

# OP Stack Preinstalls

This guide explains OP Stack preinstalls and what it brings to developers. To go to production on a new chain, developers need their core contracts: Gnosis Safes, the 4337 entrypoint, create2deployer, etc. On a blank EVM, these contracts can take weeks to be deployed. Now, core contracts come preinstalled on the OP Stack -- no third party deployment necessary. Whether hacking alone or starting the next big rollup, developers can start using their favorite contracts as soon as they spin up their chain.

Preinstalls place these core smart contracts at their usual addresses in the L2 genesis state, to ensure that they're usable as soon as a chain is initialized. With these contracts preinstalled at set addresses, developers can also expect all these contracts to be present at set addresses on the Superchain.

Preinstalls are automatically enabled for all new OP chains after Ecotone.

## Contracts and Deployed Addresses

This table lists the specific contracts to be pre/deployed for new OP Chains.

Contract	Deployed Address for New OP Chains
<a href="#">Safe</a> ( <a href="#">opens in a new tab</a> )	referencing the <a href="#">artifacts file</a> ( <a href="#">opens in a new tab</a> )
<a href="#">SafeL2</a> ( <a href="#">opens in a new tab</a> )	:0x69f4D1788e39c87893C980c06EdF4b7f686e2938
<a href="#">Multicall3</a> ( <a href="#">opens in a new tab</a> )	0xfb1bffC9d739B8D520DaF37dF666da4C687191EA
<a href="#">MultiSend</a> ( <a href="#">opens in a new tab</a> )	0xcA11bde05977b3631167028862bE2a173976CA11
<a href="#">MultiSendCallOnly</a> ( <a href="#">opens in a new tab</a> )	0x998739BFdAAde7C933B942a68053933098f9EDa
<a href="#">create2 Proxy</a> ( <a href="#">opens in a new tab</a> )	0xA1dabEF33b3B82c7814B6D82A79e50F4AC44102B
<a href="#">create2deployer</a> ( <a href="#">opens in a new tab</a> )	0x4e59b44847b379578588920cA78FbF26c0B4956C
<a href="#">Safe Singleton Factory</a> ( <a href="#">opens in a new tab</a> )	0x13b0D85CcB8bf860b6b79AF3029fCA081AE9beF2
<a href="#">permit2</a> ( <a href="#">opens in a new tab</a> )	0x914d7Fec6aaC8cd542e72Bca78B30650d45643d7
<a href="#">ERC-4337 Entrypointv0.6.0</a> ( <a href="#">opens in a new tab</a> )	0x000000000022D473030F116dDEE9F6B43aC78BA3
	0x5FF137D4b0FDCD49DcA30c7CF57E578a026d2789

SenderCreator dependency @0x7fc98430eaedbb6070b35b39d798725049088348 on ETH mainnet

## Resources and Next Steps

- Still Have Questions? You can reach us in our [developer support forum](#) ([opens in a new tab](#))
- [BindGen CLI tool](#) ([opens in a new tab](#))
- Interested in adding your own Preinstalls? Check out the [Contracts that Don't Make Good Preinstalls](#) ([opens in a new tab](#))
- and be sure to read the note about [Contracts that Don't Make Good Preinstalls](#) ([opens in a new tab](#))
- before starting this process.

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