Ethereum Name Service
What is ENS?

- Map human-readable names to resources
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  - Ethereum accounts and contracts
  - Swarm & IPFS records
  - Public keys
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- Distributed lookup service
  - Resistant to DDoS attacks
  - Transparent transactions
  - Upgradeable
ENS Architecture

ENS Registry

```
eth
  • owner: 0x1234...

inigomontoya.eth
  • owner: 0x34567...
  • resolver: 0x45678...

metamask.eth
  • owner: 0x56789...
  • resolver: 0x67890...

alice.metamask.eth
  • owner: 0x7890A...
  • resolver: 0x890AB...
```

Resolvers
Name resolution in ENS

User -> resolver('foo.eth')

Registry

Resolver

0x1234...
Name resolution in ENS

User → Registry

- resolver('foo.eth') → 0x1234...
- addr('foo.eth') → 0x2345...

Registry → Resolver
ENS Soft Launch
As of 2017-07-31

180,822 Names auctioned

Ξ168,595 Ether deposited
First ENS Workshop
August 2017

- 27 participants
- 3 days of discussion, covering:
  - Dispute resolution
  - Permanent registrar design
  - Securing subdomains
  - DNS integration
DNS integration via DNSSEC

# . DS SHA256
.

# xyz. DS SHA256
xyz.

# ethlab.xyz. DS SHA256
ethlab.xyz.

_ethlab.xyz. DNSKEY RSA

_ens.ethlab.xyz. TXT a=0x...
DNSSEC Oracle

User

proof

Oracle
Thank you, and stay tuned...