

# web2 开发者如何更好进入web3

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by lxcong

# About Me

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**Developer DAO #5882**

**Developer of Chainbase**

**Ex 鹅厂, B站**

**10+ 工程效能,OPS 相关经验**



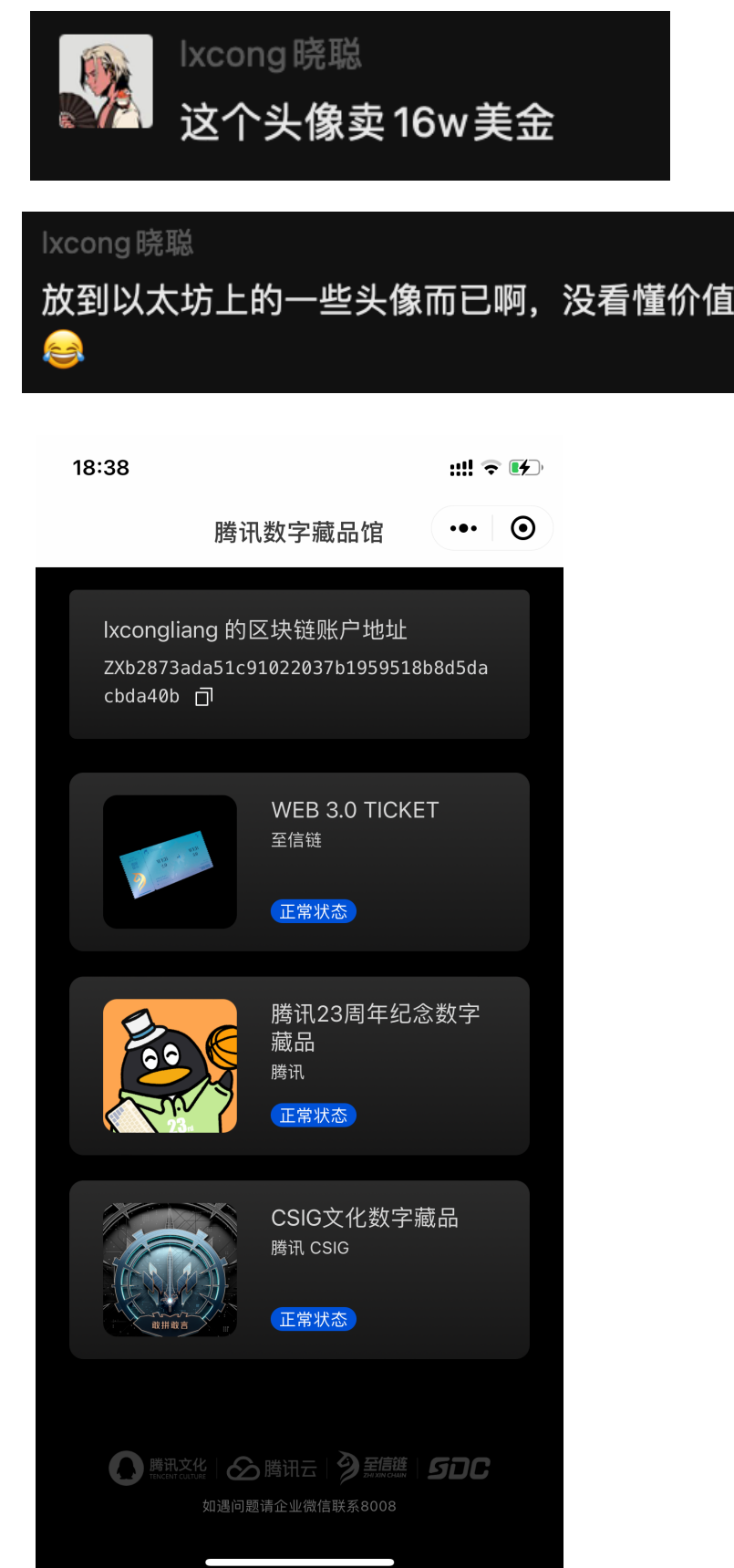
# 个人经历

## 作为用户

- 加密，满足**投机需求**

## 破圈

- CryptoPunks
- 鹅厂的星星之火
  - 23周年纪念
  - 活跃的群聊
  - 跨组织虚拟团队



## 作为程序员

- 参与方式?
  - 科学家/黑客
  - KOL
  - **开发者(Builder)**

## 参加Hackathon的感受

- 产品路演
- 公链生态活力



# 遇到的挑战1

## web2开发者对于范式的改变

## 1. 理念 + 方式

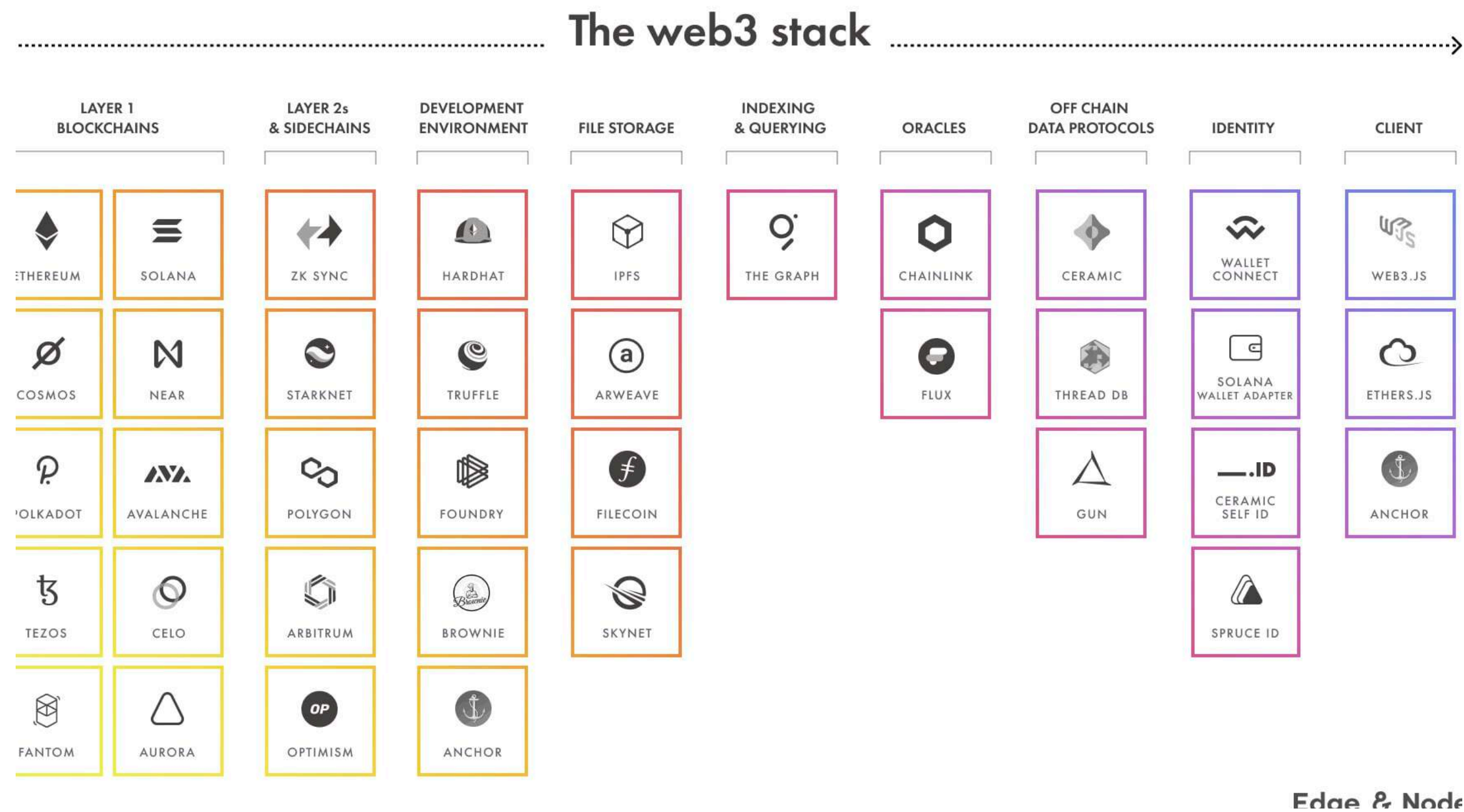
- 什么该做，什么不该做，如何做
- 举例：去中心化，取舍问题
  - 如何满足工业级应用：质量，效率
    - 去中心化的程度？
  - 链下数据是强诉求：市场价格等

# 遇到的挑战2

## 多链带来的开发者成本

# 1. 去中心, 安全性, 扩展性 -> 公链生态繁荣 -> 增加选择成本

- L1,L1s,L2
  - 权衡 -> 适用场景
    - 举例: Optimistic Rollups , ZK Rollups
- 长期的多链趋势
  - 市场行为决定
  - 参考web2的技术栈的发展轨迹



## Summary of Layer 2 Scaling Solutions ...

Project	Scaling Tech	Specificity	EVM Compatible	L1 Finality
Starknet	zk rollup	general	No	Instant
Offchain Labs (Arbitrum)	optimistic rollup	general	Yes	7 days
Optimism	optimistic rollup	general	Yes	No (7 days)
MatterLabs (zkSync)	zk rollup	general	Yes	Instant
Loopring	zk rollup	application-specific	Yes	Instant
Aztec	zk rollup	application-specific	-	Instant
Cartesi	optimistic rollup sidechain	general	No	Slow
Hermez (Polygon)	zk rollup	general	Yes	Instant
Mir (Polygon)	zk rollup	general	Yes	Instant
Miden (Polygon)	zk rollup	general	Yes	Instant

# 遇到的挑战3

## Front-End无法满足需求

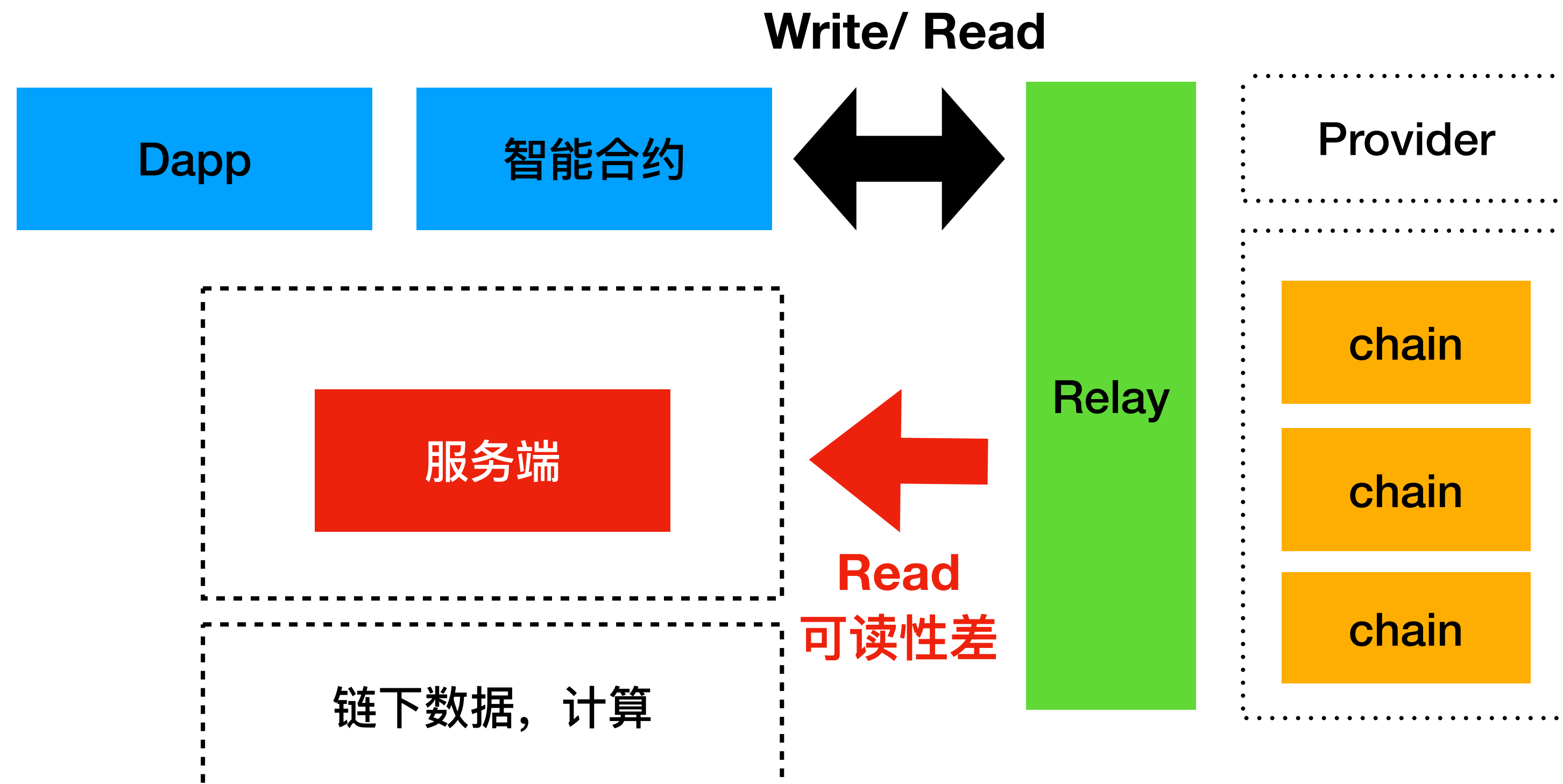


## 部分“中心化”原因

- 链上状态存储成本高
- 吞吐量
- 体验

## 区块链数据可读性

- 索引, 排序, 过滤, 分页, 搜索
- 预计算, 多级索引



# 我们的解法

## Chainbase 是一个 Web3 开发者平台

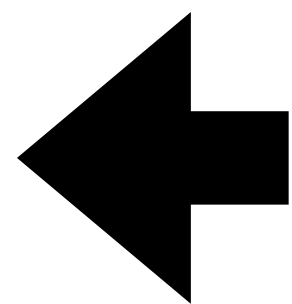
- 我们通过提供云化的 **API 服务**帮助开发者**快速接入加密网络**，轻松构建 Web3 原生应用
- 具体包括**多链节点、数据索引、应用监控和调试**等服务

## 推出了一系列用于解决“与链交互”的 API 产品

- Chain API Service: 提供安全稳定的多链节点 JSONRPC 集群支持，轻松访问多链网络
- Web3 API Service: 支持多种协议索引，快速支持业务应用场景（如Token、NFT、DeFi、Domain...）数据查询
- All-In-One Dashboard: 通过一站式控制台完成创建、调试、监控和运维 Web3 应用程序



官网: <https://chainbase.online>

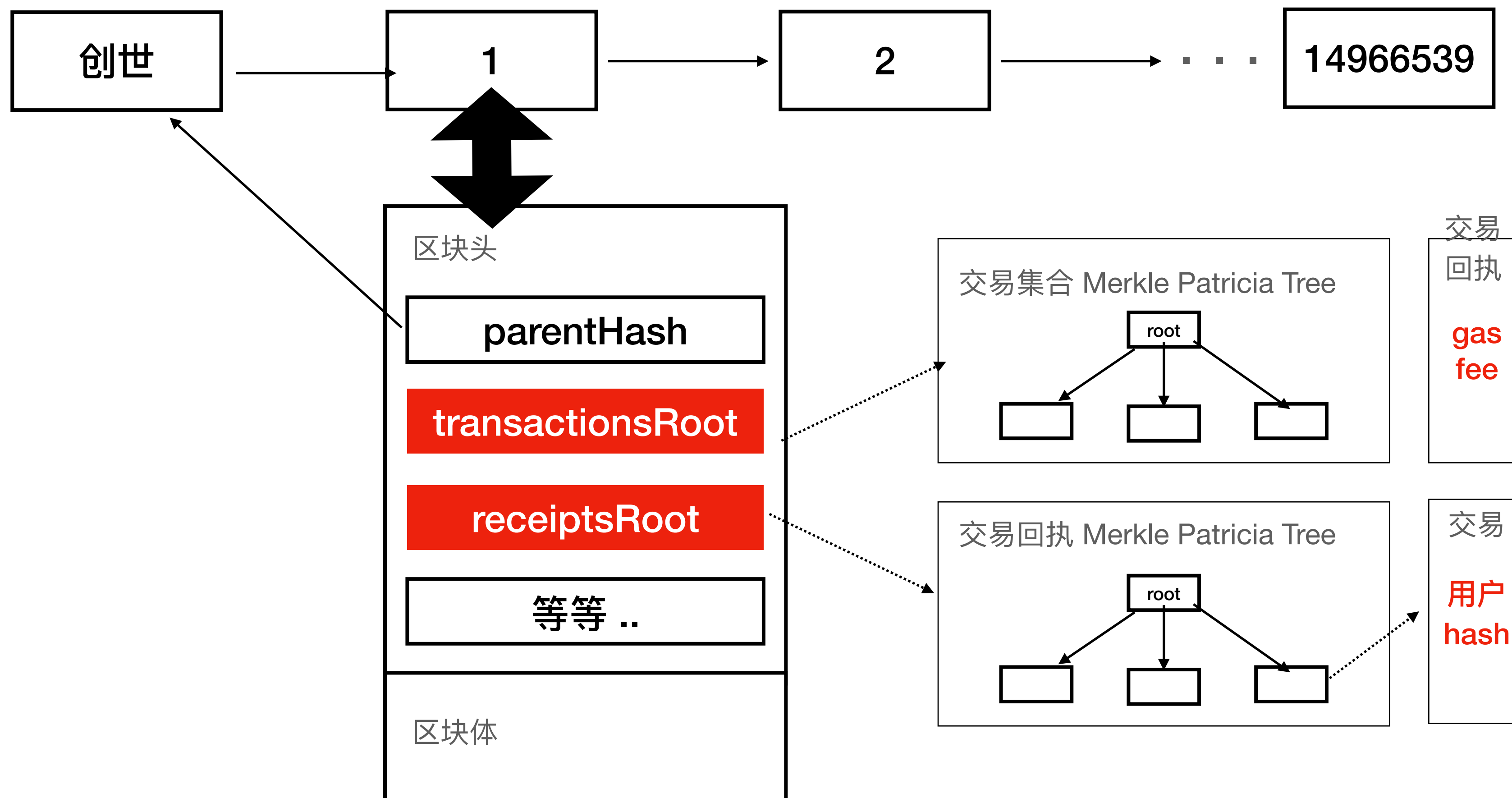


扫这里

# 案例一：加密用户历史交易的gas fee

非常Cool的Partner 诉求

\$1CC是为加密消费者/贡献者而创造的加密货币



方法一：基于chain节点RPC

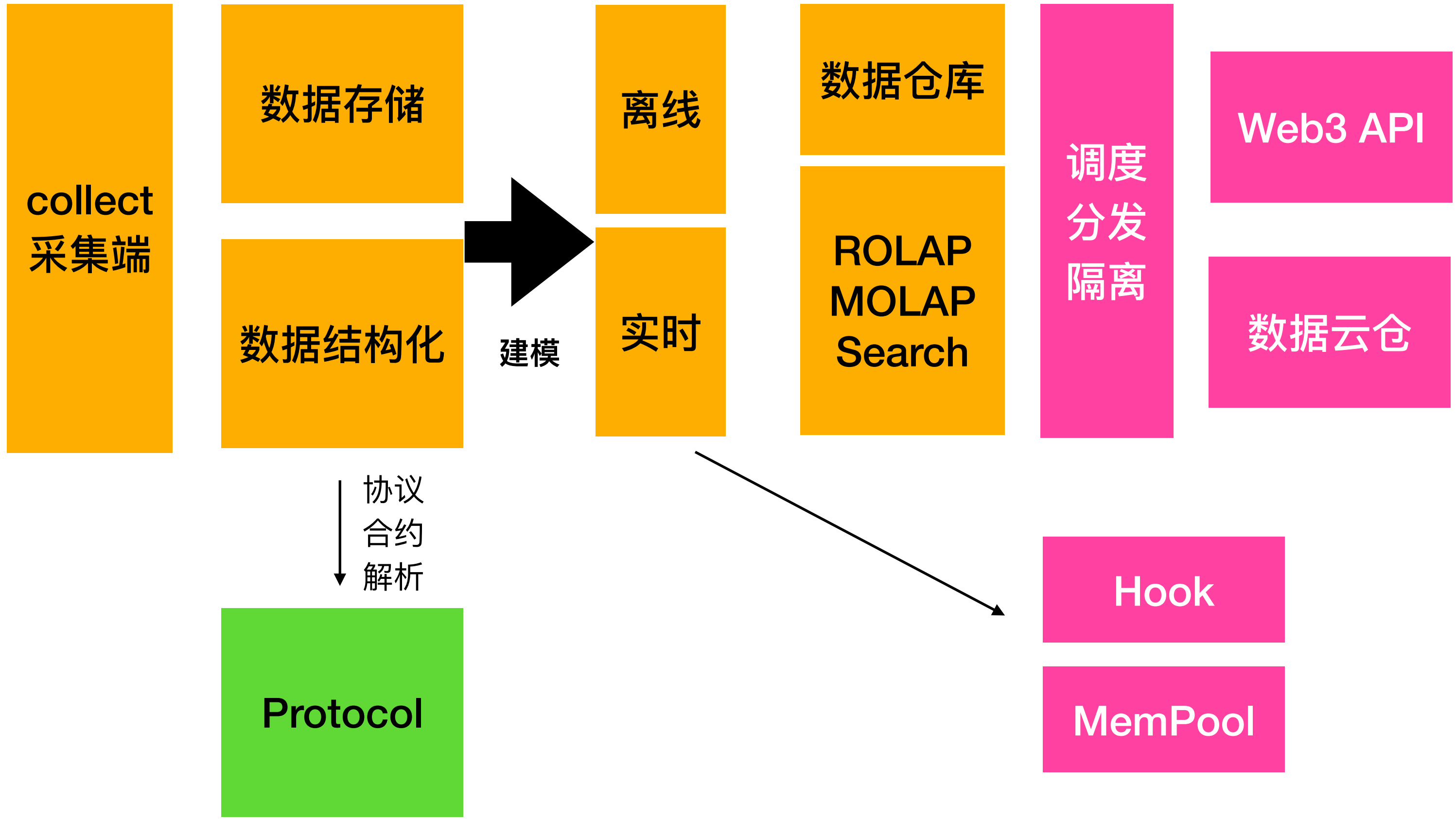
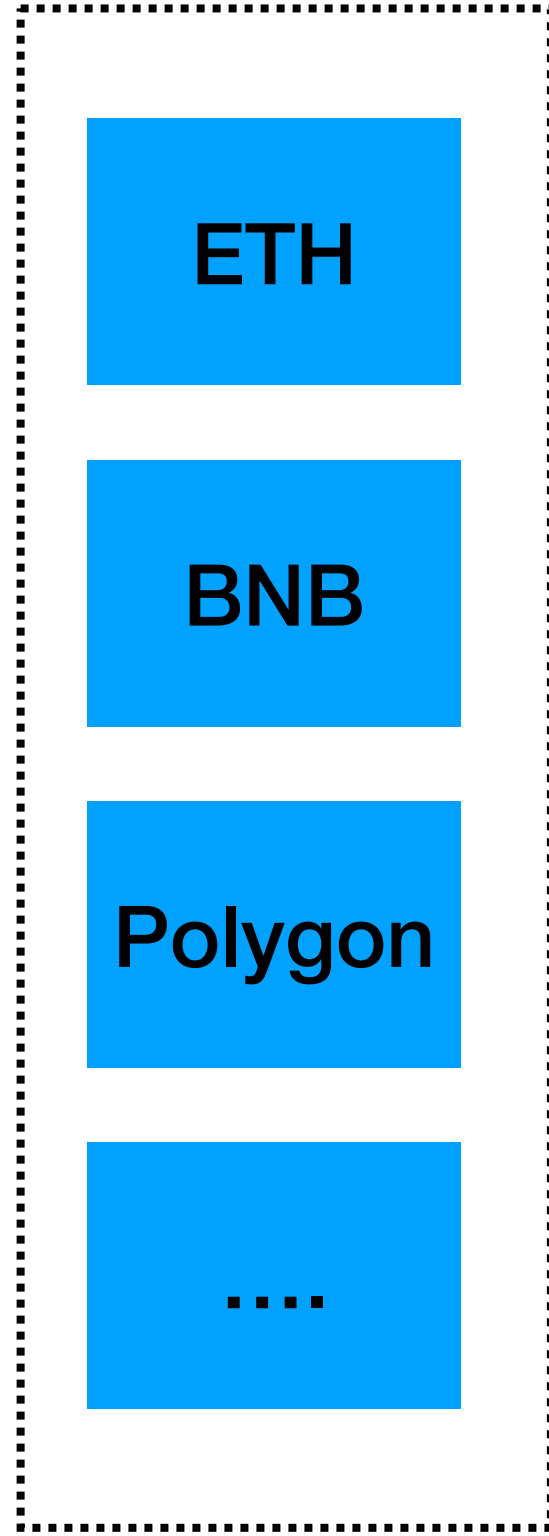
- 遍历block,tx,receipt
- 效率极低

方法二：基于第三方服务

- gcp bigquery
  - 贵，非crypto
- web3 data analysis
  - 不提供API
  - 大部分D+1，非实时

# Chainbase: web3 api & data warehouse

## chain节点



1. 数据可读
  - 结构化
  - 协议解析
2. 实时仓库
  - 毫秒响应
  - 多维分析
  - 多级索引, 物化视图
3. 开发者大量长尾需求
  - 建设数据云仓

```
Sent BaseGetGasFeeHistry
GET /v1/account/fees/history 200
591 ms
```

```
HTTP/1.1 200 OK
Date: Wed, 15 Jun 2022 07:58:39 GMT
Content-Type: application/json
Transfer-Encoding: chunked
Connection: close
Access-Control-Allow-Credentials: true
Access-Control-Allow-Headers: *
Access-Control-Allow-Methods: POST, OPTIONS, GET, PUT
Access-Control-Allow-Origin: *
X-Request-Id: c8d477e-6e4a-423b-809a-e5c8d11db3
E-Cache-Status: 0/MWIC
Expect-CT: max-age=604800, report-uri="https://report-uri.cloudflare.com/cdn-cgi/beacon/expect-ct"
Report-To: [{"group": "cf-nel", "max_age": 604800}], [{"group": "cf-nel", "max_age": 604800}]
NEL: {"success_fraction": 0, "report_to": "cf-nel", "max_age": 604800}
X-Content-Type-Options: nosniff
Server: cloudflare
E-RAY: 719b30794924d3-WG
alt-svc: h3="443", ma=86400, h3-29="443", ma=86400

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```

# 未来展望

L1 -> L2 -> L“n” -> dapp



# Thanks for watching~

c h a i n b a s e . o n l i n e

