

Flash Loans with Aave

# **Aave *Flash loans***

by Rush

@[mmsaki](#)



# Rush w/ *Aave FlashLoan Strategy*

# Balances *Aave Debt Tokens*

```
Running 'scripts/aave_balances.py::main'...

=====
Tokens in Account
=====
index  Token Name  balance
0      AAVE      0
1      DAI      0
2      LINK      0
3      SUSDC     0
4      USDC      18100323156994753
5      USDT      89810954978000000
6      WETH      0
7      WBTC      0
=====

Interest aTokens in Account
=====
index  Token Name  balance
0      aAAVE      100002199224575757320778025
1      aDAI      111249902850857635418497920
2      aLINK      100002002249070001959369606
3      aSUSD      100089983328792663819876205
4      aUSDC      1999901855432656
5      aUSDT      289224954299163
6      aWETH      8634116919529665967
7      aWBTC      100007394399405
=====

Stable Debt 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 Debt 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
=====
(vyper)
```

# Deploy *Rush FlashLoan*

```

variableDebtWETH 0
• 🐶 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

[illegible]

 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

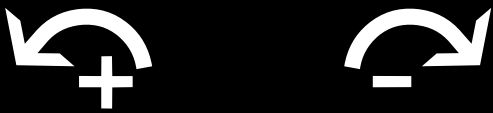
0 Ether (\$0.00)

0.00000000000125 Ether (\$0.000000)



# BALANCES *After FlashLoan*

```
Running 'scripts/aave_balances.py::main'...
=====
Tokens in Account
=====
index  Token Name  balance
0      AAVE      0
1      DAI       0
2      LINK      0
3      SUSDC     0
4      USDC      18100323156994753
5      USDT      89810954978000000
6      WETH      0
7      WBTC      0
=====
Interest aTokens in Account
=====
index  Token Name  balance
0      aAAVE     100002699022526254028021712
1      aDAI      111279875978197113868520662
2      aLINK     100002002748860002612492812
3      aSUSD     100104975828993681553127740
4      aUSDC     1999926843988032
5      aUSDT     289249942574411
6      aWETH     8636494351657166835
7      aWBTC     100008392990851
=====
Stable Debt 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 Debt 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
=====
(vyper) 
```



OP

# Rush *FlashLoan Receivers*



Rush ↺ ↻ to debt freedom

AAVE 🧛