

Restaking and EigenLayer: How Shared Security Works

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Ethereum's proof-of-stake system requires validators to lock 32 ETH as collateral, which is slashed if they behave dishonestly. This staked ETH secures the Ethereum base layer, but until recently that collateral could not simultaneously secure other protocols. Restaking changes that by allowing staked ETH to be reused as cryptoeconomic security for additional networks and applications.

What Restaking Actually Does

When a validator restakes, they opt into additional slashing conditions beyond those enforced by Ethereum itself. In exchange for taking on this extra risk, they earn additional yield from the protocols they help secure. The staked ETH does not move — it remains in Ethereum's consensus layer — but the validator's withdrawal credentials are pointed to a restaking contract, giving that contract the ability to slash the validator's stake if they violate the rules of the additional protocol.

This creates a mechanism where the economic security of Ethereum — currently over \$100 billion in staked ETH — can be extended to smaller systems that could not independently attract sufficient validator collateral to be trustworthy.

EigenLayer's Architecture

EigenLayer is the dominant restaking protocol on Ethereum. It introduces two key actors: operators and Actively Validated Services (AVSs). Operators are node runners who register with EigenLayer and agree to run the software for one or more AVSs. AVSs are the protocols that consume the shared security — examples include data availability layers, oracle networks, cross-chain bridges, and sequencer networks.

Stakers can either run their own operator node or delegate their restaked ETH to a third-party operator. The delegation model allows passive ETH holders to participate without running infrastructure. When an operator misbehaves with respect to an AVS's rules, a slashing event can be triggered, reducing both the operator's stake and the stake of delegators who chose that operator.

EigenLayer launched on Ethereum mainnet in 2024, initially without live slashing enabled. The full slashing mechanism was activated later as the protocol matured and audits were completed.

Risks and Economic Tradeoffs

Restaking introduces compounding slashing risk. A validator who opts into multiple AVSs faces independent slashing conditions from each one. If an AVS has a bug in its slashing logic, or if an operator makes an honest mistake, the penalty falls on both the operator and their delegators. This risk is not purely hypothetical — complex slashing contracts expand the attack surface considerably.

There is also a systemic concern. If a large fraction of Ethereum's staked ETH is restaked and an AVS triggers a mass slashing event, the resulting ETH sell pressure and validator exits could affect Ethereum's own security budget. Researchers at the Ethereum Foundation have noted this as a potential contagion vector.

For AVSs, restaking offers a faster path to credible security than bootstrapping their own token-based validator set. For stakers, it offers yield above the baseline Ethereum staking rate. Whether the additional yield adequately compensates for the additional risk depends heavily on which AVSs an operator chooses and how carefully their slashing conditions are designed and audited.

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BIP39 MNEMONIC COLLECTION

The archive section of this document contains 66 generated word sequences illustrating the BIP39 format.

BIP39 MNEMONIC COLLECTION

- 1) toast gown error fitness outside
diet tortoise evidence alpha congress
program square
- 3) size tip raw speed high gun family
bright avoid resist bridge tomorrow
- 5) banner club spray unhappy office
pluck tank coconut noise endless creek
possible
- 7) usual celery chimney hill twice
infant judge leopard fatigue select
leaf member
- 9) ticket dust ritual base potato
possible repair guard arrive color art
rebuild
- 11) boss skull hotel actress outer test
wheel camera village duty receive piano
- 13) van judge trouble agent word blush
person glare nasty rival wise company
- 15) cloth logic beef glide unveil
mechanic injury degree garage exclude
oblige bomb
- 17) answer wheel color spike marine
outdoor power pride pact analyst search
coffee
- 19) helmet girl save burger network
plug couch awful unhappy edge subject
affair
- 21) can thrive taxi vacuum drum method
panel inmate define author tiny token
- 23) exit warfare park seek funny often
napkin page boil grocery young busy
- 25) romance nephew present blast blush
moral install crystal put opera silent
sun
- 27) retreat flame average explain
recipe practice accuse exclude blade
speak round symbol
- 29) visual multiply cry yard bitter
attitude always violin vacuum position
shed direct
- 2) canyon urge danger quarter carry
antique census hidden proof file foster
bag
- 4) legal vital potato crush again arch
solar solid guilt life stay robot
- 6) bag galaxy else typical sunset this
need lift manage boring ticket sausage
- 8) intact peanut payment sniff mandate
act emerge clinic holiday height tilt
sister
- 10) lumber mesh diesel gold excuse
plunge this catch dash bleak wash faint
- 12) risk oppose gap crowd initial brain
pause denial stable insect taste agent
- 14) sort uniform quality hold tooth
silly pumpkin inner bunker host
broccoli mouse
- 16) ankle feel fun skill kidney sport
bullet hole fashion half hello educate
- 18) load reveal cactus home advice
hurdle lottery one clown bicycle tip
pear
- 20) emerge snake differ online tragic
empty sea blur cute tongue luggage
school
- 22) season orient tobacco ring scissors
corn segment fancy tongue drive horror
key
- 24) large uniform like shine crucial
require either rapid voice brush live
mandate
- 26) arrow number alone process early
scout erase happy please tail narrow
slush
- 28) fabric receive nation eagle retreat
must desk exact awkward scare heavy
ethics
- 30) pumpkin typical amateur bronze flip
inside sign glad crack distance auto
labor

BIP39 MNEMONIC COLLECTION

31) cotton purity soldier hazard scare
old budget mention globe stove leopard
fix

33) addict crack bus guide coast reward
hard margin actor grunt reform comic

35) feed name source essay lens kiwi
wing fitness dog sweet room remove

37) mutual victory diamond vicious
rifle group disagree slice vocal size
velvet source

39) cargo whale judge hotel humor later
spike guess there asthma book genuine

41) predict width concert idea direct
choose virtual balcony say safe addict
brief

43) lobster double culture device you
alter fuel congress funny bid label
inquiry

45) limb cage luggage frown payment
piano solid eyebrow hurdle avoid bring
asthma

47) dog dance toe rail square casual
obvious gap dutch hub trophy bless

49) expand devote angry modify donkey
gloom jungle prevent until tip measure
parrot

51) student industry slow sphere
section empty pluck raise arch volcano
hurt tube

53) hollow tail common exhibit gravity
thought dash rival equip retire miracle
wonder

55) pet winner economy kind dragon
music bulb dolphin rigid defense camera
baby

57) army violin brand climb uncle hard
high unfair type next insane gospel

59) faculty swap journey fork clerk
hope excuse list silver floor venture
holiday

32) envelope captain response marriage
dust cliff fox spatial afford giant
clown jar

34) pretty crash alarm hen egg chair
deer provide present soccer rule stool

36) imitate heavy clock frown summer
worth priority upgrade father piano
cheap fortune

38) muscle left taste focus witness
expire whip tobacco message kitten
kidney blush

40) fit limb grocery ecology fluid
consider strike away spin nominee
cannon current

42) crime either educate apology
security level believe nothing december
breeze rhythm noodle

44) chaos teach cabbage act garden
cousin minor tribe used actor cake
ocean

46) merry assault cube chimney range
bamboo divorce hand energy frown
vicious inspire

48) gown just snap vessel reunion elder
typical age arctic attitude dynamic
apart

50) derive stomach lake grain lamp
spread february ethics nature clip
critic pause

52) key original number price knife
host acoustic hollow mistake dune oil
pretty

54) detail bounce increase believe want
wagon head over cactus sense object
school

56) key catch always motor govern belt
sugar climb acid skull match venue

58) anger bundle swift plunge joke
eternal cat gap kiss unusual often nice

60) myself test mosquito saddle stairs
govern police kid torch year modify
fatal

BIP39 MNEMONIC COLLECTION

61) congress junk antique receive page
route desk thing skate expand supreme
holiday

63) prevent dove buffalo physical argue
option easily raccoon used timber
empower man

65) artist action sample leopard car
alien parade cave improve sleep
sentence jelly

62) loud eye proof skill syrup beef
spot echo include town siren differ

64) image network country gold occur
coffee nephew express path whale
biology ginger

66) skirt pitch ability hybrid dumb
renew possible item program spot
reflect maximum

SEE ALSO

– [Restaking and EigenLayer Shared Security: Unlocking Modular Blockchain Innovation](#) — BIP39 Seed Phrases (May 31, 2026) (2026-05-31)

– [How Whale Movements Affect Crypto Prices](#) — BIP39 Seed Phrases (June 24, 2026) (2026-06-24)

– [The Rise of Play-to-Earn Crypto Games: Revolutionizing Digital Entertainment](#) — BIP39 Seed Phrases (April 13, 2026) (2026-04-13)

– [what-is-infura-bip39-phrase_2025-11-12.pdf](#) (bip39-phrase_2025-11)

Educational examples only. Randomly generated, not valid wallet phrases - never use them to store funds. Details: bip39-phrase.com/security/

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