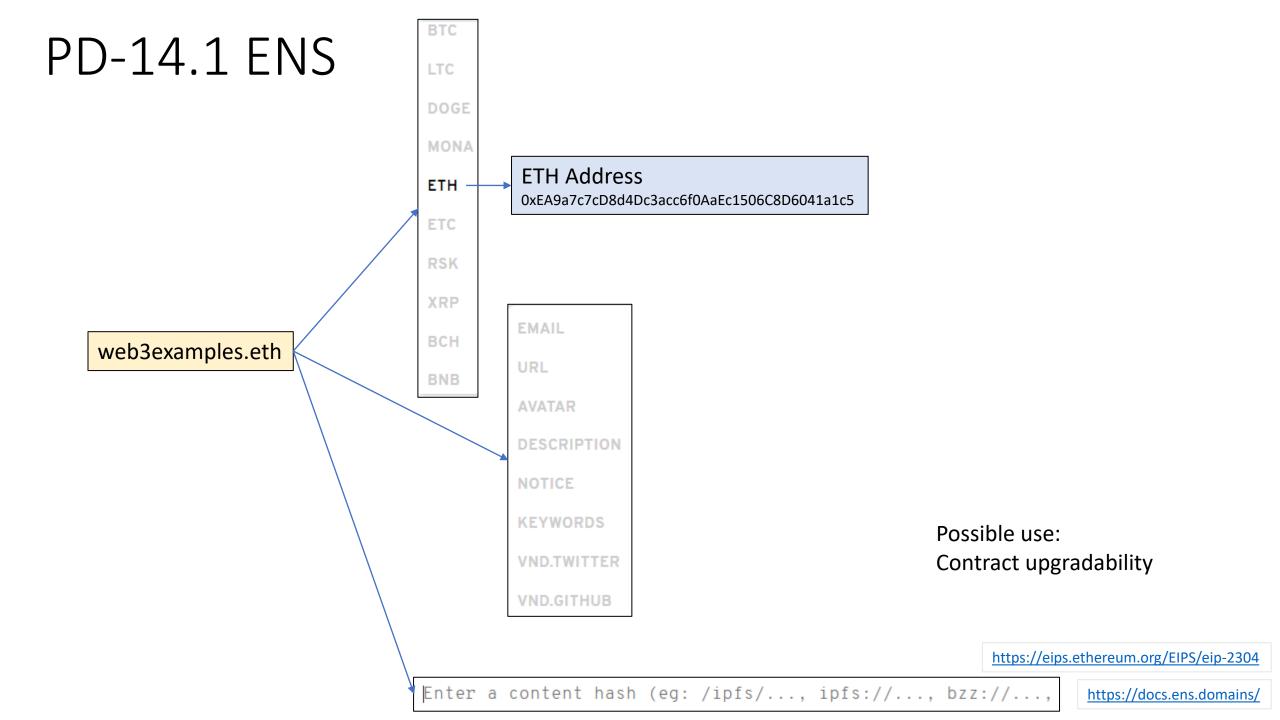
PD-14.0 Ethereum Name System (ENS)





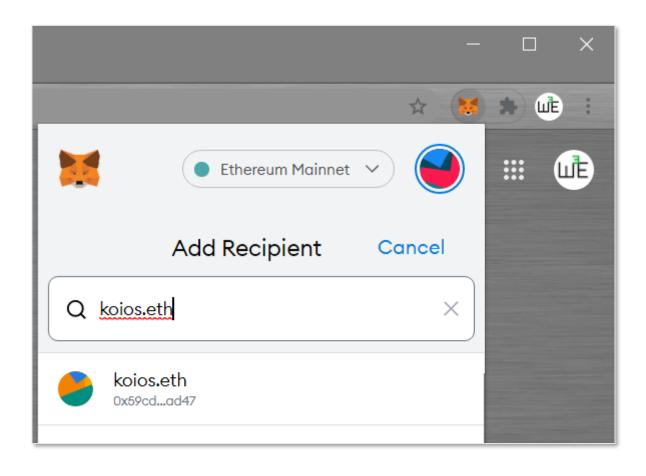
PD-14.1 Reverse lookup

ETH Address

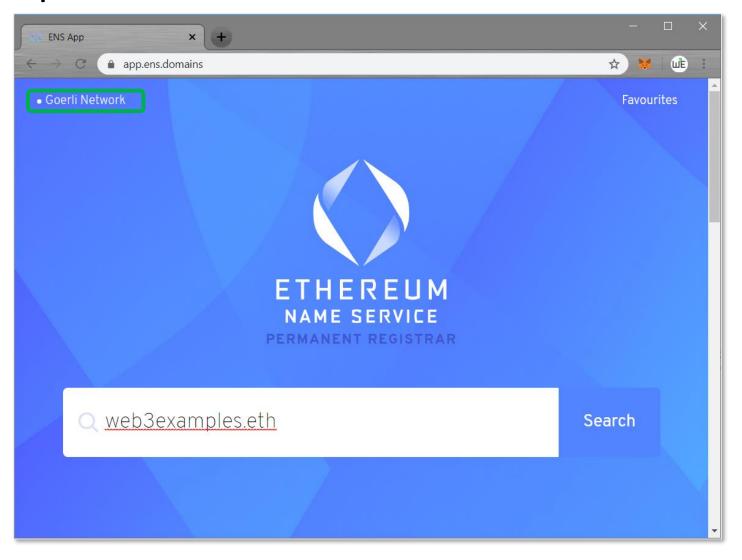
0xEA9a7c7cD8d4Dc3acc6f0AaEc1506C8D6041a1c5

web3examples.eth

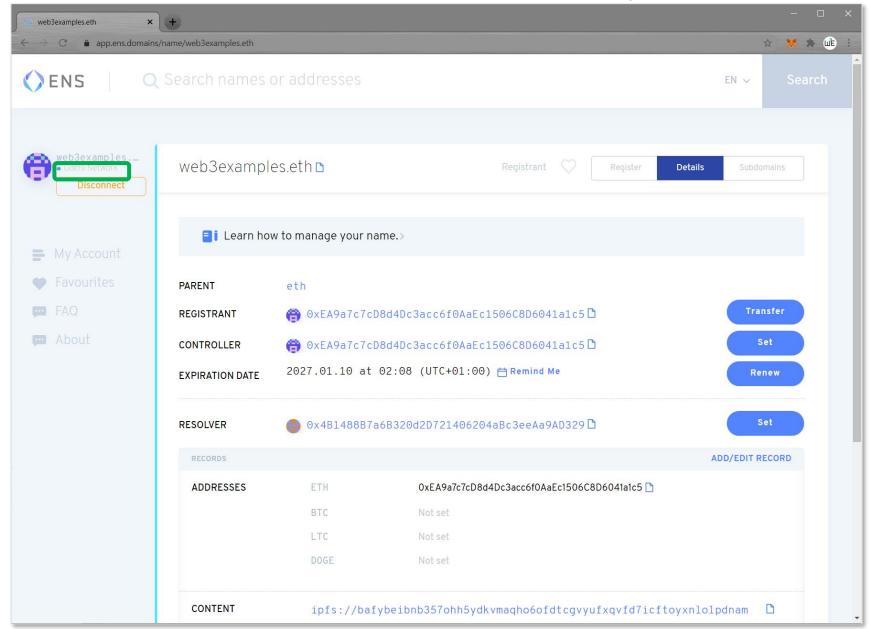
PD-14.1 ENS Example in MetaMask



PD-14.1 Request ENS Name



PD-14.1 Transfer ownership



Or via ERC-721 token management ENS names are ERC-721 compliant

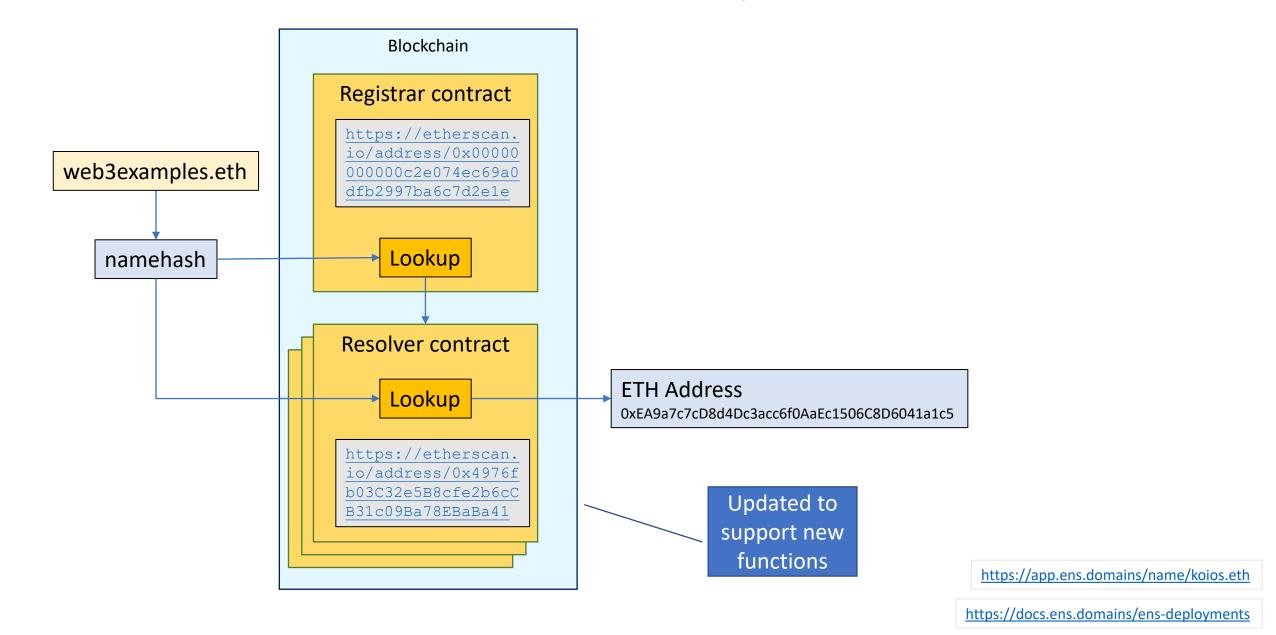
https://app.ens.domains/name/web3examples.eth

PD-14.1 Supported formats & prices

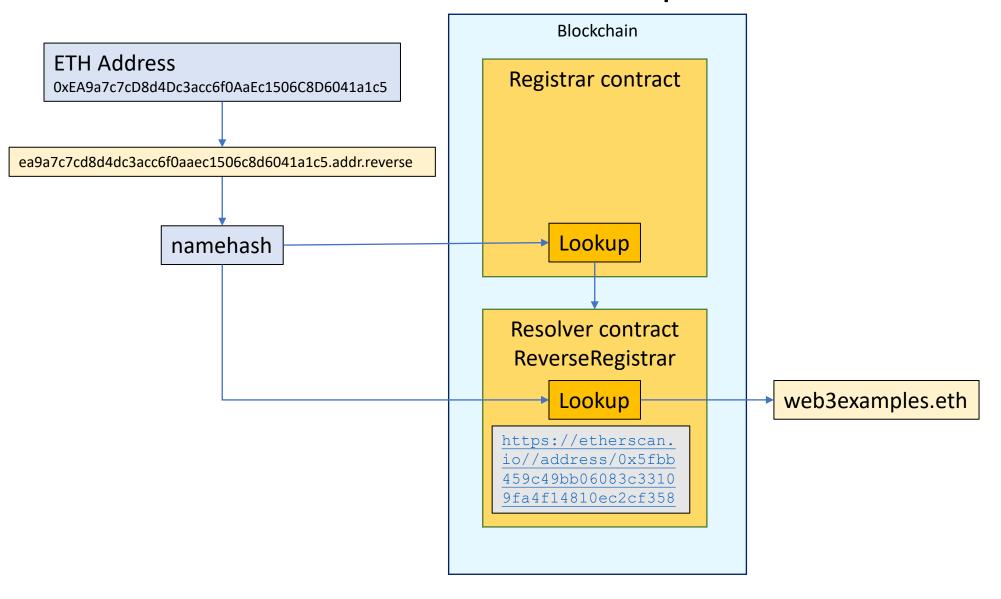
	Main domain	Subdomains Free, can be re-sold
1-2 character Not supported		
3 character \$640/year	tre.eth	a.b.c.d.e.f.tre.eth
4 character \$160/year	four.eth	a.b.c.d.e.f.four.eth
5 or more characters \$5/year	fiver.eth	a.b.c.d.e.f.fiver.eth

Every change is an Ethereum transaction and requires gas

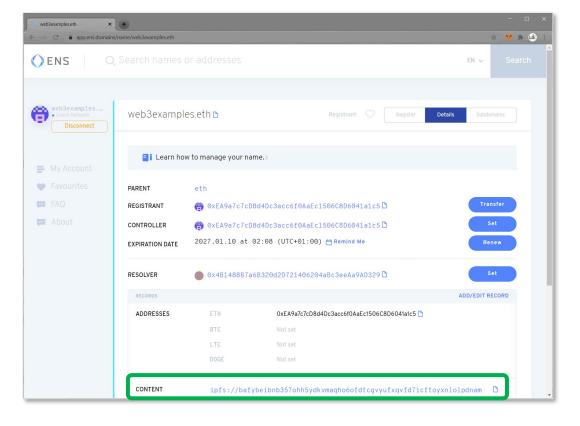
PD-14.2 ENS internals - Lookup



PD-14.2 ENS reverse lookup



PD-14.3 ENS IPFS link

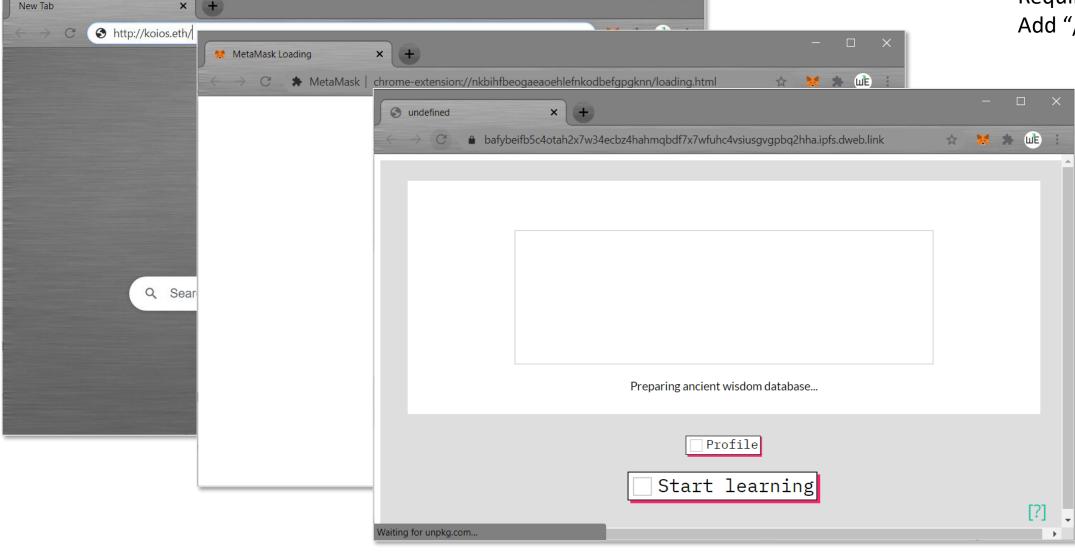


http://ipfs.io/ipfs/bafybeibnb357ohh5ydkvmaqho6ofdtcgvyufxqvfd7icftoyxnlolpdnam

http://ipfs.io/ipfs/QmRNYJpcetbgoLWhaPAmUr74JUinz4BXfCp7Pn1NiGZoMt

https://github.com/web3examples/ethereum/tree/master/ens examples/QmRNYJpcetbgoLWhaPAmUr74JUinz4BXfCp7Pn1NiGZoMt-web3examples.html

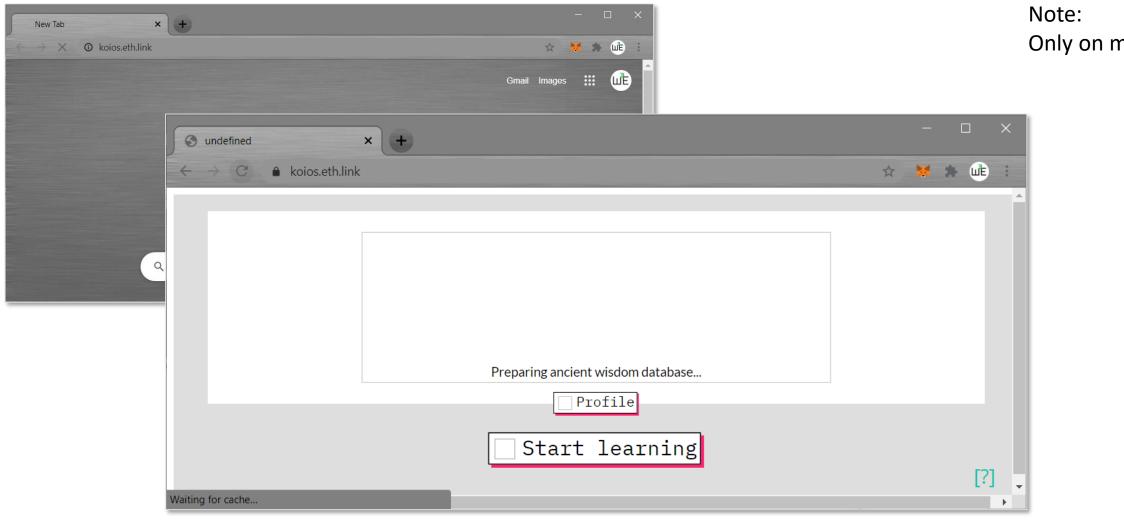
PD-14.3 ENS Use eth address as URL



Note: Requires metamask Add "/" after address

web3examples.eth/

PD-14.3 ENS Eth.link



Only on mainnet

PD-14.4 Lookup name

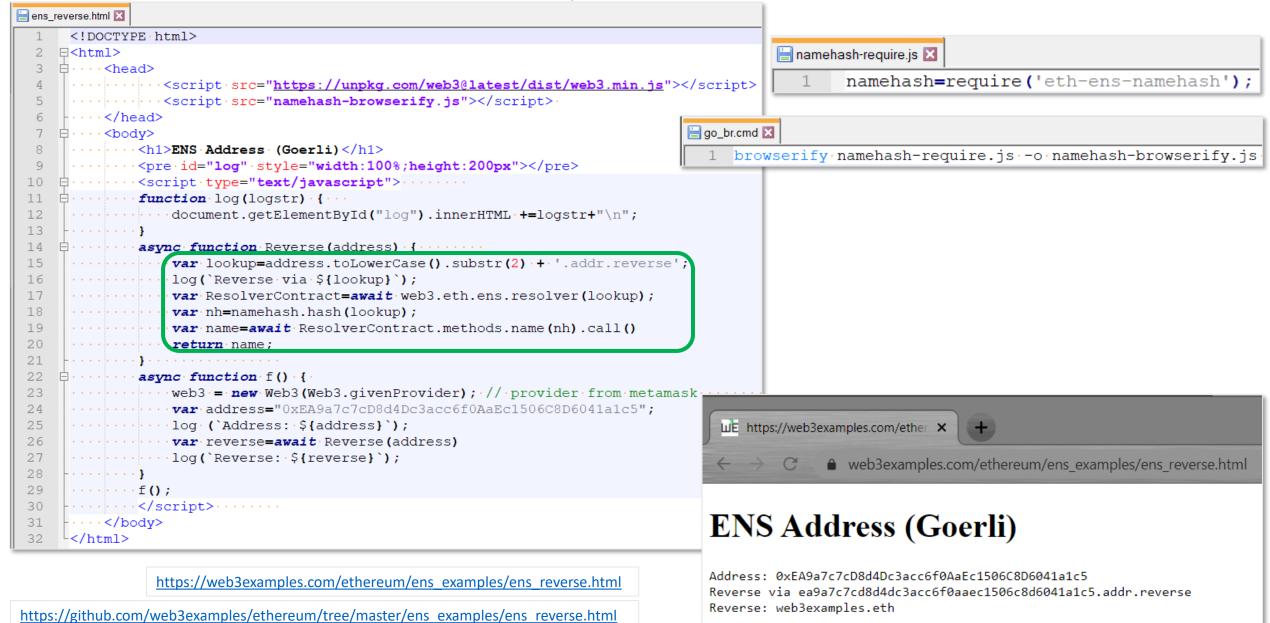
```
ens_addr.html 🔀
     <!DOCTYPE · html>
    □<html>
    □····<head>
     · · · · </head>
    □····<body>
     ·····<h1>ENS·Address·(Goerli)</h1>
     ·····id="log" style="width:100%;height:200px">
    □····· function log(logstr) · {····
 10
     ·····document.getElementById("log").innerHTML +=logstr+"\n";
11
12

\Box \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot  async function f () \cdot { ·
13
     .... web3 = new Web3 (Web3.givenProvider); // provider from metamask.
14
     .....const.name='web3examples.eth';
15
16
     ·····log(`Checking $ { name} `); ······
17
     ····· var address=await web3.eth.ens.getAddress(name);
18
     ·····log·(`Address: \${address}`); ······
19
                                                         шЕ https://web3examples.com/ether X
20
     ····f();
     -....</script>....
 21
                                                                   web3examples.com/ethereum/ens examples/ens addr.html
     ····</body>
 22
     </html>
23
                                                        ENS Address (Goerli)
          https://web3examples.com/ethereum/ens examples/ens addr.html
                                                        Checking web3examples.eth
```

Address: 0xEA9a7c7cD8d4Dc3acc6f0AaEc1506C8D6041a1c5

https://github.com/web3examples/ethereum/tree/master/ens_examples/ens_addr.html

PD-14.4 Reverse lookup name



PD-14.4 IPFS lookup

```
ens_ipfs.html
      <!DOCTYPE · html>
     ⊟<html>
     □····<head>
      ····</head>
     id · · · · <body>
      \cdot \cdot \cdot \cdot \cdot \cdot \cdot < h1>ENS \cdot IPFS \cdot (Goerli) < / h1>
      ·····<pre·id="log"·style="width:100%;height:200px">
  8
     □·····<script·type="text/javascript">
  9
     □····· function log(logstr) · {···
 10
 11
      ·····document.getElementById("log").innerHTML +=logstr+"\n";
 12
 13
     \exists \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot async function f() {
      .... web3 = new Web3 (Web3.givenProvider); // provider from metamask ....
 14
 15
      ····· const name='web3examples.eth';
      ·····log(`Checking $ { name} `); ······
 16
 17
      ···· var ipfs=await web3.eth.ens.getContenthash(name)
 18
      ·····log·(`${ipfs.protocolType}: ${ipfs.decoded}`);
      19
                                                                      шЕ https://web3examples.com/ether X
      ····f();
 20
 21
      -····</script>
                                                                                web3examples.com/ethereum/ens examples/ens ipfs.html
      -····</body>
     L</html>
 2.3
                                                                     ENS IPFS (Goerli)
                  https://web3examples.com/ethereum/ens examples/ens ipfs.html
                                                                     Checking web3examples.eth
   https://github.com/web3examples/ethereum/tree/master/ens examples/ens ipfs.html
                                                                     ipfs: QmRNYJpcetbgoLWhaPAmUr74JUinz4BXfCp7Pn1NiGZoMt
```