# Install npm and nodejs

Check if you already have them installed and what version it is:

npm -v

node -v

See <https://docs.npmjs.com/downloading-and-installing-node-js-and-npm>

The open client code requires node version 12. Installers for previous versions of Nodejs can be found at <https://nodejs.org/en/download/releases/>

# Install Visual Studio Code

<https://code.visualstudio.com/>

After you have Visual Studio Code installed, install these extensions:

Graphical user interface, text, application, chat or text message

Description automatically generated

Text

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

A picture containing text

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Text

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# Install Postman

<https://www.postman.com/downloads/>

You are not required to create a Postman account when you use the app.

# Install ngrok

<https://ngrok.com/download>

It is a good idea to setup a free ngrok account, otherwise your ngrok session times out and you must get a new URL.

# Install Docker Desktop

<https://www.docker.com/products/docker-desktop>

A docker account is not required.

# Install Android Studio

Only required if you are working on the JMAP Ltt.rs app.

<https://developer.android.com/studio>

# Clients

Apple Mail/Calendar/Contacts/Reminders come installed with macOS. These can be used for both EWS and IMAP testing.

I believe you need Microsoft Exchange or Office 360 in order to use the Outlook client on macOS. Note: We are not going to support Outlook on Windows. It does not use EWS.

Another IMAP client is Thunderbird. <https://www.thunderbird.net/>

Ltt.rs is an open source JMAP client that we use for testing JMAP. The source code can be download from <https://github.com/iNPUTmice/lttrs-android>