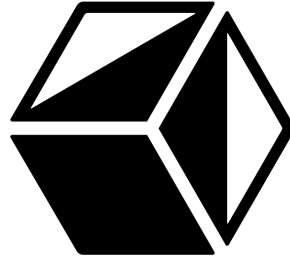


Hardhat 3 Preview: Overhauled & Rust-Powered



Hardhat



**NOMIC
FOUNDATION**





Hardhat

Hardhat 2's limitations

- ❑ Ethereum changed
 - Larger applications
 - Ecosystem of chains with different behavior
- ❑ Performance
- ❑ JS-only tests
- ❑ Single chain model



The background of the slide features a repeating geometric pattern of interlocking cubes or isometric shapes. On the left side, the pattern is rendered in a vibrant yellow color, while on the right side, it transitions to a soft purple hue. The central area of the slide is a plain, light cream color, providing a clean backdrop for the title text.

Hardhat 3



Hardhat 3

- ❑ Network simulation rewritten in Rust
- ❑ Solidity tests support
- ❑ Comprehensive & headaches-free deployments
- ❑ Ergonomically work with multiple chains
- ❑ Correct simulation of OP Stack chains





**Rust
core
(EDR)**



TS interface
(Hardhat)



Solidity tests



Hardhat Ignition

```
export default buildModule("MyModule", (m) => {  
  const parent = m.contract("Parent", ["P"]);  
  
  const child = m.contract("Child", ["C"]);  
  
  m.call(parent, "addChild", [child]);  
  
  return { parent, child };  
});
```

Hardhat Ignition

- ❑ Automatically executes your deployment
- ❑ Parallel execution
- ❑ Recovers from errors
- ❑ Gas fee management
- ❑ Incremental module updates



Multi-chain support

```
const { viem } = await network.connect("mainnet");
```

```
const { viem: opViem } = await network.connect("edrOp", "optimism");
```

Project status



Hardhat

Learn more!



**Nomic talks
@ Devcon**



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