

SHOW NOTES

@mjkabir Notes



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Grass Notes

I have been exploring the Grass project by Wynd Labs in Canada. All my notes related to this project can be found here. I like this project, so I wanted to provide as many insights as possible for anyone to explore this. Do your own research.

DISCLAIMER

If you join Grass to become a node by installing the Chrome / Brave plugin, you do so at your own risk. I have provided my views, and I do participate in the Grass network, but I am not responsible for your decisions.

Epoch / Phase View All				
Epoch / Phase	Start / End Date	Total Uptime	Referral Earnings	Points Earned
Epoch 4 Current	<ul style="list-style-type: none">Apr 10, 2024 12:00:00 AMMay 10, 2024 11:59:59 PM	15 days, 16 hrs, 16 mins	5,653.00	50.74K
Epoch 3	<ul style="list-style-type: none">Mar 09, 2024 12:00:00 AMApr 09, 2024 11:59:59 PM	39 days, 19 hrs, 7 mins	9,770.00	109.92K
Epoch 2	<ul style="list-style-type: none">Feb 06, 2024 12:00:00 AMMar 08, 2024 11:59:59 PM	0 day, 0 hr, 0 min	0.00	0.00
Epoch 1	<ul style="list-style-type: none">Jan 05, 2024 12:00:00 AMFeb 05, 2024 11:59:59 PM	0 day, 0 hr, 0 min	0.00	0.00
Closed Alpha	<ul style="list-style-type: none">Jun 17, 2023 12:00:00 AMJan 04, 2024 11:59:59 PM	0 day, 0 hr, 0 min	0.00	0.00



AI REVIEW PASSED.



Trade Grass Points in WhalesMarket

Some folks have asked me about how to monetize the grass rewards. Personally, I have no rush and I will accumulate until the team finally clarify how to redeem the rewards.

But apparently, some people are trading their grass rewards on this marketplace. I have not used WhaleMarket for anything so I do not have practical experience using it. But from what I see is that people who have got grass reward are somehow able to transfer it to this platform and able to put them up for an asking price (in \$USDC stable coin in the Solana network).

For example, here is an offer that is being partially filled. This person is selling 405 grass rewards for 1 \$USDC (equiv. of 1 US dollar).

Grass #144930

48.3%

https://www.getgrass.io/

User CHa...uv6 is **selling** 500000 Grass points for 1240 USDC. Do you want to buy?

BUYING ⓘ

405

0% MAX

FOR ⓘ

1

\$1

Connect wallet

Buying 405 Grass points for 1 USDC

You will automatically receive the equivalent amount of the protocol's tokens based on the total points purchased after settlement.

This is very interesting. At the time of writing this note, I have 50K grass rewards accumulated. So this would mean that it would be sellable at $(50,000 \text{ grass} / 405 \text{ grass}) = 123 \text{ \$USDC}$. Now I have accumulated this amount over last 20 days so, you can say that $123 \text{ \$USDC} / 20 \text{ days} = 6.15 \text{ \$USD per day}$. This indicates that in a month, I can accumulate 184.5 \$USDC worth of grass. Again all these calculation is based on this example. The actual grass reward conversion to \$USDC or \$SOL will vary based on how the project works out. But this gives you an idea of how things are shaping up.

370 days 10 hrs ago

Website:

<https://app.whales.market/points-markets?project=Grass>

Security Review of Grass Chrome/Brave Extension

WebSockets Communication

The extension uses WebSockets to communicate with external servers.

The URLs `wss://proxy.wynd.network:4650` and `wss://proxy.wynd.network:4444` are hardcoded, which could be risky if the server is not secure or compromised.

Additionally, if the WebSocket connection is not properly secured, it could be vulnerable to man-in-the-middle attacks.

External Script Interaction

The extension listens for messages from external scripts (`onMessageExternal` listener). This can be risky if the extension does not validate the origin of the messages properly, leading to potential external control over the extension's behavior.

Local Storage Usage

The extension stores and retrieves sensitive information such as JWT tokens, user IDs, and settings in Chrome's local storage (`chrome.storage.local`). This data might be accessible to other scripts running in the context of the extension's background page, posing a risk if any of those scripts are compromised.

<https://app.getgrass.io>

Origin <https://app.getgrass.io>

Key

browserId

chakra-ui-color-mode

isAuthenticated

_grecaptcha

userColorMode

userId

Header Manipulation

The extension modifies request headers (HEADERS_TO_REPLACE list and onBeforeRequest listener). Improper manipulation of headers like Cookie, Referer, and others could lead to security vulnerabilities, including session fixation, cross-site request forgery (CSRF), and others.

Error Handling and Logging

The extension logs errors and other information using LogsTransporter.sendLogs. Depending on the implementation of this logging mechanism, sensitive information could be inadvertently exposed to an external server.

Use of eval-like Functions: The code uses JSON.parse in several places without proper input validation.

Malicious input could lead to injection attacks if not handled properly.

Permissions and Content Security Policy (CSP)

The extension requires broad permissions () and interacts with permissions dynamically. If the extension's CSP is not restrictive enough, or if permissions are not handled securely, it could lead to vulnerabilities.

Lack of Encryption for Sensitive Data

While the extension uses WebSockets Secure (WSS), the handling and storage of sensitive data such as tokens and user IDs do not explicitly mention encryption, which could be a risk if this data is stored or transmitted insecurely.

393 days 21 hrs ago