

Metal Token Audit

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Security Audits

The Metal team asked us to review and audit their new Metal Token contract code. We looked at their contracts and now publish our results.

The audited contracts can be found in <u>their metal-token repo</u>. The version used for this report is commit d0ca13778c7c3ccc19d5fb2cb71c80588324bacf.

Good work writing very minimal code and reusing existing contracts.

Here's our assessment and recommendations, in order of importance.

Severe

No severe issues were found.

Warnings

OpenZeppelin vendoring

All contracts except MetalToken are from version 1.0.5 of OpenZeppelin. Consider installing the contracts from NPM instead of vendoring (copy-pasting) them into the repository.

Notes and Additional Information

· Good job using OpenZeppelin!

from OpenZeppelin. It doesn't seem to cause any issues in the Metal Token code, but consider removing it to reduce attack surface.

- The state variables name, symbol, decimals and INITIAL_SUPPLY should all be constants.
- INITIAL_SUPPLY should be defined using the decimals state variable as 66588888 * 10 ** decimals. This is clearer and more future proof.
- INITIAL_SUPPLY amount is correct for the defined Metal token decimals (8).

Conclusions

No severe security issues were found. Some small changes were proposed to follow best practices and reduce potential attack surface.

Good work writing very minimal code and reusing existing contract modules.

Note that as of the date of publishing, the above review reflects the current understanding of known security patterns as they relate to the Metal Token contract. We have not reviewed the related Metal project. The above should not be construed as investment advice or an offering of tokens. For general information about smart contract security, check out our thoughts <a href="https://example.com/hetal-publishing-new-montract-example.com/hetal-pub

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