👋 Introduction

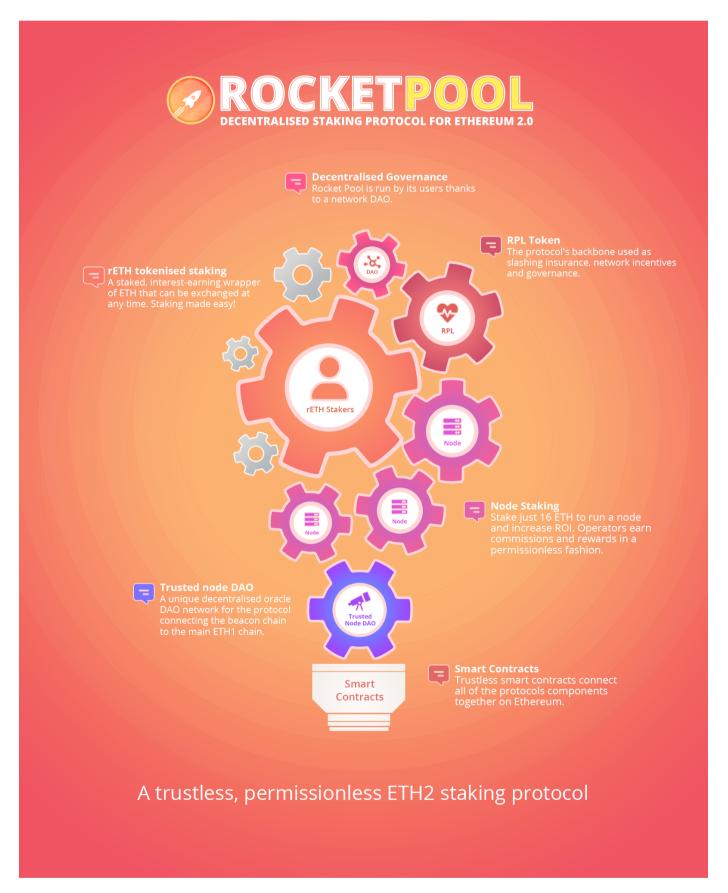
Rocket Pool is a first of its kind ETH Proof of Stake Protocol, designed to be community owned, decentralised, trustless and compatible with staking in Ethereum. It was first conceived in late 2016 and has since had over 5 successful public betas over the life span of ETH development.

Rocket Pool is designed to cater to two main user groups; those that wish to participate in **tokenised staking using rETH** using as little as **0.01 ETH** and those that wish to stake ETH and run a node in the network to help generate a higher ROI than staking outside of the protocol due to commissions earned.

For more information on these two groups that make up the protocol, we'd highly recommend **reading article one in our explainer series** that goes into great detail on how users can participate, be it via tokenised staking or running a node in the protocol.

The core premise behind a protocol is to ensure the network is not beholden to any one party. This is a principle directly linked to Ethereum and ETH itself, and a mindset used at every stage of the process as Rocket Pool has evolved.

A 10,000 foot view of the components which make up the Rocket Pool Staking Protocol:



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Rocket Pool strives to embody the core ethos of Ethereum and DeFi, specifically the non-custodial, trustless nature that allows self-sovereignty to truly thrive.

This is why creating this base protocol layer for ETH staking is so important, especially with the vast majority of players either not having the technical skills to run a node, or the financial capacity to own 32 ETH.

Suggest changes to this page

Next page Explainer Series

ﷺ Explainer Series

Everybody loves a good explainer series! For the best detailed understanding of how a ETH2 staking protocol works, checkout this article series that goes into great detail over four different articles!



- 1. Overview and Users of the protocol
- 2. The Protocol DAO and Oracle Node DAO
- 3. RPL & Tokenomics
- 4. Launch Details and Audit Reports

If you want even more info on Rocket Pool, be sure to checkout our medium blog account for a detailed history of our updates and we're also on Twitter.

🗹 Suggest changes to this page

Previous page Overview

Frequently Asked Questions

This FAQ section aims to complement the **explainer series of articles** with concise answers to common questions we receive.

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General

What is Proof of Stake? A brief overview of what Proof of Stake is and why it is awesome.

What does Rocket Pool do?

A quick introduction into what Rocket Pool actually does.

Why would I need to use it?

Good question and hopefully even better answers.

Smart contracts, smart nodes & decentralised infrastructure.

Independent node operator vs Staking as a Service (SaaS) provider? *Protocols can be used by everyone, from regular users to professional SaaS providers.*

What tokens does Rocket Pool use? We use two tokens. RPL and rETH. Find out more here.

Who's making it?

How does it work?

It's not aliens or lizard people. Well, fairly sure anyway.

Staking

What is the minimum deposit?

I'll save you a scroll, it's 0.01 ETH.

What is the maximum deposit? I'll save you another scroll, there is no limit.

What are the staking periods?

None for both stakers and node operators. Come and go as you please.

How much does it cost to stake with Rocket Pool? We don't take a cut at all, instead all node operators that power the protocol get variable based commissions

How does the protocol protect the value of rETH? Our top priority! We have lots of features in place.

What is a decentralised staking protocol exactly? OK, expect your mind to be blown.

How can I access my deposit and rewards before ETH2 Phase 2?

I heard something about withdrawals not being allowed for a while...

Are your smart contracts audited and open source? *For sure! Betas, audits, audits and more audits.*

Node Operators

Why would I run a Rocket Pool smart node vs going solo? Half the ETH required to do so and earn ETH commissions + extra RPL rewards, boom!.

What is the minimum staking amount for a node operator? It's 16 ETH, would you like to know more?

What is involved in running a Rocket Pool node?

Some ETH, RPL and uptime, uptime, uptime.

How is the RPL token used?

Stake RPL on your node as an insurance promise to the protocol and earn extra RPL rewards!

dApps, SaaS Business and more

Can I build on top of the protocol or use it in my SaaS business? Get your dApp connected with decentralised staking or run a node in the network and generate higher returns!

Contact

Website

Contact us here via email or just read up on Rocket Pool.

Discord

Drop by for a chat and ask some questions, we're a friendly bunch.

Twitter

Chat rooms not your thing? We post all updates here too!

Doc Hub

You're reading it 😃 But there's a few more articles to be found...

What is Proof of Stake?

Proof of Stake is a consensus protocol used in Ethereum 2.0 (ETH2). It is different from the Proof of Work (PoW) protocol, which you may have heard of before, because Bitcoin uses PoW. With a decentralised blockchain, these consensus protocols help keep everyone on the same page, so we all know what transactions have been processed and in what order. This is known as validation.

ETH2 currently has a Proof of Stake (PoS) chain called the Beacon Chain, which is faster, more energy efficient and more decentralised than PoW. It's powered by users depositing ETH and providing an Ethereum node online 24/7 to perform the required validation. As a reward for providing the node, the Beacon Chain gives node operators additional ETH on top of their deposits. It can be viewed similarly to earning interest in a bank account, with the exception that these rewards are generated in return for helping secure the network.

Rocket Pool is the base layer protocol for decentralised and trustless Ethereum 2.0 staking.

Designed to support stakers of all shapes and sizes, Rocket Pool was built with the intent to allow anyone to trustlessly stake as little as **0.01** ETH to a network of decentralised node operators with full autonomy underpinned by RPL collateral (a type of bonding or insurance that ensures good behavior). You can stake **ETH** by trading it for **rETH**, a **token which gains staking rewards over time** based on the performance of an entire network of decentralised node operators. You can also stake **16 ETH** as a node operator in the protocol, earn rewards on your own stake fee free, plus earn commissions and RPL rewards from the network, generating a higher ROI by staking in the protocol vs staking outside of it as a solo node operator.

Why would I need to use it?

Rocket Pool removes several high barriers to entry that exist with Proof of Stake on Ethereum 2.0 for both individuals, groups and businesses.

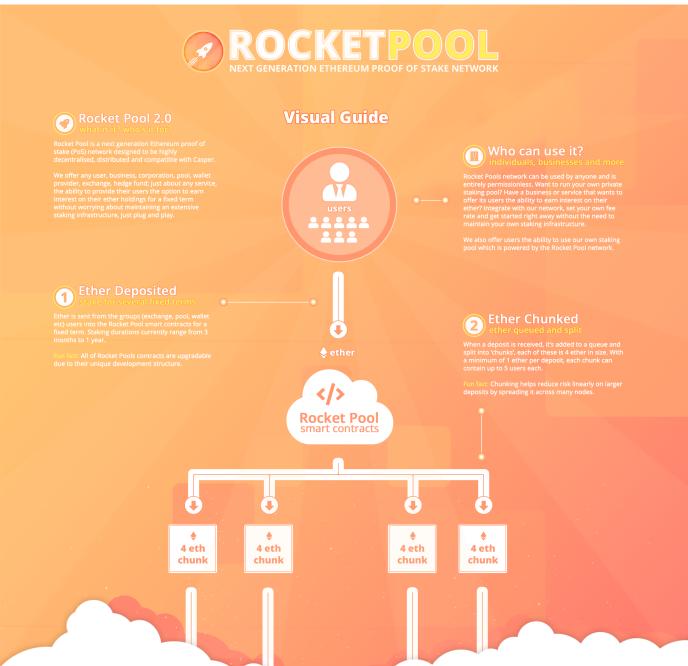
- The Beacon Chain requires a deposit of at least **32 ETH**. Rocket Pool will allow anyone to earn rewards on deposits as small as **0.01 ETH**.
- Depositing ETH with the Beacon Chain will also require the user to have knowledge on how to interact with smart contracts. Rocket Pool handles all interactions with the Beacon Chain for you.
- Ethereum 2.0 is being rolled out over several phases. Depositing during the early phases 0 or 1 means your deposit is locked until phase 2 arrives, which could be several years. With Rocket Pool you instantly get our rETH token when depositing. This is a tokenised staking deposit which gains rewards over time and doesn't need to be locked with us. It can be traded/sold/held at any time providing our users with liquidity. It can also be traded back to Rocket Pool for ETH plus rewards at any time if there is liquidity available no need to wait years.
- The Beacon Chain will require a user who makes a deposit to be technically proficient at running an Ethereum node 24/7 and keeping that node online and secure. Rocket Pool has a decentralised network of independent Ethereum node operators that provide this service.
- The Beacon Chain will penalise users who make a deposit but fail to keep their node online. Rocket Pool socialises any penalties or losses that occur on nodes across the whole network which minimises the effect greatly for any single user.
- Some users may be confident in running their own node but do not have the 32 ETH required for the deposit. If they join Rocket Pool's decentralised network of Ethereum node operators, they only need 16 ETH minimum to solo stake. They also get the added benefit of receiving extra income from the network for providing this service which generates a higher ROI than staking solo.

How does it work?

Hold tight, this is a meaty one! The protocol is primarily composed of 3 main elements, smart contracts, the Smart Node Network and Minipool Validators.

- Our smart contracts accept ETH deposits, assigning them to node operators with staking commission rates based on current node operator demand, and also issue and track various tokens.
- Our Smart Node Network is a decentralised network of special Ethereum nodes that run our Smart Node software. They feature custom background processes that allow them to communicate with the protocol's smart contracts, and just as importantly, provide the network consensus (validation) required by the Beacon Chain.
- Any user can run one of these Smart Nodes and stake their own ETH fee-free if they have the minimum 16 ETH required. For providing the protocol with a Smart Node, the user also receives extra rewards from the network on top of the rewards they earn staking their own ETH. They earn RPL tokens in return for initially putting up RPL as collateral, insuring or bonding their node against bad behavior or poor performance.
- Minipool Validators are another smart contract, but these are worth defining on their own due to being such a key aspect of the protocol. These smart contracts are created by node operators who deposit 16 ETH on their node. When they do this, this smart contract receives 16 ETH in deposits from users who just want to stake but not run a node (rETH stakers). When this contract contains a total of 32 ETH (16 ETH initial deposit plus 16 ETH from rETH stakers), a new validator is created on the node which performs the consensus duties for that deposit to earn staking rewards. Neat!

View the visual guide below to get a glimpse of how these components work together in the Rocket Pool protocol.





Independent node operator vs Staking as a Service (SaaS) provider?

Rocket Pool protocols support a wide array of actors, including independent node operators and service providers.

Web3 is full of highly knowledgeable Staking as a Service providers, helping the world better access the proof of stake landscape with projects like Ethereum. They support everything from institutional capital, to hedge funds, family offices and everything in between.

Rocket Pool was designed to support those providers, meaning ETH staked through SaaS solutions can be put to use through Rocket Pool, rather than having to spin up bespoke staking solutions to deal with each client.

ETH holders can choose between paying a SaaS provider or being paid to be an operator themselves. With Rocket Pool, SaaS providers and independent operators maximize their return by being paid to run a node, both in ETH and RPL. The protocol allows teams to run their own infrastructure, and use Rocket Pool to trustlessly stake ETH in batches of 16 ETH — putting their capital to work further and earn a larger share of returns.

This design means Bison Trails or Gemini could use Rocket Pool the same as a DeFi power user. Simply show up with 16 ETH and you're treated the same as any other node operator. Rocket Pool's democratized staking system doesn't favor any one party, as ETH staked through Rocket Pool always directly supports the network.

Rocket Pool's staked ETH wrapper, rETH, is the purest in DeFi because of the Rocket Pool network being fully distributed and trust-minimised. This makes rETH a natural building block for Ethereum and providers of all kinds.

What tokens does Rocket Pool use?

RPL — Rocket Pool Protocol Token

RPL is the primary protocol token that will be used in governance of the protocol and can also be staked on a Rocket Pool node as a form of insurance.

When creating a 16 ETH minipool validator in the protocol, a minimum of 10% of that ETH's value must also be staked in RPL as a security promise to the protocol. The insurance promise acts as collateral, where if the node operator is penalised heavily or slashed and finishes staking with less than 16 ETH, their collateral is sold for ETH via auction to help compensate the protocol for the missing ETH. For providing this insurance promise, the protocol also rewards the node operator with RPL rewards generated by the inflation built into the protocol. The more RPL staked as insurance, up to a maximum of 150% of the staked ETH's value, the more RPL rewards the node operator receives.

rETH — Rocket Pool Staking Deposit Token

When a user deposits into the protocol, they will instantly receive the rETH token which represents a tokenised staking deposit and the rewards it gains over time in the Rocket Pool network.

This token does not need to be locked within the network and it can be traded, sold or held as the user desires. It also importantly provides Rocket Pool users with liquidity over Phase 0 and 1 of the ETH2 rollout in which any staking deposit is locked until Phase 2, which does not have any set date as yet on the ETH2 rollout map.

This token can also be traded back to the protocol for ETH + rewards earned at any time, providing there is sufficient liquidity in the protocol to meet the trade.

Who is making it?

Rocket Pool was originally started in late 2016 by David Rugendyke, a senior developer with over 18 years commercial experience and a computer science background.

In May 2017, an alpha version of the product was released. A vibrant community started to form and the team began expanding.

Today there is a great team working on Rocket Pool passionately alongside a fantastic community. Both have helped Rocket Pool run five public betas with over 100,000 ETH (testnet) staked and hundreds of users participating over the last 1–2 years.

What is the minimum deposit?

Rocket Pool protocol allows anyone to earn rewards on deposits as low as 0.01 ETH. When you trade ETH, you will receive rETH, a token that gains staking rewards over time based on the performance of all decentralised node operators in the protocol.

What is the maximum deposit?

As big as you're comfortable with, unlimited.

What are the staking periods?

If you just want to stake you will receive our rETH token when you deposit. You can then do as you want with this token, it will still gain staking rewards over time and can be sold/traded or traded back to Rocket Pool for ETH + rewards if there is liquidity available for the trade.

If you want to run a node in the network, you can stake as a node for as little or long as you wish. The longer you stake, the more rewards you gain of course.

What commissions are possible when staking with Rocket Pool?

Commissions for node operators come from rewards generated from the 16 ETH pooled from non-operator stakers. The commission is variable and based on supply (node operators available to stake ETH) and demand (ETH needing to be staked). So it can go from very low to high depending on how many non-operator deposits are arriving into the network, their size and how many node operators are available to accommodate these new deposits. Currently the minimum commission is 5% of rewards earned and the maximum is 20%.

How does the protocol protect the value of rETH?

Our smart contracts are responsible for holding and moving funds. In the interest of transparency, they are **open source** for all to analyse. Additionally, before the smart contracts are deployed to mainnet they will be fully audited by both Sigma Prime and ConsenSys Diligence, two of the best auditing teams around.

Rocket Pool is a decentralised network of node operators. If you are a nonoperator staker, your deposit will be allocated to a node operator who will perform Proof of Stake duties. Node operators are required to stake as much ETH as they are assigned. If there is ETH loss due to poor node performance, the operator must first compensate the pool's lost ETH with their original 16 ETH and the loss of RPL. If this does not completely make up for the loss, the rest is spread across the entire network through a reduction in the relative value of rETH, rather than one user taking large losses just due to bad luck that their deposit ended up on a bad node.

For example, if a node leaves the network with 28 ETH, the operator retains 12 ETH, the network retains 16 ETH - all loss is on the operator. If a node leaves with 15 ETH, the network retains 16 ETH and the operator makes up the missing 1 ETH through the loss of RPL. If the node leaves with 10 ETH, and there is only 1.6 ETH-worth of RPL from the original bond, the network retains 11.6 ETH, and the loss of 4.4 ETH (16 - 10 + 1.6) is spread across the network.

Node operators thus have a large incentive to perform well. Node operators are also incentivised by the protocol to stake as much RPL as insurance as possible, due to additional rewards that are given for providing a bigger safety net should

they perform poorly.

What is a decentralised staking protocol exactly?

Rocket Pool is a protocol that contains a decentralised network of node

operators. Each node operator is a separate entity with their own server infrastructure. Having this heterogeneous network is important for:

- Fault tolerance failures only affect a small number of nodes
- Scalability by opening up the network it means a huge number of nodes can be brought online to meet demand
- Quadratic Leaking this is a fancy term for how the Beacon Chain punishes validators for being offline. As a node operator, if you go offline with a big group of other validators your punishment is greater this deters centralised staking services.

How can I access my deposit and rewards before ETH2 Phase 2?

If you are a non-operator staker and just sending your deposit to Rocket Pools smart contracts, you will instantly receive rETH tokens which are a form of tokenised staking, they will still gain rewards over time, but you don't need to hold them with us and can trade/sell or hold them as you wish. You can also trade them back to the protocol for ETH + rewards gained if there is liquidity available in the protocol to cover the exchange.

Are your smart contracts audited and open source?

In the interest of transparency, they are **open source** for all to analyse. Additionally, before the smart contracts are deployed to mainnet they will be fully audited by both Sigma Prime and ConsenSys Diligence, two of the best auditing teams around.

Why would I run a Rocket Pool smart node vs going solo?

As a node operator, you can take advantage of the following benefits:

- You get to use our awesome Smart Node Stack, a super handy setup to make staking very easy. Get started here with the installer.
- You require only 16 ETH to stake (as opposed to 32 ETH solo), since Rocket Pool assigns 16 ETH of the protocol's deposits. You can also stake 16 ETH deposits multiple times on the one node.
- You earn extra rewards by charging Rocket Pool users a set percentage of the rewards earned on your node. This commission amount is variable and determined by the current capacity of the network when your node receives a deposit. If the network is under a lot of demand and you make a 16 ETH deposit, you will get a higher commission for helping out when needed the most.
- You stake your own ETH, free from any commissions.
 You can stake RPL on your node as collateral and earn more RPL from the material for providing this incurrence premise.
- Protocol for providing this insurance promise. You are always in control of your own node.
- Once withdrawals are enabled on ETH2.0 you can come and go anytime from the network.

What is the minimum staking amount for a node operator?

The minimum staking amount for a node operator is 16 ETH. But you can easily stake in multiples of 16 ETH on your own node using our smart node software. You will also need some RPL to act as collateral in the event of serious downtime or penalties. This collateral is treated as an insurance promise to the protocol which earns you more RPL the longer you stake.

What is involved in running a Rocket Pool node?

As a node operator you will need to run a server 24/7 performing proof of stake validator duties. Use our **Smart Node Stack** to manage your node + validators in the protocol, a super handy package to make staking very easy. **Get started here with the installer**.

Apart from that you just need the prerequisite ETH deposit (16 ETH) and a minimum of 10% its value in RPL.

How is the RPL token used?

Check out the tokens section for a great overview!

Integrated dApps, SaaS Business and more

If you're a dApp, you can integrate directly into Rocket Pools smart contracts to stake ETH that your dApp might hold. You'll instantly receive rETH (a tokenised staking deposit) back when depositing which can be used as your dApp wishes. You now have staking in a decentralised dApp using a decentralised staking network, whoa!

If you're a SaaS (Staking as a Service) provider, you might want to maximise returns for your users. Spin up a few smart nodes in the Rocket Pool network and put that ETH to work earning staking rewards + extra commissions + RPL rewards.

Are you a wallet or DEX and want to give your users the ability to stake their ETH but not leave your service? Just write a smart contract that can manage depositing ETH into Rocket Pool on your users' behalf and then receive rETH back instantly. Bam! Staking services delivered. There are many more possibilities. Rocket Pool is a permissionless smart contract based staking protocol, anyone can plug into it. Your users don't even have to know you're using us, that's entirely up to you!

Suggest changes to this page

Previous page Explainer Series Next page Contracts & Integrations Do you love RPL and rETH? Us too! So we put together a list of integrations and services, as well as official contract deployments, to help you discover new places these assets can be used!

If you would like to contribute by helping integrate Rocket Pool into more services and protocols, reach out on **Discord**!

Key Protocol Contracts

Chain	Contract	Address
Mainnet	Deposit	0xDD3f50F8A6CafbE9b31a427582963f465E745AF8
	Storage	0x1d8f8f00cfa6758d7bE78336684788Fb0ee0Fa46
Goerli*	Deposit	0xa9A6A14A3643690D0286574976F45abBDAD8f505
	Storage	0xd8Cd47263414aFEca62d6e2a3917d6600abDceB3

Within the protocol, the Storage contract is used to find all the other deployed contract addresses as needed (see this **example**). See All Active Deployed Protocol Contracts below for a full list of addresses.

* Testnet

Token Contracts

Chain	Asset	Address
Mainnet	RPL	0xD33526068D116cE69F19A9ee46F0bd304F21A51f
	rETH	0xae78736Cd615f374D3085123A210448E74Fc6393
Arbitrum	RPL	0xb766039cc6db368759c1e56b79affe831d0cc507
	rETH	0xec70dcb4a1efa46b8f2d97c310c9c4790ba5ffa8
Optimism	RPL	0xc81d1f0eb955b0c020e5d5b264e1ff72c14d1401
	rETH	0x9bcef72be871e61ed4fbbc7630889bee758eb81d
zkSync Era	RPL	0x1CF8553Da5a75C20cdC33532cb19Ef7E3bFFf5BC
	rETH	0x32Fd44bB869620C0EF993754c8a00Be67C464806
Polygon	RPL	0x7205705771547cf79201111b4bd8aaf29467b9ec
	rETH	0x0266F4F08D82372CF0FcbCCc0Ff74309089c74d1
Polygon (zkEVM)	RPL	0x70d35152fBf63FB312709b11a9Bac87519de0019
	rETH	0xb23C20EFcE6e24Acca0Cef9B7B7aA196b84EC942
Goerli*	RPL	0x5e932688e81a182e3de211db6544f98b8e4f89c7
	rETH	0x178E141a0E3b34152f73Ff610437A7bf9B83267A
Optimism Goerli*	RPL	0xa00E3A3511aAC35cA78530c85007AFCd31753819
	rETH	0x1010824414d822cd2167f9ad73a2a99bd2e0e4ae

* Testnet

Deposit Pool Contract Version History

Chain	RP Version	Address
Mainnet	v1.2 (Atlas)	0xDD3f50F8A6CafbE9b31a427582963f465E745AF8
	v1.1 (Redstone)	0x2cac916b2A963Bf162f076C0a8a4a8200BCFBfb4
	v1.0	0x4D05E3d48a938db4b7a9A59A802D5b45011BDe58
Goerli*	v1.2 (Atlas)	0xa9A6A14A3643690D0286574976F45abBDAD8f505
	v1.1 (Redstone)	0x2cac916b2A963Bf162f076C0a8a4a8200BCFBfb4
	v1.0	0x923Ed282Cda8952910B71B5efcA7CDa09e39c633

* Testnet

Integrations

Category	Service	Link	Link
Data Feeds	Subgraph	RPL	rETH
Exchanges	1inch (Mainnet)	-	ETH/rETH
	Aura Finance (Mainnet)	rETH/RPL	wETH/rETH
	Balancer (Mainnet)	rETH/RPL	ETH/rETH
	Bancor (Mainnet)	ETH/RPL	ETH/rETH
	Curve (Mainnet)	-	wstETH/rETH
	Uniswap (Mainnet)	ETH/RPL	ETH/rETH
	Uniswap (Arbitrum)	ETH/RPL	ETH/rETH
	Uniswap (Optimism)	_	ETH/rETH
	Uniswap (Polygon)	-	wETH/rETH
	Zigzag (zkSync)	-	ETH/rETH
Lending	Alchemix (Mainnet)	-	wETH/rETH
	Interest Protocol (Mainnet)	-	USDC/rETH
	Maker (Mainnet)	-	DAI/rETH
	MYSO Finance (Mainnet)	-	wETH/rETH
	Vendor Finance (Arbitrum)	-	DAI/rETH
Oracles (NAV)	RP oDAO Rate (Mainnet)	-	rETH/ETH
	RP Rate Provider (Optimism)	-	rETH/ETH
	RP Rate Provider (Arbitrum)	-	rETH/ETH
	RP Rate Provider (Polygon)	-	rETH/ETH
	RP Rate Provider (zksync era)	-	rETH/ETH
	Chainlink (Arbitrum)	-	rETH/ETH
Oracles (Market)	RP oDAO Rate (Mainnet)	ETH/RPL	-
	Chainlink (Mainnet)	-	rETH/ETH
	Maker (Mainnet)	-	rETH/USD
Trackers	DefiLlama	RPL	-
	Delta	-	rETH
	RocketScan	RPL	rETH
Vaults	Convex (Mainnet)	-	Curve-rETHwstETH
	Ribbon (Mainnet)	-	rETH
	Yearn** (Mainnet)	-	Curve-rETHwstETH
Wallets	Coinbase Wallet (Mainnet)	-	rETH
	Trust Wallet (Mainnet)	-	rETH

** Likely not profitable

All Active Deployed Protocol Contracts

	addressQueueStorage	0x44E31944E1A6F3b8F805E105B130
	addressSetStorage	0xD4ae2511dF21F367792bA4D67c66
	rocketAuctionManager rocketClaimDAO	0x1a2F00D187C9388fDa3Bf2dc46a6 0x4a625C617a44E60F74E3fe3bf6d6
	rocketDAONodeTrusted	0xb8e783882b11Ff4f6Cef3C501EA0f
	rocketDAONodeTrustedActions	0x029d946F28F93399a5b0D09c87
	rocketDAONodeTrustedProposals	0xb0ec3F657ef43A615aB480FA8D5A
	rocketDAONodeTrustedSettingsMembers rocketDAONodeTrustedSettingsMinipool	0xdA1AB39e62E0A5297AF44C7064E 0xE535fA45e12d748393C117C6D8EE
	rocketDAONodeTrustedSettingsProposals	0xAD038f8994a6bd51C8A72D3721C
	rocketDAONodeTrustedSettingsRewards	0x7322c24752f79c05FFD1E2a6FCB9
	rocketDAONodeTrustedUpgrade	0x952999Ec97248547D810Fd6464f
	rocketDAOProposal	0x37714D3a9D3b3091220D68184e3 0x0429Cdd8cEACe24d4dC2B97Ce2
	rocketDAOProtocolActions	0xB50d513de40eE70A662c39207b4
	rocketDAOProtocolProposals	0x42EC642eAa86091059569d8De8a
	rocketDAOProtocolSettingsAuction rocketDAOProtocolSettingsDeposit	0x87c41E0a44826745b398071025e 0xac2245BE4C2C1E9752499Bcd348
	rocketDAOProtocolSettingsInflation	0xEDD568281929a9a276F4cBEd80E
	rocketDAOProtocolSettingsMinipool	0x42d4e4B59220dA435A0bd6b589
	rocketDAOProtocolSettingsNetwork	0x320f3aAB9405e38b955178BBe75
	rocketDAOProtocolSettingsNode rocketDAOProtocolSettingsRewards	0x17Cf2c5d69E4F222bcaDD86d210 0xCDb681AF33C60f4D659d12E309b
	rocketDepositPool	0xDD3f50F8A6CafbE9b31a42758296
	rocketMerkleDistributorMainnet	0x7EcCBbd05830EdF593d30005B8F
	rocketMinipoolBase	0x560656C8947564363497E9C78A
	rocketMinipoolBondReducer rocketMinipoolDelegate	0xf7aB34C74c02407ed653Ac91287 0xA347C391bc8f740CAbA37672157
	rocketMinipoolFactory	0x7B8c48256CaF462670f84c7e849
	rocketMinipoolManager	0x6d010C43d4e96D74C422f2e273
	rocketMinipoolPenalty	0xE64AC47b6e2FEcfCDEA35147Fe6
	rocketMinipoolQueue rocketMinipoolStatus	0x9e966733e3E9BFA56aF95f76292 0xa52451b9d25EEf02BE42B3A8161A
	rocketNetworkBalances	0x07FCaBCbe4ff0d80c2b1eb42855
	rocketNetworkFees	0xf824e2d69dc7e7c073162C2bdE8
	rocketNetworkPenalties	0x9294Fc6F03c64Cc217f5BE8697E
	rocketNetworkPrices	0x751826b107672360b764327631c 0x2FB42FfE2d7dF8381853e963043
	rocketNodeDistributorDelegate	0x32778D6bf5b93B89177D328556E
	rocketNodeDistributorFactory	0xe228017f77B3E0785e794e4c0a8
	rocketNodeManager	0x89F478E6Cc24f052103628f36598
	rocketNodeStaking	0x0d8D8f8541B12A0e1194B7CC4b6 0xA805d68b61956BC92d556F2bE6d
	rocketSmoothingPool	0xd4E96eF8eee8678dBFf4d535E03
	rocketStorage	0x1d8f8f00cfa6758d7bE783366847
	rocketTokenRETH	0xae78736Cd615f374D3085123A210
	rocketTokenRPL rocketUpgradeOneDotTwo	0xD33526068D116cE69F19A9ee46F 0x9a0b5d3101d111EA0edD573d45ef
	rocketVault	0x3bDC69C4E5e13E52A65f5583c23
Goerli*	addressQueueStorage	0xF7d23f90c96D998e3E809acD923
	addressSetStorage	0x102A9E8a1ca531468378e03eEF9E
	rocketAuctionManager rocketClaimDAO	0x46CB66F1f680B4bb0c94404baB3 0x4a625C617a44E60F74E3fe3bf6d6
	rocketDAONodeTrusted	0x8486d86481CCda0Bc3A148361Fd
	rocketDAONodeTrustedActions	0x029d946F28F93399a5b0D09c87
	rocketDAONodeTrustedProposals	0xda28CAc28D61d337073A5C1B12c
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	rocketDAONodeTrustedSettingsProposals	0x4D65276777a25300A7e533a635E
	rocketDAONodeTrustedSettingsRewards	0x7322c24752f79c05FFD1E2a6FCB
	rocketDAONodeTrustedUpgrade	0xE2247Aa78ce01b3fD43B0a1fd2cf3
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	rocketDAOProtocolActions	0x9C8484CDADa71318FEeBd74CC68
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	rocketDAOProtocolSettingsDeposit	0xcB48514A11c642d34677C6dD1F9
	rocketDAOProtocolSettingsInflation rocketDAOProtocolSettingsMinipool	0x44c33430b6a46dc176F6CFa3B2 0xb3fa2e86064A89ABDb011C3c81C
	rocketDAOProtocolSettingsNetwork	0x320f3aAB9405e38b955178BBe75
	rocketDAOProtocolSettingsNode	0x5D762bE86F582cfDe63359b2978
	rocketDAOProtocolSettingsRewards	0x0CB29674078F0Ad3dD23f8DD29
	rocketDepositPool rocketMerkleDistributorMainnet	
	·	0x7EcCBbd05830EdF593d30005B8F
	rocketMerkleDistributorMainnet	0x7EcCBbd05830EdF593d30005B8F 0xcbD9243c9e284DFd65928617c82
	rocketMerkleDistributorMainnet rocketMinipoolBase rocketMinipoolBondReducer rocketMinipoolDelegate	0x7EcCBbd05830EdF593d30005B8F 0xcbD9243c9e284DFd65928617c82 0x68802A05C4a0AFB0EB943271Bb 0xba6A1F8E1af8B3Ee43bb8d4e10D0
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* Testnet

This list was updated 5/20/2023

The addresses can be queried on chain as shown in this example.

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Glossary

You may stumble upon some unfamiliar concepts in the Rocket Pool documentation. This section lists the common terms in the documentation for easy access, learning and plugin/theme development.

APY - Annual Percent Yield (APY):

The amount of profit (yield) calculated over a one-year period divided by the initial investment amount expressed as a percentage.

Bonding

See insurance.

Contract, (Smart)

An Ethereum program (smart contract) that is used to perform a set of programmed functions. Rocket Pool smart contracts include the deposit pool, minipool validator formation, and issue and track various token interactions on the Ethereum chain.

Client

A client is an implementation of Ethereum software that verifies all transactions in each block, keeping the network secure and the data accurate. *See also Execution (ETH1) and Consensus (ETH2) client*.

Custodial

Centralized service that manages the entire ETH staking process on behalf of the user and retains "custody" over private validator keys and withdrawal keys. *See also non-custodial.*

DAO (Decentralized Autonomous Organization)

An organization represented by rules encoded as a computer program that is transparent, controlled by the organization members, and not influenced by a central government.

Deposit Pool

The amount of ETH ready to be staked. The deposit pool is funded by regular users when they swap ETH for rETH. This ETH is the amount that is waiting to be paired with node operators in the node operator queue.

ETH

The fundamental cryptocurrency coin generated and used by the Ethereum protocol.

Execution (ETH1) Client

Ethereum Software clients that run the execution layer.

Consensus (ETH2) Client

Ethereum Software clients that run the consensus layer.

eth2.0 (the Beaconchain)

The Ethereum 2.0 network and update to the Ethernet network that was launched in December 2020 and replaced the proof-of-work eth1.0 consensus mechanism in September 2022. Deprecated term - now known simply as the Beaconchain or the consensus layer.

Insurance

The amount of RPL token, expressed as a percentage of the value of ETH provided by the protocol, that a node operator needs to deposit when they start a minipool validator. The RPL insurance staked by a node operator will act as insurance to reimburse regular users in the event that the node operator exits staking with less than 16 ETH in their validators.

Minipool (Validator)

A validator that was funded and initialized via the Rocket Pool software. It is composed of ETH contributed from regular users via the deposit pool and ETH contributed from node operators during their registration process.

Node

In the Ethereum network, nodes are devices (computers) that run Ethereum client software.

Node Commission

The amount of supplemental ETH awarded to a node operator. This is effectively the "fee" that is taken from normal stakers; in Rocket Pool, that fee is given to the node operators. When Rocketpool launched, it ranged from 5 - 20% with the ideal target of 10%, with each minipool's commission locked for life upon the creation of the minipool. New minipools activated are now at a set 15% commission rate.

Node Operator

An individual that wishes to secure the Ethereum network by operating a node (computer) that will run the Rocket Pool software, an eth2 validator client, and optionally an eth1 and eth2 beacon client as well. Node operators will earn ETH APY rewards at a greater rate than solo-stakers on the Ethereum 2.0 network.

Node Software

A set of programs that allow node operators to interact with the Rocket Pool protocol.

Node Wallet

An eth1 wallet that is generated by Rocket Pool upon creating a new node. This wallet will be used to fund new minipools during their creation and pay for the gas fees needed to interact with Rocket Pool's smart contracts.

Non-Custodial

A service that provides streamlining for validator set up in management but does not hold user private validator keys and withdrawal keys. Rocket Pool is a noncustodial staking service.

Oracle DAO (oDAO)

A DAO composed of all the oracle node operators. See also DAO.

Oracle Node

A special node run by trusted members of the Rocket Pool community that relays information from the ETH2 beacon chain (such as total staking rewards and validator exit status) back to the ETH1 chain so the Rocket Pool smart contracts can function correctly.

Proof-of-Stake (PoS)

The consensus mechanism used in eth2.0, where users vote on the correctness of new blocks by staking the ETH in their wallet.

Protocol DAO (pDAO)

The DAO composed of all holders of RPL tokens. See also DAO.

Regular Node (Operator)

The term given to "normal" node operators that do not have the additional responsibilities of Oracle Nodes.

Regular Stakers

A retail (regular) user that wants to earn interest on their ETH coin without decoupling it from the underlying value of ETH. A regular staker interacts with the Rocket pool platform by swapping ETH coins for rETH tokens. Their ETH is entered into the staking pool, where it is acquired by Node Operators when they create new minipools.

rETH (Rocket Pool Staking Deposit Token)

A token that represents a regular user's deposit into the staking pool. Users receive an equivalent value of rETH token for each ETH coin they deposit. As interest is earned by staking on the Ethereum network the value of the rETH token increases with respect to ETH. This token does not need to be locked within the network and it can be traded, sold or held as the user desires.

RPL (Rocket Pool Token)

This is a token issued by the Rocket Pool contract, and serves several purposes.

For Node Operators:

- It's required to launch a minipool and thus access commission
- It provides its own yield as RPL rewards (70% of inflation goes to NO RPL rewards)
- It provides voting power for governance

For the protocol:

- It serves as secondary collateral (e.g., against slashing)
- It provides funding for the oDAO (15% of inflation)
- It provides funding for the pDAO (15% of inflation)

Stake

An amount of coin or token that is deposited as an assurance collateral to perform some work. An individual can stake ETH either as a regular user by swapping ETH for rETH or as a node operator by depositing ETH for use as part of the Beaconchain PoS consensus process. A person who stakes their ETH (e.g. a staker) is rewarded with an APY or return on their deposited ETH.

Staking Pool

A staking pool allows multiple ETH coin holders to combine their tokens to collectively form the required amount to run an Ethereum validator. Rocket Pool forms, tracks, assigns, and insures these collective pools using a non-custodial decentralized method.

Validator

See minipool.

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