## ## Final Audit Report for ConvexToken Contract

This report summarizes the findings of a multi-tool audit of the ConvexToken contract, utilizing Slither, My

- \*\*1. Access Control Vulnerability (Medium)\*\*
- \*\*Description:\*\* The `updateOperator` function allows anyone to update the operator address to the ope
- \*\*Impact:\*\* If the staker contract is compromised or has a bug, an attacker could gain control of the ope
- \*\*Mitigation:\*\* Restrict access to the `updateOperator` function, ideally by allowing only the current oper
- \*\*2. Logic Flaw in Mint Function (High)\*\*
- \*\*Description:\*\* The `mint` function's logic is complex and depends on variables like `totalSupply`, `redu
- \*\*Impact:\*\* An attacker could manipulate these variables, potentially minting more tokens than intended
- \*\*Mitigation:\*\* Thoroughly audit the `mint` function logic. Consider simplifying the logic and using unit te
- \*\*3. Potential for Lost Funds (Medium)\*\*
- \*\*Description:\*\* The `maxSupply` limit in the `ConvexToken` contract could result in lost funds if attempt
- \*\*Impact:\*\* If a user attempts to mint an amount beyond the `maxSupply`, the excess amount will not be
- \*\*Mitigation:\*\* Consider implementing a mechanism to handle excess minting attempts. This could invo
- \*\*4. Missing Function Visibility Specifiers (Medium)\*\*
- \*\*Description:\*\* Several interface functions lack explicit visibility specifiers ('public', 'external', 'internal'
- \*\*Impact:\*\* If the actual contracts implementing these interfaces incorrectly define visibility specifiers, it
- \*\*Mitigation:\*\* Explicitly define visibility specifiers for all interface functions. Use a consistent convention
- \*\*5. Arbitrary Function Execution (High)\*\*
- \*\*Description:\*\* The `IStaker` interface contains an `execute` function that could allow calling arbitrary for
- \*\*Impact:\*\* An attacker could exploit this function to call malicious functions on other contracts, potentia
- \*\*Mitigation:\*\* Restrict access to the `execute` function by using a trusted access control mechanism.
- \*\*Note:\*\* This report focuses on the most critical vulnerabilities identified. It is recommended to conduct a