What is Chainlink VRF?

@rgottleber
richard.gottleber@chainlinklabs.com
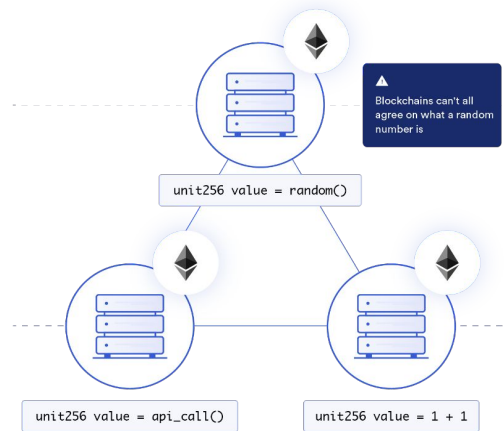
Chainlink

Consensus

Deterministic

unit256 value = 1 + 1

unit256 value = 1 + 1

unit256 value = 1 + 1
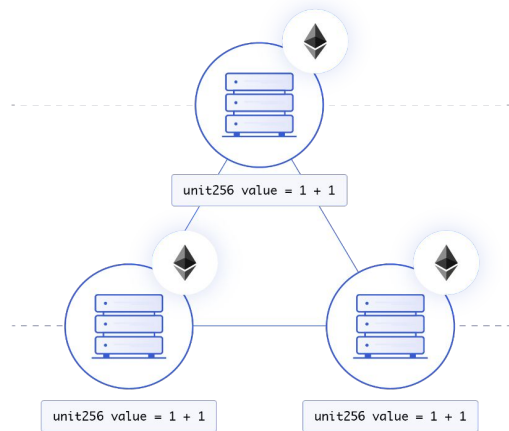
✓ Consensus reached

Non-deterministic

⚠ Blockchains can't all agree on what a random number is

unit256 value = random()

unit256 value = api_call()

unit256 value = 1 + 1
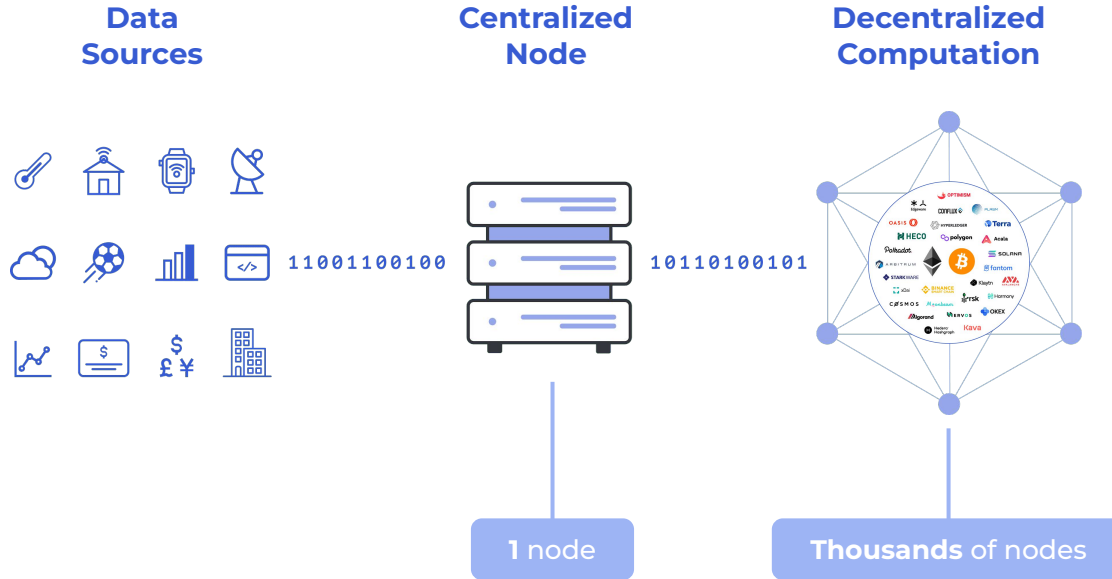
⚠ Blockchains can't all agree on API calls

✗ Consensus not reached

Chainlink

The Solution to the Smart Contract Connectivity Problem

Centralized Oracles are a Point of Failure

Data Sources

Centralized Node

Decentralized Computation

11001100100

10110100101

1 node

Thousands of nodes

Chainlink

Centralized Oracles are a Point of Failure

Data Sources

Centralized Node

Decentralized Computation

11001100100

10110100101

1 node

Thousands of nodes
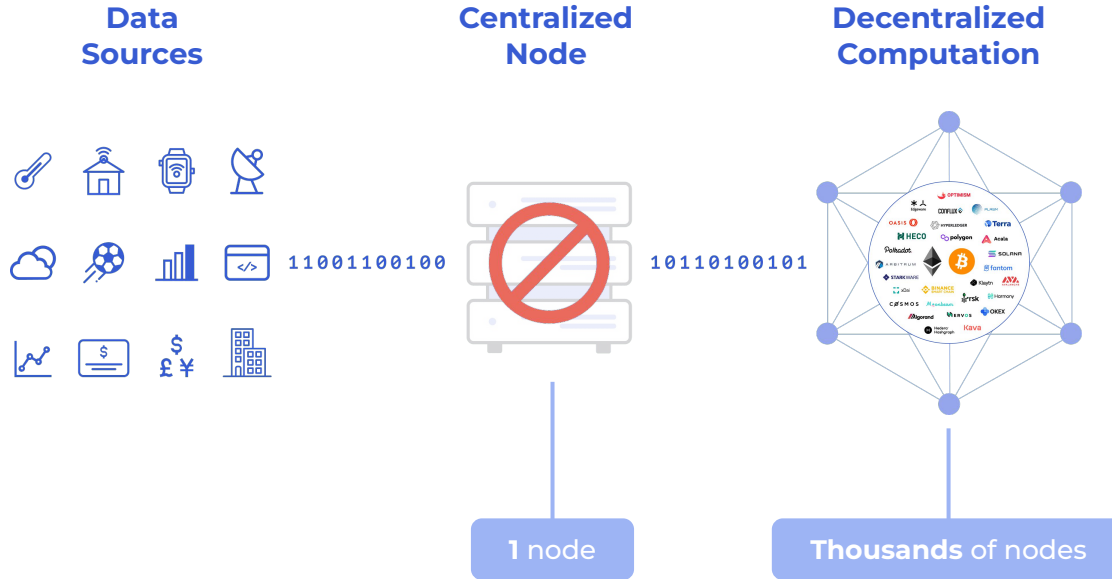
Chainlink

Reaching Consensus
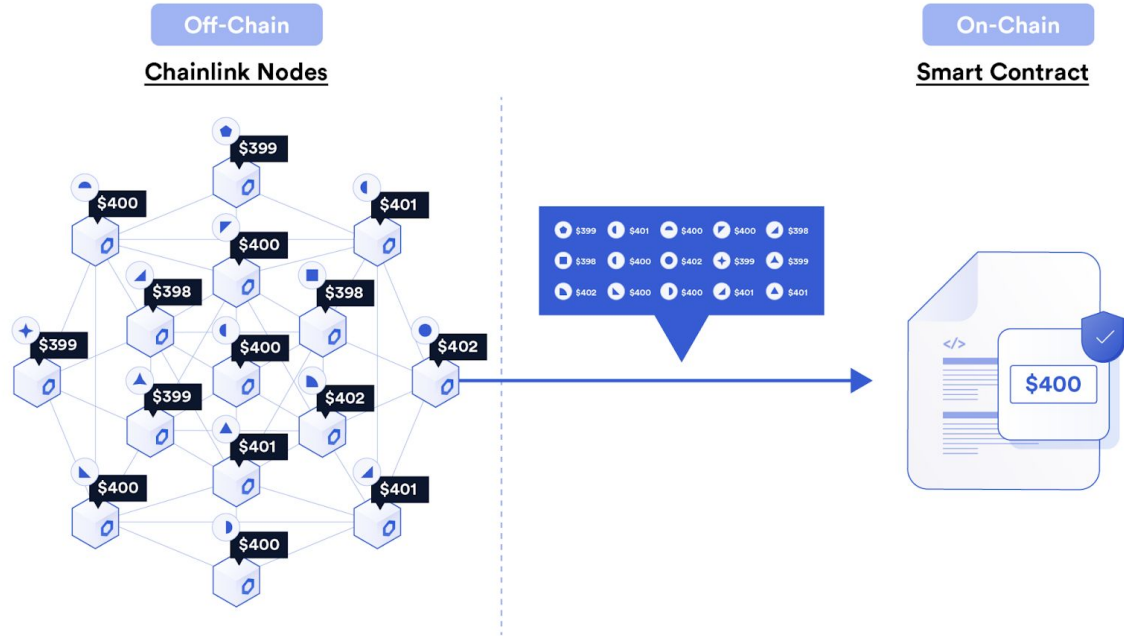
What Does Chainlink Offer?
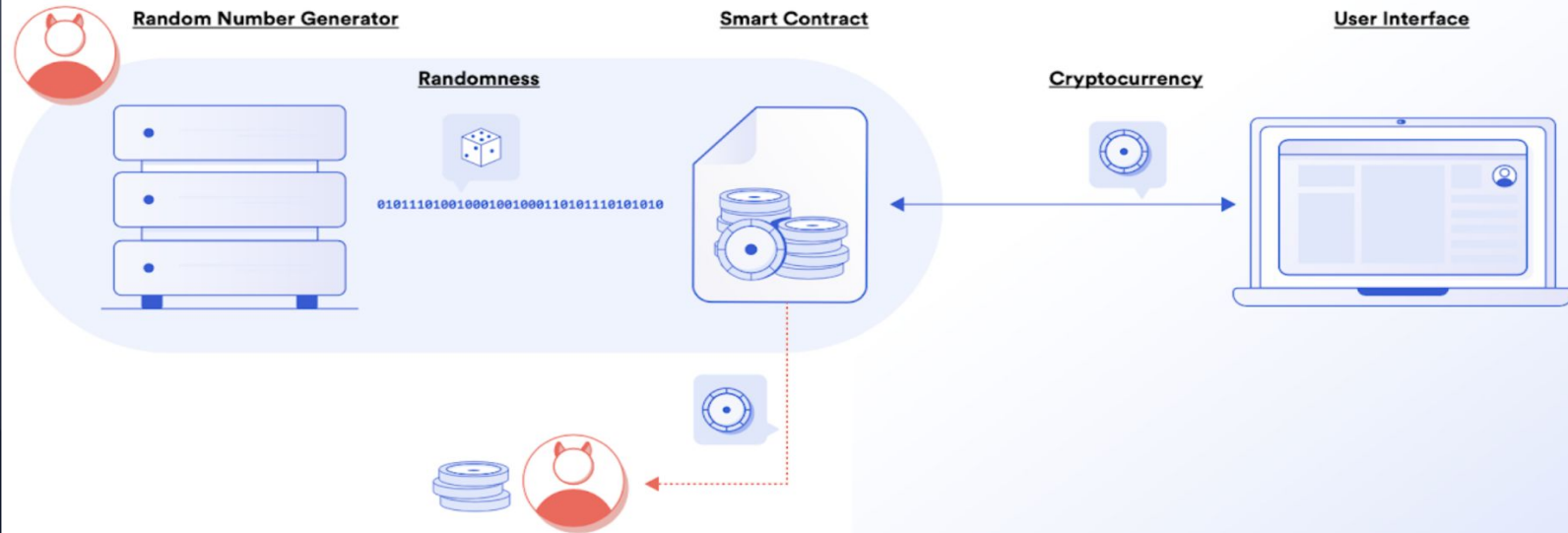
Data Feeds

VRF

Keepers

Chainlink

Chainlink VRF

Securing randomness for your applications

Chainlink

Malicious RNG Operators Are A RISK

Selecting Lottery Winners

Random Traits

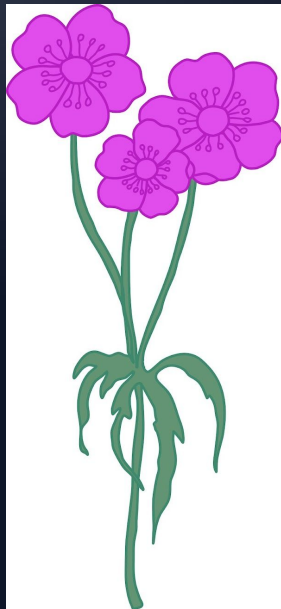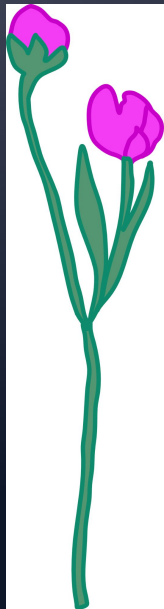# DEMO TIME!

Goals

- Leverage the Chainlink Docs

- Build a Smart Contract using VRF

- Create a dynamic NFT

- Make it Random with VRF

https://bit.ly/talk-links

Chainlink

DEMO TIME!

https://bit.ly/talk-links

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Where to go from here

Discord Chat
http://chn.lk/chainlink-discord

Documentation
http://docs.chain.link

Starter Kits
https://github.com/smartcontractkit

Chainlink Academy
https://www.chainlink.education/

Chainlink