

Upgrade	Description	On/Off Chain	Scaling Improvement	# Known People Working on It	Status	Optimistic Launch Date
Increase gas limit	Miners increase gas limit	On chain	2-8x	2-10	Waiting for miner adoption	mid 2017
Parallel process transactions	Transactions can be processed by nodes simultaneously instead of one by one	On chain	2-8x	1-3	Concept	late 2017
Swap virtual machines	Swapping the Ethereum virtual machine (EVM) for web assembly (WASM)	On chain	3-10x	1-2	Code in progress	2018
Proof of stake	Changing consensus algorithm from proof of work to proof of stake	On chain	2-5x	3-5	Code in progress	late 2018
Payment channel networks	Parties exchange signed transactions off chain, allowing infinite transactions with only an initial and closing transaction on chain	Off chain	10-100x+	4-8	Code in progress	2018
Truebit	Off-chain smart contract execution through a verification game with dispute resolution	Off chain	10-100x+	2-5	Concept	2018
Plasma	Tree hierarchy of blockchains where only fraud proofs are reported up the tree	On chain	10-100x+	2-5	Concept	2019
Sharding	Validators only need validate some, not all, of the network's transactions	On chain	10-100x+	--	Unlikely before proof of stake	2019

2014

	Web 2.0	Web 3.0 (dApps)	Status
Scalable computation	Amazon EC2	?	Not started
File storage	Amazon S3	?	Not started
External data	3rd party APIs	?	Not started
Monetization	Ads, selling goods	?	Not started
Payments	Credit Cards, Paypal	Bitcoin	Ready

2017

	Web 2.0	Web 3.0 (dApps)	Status
Computation	Amazon EC2	Ethereum, Truebit	In progress
File storage	Amazon S3	IPFS/Filecoin, Storj	In progress
External data	3rd party APIs	Oracles (Augur)	In progress
Monetization	Ads, selling goods	Token model	Ready
Payments	Credit Cards, Paypal	Ethereum, Bitcoin, state channels, 0x	Ready