

Smart Contract Audit Report - ERC20 Token

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Project Overview:

This audit was conducted for a basic ERC20 token smart contract deployed on the Ethereum testnet. The goal was to evaluate the contract for security vulnerabilities, performance issues, and adherence to Solidity best practices.

Audit Scope:

- Review for reentrancy attacks
- Check for integer overflows/underflows
- Validation of modifiers and function visibility
- Tokenomics logic verification
- Gas optimization opportunities

Tools Used:

- Remix IDE
- MythX Security Scanner
- Slither (Static Analysis)

Findings:

- No critical vulnerabilities found
- Minor improvements suggested for gas usage optimization
- Recommended use of OpenZeppelin standard contracts for enhanced security

Audit Conclusion:

The contract is safe to deploy with minor changes. It complies with ERC20 standards and basic security practices.

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