

AQUA-Metaverse DAO DAO Hacks April 2022

Hello, I am Fernando Cabal, founder of the Aqua-Metaverse platform and working on the launch of the DAO phase of our road-map.

At this phase we plan to start selling our collections of NFTs using OpenSea and we were looking for ways to kickstart the DAO launch and ensure its operation; the Hackathon gives a good overview of tools we can use to effectively manage the various aspects of launching and operating such a project.

Our NFT collections are related to Aquatic Sports and Waterfront related Art, Game assets, Avatars, and innovative technologies involving Web3 Identity and community collaborations to support the mission of the AquaMetaverse.DAO: Promote the CleanUP activities to extract plastics from Waterfronts worldwide, provide the tools and help fund the organization of each activity.

NFT creators from local zones near each CleanUP event that is organized, can submit request for minting NFT creations related to the event, the NFTs remain in display for sale on the historic pages of the event.

NFT Rewards to those who participate are sent via airdrop, email, meta, twitter, discord, and other integrations.

An historic writing on IPFS is done to immortalize of each event results.

By using picture/video geospatial metadata, and weight/volume of extracted plastics and trash we keep a global database to publish a counter that is in real-time tracking Aquametaver.dao community efforts and how much volume and Kilos of plastic we are removing.

We use analytics to extrapolate on how many years we have accelerated the recovery of the ecosystems of our planet, and we want scientific readings from Internet of Things and other sources to measure results. Be proud to be an Aquametaverse.org holder, start now!

Cheers! Fernando

Table des matières



INIL IAVENJE	1
AQUA-Metaverse DAO	1
DAO Hacks April 2022	1
Proof o concept UNLOCK Protocol	3
Proof of concept	4
Purchase addresses	6
Purchase address aquametaverse_daohacks_lock2	6
Purchase address aquametaversedao1 lock 1	6
Purchase address aquametaversedao1 lock 2	6
DEFIDUCK Purchase address	6
Lock config in wordpress	7
Gnosis-Safe PROD	8
Colony.io	8
How we use Features of Colony in our DAO	9
Unlock Protocol PROD	11
Code to embed and protect Content using Unlock protocol, sell NFT access	11
The include	11
Use the lock	11
paywallConfig sample	11
Initiate Checkout	11
Full code Sample CODE base used to protect pages	12
CSS	12
JS	12
Aguametaverse ORG Community DAO project - summary of Links	13

Proof of concept UNLOCK Protocol

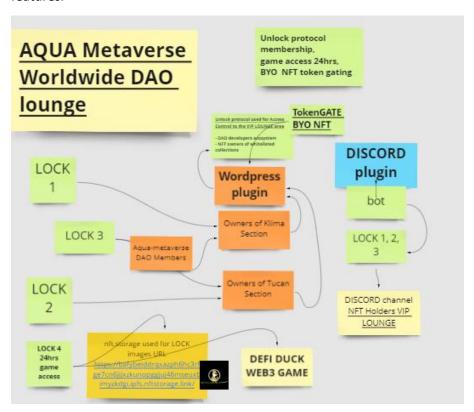
We use the unlock protocol to create LOCKS and sell membership to our DAO and membership to our game-fi platform.

Various use cases fit perfectly with our needs when building hybrid Web2 and Web3 access portals for the Aqua-Metaverse community project and game-fi platform.

The concept of locks allows us to rapidly implement NFT membership access without the need for an advanced WEB3 knowledge or dealing with Smartcontract super heroes.

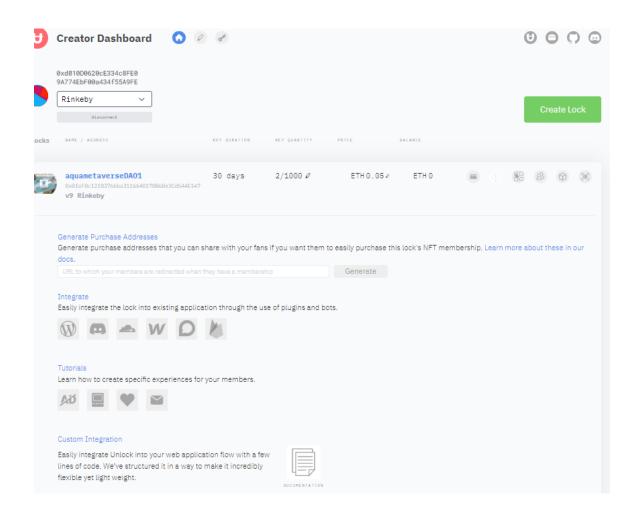
We can map these access to channel we already operate and are well equipped to run a community site and focus on the objective of the mission itself, Clean the waterfronts of planet!

Here we see all the concept we used for DAO membership, Web3 game access, Discord plugin VIP channel access. Concepts of partner NFT site access is applied using Unlock protocol Gating features.



Proof of concept

We used the Rinkeby Testnet to create some locks and deploy our proof of concept.





We use NFT.STORAGE to insert the images of the Unlock LOCK image



https://bafybeiddrqxazph6hc3rfge7cn6jijxzkunopggjuj46mseuxbimyzkdgi.ipfs.nftstorage.link/



We have tested a 24hours access to Web3 DEFI DUCK Game in dev



Purchase addresses

We generated purchase addresses to use the for promotion of our membership on our Wordpress site by hiding some blocks of the members or the external registration page.

They each have bring to a different destination related to the type of content we have planned in the diagrams, we can separate and combine. We can create future Sub access memberships for shorter duration and embed in various ways one main membership with sub memberships.

Purchase address aquametaverse daohacks lock2

https://app.unlock-

protocol.com/checkout?redirectUri=https%3A%2F%2Faquametaverse.org%2Funlock%2Faquametaverse daohacks lock2&paywallConfig=%7B%22locks%22%3A%7B%220x11bF6D161527d9a0 5983ba9304F34C42A2BC5f78%22%3A%7B%22network%22%3A4%7D%7D%2C%22pessimistic% 22%3Atrue%2C%22persistentCheckout%22%3Atrue%2C%22icon%22%3A%22https%3A%2F%2Flocksmith.unlock-

 $\underline{protocol.com\%2Flock\%2F0x11bF6D161527d9a05983ba9304F34C42A2BC5f78\%2Ficon\%22\%7D}$

Purchase address aquametaversedao1 lock 1

https://app.unlock-

protocol.com/checkout?redirectUri=https%3A%2F%2Faquametaverse.org%2Funlock%2Faquametaverse daohacks_lock1&paywallConfig=%7B%22locks%22%3A%7B%220x804Cb81770F67387D43EC96Abea79216b5a02AD3%22%3A%7B%22network%22%3A4%7D%7D%2C%22pessimistic%22%3Atrue%2C%22persistentCheckout%22%3Atrue%2C%22icon%22%3A%22https%3A%2F%2Flocksmith.unlock-

protocol.com%2Flock%2F0x804Cb81770F67387D43EC96Abea79216b5a02AD3%2Ficon%22%7D

Purchase address aquametaversedao1 lock 2

https://app.unlock-

 $\frac{protocol.com/checkout?redirectUri=https\%3A\%2F\%2Faquametaverse.org\%2Funlock\%2Faquametaversedao1\&paywallConfig=\%7B\%22locks\%22\%3A\%7B\%220x0faF0c12f83766ba3116640170B\\68e3Cd544E147\%22\%3A\%7B\%22network\%22\%3A4\%7D\%7D\%2C\%22pessimistic\%22\%3Atrue\%2C\%22persistentCheckout\%22\%3Atrue\%2C\%22icon\%22\%3A\%22https\%3A\%2F\%2Flocksmith.unlock-protocol.com%2Flock%2F0x0faF0c12f83766ba3116640170B68e3Cd544E147\%2Ficon\%22\%7D$

DEFIDUCK Purchase address

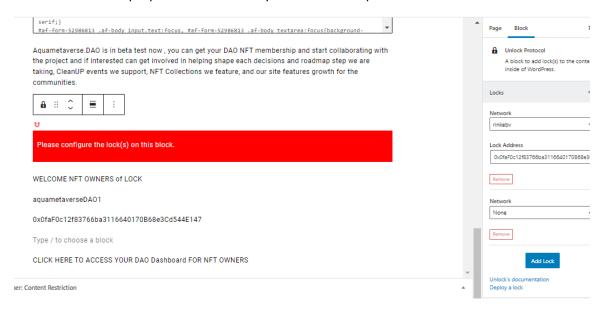
https://app.unlock-

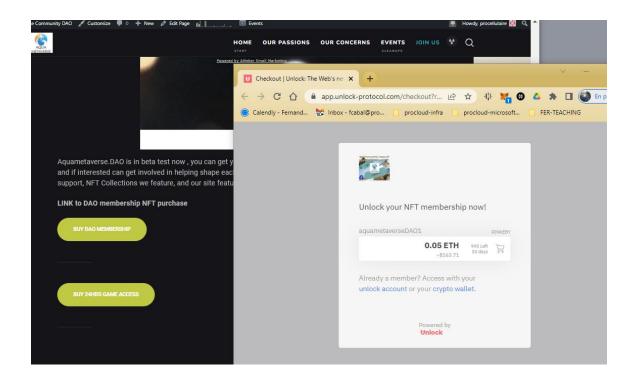
protocol.com/checkout?redirectUri=http%3A%2F%2Fdaohacks.aquametaverse.org%2Funlock%2Fdefiduck%2F&paywallConfig=%7B%22locks%22%3A%7B%220x1F17ABe76d63CfE54d9957fc48599a3a4e2d38b8%22%3A%7B%22network%22%3A4%7D%7D%2C%22pessimistic%22%3Atrue%2C%22jecon%22%3A%22https%3A%2F%2Flocksmith.unlock-

protocol.com%2Flock%2F0x1F17ABe76d63CfE54d9957fc48599a3a4e2d38b8%2Ficon%22%7D

Lock config in wordpress

We add a Block after the section of a page where we want to insert the purchase code or hide some text so it will propose the user to buy the membership access





Gnosis-Safe PROD

We created 3 gnosis-safe Wallets with 2 multisignatures to start

- ETH Ethereum
- Matic Polygon
- Xdai Gnosys chain

Colony.io

We used Colony to create our XDAI and Polygon based DAO.

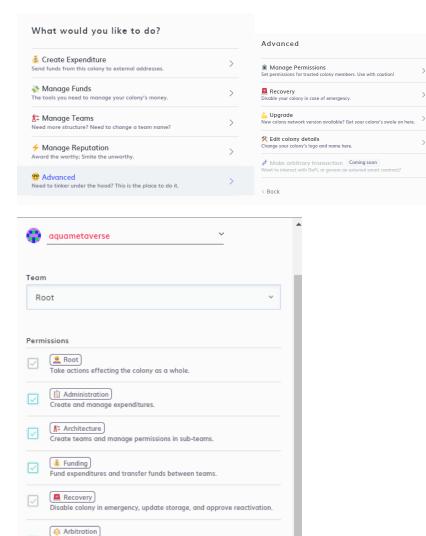
Created a Colony for the Aquametaverse.org Plastic Trash Cleanup Community DAO

Created a separate colony for the Aqua Metaverse platform project for founders, cofounders, investors, developers, designers

We created ERC20 tokens for each DAO, the process were fairly simple and it included the following steps: deploying a Token Authority, Set Token Authority, Set Token Owner, Add Extension to Colony, Give Administration Permission to OneTxPayment Extension, and Give Funding Permission to OneTxPayment Extension.







How we use Features of Colony in our DAO

Arbitration allows you to resolve disputes, make state changes, and

Explain why you're making these changes (optional)

punish bad behavior.

Usernames: Forget illegible blockchain account addresses: Using Colony AquaMetaverse DAO users register a free, unique decentralised username to simplify collaboration. Crypto doesn't have to be complicated.

Using the Profile feature the Community DAO user can build his profile to help collaborators understand who he is. The Profile tracks the Aquametaverse.org DAO Community memberships, as well as the actions, permissions, and reputations across all other Colony DAOs.

The Subscriptions feature allows to explore and subscribe to colonies that pique your interest. They'll show up in a list on the left of the colony interface, allowing for easily switch between the DAOs you care about.

Token Creation: We created 2 tokens to segregate features and use cases like rewarding collaborators and participants, from token distribution and allocations for team members.

Token Activation: We use the Web widget to deposit and reclaim our tokens from the locking contract Colony uses to let users stake, claim reward distributions, and participate in token votes.

Coin Machine: One way to sell our DAO token is using Coin Machine, it's totally free, 100% of funds go straight to AquaMetaverse DAO to be governed by the community.

Payments: Payments interface is what we can use to send tokens from Aquametaverse DAO to any external address (on the same blockchain) with a single transaction.

Domains: A DAO Community requires departments, teams, projects, and working groups. They are organized in "Domains"

Permissions: Using the permissioning system enables people or smart contracts to be given finegrained authority in specific aspects of specific domains within the organization.

Extension manager: We have some extensions to test and integrate.

Events log: A comprehensive list of all the events emitted by the Aquametaverse DAO Community smart contracts, the events log gives peace of mind that the activity taking place in your Aquametaverse DAO colony is auditable by the community.

Revenue: Receive revenue Aquametaverse DAO wallet address. Received funds can be immediately put to use in your colony's working capital, or distributed to members as Rewards.

Whitelist: This is how we add addresses to our whitelist of people because they have passed our own screening, or KYC/AML process, and/or signed an agreement.

Reputation: To empower the Aquametaverse community with governance influence weight earned proportional to the value they contribute to the Community DAO. Reputation decays over time to keep the D for "Decentralized" in Aquametaverse Community DAO

Reputation Voting: Using the "lazy consensus" mechanism, it means governance in which it is only needed to vote if there is actually a disagreement about something.

Recovery Mode: Recovery mode is a panic button in case something dangerous seems to be happening in Aquametaverse DAO. If we decide to enter recovery mode, it will no longer be possible for users take any action in the DAO until the emergency is fixed.

Smite: A wise man once said: "With great power comes great responsibility." Reputation confers that power upon members of the Aquametaverse.ORG DAO. If they abuse the trust the community has placed in them, Smite them to burn away their reputation.

Award Reputation: We need to be able to award reputation to members without also paying them in Aquametaverse DAO native token. This is for that.

xDai & Gasless Metatransactions: end users don't have to pay gas fees when using Metamask, and using the Aquametaverse.org DAO Community on xDai, there is no gas to pay.

Unlock Protocol PROD

We created Unlock protocol LOCKS on xDAI, Polygon.

We repeat what we did during Hackathon but this time for prod.



Code to embed and protect Content using Unlock protocol, sell NFT access.

The include

```
<script>
        (function(d, s) {
          var js = d.createElement(s),
           sc = d.getElementsByTagName(s)[0];
          js.src="https://paywall.unlock-protocol.com/static/unlock.latest.min.js";
          sc.parentNode.insertBefore(js, sc); }(document, "script"));
        </script>
Use the lock
        <script>
        var unlockProtocolConfig = {
          // paywallConfig object
        </script>
paywallConfig sample
        window.addEventListener('unlockProtocol.status', function(e) {
          var state = e.detail
         // the state is a string whose value can either be 'unlocked' or 'locked'...
         // If state is 'unlocked': implement code here which will be triggered when
          // the current visitor has a valid lock key
          // If state is 'locked': implement code here which will be
          // triggered when the current visitor does not have a valid lock key
```

Note: the callback can be invoked several times. For example, a visitor might purchase a key while they are on the page, going from the locked to the unlocked state. Similarly, the key that the visitor owns may expire during a visit which would result in the state going from unlocked to locked.

Initiate Checkout

In order to purchase keys, Unlock provides a modal that lets the user pick the lock of their choice (based on the configuration). The modal can be loaded by invoking the Following

```
window.unlockProtocol && window.unlockProtocol.loadCheckoutModal(/* optional configuration*/)
```

Customize what locks that are available using the <code>loadCheckoutModal</code> call. using an optional configuration object, it has the same shape as the global unlockProtocolconfig

Full code Sample CODE base used to protect pages

In our use cases we protect a page and use it to sell Aquametaverse DAO NFT membership, control access to Discord channels, Web3 pages, Web2 pages, Wordpress.

We also use the Whitelist feature of Unlock protocol that allow us to give access to the owners of other NFT Collections.

This code is the master template we use to protect pages using Unlock protocol and sell NFT based access to a section of a site.

```
<script>
         (function(d, s) {
           var js = d.createElement(s),
            sc = d.getElementsByTagName(s)[0];
           js.src = "https://paywall.unlock-protocol.com/static/unlock.latest.min.js";
           sc.parentNode.insertBefore(js, sc);
         }(document, "script"));
       </script>
       <script>
         var unlockProtocolConfig = {
           "network": 100, // Network ID (1 is for mainnet, 4 for rinkeby, 100 for xDai, etc)
           "locks": {
             "0xac1fceC2e4064CCd83ac8C9B0c9B8d944AB0D246": {
               "name": "Unlock Members"
            }
           "icon": "https://unlock-protocol.com/static/images/svg/unlock-word-mark.svg",
           "callToAction": {
             "default": "Please unlock this demo!"
           }
       </script>
       <h1>Aquametaverse Unlock Template</h1>
        AquaMetaverse Unlock Demo - currently LOCKED 
        AquaMetaverse Unlock Demo - currently UNLOCKED 
       window.unlockProtocol.loadCheckoutModal()"><button class="button">
           Click here to Unlock!
         </button>
CSS
       .unlock-content {
        display: none;
       .unlock-content .locked {
        display: none;
       .unlock-content .unlocked {
         display: none;
JS
       window.addEventListener("unlockProtocol.status", function (event) {
         // Here we proceed to hide all .unlock-content elements
         document.querySelector(".unlock-content").style.display = "none";
         // Here we proceed to show only the relevant element
         document
           .querySelectorAll(`.unlock-content.${event.detail.state}`)
           .forEach((element) => {
            element.style.display = "block";
       });
       window.addEventListener("unlockProtocol.authenticated", function (event) {
         // event.detail.addresss includes the address of the current user, when known
       window.addEventListener("unlockProtocol.transactionSent", function (event) {
         // event.detail.hash includes the hash of the transaction sent
```

Aquametaverse. ORG Community DAO project - summary of Links

Here are some links to our socials and live systems in constant evolution while we continue our launch and roadmap

GITHUB (I don't use github all the time yet, I cloned some codebase I am using in dev and uploaded some files)

- https://github.com/procellulaire/daohacks
- https://github.com/procellulaire/daohacks-poll

YouTube explainers

- https://youtu.be/N-PFtj3uYfo
- https://youtu.be/VPKRJn7W4Xw?t=116
- https://www.youtube.com/watch?v=PPqWAtF98QQ
- https://www.youtube.com/watch?v=drNmDjLNtV0

Twitter

https://twitter.com/aquametaverse

Facebook Meta

https://www.facebook.com/aquametaversegame

Instagram

https://www.instagram.com/aquametaverse/

Discord:

https://discord.gg/aquametaverse

NFT DAO Membership Token - ERC721 NFT DAO 25\$ xDai - using Unlock https://app.unlock-protocol.com/checkout?redirectUri=https%3A%2F%2Faquametaverse.org%2Fdao-25-xdai%2F&paywallConfig=%7B%22locks%22%3A%7B%220xd2439B97476Cf0c4B07138F7000Dfa25C31C3432%22%3A%7B%22network%22%3A100%7D%7D%2C%22pessimistic%22%3Atrue%2C%22persistentCheckout%22%3Atrue%2C%22icon%22%3A%22https%3A%2F%2Flocksmith.unlock-protocol.com%2Flock%2F0xd2439B97476Cf0c4B07138F7000Dfa25C31C3432%2Ficon%22%7D

Aquametaverse DAO Home in xDai (in progess) https://xdai.colony.io/colony/aquametaversedao

OpenSea

- https://opensea.io/collection/aqua-metaverse-3d-paddleboard-polygon
- https://opensea.io/collection/aquametaverse-web3-surfers