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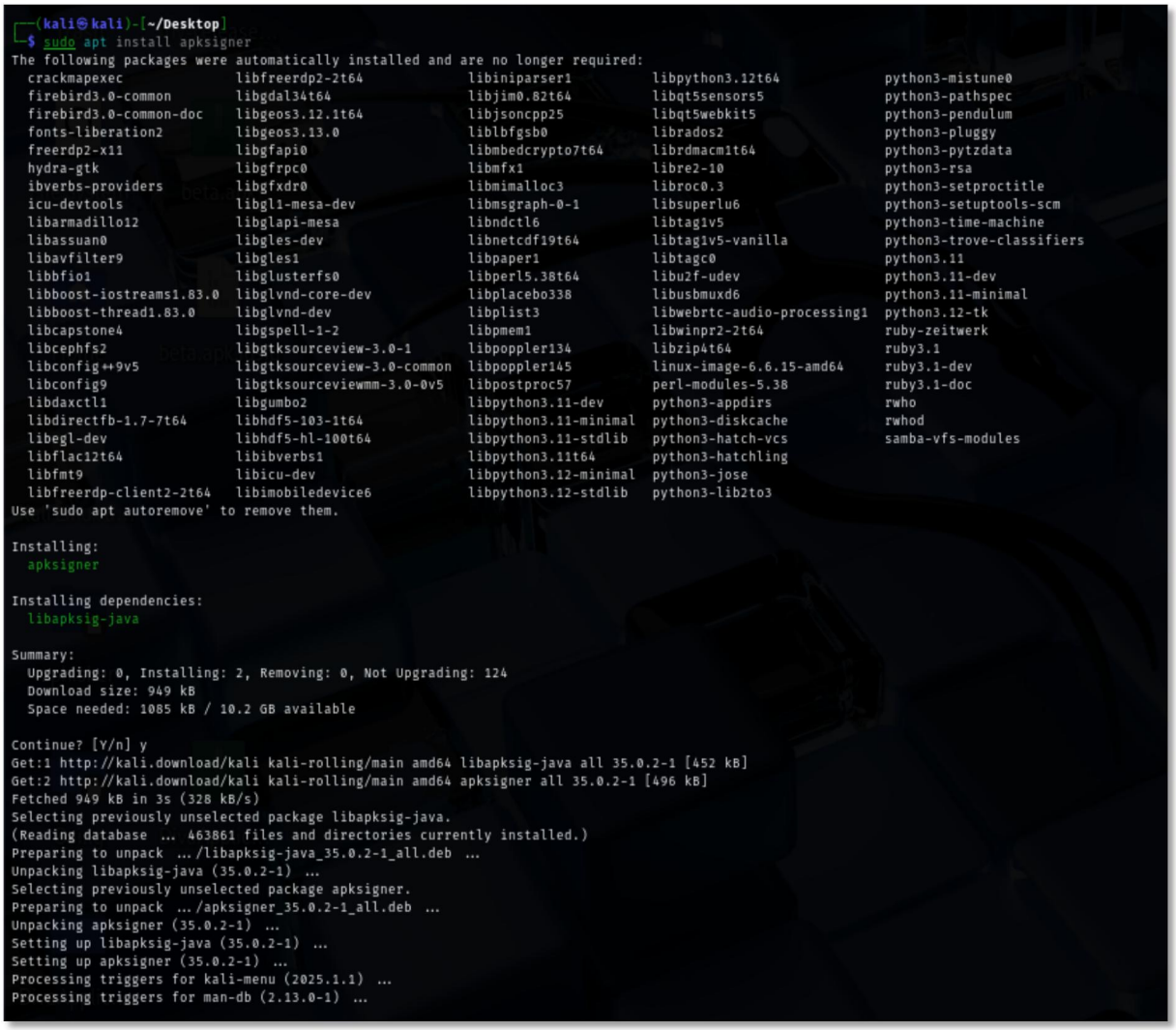
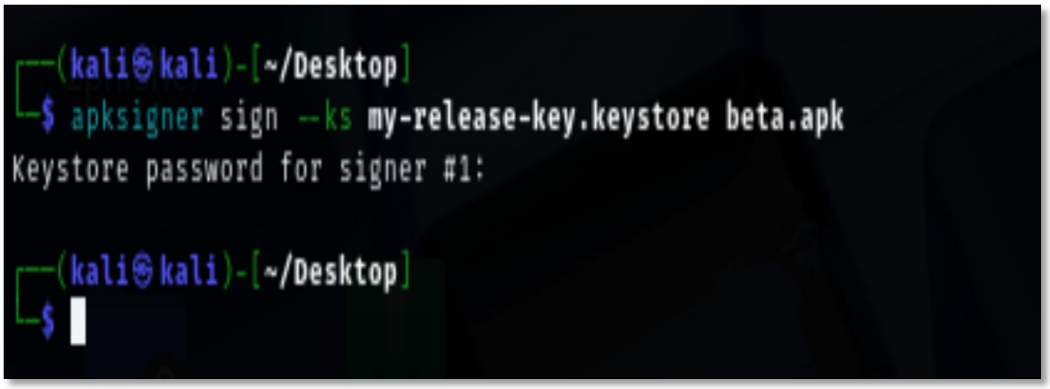
Aim :- Application signing by using the apksigner.

Definition:

Application Signing using apksigner refers to the process of digitally signing an Android APK file using the apksigner tool provided by the Android SDK. Signing an APK is mandatory for installation on Android devices, as it verifies the authenticity and integrity of the app. Without signing, the system will reject the installation.

The apksigner tool ensures that the APK is signed using v1 (Jar Signature), v2, v3, or v4 schemes for compatibility with various Android versions.





Conclusion :-

Signing an APK with apksigner is a crucial step to ensure your Android application is recognized as trustworthy and installable. It authenticates the source of the app and protects it from tampering. By generating a keystore and using apksigner, developers can securely distribute their apps to users or publish them to the Play Store. Always keep your keystore and credentials safe, as they're essential for updating and maintaining your app.