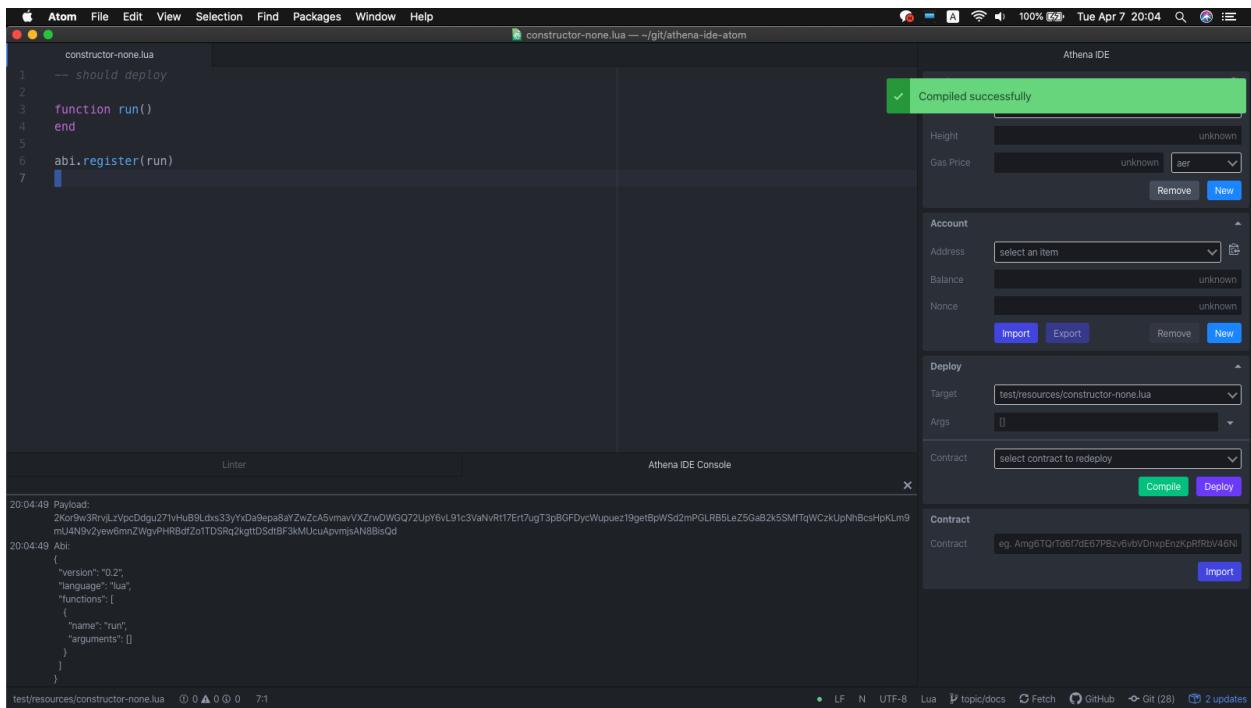
The screenshot shows the Athena IDE interface. On the left is a code editor window titled "constructor-none.lua" containing the following Lua code:

```
-- should deploy
function run()
end
abi.register(run)
```

To the right of the code editor is a sidebar titled "Athena IDE". It contains several sections:

- Node:** A dropdown menu set to "localhost:7845".
- Height:** Set to "unknown".
- Gas Price:** Set to "aer".
- Account:** A section with fields for "Address" (set to "select an item"), "Balance" (set to "unknown"), and "Nonce" (set to "unknown"). Buttons for "Import" and "Export" are available.
- Deploy:** A section with fields for "Target" (set to "select an item") and "Args" (set to "[]"). A "Contract" dropdown menu is set to "select contract to redeploy". Buttons for "Compile" and "Deploy" are present.
- Contract:** A section with a text input field containing "eg. Amg5TQ/Td6f7dE67PBzv6vbVDnxpEnzKpRbV46Nj" and a "Import" button.

At the bottom of the interface, there is a status bar with various icons and text, including "test/resources/constructor-none.lua", "LF", "N", "UTF-8", "Lua", "topic/docs", "Fetch", "GitHub", "Git (28)", and "2 updates".

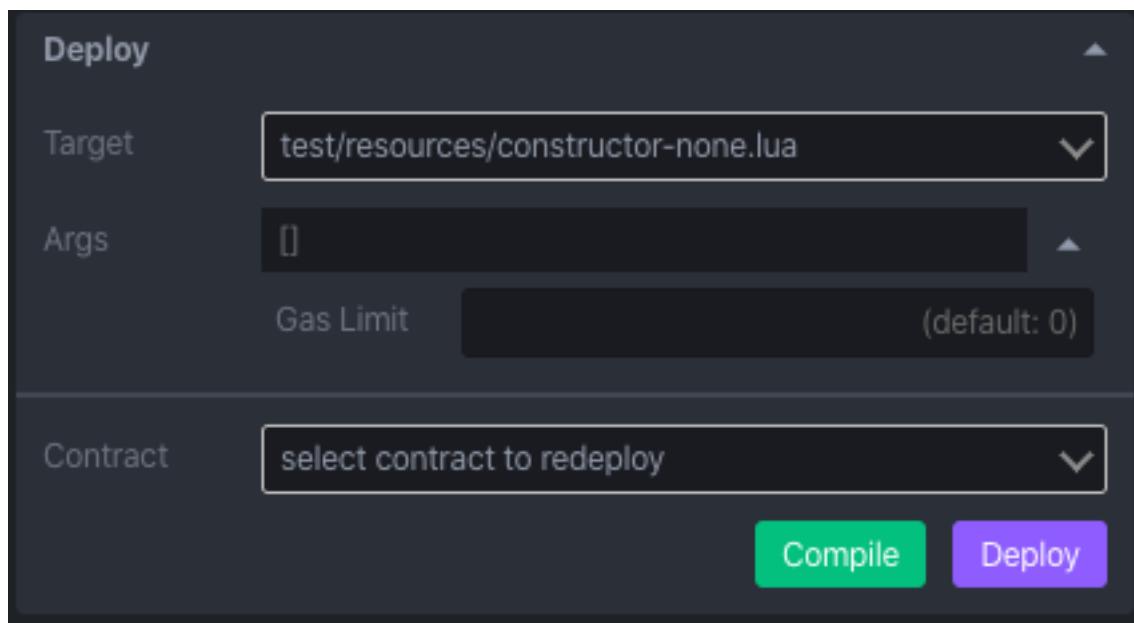


4.2

4.2.1

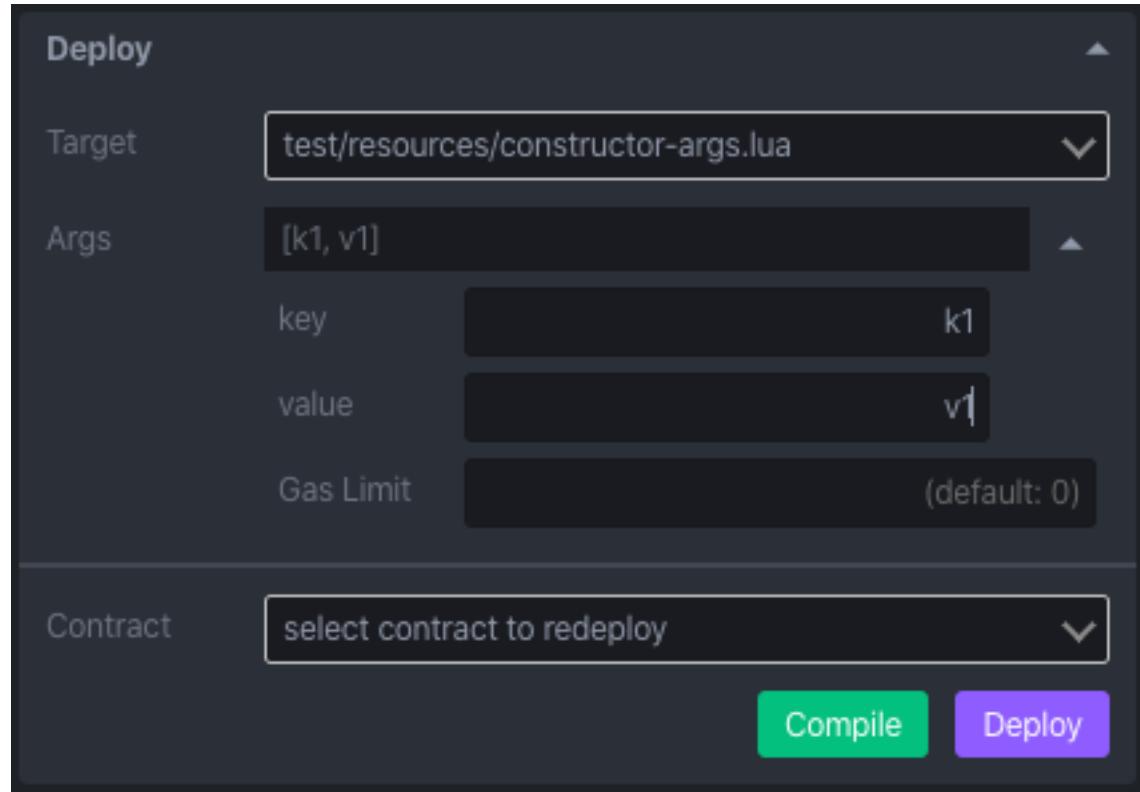
```
-- no arguments
function constructor()
  system.setItem("k1", "v1")
end

...
```



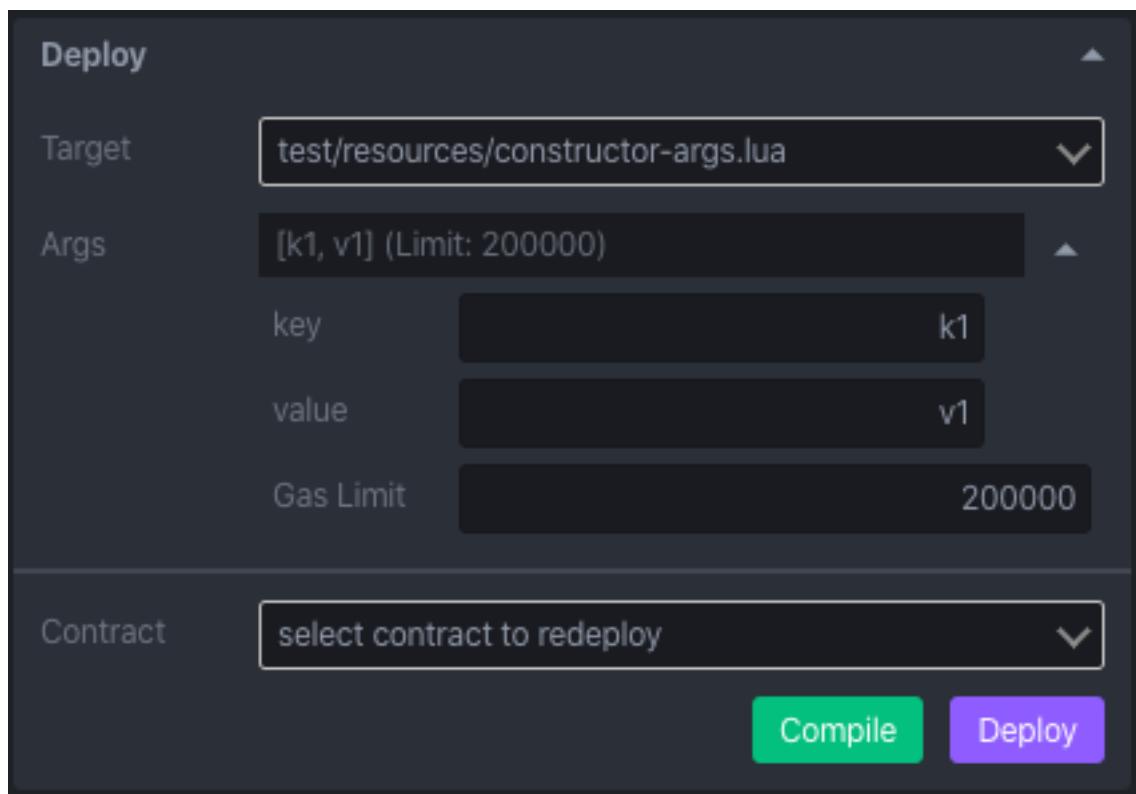
4.2.2

```
-- arguments (key, value)
function constructor(key, value)
    system.setItem(key, value)
end
...
```



4.2.3 Gas limit

Gas limit . 0 .

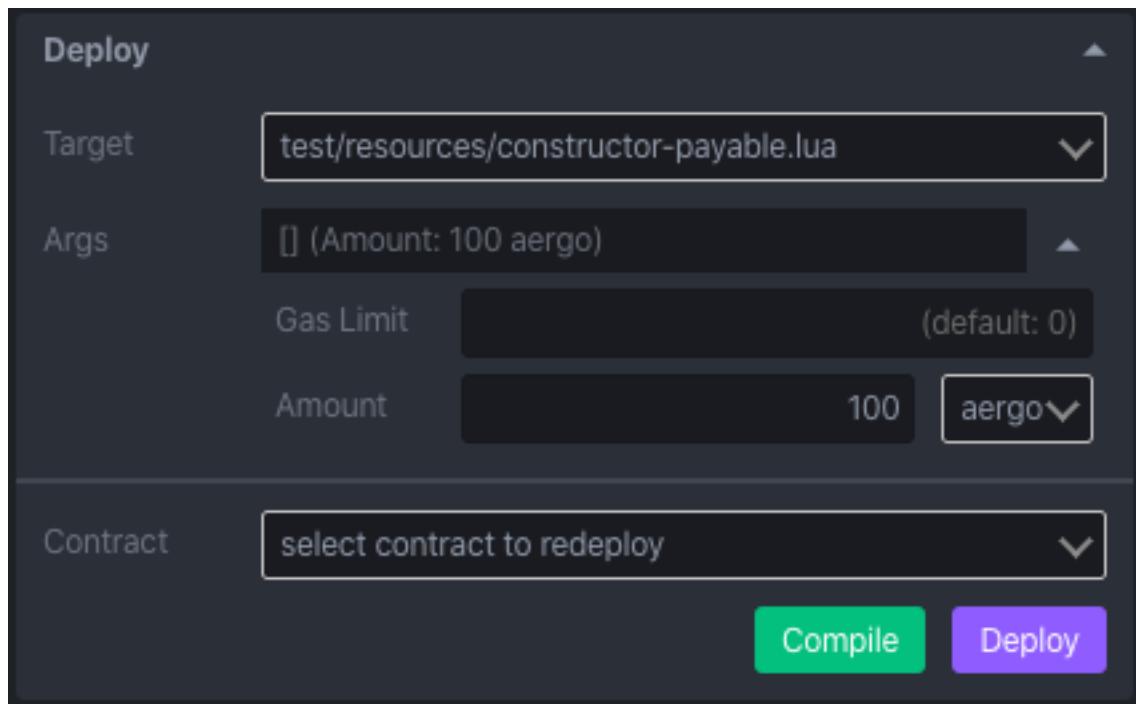


4.2.4 Token

aergo token . constructor payable .

```
function constructor()
    system.setItem("k1", "v1")
end

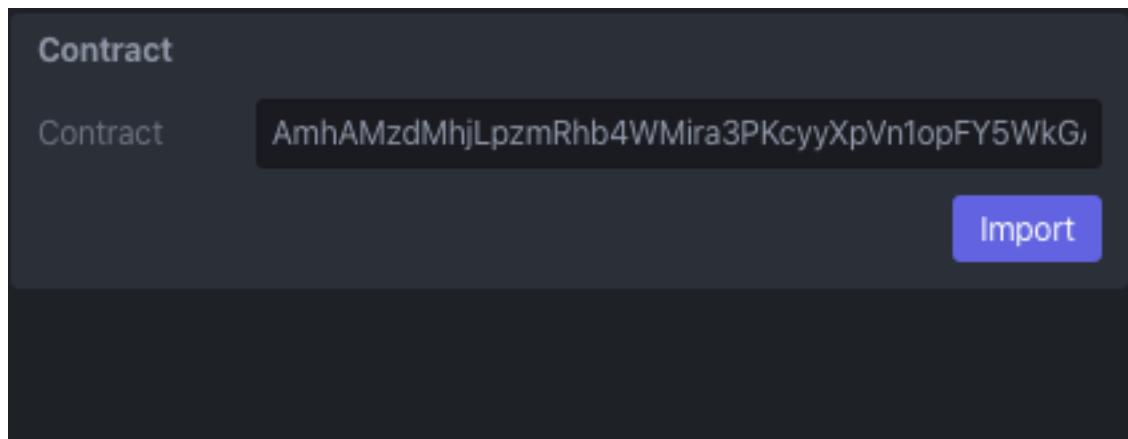
...
-- registered as payable
abi.payable(constructor)
```

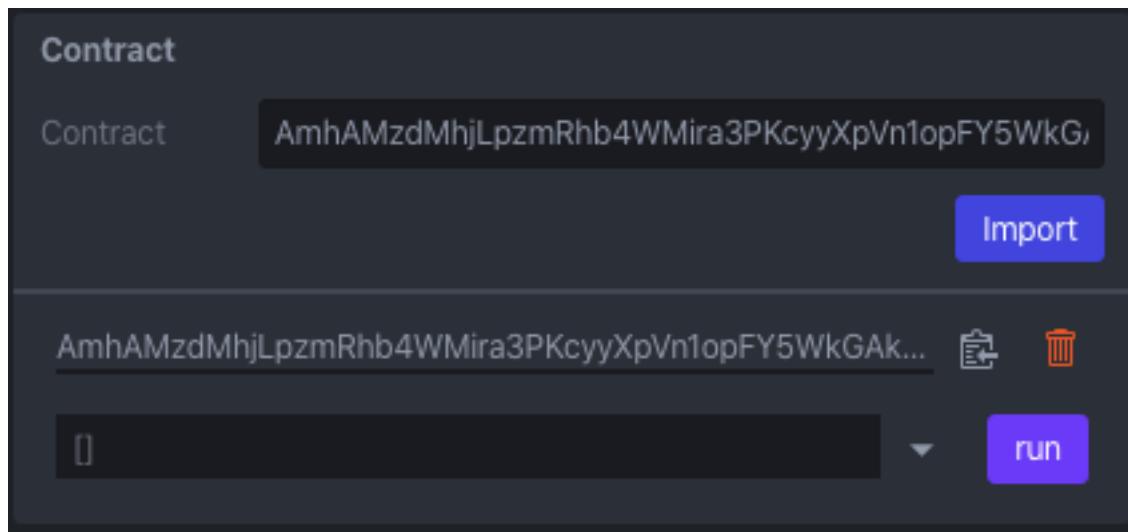


4.3 &

4.3.1

Contract Import

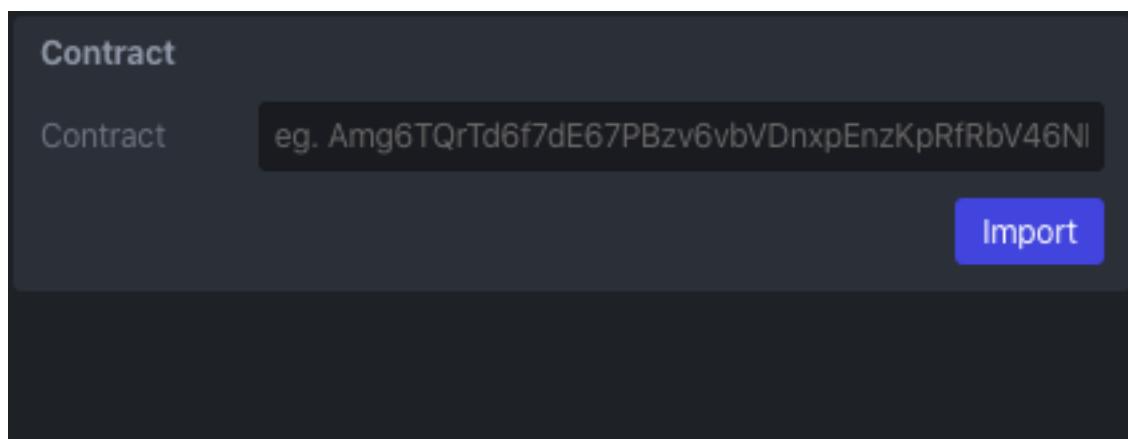
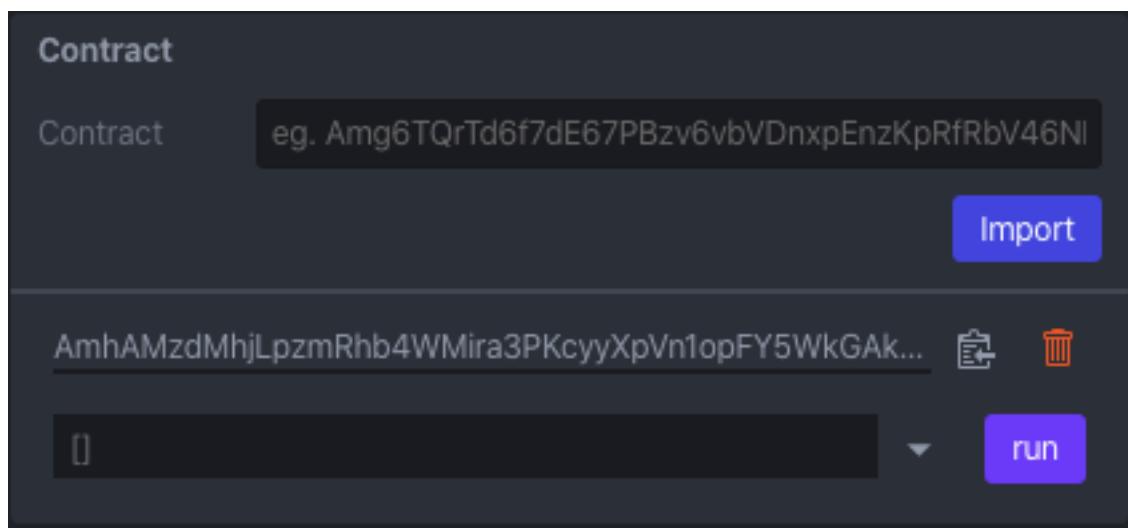




4.3.2

Contract IDE .

Trash

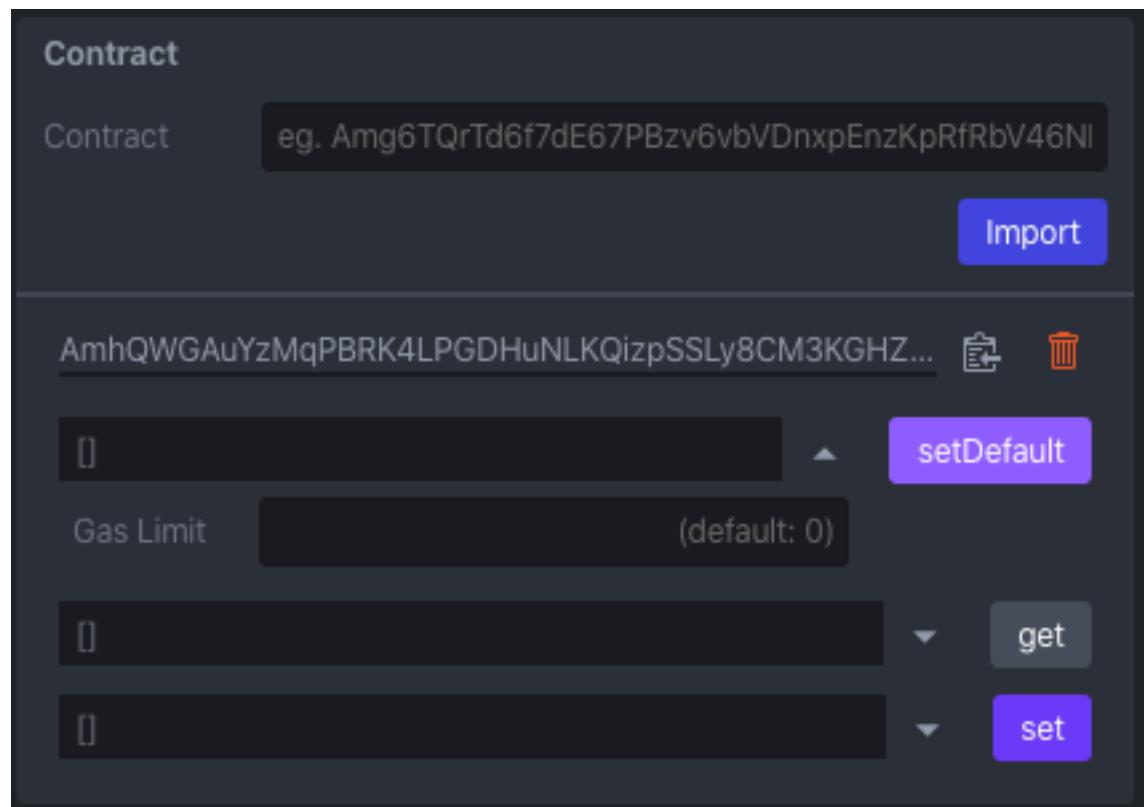


4.4

```
state db . register .
```

4.4.1

```
...  
  
-- no arguments  
function setDefault()  
    system.setItem("k1", "v1")  
end  
  
...  
  
-- register as execution  
abi.register(setDefault)
```

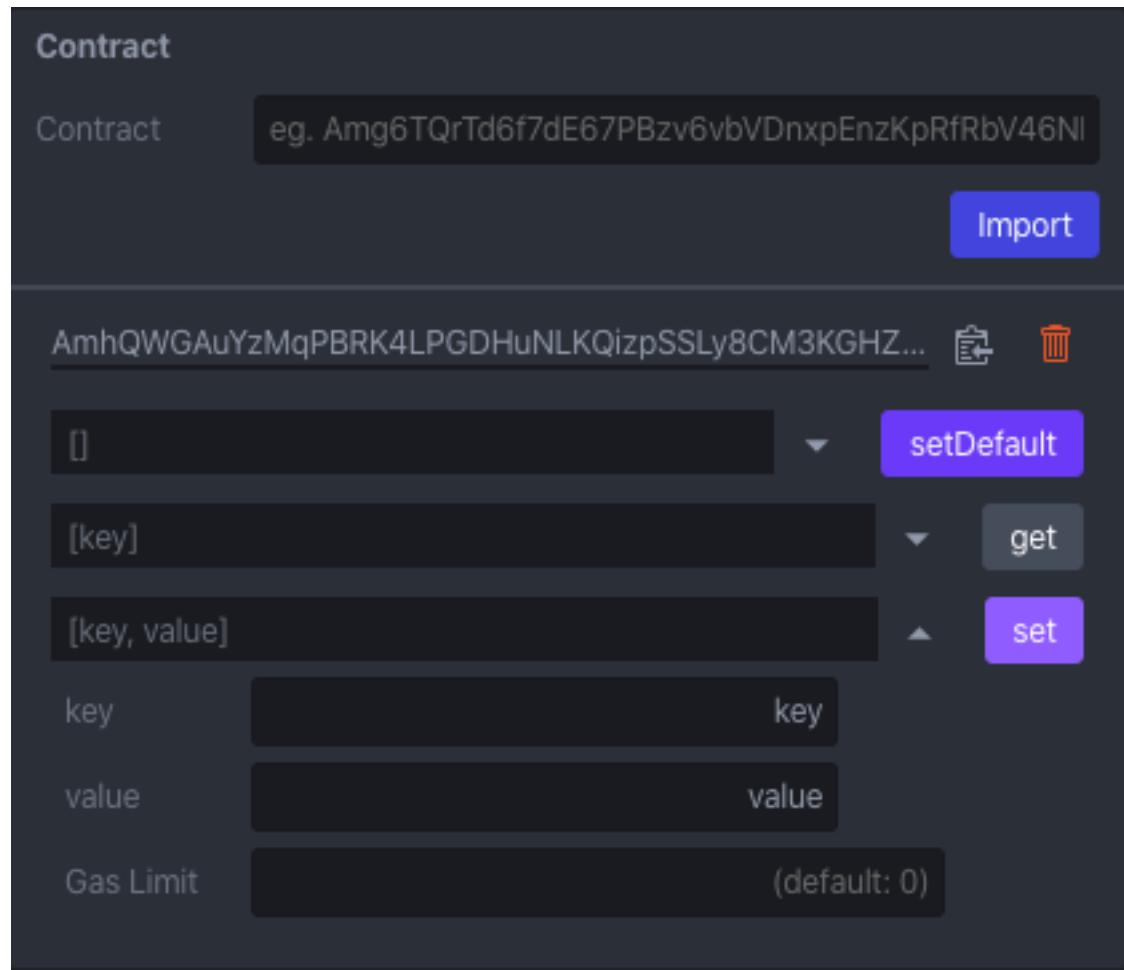


4.4.2

```
...  
  
-- arguments (key, value)  
function set(key, value)  
    system.setItem(key, value)
```

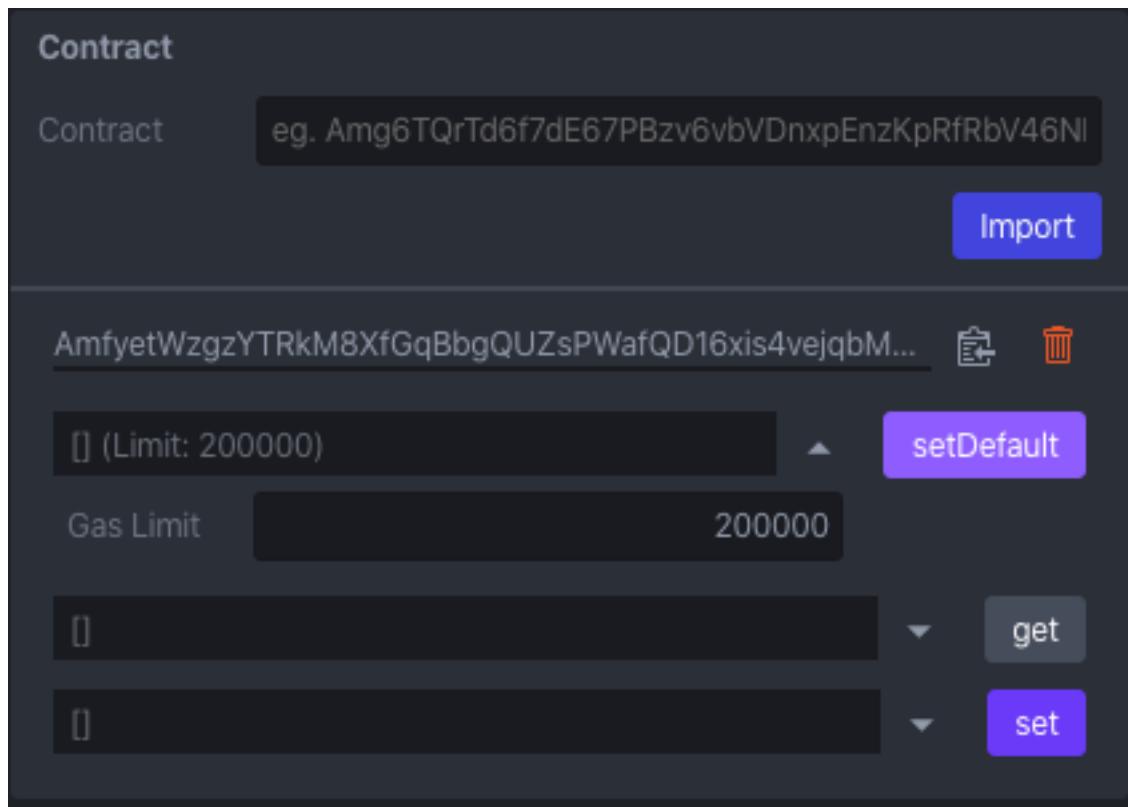
(continues on next page)

```
( )  
end  
...  
-- register as execution  
abi.register(set)
```



4.4.3 Gas limit

Gas limit . . 0 . .

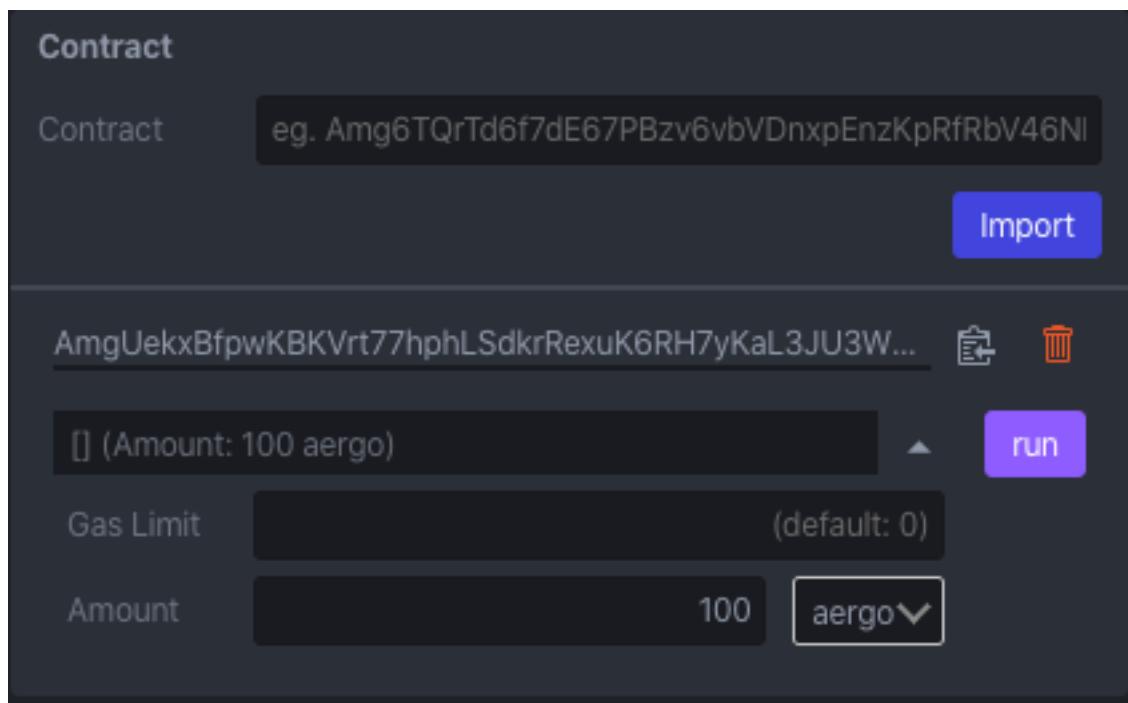


4.4.4 Token

Aergo . payable .

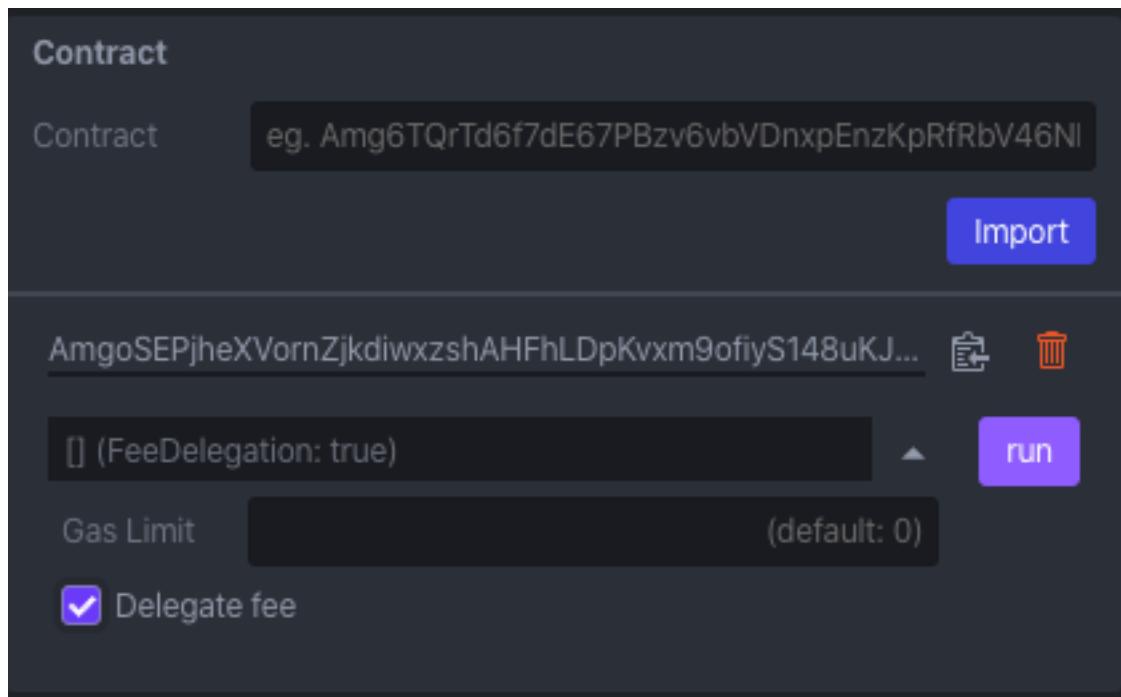
```
...
function run()
end

...
-- registered as payable
abi.payable(run)
```



4.4.5

```
. fee_delegation aergo .  
...  
function run()  
end  
  
-- registered as fee delegation  
abi.fee_delegation(run)  
  
-- register as execution  
abi.register(run)
```



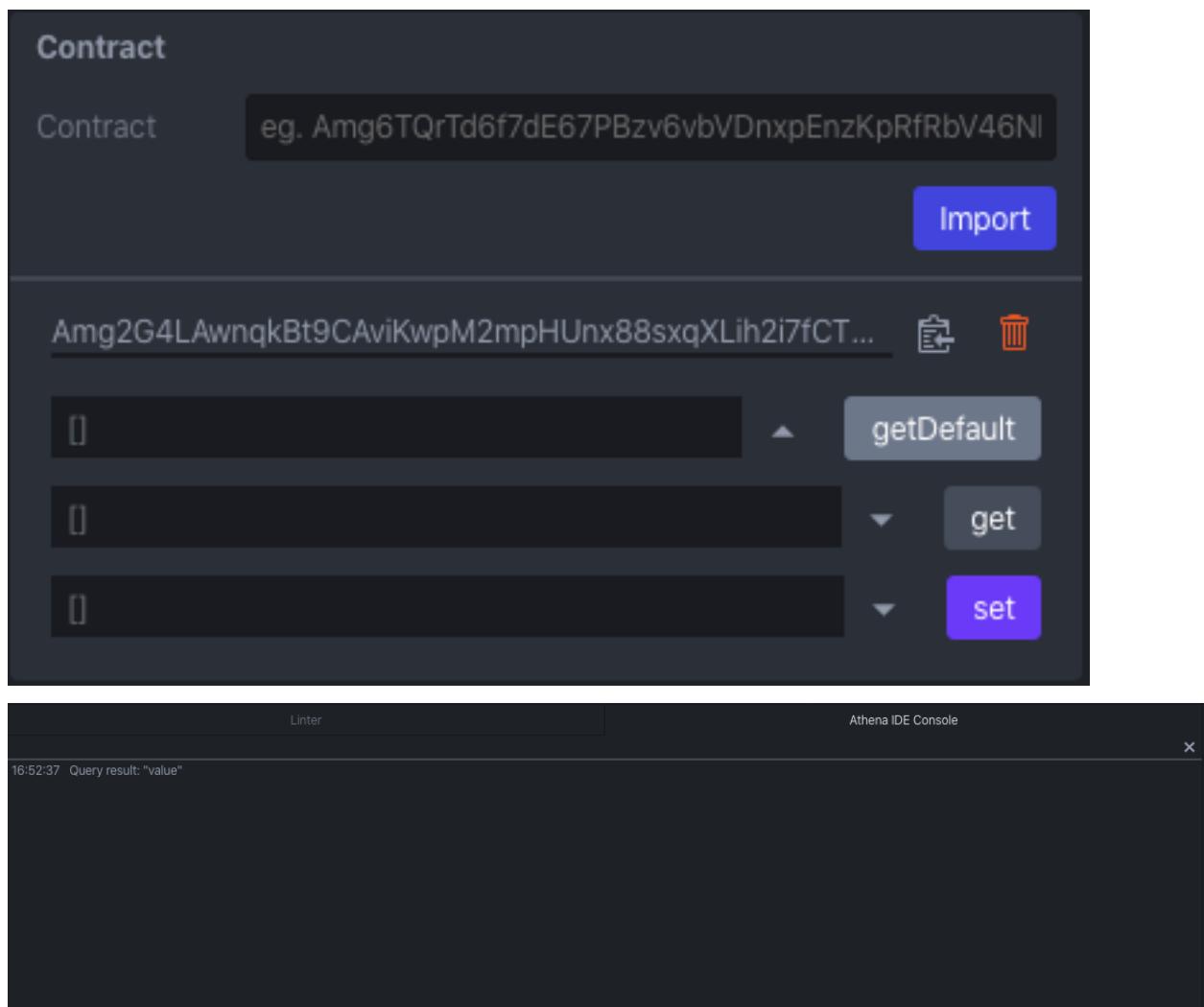
4.5

state db

4.5.1

```
...
-- no arguments
function getDefault()
    return system.getItem("k1")
end

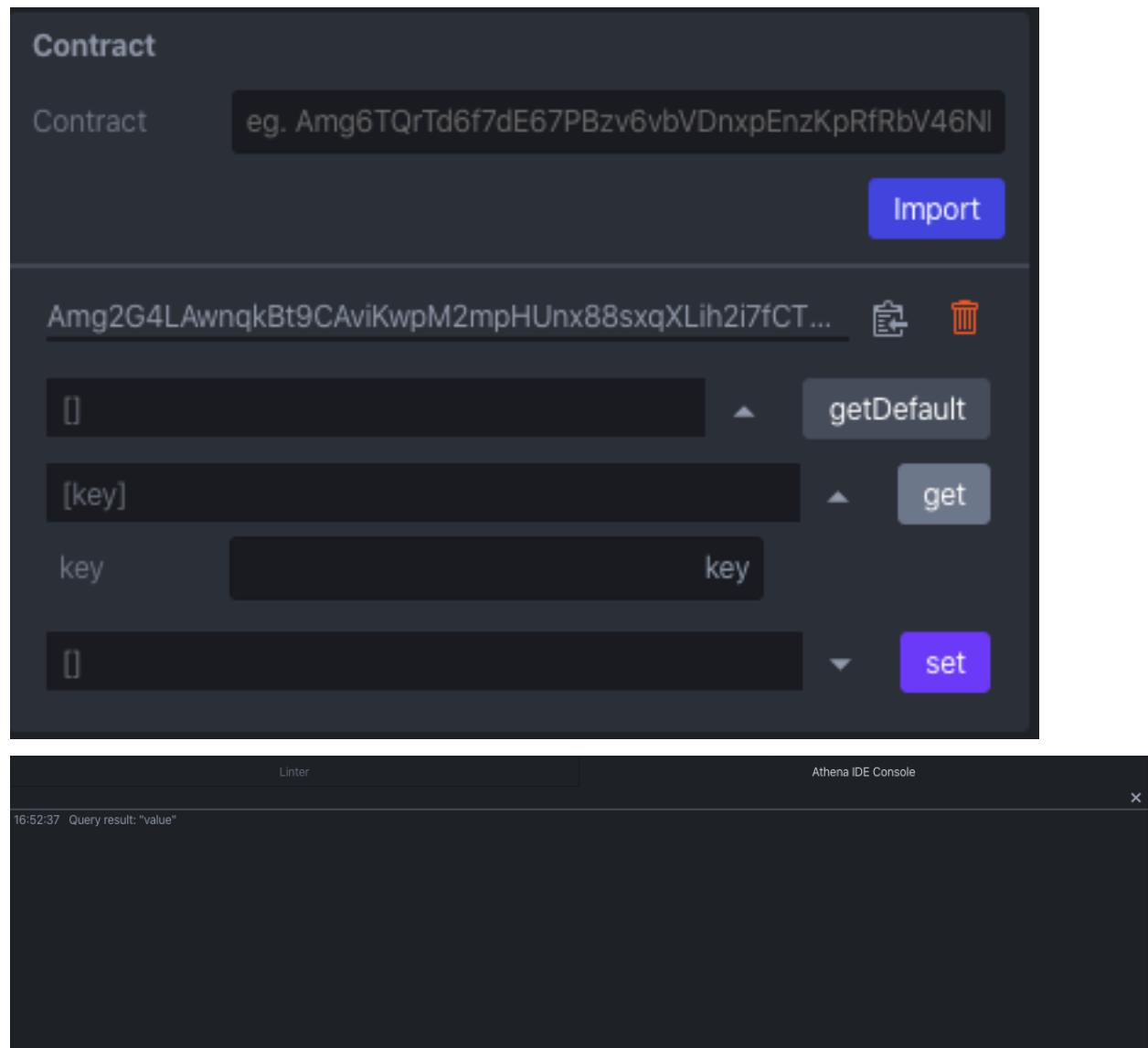
-- registered as register_view
abi.register_view(getDefault)
```



4.5.2

```
...
-- arguments (key)
function get(key)
    return system.getItem(key)
end

-- registered as register_view
abi.register_view(get)
```



4.6

Lua

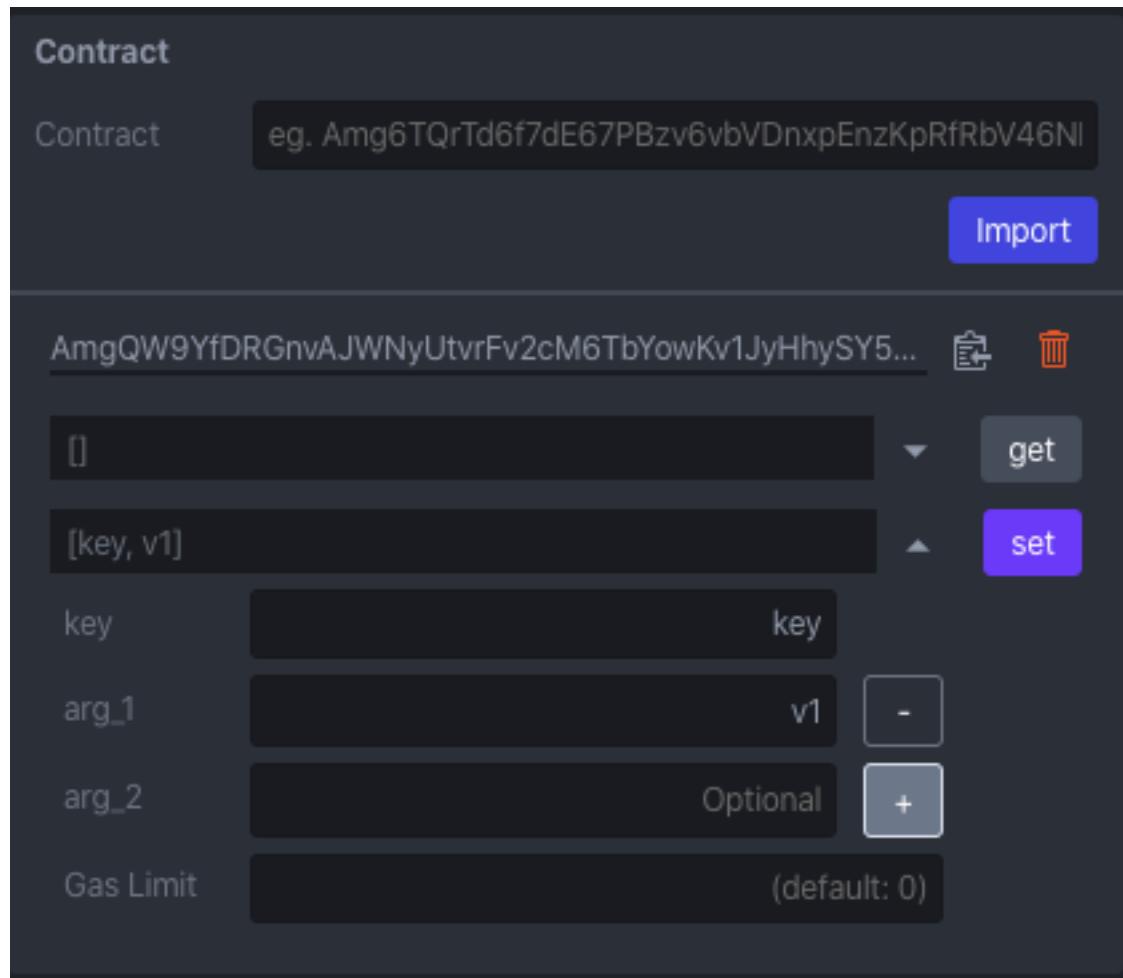
```
...
-- ... : varargs
function set(key, ...)
    local s = ""
    for i,v in ipairs{...} do
        s = s .. v
    end
    system.setItem(key, s)
end
...
```

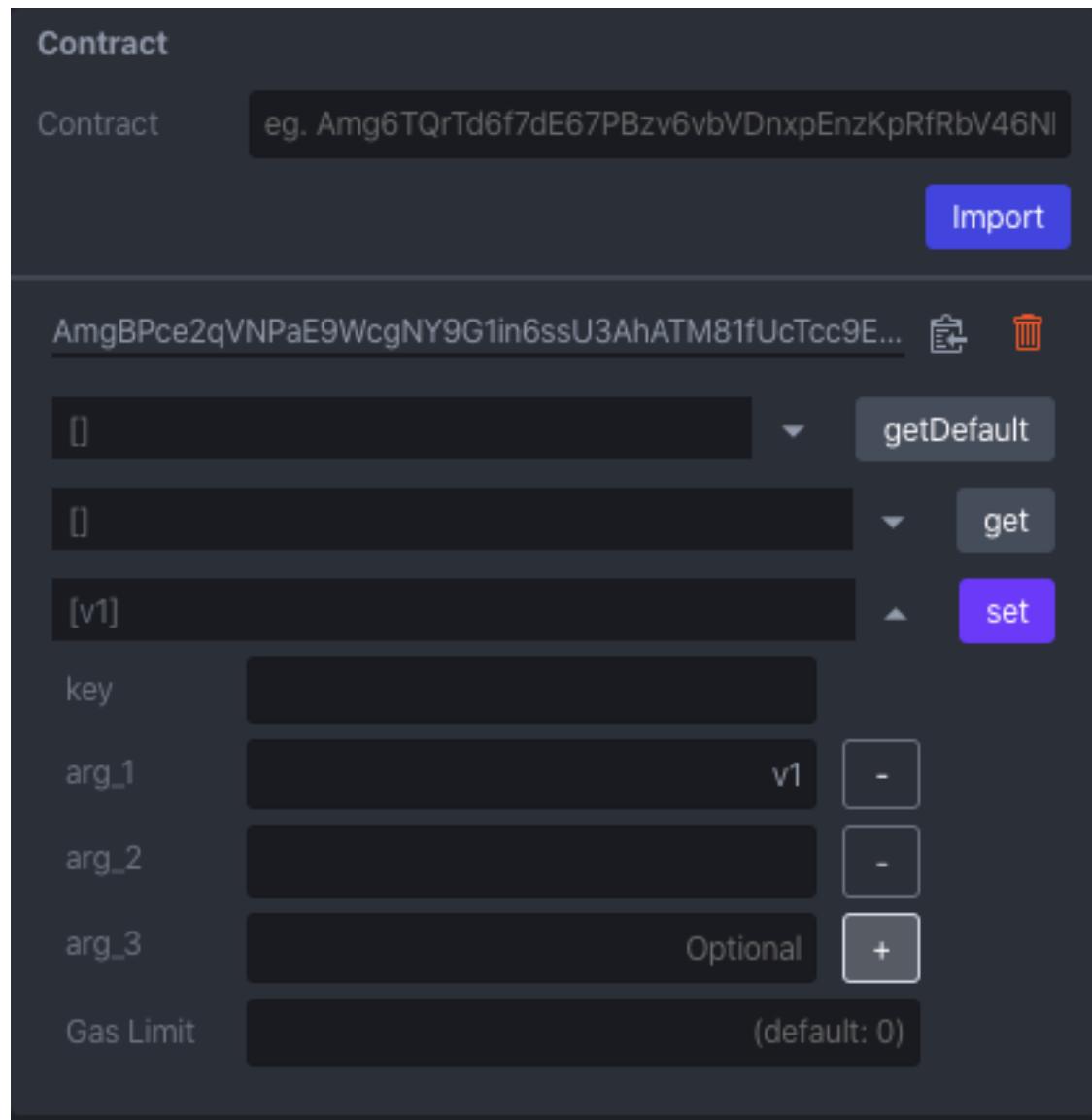
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```
abi.register(set)
```

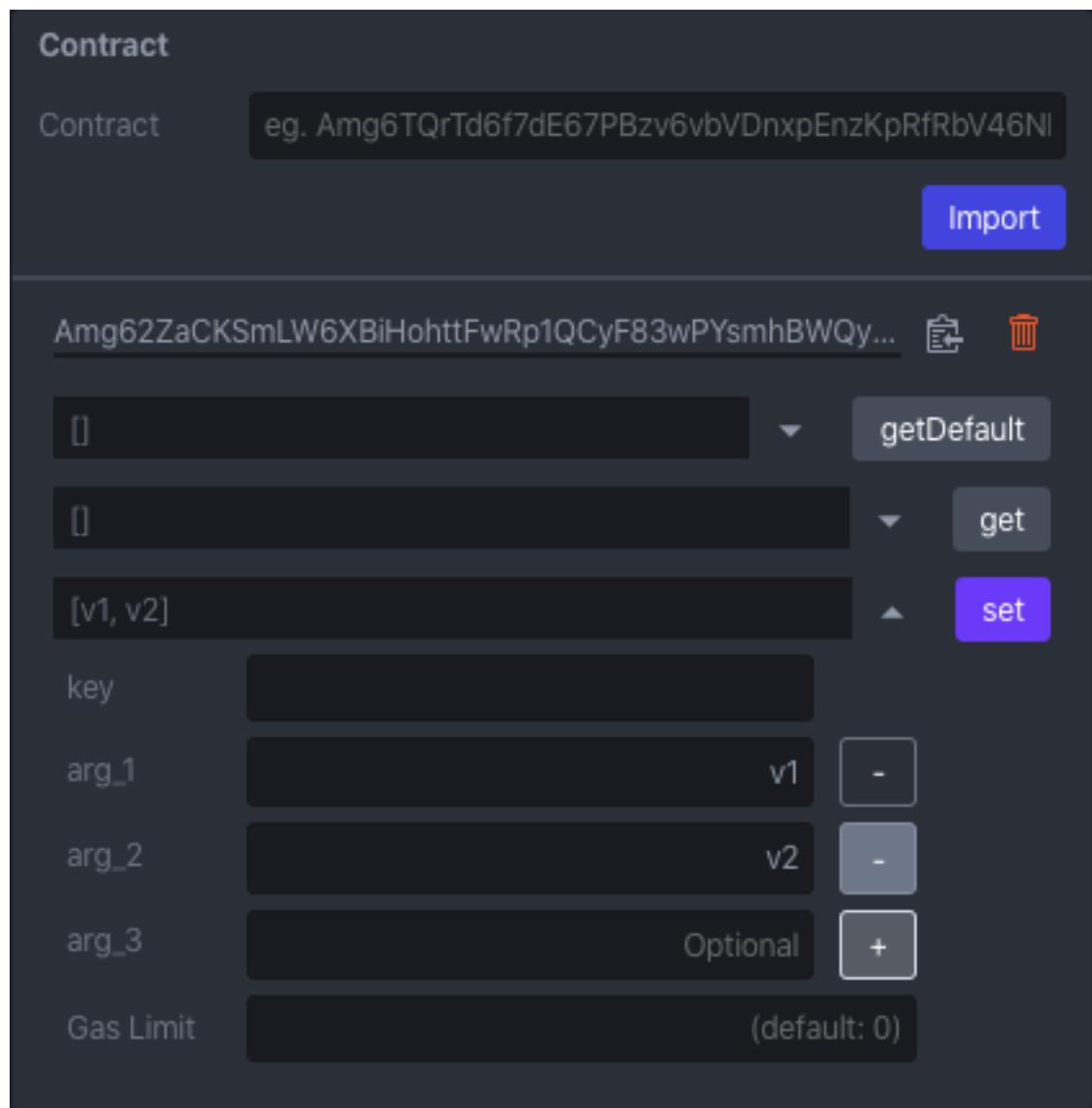
4.6.1

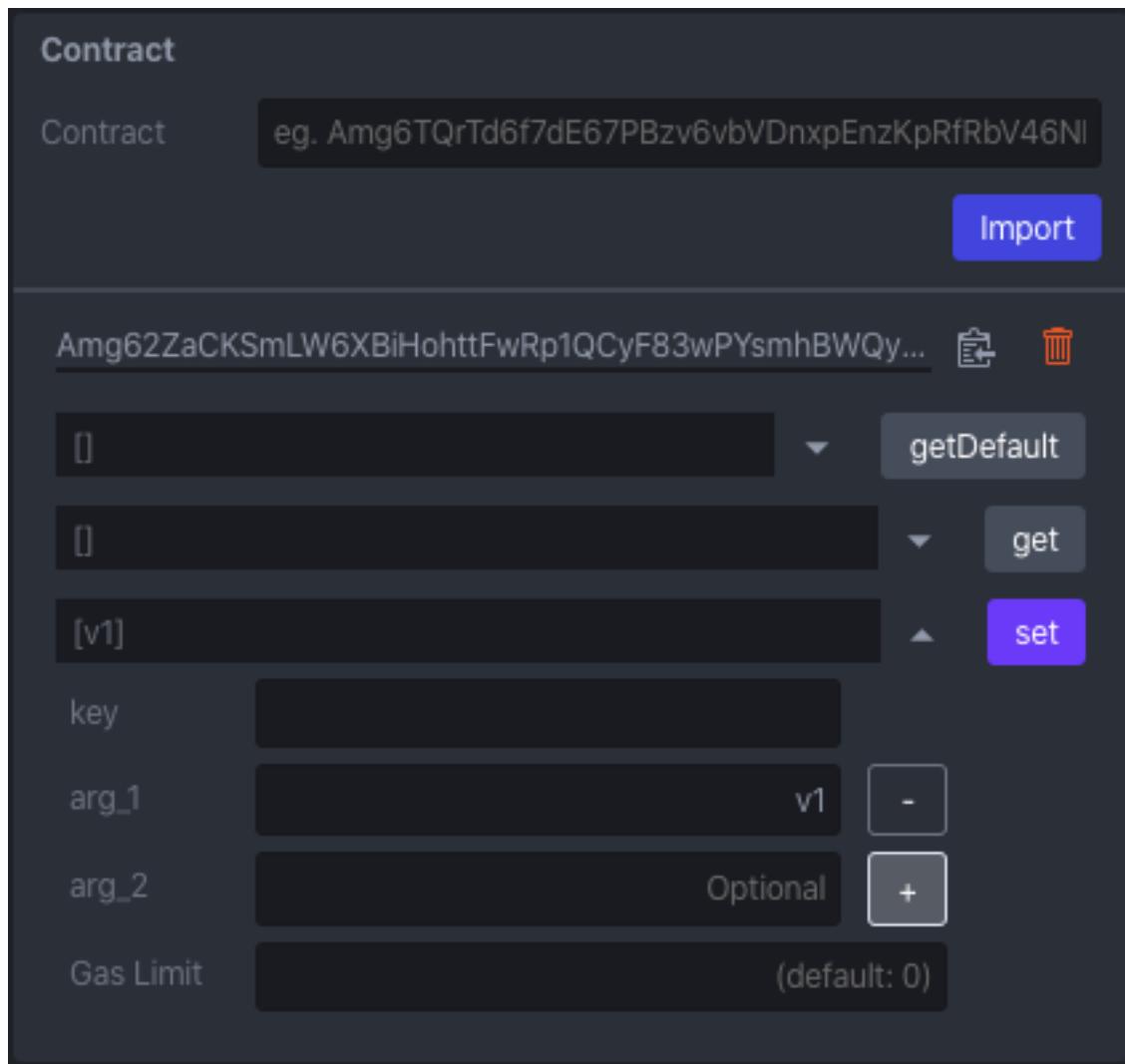
+





4.6.2





4.7 (private)

```
private .  
deploy .
```

