

SETUP MOBILE APPLICATION ENVIRONMENT

INSTALL ANDROID STUDIO







Windows Security Alert



Windows Defender Firewall has blocked some features of this app

Windows Defender Firewall has blocked some features of adb.exe on all public and private networks.



Name: adb.exe

Publisher: Unknown

Path: C:\users\16503\appdata\local\android\jdk\platform-tools
adb.exe

Allow adb.exe to communicate on these networks:

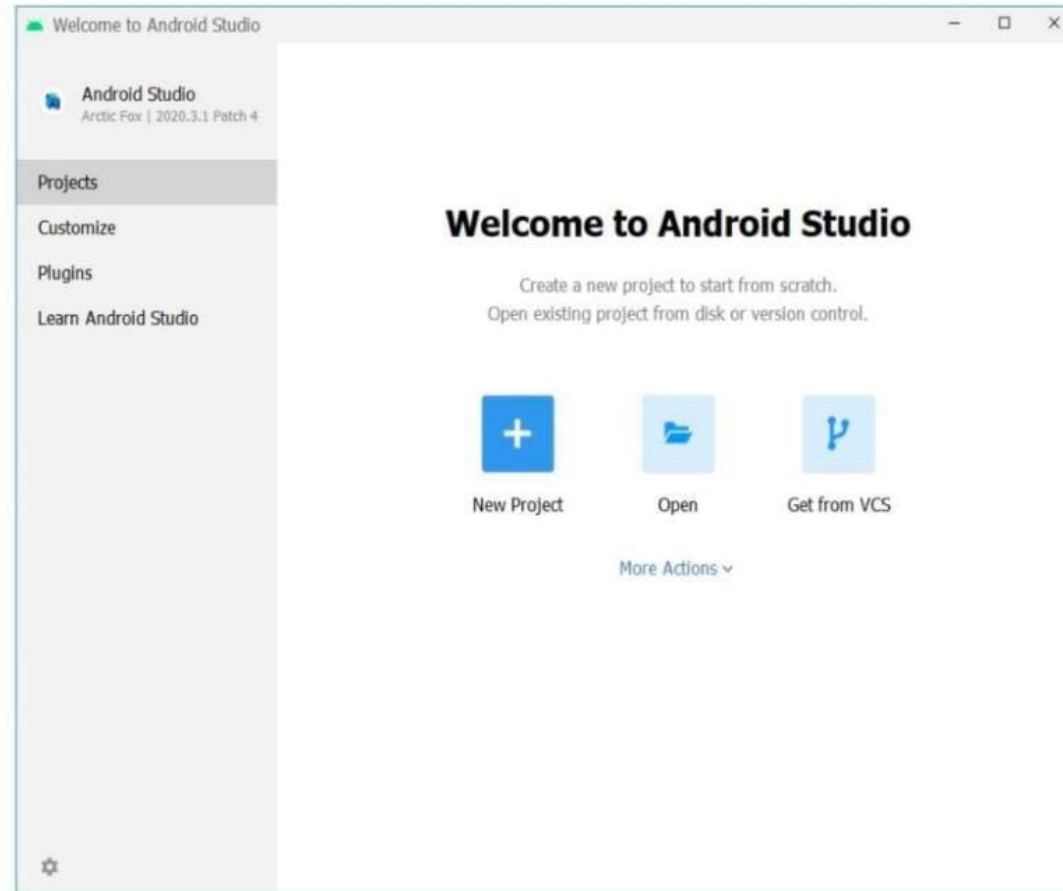
- ☐ Private networks, such as my home or work network
- ☒ Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)

[What are the risks of allowing an app through a firewall?](#)



Allow access

Cancel



CREATE AN ANDROID APPLICATION

STEPS:

1. Open Android Studio.
2. In the Welcome to Android Studio dialog, click Start a new Android Studio project.
3. Select Basic Activity (not the default)

-
-
4. Give your application a name such as My First App.
 5. Make sure the Language is set to Java.
 6. Leave the defaults for the other fields.
 7. Click Finish.

ENABLE LOCATION SERVICE TO THE APPLICATION

CODE:

```
private void getLocationPermission() {
    Log.d(TAG, "getLocationPermission: getting location
permissions");
    String[] permissions =
{Manifest.permission.ACCESS_FINE_LOCATION,
    Manifest.permission.ACCESS_COARSE_LOCATION};

    if
(ContextCompat.checkSelfPermission(this.getApplicationContext(),
        FINE_LOCATION) ==
PackageManager.PERMISSION_GRANTED) {
        if
(ContextCompat.checkSelfPermission(this.getApplicationContext(),
            COURSE_LOCATION) ==
PackageManager.PERMISSION_GRANTED) {
```

```
        mLocationPermissionsGranted = true;
        initMap();
    } else {
        ActivityCompat.requestPermissions(this,
            permissions,
            LOCATION_PERMISSION_REQUEST_CODE);
    }
} else {
    ActivityCompat.requestPermissions(this,
        permissions,
        LOCATION_PERMISSION_REQUEST_CODE);
}
}

// HANDLE REQUEST PERMISSION RESULT
// ONCE
```


Location permission



Android Auto

LOCATION ACCESS FOR THIS APP

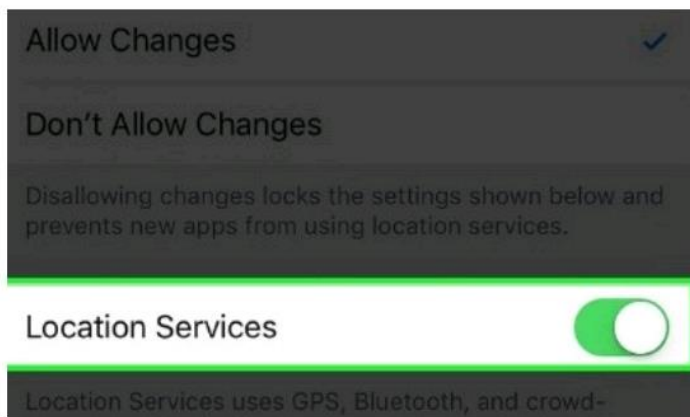
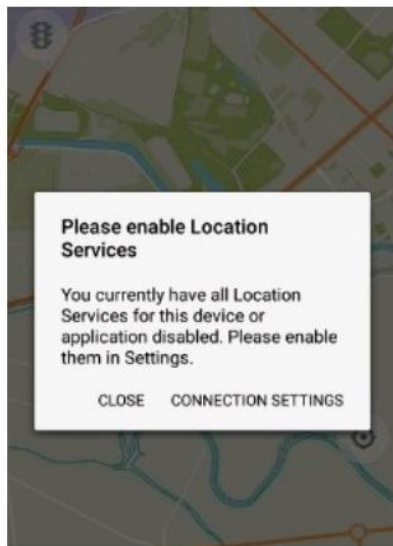
- ☒ Allow only while using the app
- ☐ Ask every time
- ☐ Don't allow

Use precise location

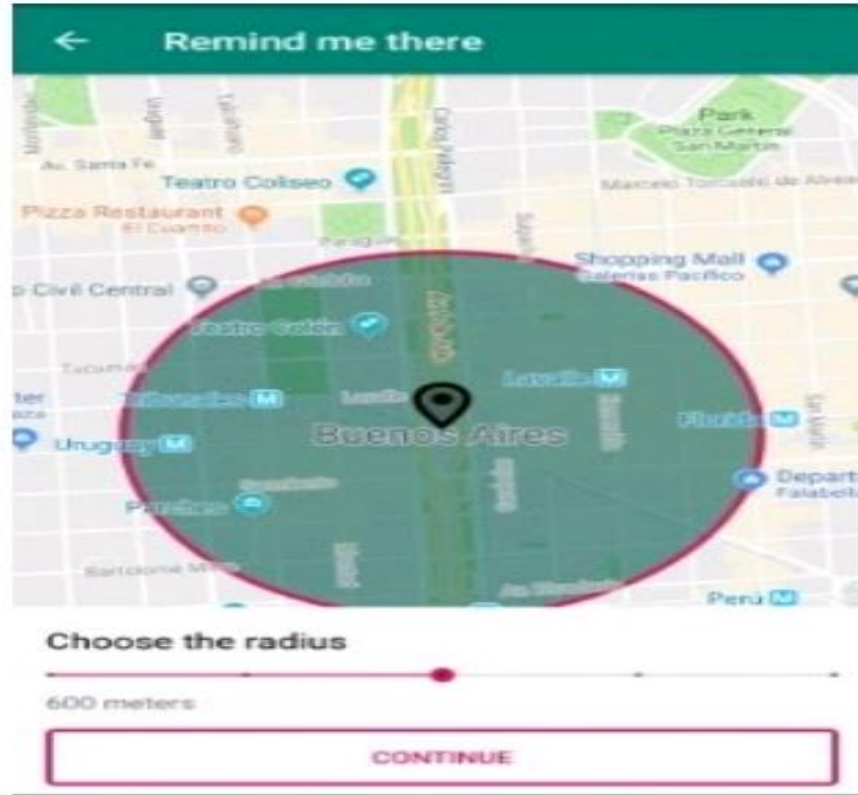
When precise location is off, apps can access your approximate location

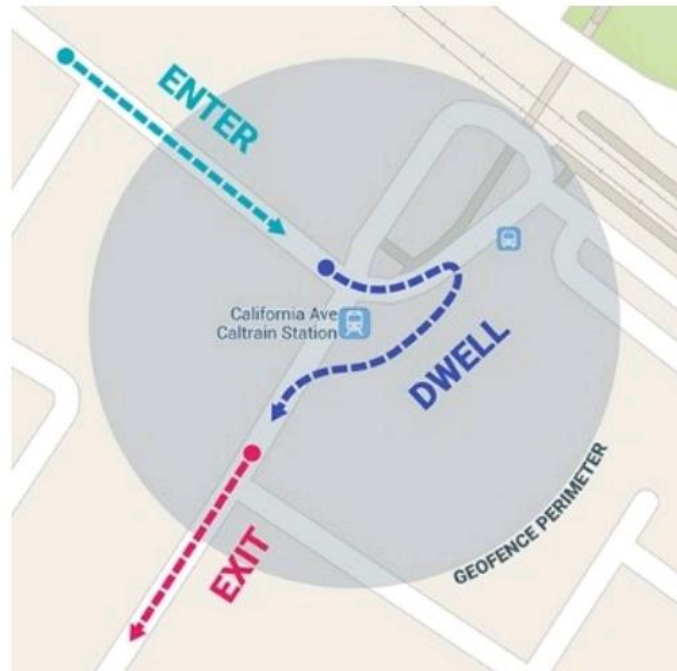


[See all Android Auto permissions](#)



GEOFENCE IN ANDROID APP





BUILD THE APK FILE FOR THE PROJECT

CODE:

```
$ ionic cordova platform add ios
```

```
$ ionic cordova build ios
```

****RUN THE PROJECT ON THE IOS PLATFORM IN DEBUG MODE****

```
$ ionic cordova platform add ios
```

```
$ ionic cordova build ios --debug
```

****BUILD THE APK FILE FOR THE PROJECT****

```
$ ionic cordova build ios --prod
```

****RELEASE THE APK FILE FOR THE PROJECT****

```
$ ionic cordova build ios --prod --release
```

STEPS:

1. Open the project in Android Studio.
2. Click File > Build > Generate Signed APK.
3. In the next window, select either app or module in the Module drop down.
4. Select the release configuration and click Next.
5. Enter the keystore path, password, and alias. Then, click Next.
6. Select the destination directory and click Finish.