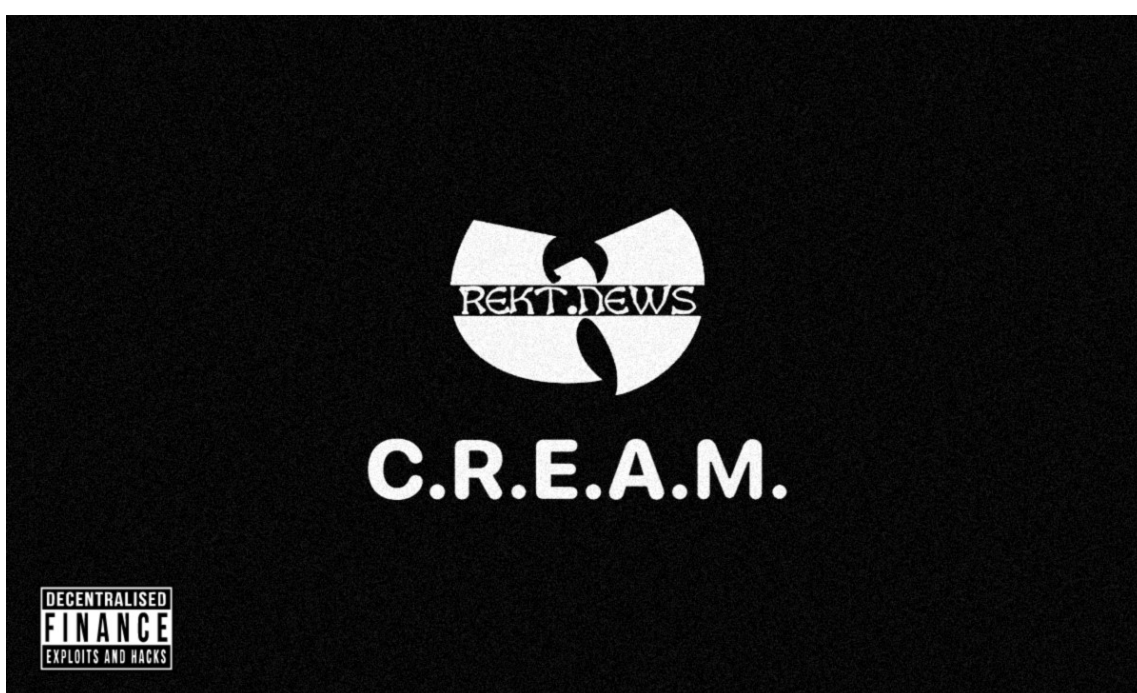


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Rekt - Cream Finance - REKT

3-4 minutos



Inspector rekt back once again.

\$18.8M lost to a ghostface killer, this time from an old school DeFi protocol.

[Cream Finance](#) was audited by [Trail of Bits](#) (one of the few auditors absent from our [leaderboard](#)) on Jan 28th 2021.

However, even the strongest audit becomes irrelevant once the protocol is changed.

On Feb 10th 2021, the [Cream proposal](#) to add the [AMP token](#) came into effect, and the loophole opened up.





The AMP token contract implements ERC77-based ERC1820, which has the **`_callPreTransferHooks`** for reentrancy.

[illegible]

Attack contracts: A, B and exploiter wallet.

In the above example, the hacker:

- 1:** Uses contract A to take a flash loan of 500 WETH to use as collateral on Cream, minting 24.17k crETH
- 2:** Borrows 19.48M AMP against crETH
- 3:** Exploits the reentrancy bug by inserting a further borrow() function into the token transfer, taking a further

355 ETH before the initial borrow() has been updated.

4: Creates contract B, which is funded with half (9.74M) of A's borrowed AMP

5: Contract B then liquidates part of A's loan, redeeming 187 WETH and transferring it back to contract A.

6: Contract A then uses the ETH borrowed via reentrancy to repay the remainder of the flashloan, leaving a surplus of 41 ETH and 9.74 AMP as profit for this transaction.

A similar process was used over 17 transactions, accumulating a total of almost 6k ETH.

At the time of writing, the stolen ETH (currently worth just over \$18M) remains in the exploiter's address:

[0xce1f4b4f17224ec6df16eeb1e3e5321c54ff6ede](https://etherscan.io/address/0xce1f4b4f17224ec6df16eeb1e3e5321c54ff6ede)



Cream has never had a great reputation. Perhaps this is why many believed this to be their second or third time getting rekt

Although they were involved with the [Alpha Finance incident](#), this is actually the first direct attack to hit Cream Finance.

Regardless of reputation, even time-tested protocols can be undermined by the [integration of a vulnerable token](#).

However, as @muditgupta pointed out;

[...seems like [Cream] would have been safe had they just added reentrancy protection on their borrow/lend function.

Can it all be so simple?



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