

## **Why String is not preferred to store password ? What should we use instead ?**

In Java, storing passwords as String objects is not preferred due to security concerns. The primary reason is that String objects are immutable, meaning once created, they cannot be changed. When a password is stored as a String, it remains in memory until it is garbage collected. During this time, there's a risk that it could be accessed by unauthorized code or malicious software through memory dumps, debugging, or other means.

Instead of String, the char[] array is preferred for storing passwords. The main advantage of using char[] over String is that char[] can be explicitly overwritten or cleared after use. This allows the sensitive data to be effectively erased from memory when it's no longer needed, reducing the window of opportunity for an attacker to access it.