

Flash Loans with Aave

Aave *Flash loans*

by Rush

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Rush *Contract Receivers*

Balances *Aave Debt Tokens*

aTokens in Account		
index	Token Name	balance
0	aAAVE	100001699426625260613534337
1	aDAI	111219929209770165011457155
2	aLINK	100002001749280001306246401
3	aSUSD	100074990828591646086624669
4	aUSDC	1999871869166160
5	aUSDT	289199965621721
6	aWETH	8631714495773894879
7	aWBTC	100006395807959

Stable Tokens in Account		
index	Token Name	balance
0	stableDebtAAVE	0
1	stableDebtDAI	0
2	stableDebtLINK	0
3	stableDebtSUSD	0
4	stableDebtUSDC	0
5	stableDebtUSDT	0
6	stableDebtWBTC	0
7	stableDebtWETH	0

Variable Tokens in Account		
index	Token Name	balance
0	variableDebtAAVE	0
1	variableDebtDAI	0
2	variableDebtLINK	0
3	variableDebtSUSD	0
4	variableDebtUSDC	0
5	variableDebtUSDT	0
6	variableDebtWBTC	0
7	variableDebtWETH	0

Deploy *Rush FlashLoan*

```

0
variableDebtWETH
● 🐼 brownie run scripts/deploy_flashloan.py
Brownie v1.19.1 – Python development framework for Ethereum

RushProject is the active project.

Running 'scripts/deploy_flashloan.py::main'...
=====
Deploying Rush flashloan receiver contract ...
=====
Transaction sent: 0x4ee0deb053c54534f1918de8311a5b9bccae7e461518e5c619d67f7322a1e3e3
  Gas price: 1e-09 gwei Gas limit: 626919 Nonce: 374
  RushFlashLoan.constructor confirmed Block: 1312415 Gas used: 569927 (90.91%)
  RushFlashLoan deployed at: 0x7B4A0375f7c1F6eEC44342c46B7Dd7E61050e001

View contract on Optimism Goerli 🔗 🔗 🔗 🔗 https://goerli-optimism.etherscan.io/address/0x7B4A0375f7c1F6eEC44342c46B7Dd7E61050e001
Transaction was Mined

Tx Hash: 0x4ee0deb053c54534f1918de8311a5b9bccae7e461518e5c619d67f7322a1e3e3
From: 0xFE948CB2122FDD87bAf43dCe8aFa254B1242c199
New RushFlashLoan address: 0x7B4A0375f7c1F6eEC44342c46B7Dd7E61050e001
Block: 1312415
Gas Used: 569927 / 626919 (90.9%)

=====
Deploying Simple Rush flashloan receiver contract ...
=====
Transaction sent: 0x97d86c5aad05738931d9c7e55a9cb5ceecebc9423cf4f7136e8c38201ef80914
  Gas price: 1e-09 gwei Gas limit: 437684 Nonce: 375
  RushSimpleFlashLoan.constructor confirmed Block: 1312417 Gas used: 397895 (90.91%)
  RushSimpleFlashLoan deployed at: 0x7cd617BDA98e86144269ED7E325fb20c784f6102

View contract on Optimism Goerli 🔗 🔗 🔗 🔗 https://goerli-optimism.etherscan.io/address/0x7cd617BDA98e86144269ED7E325fb20c784f6102
Transaction was Mined

Tx Hash: 0x97d86c5aad05738931d9c7e55a9cb5ceecebc9423cf4f7136e8c38201ef80914
From: 0xFE948CB2122FDD87bAf43dCe8aFa254B1242c199
New RushSimpleFlashLoan address: 0x7cd617BDA98e86144269ED7E325fb20c784f6102
Block: 1312417
Gas Used: 397895 / 437684 (90.9%)

```

AAVE

$$\begin{array}{ccccccc} & & & &) \\) & &) & (/ ((\\ (& (& (/ () \backslash ()) \backslash \\ \backslash & & \backslash & \backslash & \backslash & \backslash & \backslash \end{array}$$

 10 million flashloan

Run *Simple FlashLoan*

0x3aefe92d640007d052a87562e7c165ea9ae3ec856a4223d9e94fc06329bcc6f4

✓ Success

1312500

Confirmed by Sequencer

🕒 33 secs ago (Sep-21-2022 07:18:16 PM +UTC)

0xfe948cb2122fdd87baf43dce8afa254b1242c199

🔍 Contract

0x4b529a5d8268d74b687ac3dbb00e1b85bf4bf0d4

✓

▶ From 0xa0c014681... To 0x7cd617bda... For 10,000,000 USDC (USDC)

▶ From 0x000000000... To 0x7cd617bda... For 5,000 USDC (USDC)

▶ From 0x7cd617bda... To 0xa0c014681... For 10,005,000 USDC (USDC)

0 Ether (\$0.00)

0.0000000000000027 Ether (\$0.000000)

1 wei (0.0000000001 Gwei)

 60 million flashloan

RUN *FlashLoan Batch*

0xb096db8fbf39c390f343603d9dc51bd7ed41f51a47124cb6b1bdb3007f7f7a76

Success

1312583

Confirmed by Sequencer

🕒 29 secs ago (Sep-21-2022 07:21:23 PM +UTC)

0xfe948cb2122fdd87baf43dce8afa254b1242c199

🔍 Contract 0x4b529a5d8268d74b687ac3dbb00e1b85bf4bf0d4

▶ From 0x27cf8bc5b8... To 0x7b4a0375f... For 60,000,000 DAI (DAI)

▶ From 0xa0c014681... To 0x7b4a0375f... For 50,000,000 USDC (USDC)

▶ From 0x8e2a45549... To 0x7b4a0375f... For 50,000,000 USDT (USDT)

▶ From 0xe34899bf6... To 0x7b4a0375f... For 30,000,000 SUSD (SUSD)

▶ From 0x19a81e3c2... To 0x7b4a0375f... For 10 WETH (WETH)

▶ From 0x00051d87b... To 0x7b4a0375f... For 20,000 WBTC (WBTC)

▶ From 0xa48d52bf4f... To 0x7b4a0375f... For 1,000,000 AAVE (AAVE)

▶ From 0x44f522c187... To 0x7b4a0375f... For 1,000 LINK (LINK)

▶ From 0x0000000000... To 0x7b4a0375f... For 30,000 DAI (DAI)

Scroll for more

0 Ether (\$0.00)

0.00000000000125 Ether (\$0.000000)

BALANCES *After FlashLoan*

```

23
24     for n in range (0, len(tokens)):
25         token_name = tokens[n]
26         balance = get_atoken(tokens[n]).balanceOf(acct)

```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER: VARIABLES

4

USDC

18100323156994753

5

USDT

89810954978000000

6

WETH

0

7

WBTC

0

=====

aTokens in Account

=====

index

Token Name

balance

0

aAAVE

100002199224575757320778025

1

aDAI

111249902358116532383492245

2

aLINK

100002002249070001959369606

3

aSUSD

100089983328792663819876205

4

aUSDC

1999901855432612

5

aUSDT

289224953913415

6

aWETH

8634092950060591431

7

aWBTC

100007394399405

=====

Stable Tokens in Account

=====

index

Token Name

balance

0

stableDebtAAVE

0

1

stableDebtDAI

0

2

stableDebtLINK

0

3

stableDebtSUSD

0

4

stableDebtUSDC

0

5

stableDebtUSDT

0

6

stableDebtWBTC

0

7

stableDebtWETH

0

=====

Variable Tokens in Account

=====

index

Token Name

balance

0

variableDebtAAVE

0

1

variableDebtDAI

0

2

variableDebtLINK

0

3

variableDebtSUSD

0

4

variableDebtUSDC

0

5

variableDebtUSDT

0

6

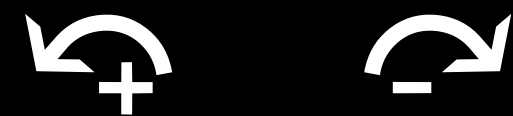
variableDebtWBTC

0

7

variableDebtWETH

0



OP

Rush *FlashLoan*
Receivers

