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What Is Aptos? A Deep Dive Into The New L1 Blockchain

Where does Aptos come in? This New L1 Blockchain \$APT

[Aptos](#), which has been labeled as yet another Solana killer, is a web3 environment that aims to be both safe and extensible.

Blockchains are touted as the future, but there are still many bugs and scalability problems to work out. A recently released robust blockchain, Aptos is intended to address the many issues plaguing blockchains on slow networks, including scalability issues and security threats.

The name of the Ohlone people, who settled the Aptos system, is whence the name “Aptos” originates.

What is Aptos?

A layer 1 blockchain funded by venture finance, Aptos. Move, a programming language built on top of Rust, was designed for Diem but is now used by the project. The cloud-based architecture of the platform ensures cheap transaction costs, lightning-fast processing, infinite scalability, the ability to install new upgrades, and maximum security.

More than three hundred and fifty programmers from around the world contributed to the creation of the Aptos blockchain. The Aptos team is led by Mo Shaikh (CEO) and Avery Ching (CTO), both of whom formerly worked for Meta and were advocates for the defunct Novi crypto wallet and Diem network.

The entire Meta project has been scrapped, but all of the resources from it are being redirected to this new endeavor.

Therefore, the innovative blockchain has been painstakingly created and built using cutting-edge technology for over three years, resulting in significant improvements to the protocol's consensus mechanism, system, performance, smart contract architecture, decentralization, and security.

Move, a language developed for Meta's Diem, is currently in use on Aptos. Aptos relies heavily on the concepts introduced in Meta, making it a vital and current project. Meta provides a solid basis for a web3 that is safe, dependable, and scalable.

The Aptos group is persistently advancing its permissionless access and decentralized initiatives. Aptos' primary function is to provide a secure environment for the operation of dApps and NFTs.

What Is Aptos Crypto (APT)?

On October 19, 2022, Aptos left Earth's atmosphere. Both the Aptos Coin and the Aptos Token are mentioned in the official Aptos whitepaper.

Lightweight standard for typesafe, simple, and fungible assets is what the Aptos Coin is called. However, the Aptos Token is adaptable in that it may function as an NFT and can be used in conjunction with other non-fungible tokens. In addition, the standard for tokens is oriented toward developing a non-decimal token that may be used interchangeably, partially interchangeably, or not at all, and which has numerous features and metadata that make it very simple to operate.

Aptos (APT) had a rocky start to its IPO on October 19, 2022, falling from \$13.85 to \$9 and then to roughly \$7.30 by the following day. In the wake of the APT launch, Shaikh declared on Twitter that they have silenced their Discord channel in an effort to keep the platform safe from potential threats.

What Is Aptos Labs?

The Aptos Labs are supporting the Aptos Project. Founded by Avery Ching and Mo Shaikh, Aptos Labs is home to a talented group of specialists in many fields.

Prior to collaborating on Meta, Shaikh and Ching worked together on the Diem blockchain project. After gaining experience in the venture capital and private equity industries, Shaikh took charge of the project's scalability.

Ching, on the other hand, was a senior software engineer at Meta and has vast expertise managing a wide range of development projects as a project manager. Meta's decision to shelve Diem prompted Shaikh and Chings to team up and launch Aptos Labs.

Aptos Labs' ultimate goal is to develop a public, Layer 1 blockchain. The developers at Aptos Labs set out to provide everyone with the kind of lightning-fast, completely secure, and completely dependable network they felt they deserved. Aptos Labs has only been around for a short period of time, yet they have already raised over \$350 million in cash across two rounds of investment. After that, they released their developer testnet, which has processed transactions involving millions of nodes thus far.

How Does Aptos Work?

As of this writing, Aptos is capable of handling around 130,000 transactions per second (TPS) with perfect consistency, speed, and safety. In order to accomplish this goal while keeping security and dependability, a few novel technological principles are at work. Here are some of the ground-breaking technological ideas that underpin the Aptos framework:

Changing the Language Used for Programming

The Aptos platform is driven by the Move programming language, which was originally developed for the Diem blockchain by Meta. When compared to other programming languages, Move is more adaptable and executable, and its global storage is more safe and reliable.

Move meets the specific requirements of Aptos because of these features. Move makes it simple for users to create or alter blockchain resources in a way that makes them immune to hacks and attacks.

How does Aptos Function?

At the time of publication, Aptos is capable of processing about 130,000 transactions per second (TPS) with optimal reliability, speed, and security. Behind this are several new technology principles that maintain security and dependability. The following are the innovative technological concepts that support the Aptos model:

Programming Language Change

Aptos is driven by the Move programming language, which was originally built for the Diem blockchain by Meta. Move is a more versatile and executable programming language with a more robust and secure global storage than other programming languages.

These attributes make Move suited for Aptos's particular demands and design. Move enables users to define or modify resources that are sufficiently secure to resist malicious hacks or blockchain-based attacks.

Block-STM Engineering

Block-STM technology makes the management of smart contracts simple and efficient. This technology provides parallel execution, which simplifies the management of multiple transactions, hence accelerating the process and ensuring transactional integrity. All transactions are processed and confirmed before to execution using this technology.

Afin d'accroître l'efficience, a collaborative scheduler is implemented to prioritize particular transactions on the Aptos blockchain and handle important validations. Currently, about 160,000 transactions may be completed continuously with 100 percent precision and efficiency.

Consensus Protocol for BFT

While other blockchains use a consensus protocol that follows a specific route or order of transactions, the Aptos blockchain separates the two processes, allowing them to run in parallel. This decreases latency, which is the amount of time it takes to confirm or verify network transactions, and increases network speed.

In addition, a Byzantine Fault Tolerant (BFT) engine is developed to automatically analyze and update validators as required, hence optimizing precision.

Aptos NFTs

Even while enabling NFTs isn't a top priority for Aptos, the company's engineers have only realized that the blockchain can process them in a redundant fashion thanks to its parallel execution engine, opening up new investment possibilities beyond just the Aptos token.

Users' ability to create new accounts and mint NFTs is sped up by the parallel execution engine. The Typescript Software Development Kit (SDK) also enables users to craft the scripts essential to NFT minting.

All of these realized possibilities make it possible for a single user to develop many NFTs in parallel across multiple environments. Users can now enable multiple or repeating transactions without having to devote a lot of time and effort to the design and creation of NFTs.

In fact, recent experiments have demonstrated that millions of NFTs may be minted in a matter of hours. Building on these capabilities is a priority for developers who want to make the NFT landscape safer, easier, and faster for the masses. Aptos intends to make and distribute NFTs as well.

Is Aptos Worth Investing?

And if the top VC companies are betting on the Aptos blockchain, then there must be something truly golden about this prospect.

Aptos seems as one of the safest and most reliable crypto chances in 2022. Testing showed high throughput rates, the development team is top-notch, and the company was founded by people who worked on Meta and Diem, so it's a safe bet.

Aptos is distinguished from other layer 1 initiatives by its novel and powerful architecture, which separates consensus and execution, and by its major use of the programming language Move, which was designed specifically to increase security.

Just because something is investable doesn't mean you'll make money off of it. Research cryptocurrencies on your own, and take responsibility for your own risk, at all times.