




// CHAINLINK DEVELOPER EXPERTS

Deploy Your First Smart Contract and Consuming Data Feeds



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Agenda

1. Install and Fund MetaMask
2. Deploy Our First Smart Contract on Remix
3. What is Chainlink?
4. Deploy our Second Smart Contract Consuming Data Feeds
5. Wrap up and more info!



// Building Cross-Chain with CCIP

Install and Fund Metamask



Tutorial Documentation

<https://docs.chain.link/quickstarts/deploy-your-first-contract>



What Is Chainlink?

Oracles

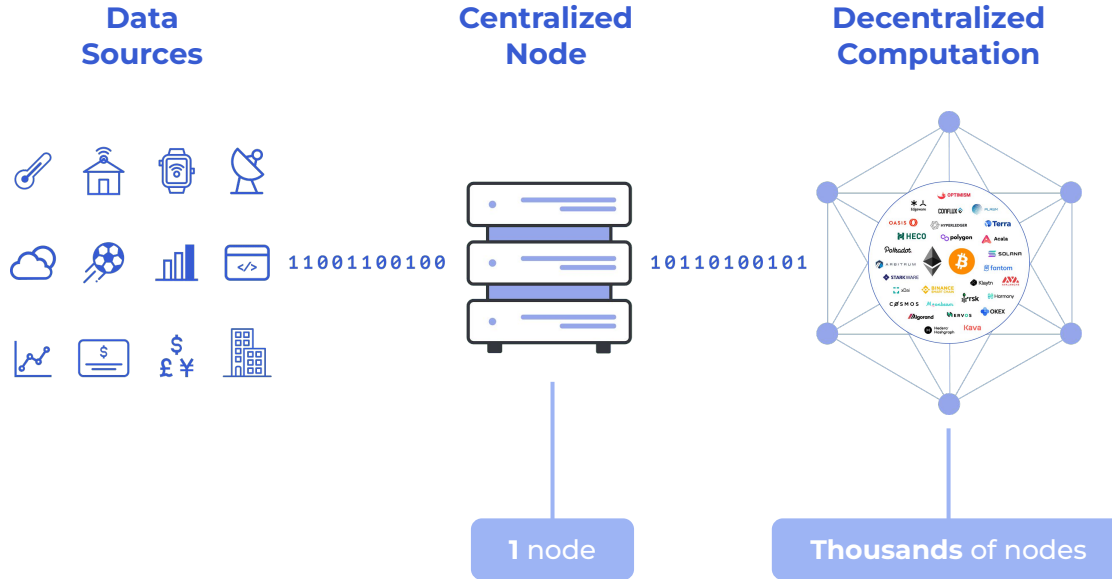
The solution to the oracle problem



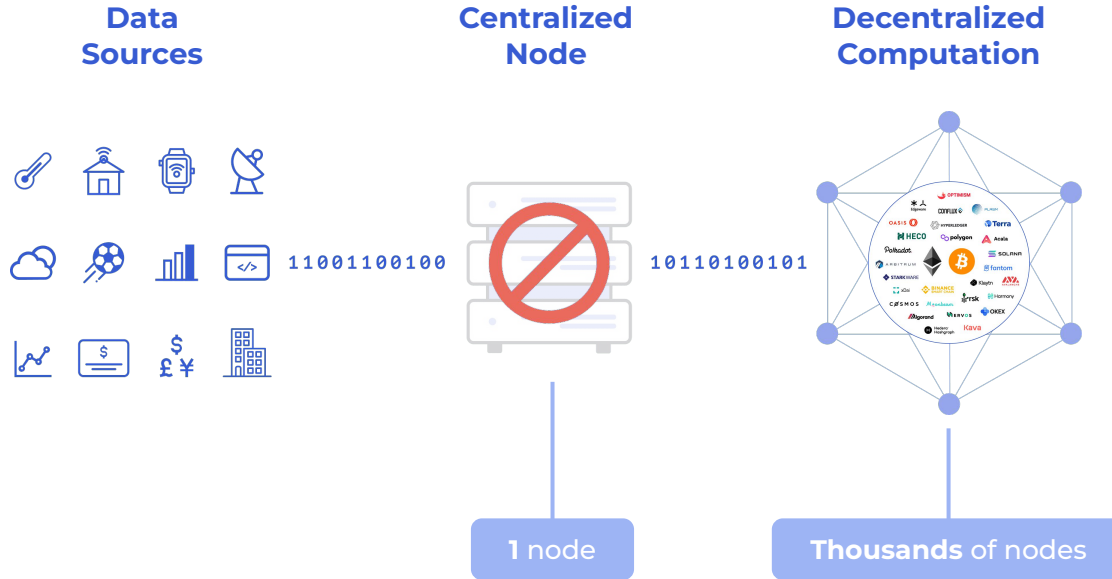
The solution to the Oracle Problem: Consensus and global state gives us the source of truth



Centralized Oracles are a Point of Failure



Centralized Oracles are a Point of Failure



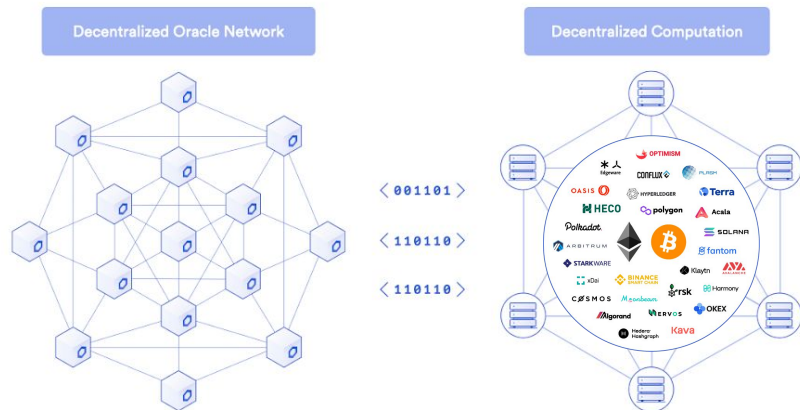
A Decentralized Oracle Network

Decentralization

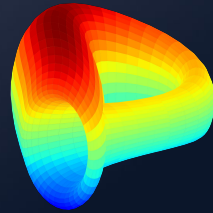
Full replicas run by independent and sybil resistant node operators.

Focused on data validation and consensus.

Node Operators are security reviewed, can provide a proven performance history and are high quality and highly sybil resistant.



Data Feeds



**Secure and reliable access to
real world data**



Chainlink VRF

(Verifiable Random Function)

Provably Random Numbers

Securing randomness for your applications



Chainlink Automation

Decentralized event-driven
execution



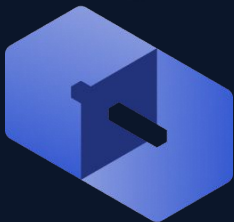
Chainlink Functions

Any data from any API and
custom compute

```
• // Fetch your data from one or more APIs
• const weather = await Functions.makeHttpRequest({
•   url: `https://example.com?loc=bali&key=${secrets.key}`})
•
• // Run any custom compute needed
• const baliDegree = Math.round(weather.data["temp"] * 100)
•
• // Write data to the blockchain using decentralized
• oracles
• return Functions.encodeUint256(baliDegree)
•
```

Chainlink Cross Chain Interoperability Protocol CCIP

Secure cross-chain applications





// Deploying our Second Smart Contract

Consuming Data Feeds

- Walkthrough our Second Smart Contract
- Compile and Deploy!

Consuming Data Feeds Tutorial Documentation

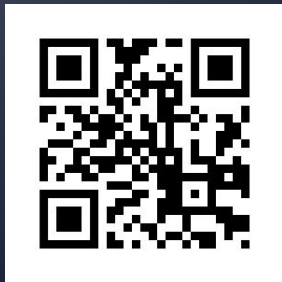
<https://docs.chain.link/data-feeds/getting-started>



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Thank you!

Telegram



Discord



Presentation



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