

Secure C++ Code – Secure Coding Review

Description:

This program is a secure version of the vulnerable code. It applies secure coding best practices to mitigate identified risks.

Security Improvements:

- Uses std::string instead of char arrays
- Eliminates buffer overflow vulnerabilities
- Safer memory management
- Improved code readability and maintainability

Secure C++ Code:

```
#include <iostream>
#include <string>
using namespace std;

int main() {
    string username, password;

    cout << "Enter username: ";
    cin >> username;

    cout << "Enter password: ";
    cin >> password;

    if (username == "admin" && password == "1234") {
        cout << "Login Successful!";
    } else {
        cout << "Login Failed!";
    }

    return 0;
}
```