

React Native App to APK Build Guide

Option 1: Using Expo (Recommended for Simplicity)

Prerequisites:

- Node.js installed
- Expo CLI: `npm install -g expo-cli`
- Expo account: <https://expo.dev/signup>
- App created with: `npx create-expo-app`

Steps:

1. Login to Expo: `npx expo login`

2. Configure app.json:

```
{
  "expo": {
    "name": "YourApp",
    "slug": "your-app",
    "android": {
      "package": "com.yourcompany.yourapp"
    }
  }
}
```

3. Build APK (deprecated): `npx expo build:android`

Option 1B: Using EAS Build (Preferred for new projects)

1. Install EAS CLI: `npm install -g eas-cli`

2. Login: `eas login`

3. Init project: `eas build:configure`

4. Build APK: `eas build --platform android --profile preview --output-format apk`

Option 2: Using React Native CLI (Bare Workflow)

Prerequisites:

- Android Studio, Java 11+, Node.js
- React Native CLI: `npm install -g react-native-cli`

Steps:

1. Navigate to project: `cd YourAppName`
2. Start Metro: `npx react-native start`
3. Build APK: `cd android && ./gradlew assembleRelease`
4. APK Path: `android/app/build/outputs/apk/release/app-release.apk`
5. Install on device: `adb install app-release.apk`

Optional: Signing APK for Play Store

1. Generate keystore:

```
keytool -genkey -v -keystore my-key.keystore -alias my-key-alias -keyalg RSA -keysize 2048  
-validity 10000
```

2. Add to gradle.properties:

```
MYAPP_UPLOAD_STORE_FILE=my-key.keystore  
MYAPP_UPLOAD_KEY_ALIAS=my-key-alias  
MYAPP_UPLOAD_STORE_PASSWORD=*****  
MYAPP_UPLOAD_KEY_PASSWORD=*****
```