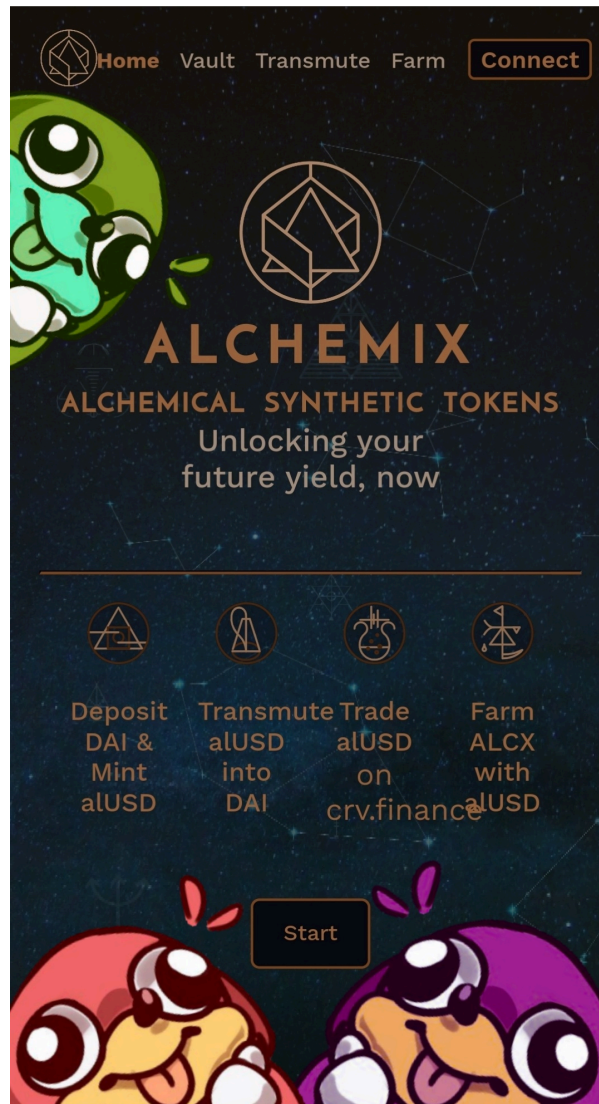


Bandit Audits.co

Alchemix.fi Audit



1.Intro

When entering Alchemix.fi, you might wonder why am I here and what have I got myselfu into now? Yet you're brought upon a beautiful home page and can't help but to feel safu. Do all the buttons work upon clicking them? They did for me. Worked flawlessly.

The screenshot displays the Alchemix.fi Vault interface. At the top, there's a navigation bar with the Alchemix logo, links for Home, Vault (highlighted), Transmute, and Farm, and a Connect button. Below the navigation bar is a search bar with the placeholder text 'Type to enter text' and a 'But Ser?' button. The main content area features a tabbed interface with options: DEPOSIT (selected), BORROW, WITHDRAW, REPAY, and LIQUIDATE. The DEPOSIT tab is active, showing a form to 'Deposit DAI in order to borrow aUSD'. The form includes a numeric input field with '0' and a 'Deposit' button. Below the input field are four percentage buttons: 25%, 50%, 75%, and 100%. The interface also displays account balances under two sections: 'Deposits' and 'Borrows'.

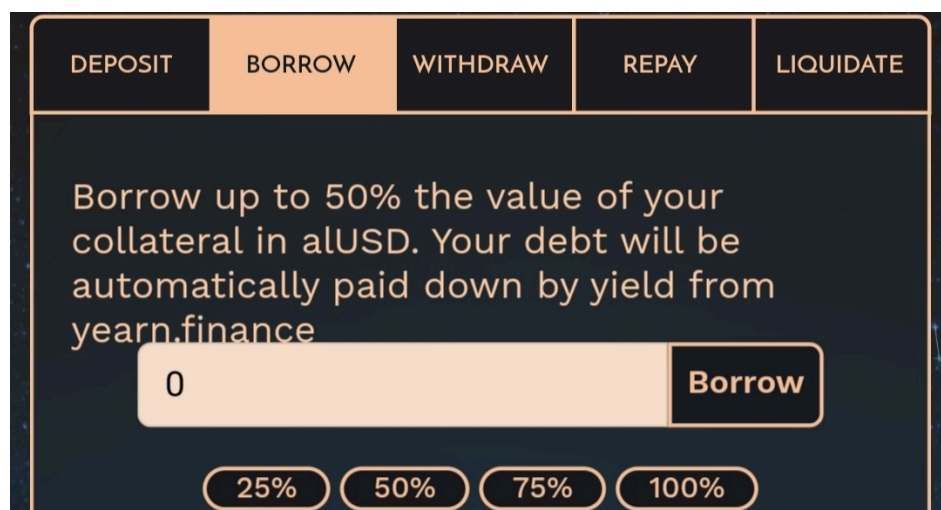
Deposits	
Your wallet balance:	0.000 DAI
Your collateral balance:	0.000 DAI
Available to withdraw:	0.000 DAI
DAI APY:	12.142 %

Borrows	
Remaining aUSD debt:	0.000 aUSD
Available to borrow:	0.000 aUSD
Your wallet balance:	0.000 aUSD
Estimated Date of Maturity:	...
Global Mintable aUSD:	0.000 aUSD

2. What is Alchemix.fi???

The million dollar question... “What is Alchemix.fi?” Well, lets get technical. It's most likely the dreams and memes of a group of talented, rag tag degens finally taking their righteous place in Defi.

An idea... what if loans paid themselves? Impossible in real life, but this is the land of degeneracy and magic internet money. Deposit Dai into the Alchemix vault, then withdraw 50% of your initial deposit as AlUSD (1 to 1 with dai). This 50% you have taken out is a self paying loan! Alchemix uses Yearns DaiV2 vault (12% APR). to pay off your loan in, um, let me do some quick maths. Yup! SOON™.



The image shows a screenshot of the Alchemix.fi user interface for borrowing. At the top, there are five tabs: DEPOSIT, BORROW, WITHDRAW, REPAY, and LIQUIDATE. The BORROW tab is currently selected and highlighted in orange. Below the tabs, a text box explains the borrowing process: "Borrow up to 50% the value of your collateral in alUSD. Your debt will be automatically paid down by yield from yearn.finance". Below this text is a numeric input field containing the number "0" and a "Borrow" button. At the bottom of the interface, there are four radio buttons for selecting the borrowing percentage: 25%, 50%, 75%, and 100%.

DEPOSIT	BORROW	WITHDRAW	REPAY	LIQUIDATE
<p>Borrow up to 50% the value of your collateral in alUSD. Your debt will be automatically paid down by yield from yearn.finance</p> <p>0 Borrow</p> <p>25% 50% 75% 100%</p>				

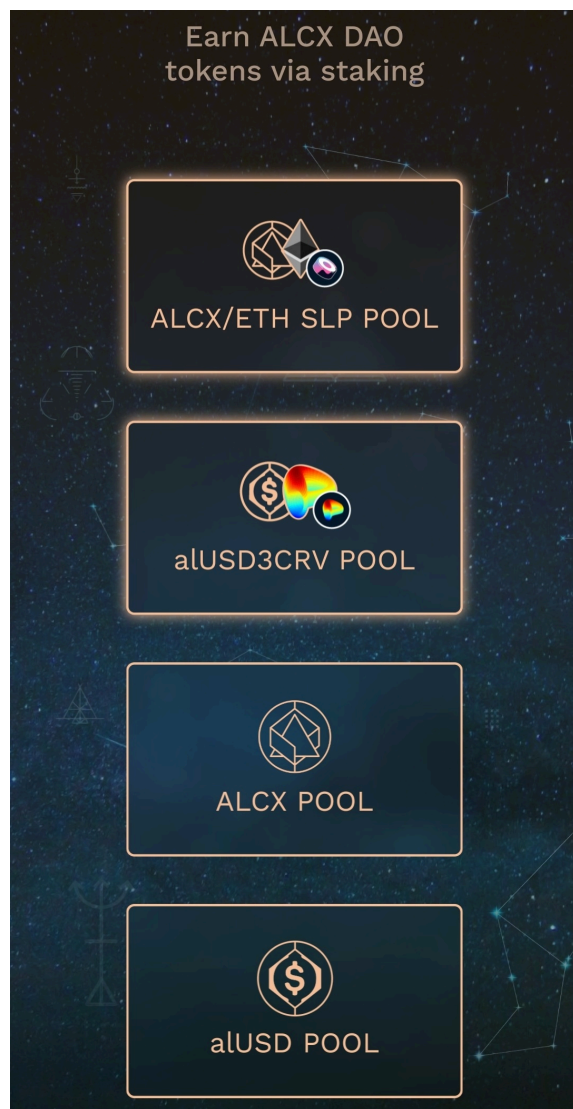
3. Wut do I do with all this Alusd???

Up to you! You can buy some of your favorite chocolate balls, boat, waifu, pillow, anything your little degenerate heart desires. Most are currently farming. = Provide liquidity get rewarded with ALCX (Alchemix Dao Token). You could also degen into your favorite coin knowing all your Dai will be available to you as soon as your loan is paid off. The most important part of being able to swap your Alusd to other stable coins is the Curve.fi Alusd pool. It currently holds \$291 million in liquidity. This allows minimal slippage from Alusd swaps to USDC, Dai, or Tether. hehe almost forgot, *U can pay back ur loan in Alusd or Dai

Alchemix allows for a plethora of different strategies when using their platform.

Ex. Take out Alusd loan--> convert to Dai, USDC or Tether --> farm in other projects ()===D

4.Current Vaults/Reward Distribution



Alcx/eth- providing both tokens on [sushiswap](https://sushiswap.com) adding the LP's to this farm (60%)

[Alusd3curve](#)- providing stable coins to the curve pool and adding LP's to this farm (18%)

Alcx- single asset farm just add ALCX (20%)

Alusd- single asset farm just add Alusd (2%)

5. ALCX DAO TOKEN

Use case: YES



*currently only used to farm and vote, maybe in the future we will see more use cases but for now da bois stacking up them Alcx like proper DEgentlemen/egirls? Dm me

6. Transmuter

The transmuter.. An enigma. does anyone know what this exactly does?!?!?!? Legend has it that it's a mechanism that helps keep 1 Alusd pegged to 1 Dai. Come across some cheap Alusd under 1 Dai? Great! Throw those bad bois into the transmuter, they will automagically become Dai. Currently the transmuter holds about 131 million Dai ready to be abused. With these excess amount of Dai in the transmuter some possible use for it has been discussed among the communities [discord](#). So get in there and help us figure out what to do with all our monies.

Transmute alUSD to DAI

Staking your alUSD will gradually convert it into DAI over time.

7. Self Liquidations- Et Tu Brute?

Self paying loans come with great power. Since you are basically loaning yourself an advance, the only person that can liquidate your loan is yourselfu. You use your collateralized Dai to pay off the rest of your loan and are able to withdraw your remaining Dai. Make a bad bet lose your loaned amount either wait for your loan to be paid off or accept the loss liquidate, withdraw your remaining Dai. Some degens were Self liquidating to ape more into the Alusd3curve pool. Not advised, but another interesting way Alchemix can be used (Bandit may have been one of these apes). The result of apes self liquidating caused an excess amount of Dai in the Transmuter. These actions have consequences and sometimes a positive outcome arises... Alchemy is a finicky thing.

8. Does it work

First let's go over my credentials I started crypto Zombies and stopped like after the 2nd lesson so I'm pretty much a coding God.

I've used all options available in Alchemix.fi except for the Transmuter.

(Alcx/eth pool)- added alcx+eth got lp staked lp on Alchemix.fi accumulates Alcx as stated.

PASSED

(Alusd3curve pool)- added liquidity pooled on Alchemix.fi accumulates Alcx as stated.

PASSED

(Alcx pool)- Added Alcx accumulates Alcx as stated.

PASSED

(Alusd pool)- Added Alusd accumulates Alcx as stated.

PASSED

9. Conclusion

According to my own coding and etherscan browsing abilities. No flaws were found in my use of the Alchemix.fi platform. All my assets I have in Alchemix.fi are currently farming to further my addiction to chocolate balls. It seems like a great platform with some really interesting ideas. Devs are readily available for questions on their [discord](#) and the community has been quite helpful when a person comes in and asks questions. Only area of improvement is that there is not enough [BigDickBandit.jpeg](#) avatar anywhere to be found on the website. Hopefully the dev team can overcome this obstacles. This audit was proofread and poured over by PrimeDirective my sexy degen side piece.

Links and Linx

<https://alchemy.fi/>

<https://app.alchemix.fi/>

<https://discord.com/invite/csa9mTRK6j>

<https://twitter.com/AlchemixFi>

<https://twitter.com/BigDickusBandit?s=09>

<https://twitter.com/1PrimeDirective>

<https://vfat.tools/alcx/>

↑
(Vfat answers the wut apr questions)

TIP AND TRICK...

But Ser button = [useful tutorial video](#) + [documents](#).

ENJOY

