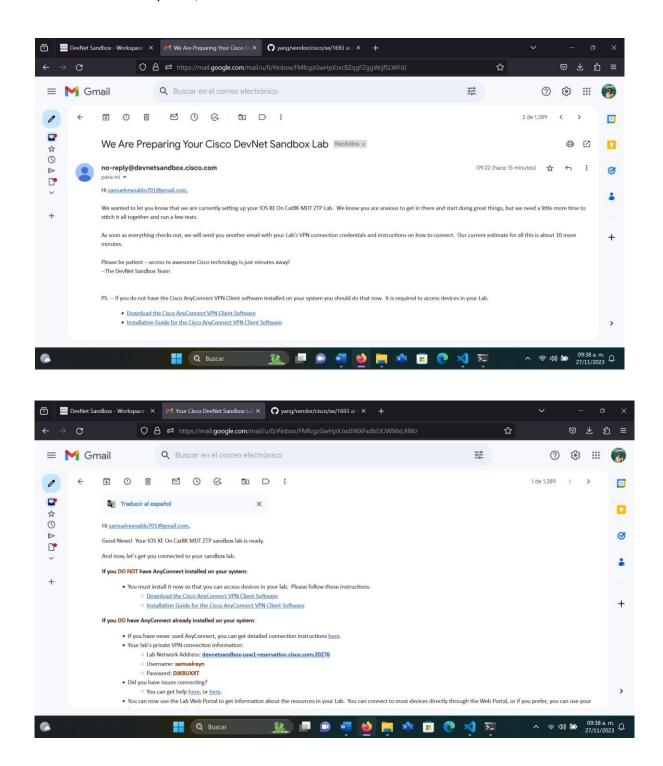
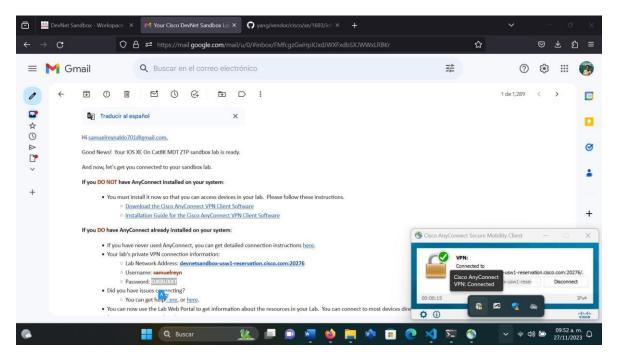
## Olvera lira samuel Reynaldo, GIRO541



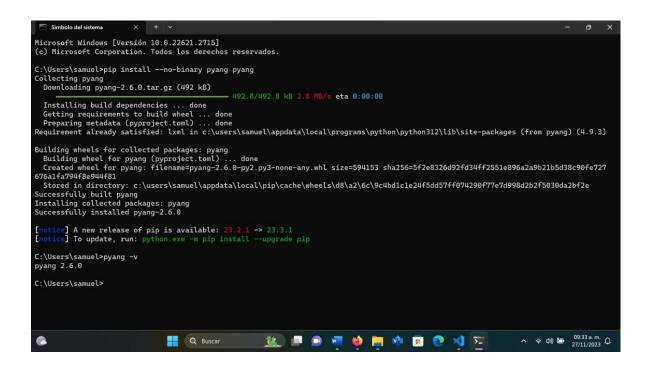


## Step 1: Use pip to install pyang.

- a. Start a new Windows command prompt (cmd).
- b. Install pyang using pip in the Windows command prompt:

```
pip install --no-binary pyang pyang

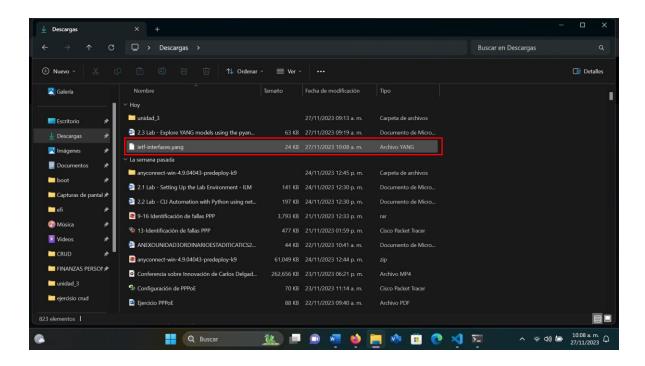
NOTE: on mac or linux you can simply "pip install pyang" but
temporarily on Windows the binary WHL file won't include the Windows
executable pyang file.
```



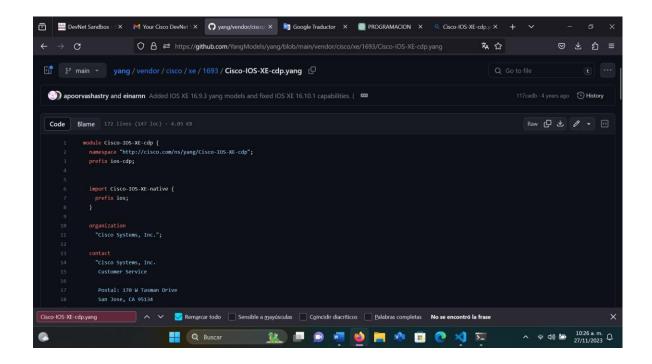
Use the pyang command line tool to transform the YANG models

```
14/11/2023 03:59 a. m.
07/05/2022 11:55 a. m.
04/09/2023 09:10 p. m.
                                                  536 Windows (C) - Acceso directo.lnk
407,049 worksheet-so-because20_removed.pdf
13,339,662 • Características políticas, sociales, económicas y culturales del MUNDO PREHISPÁNICO.mp4
 Directorio de C:\Users\samuel\Downloads
                     805 archivos 5,560,208,896 bytes
20 dirs 49,794,932,736 bytes libres
C:\Users\samuel\Downloads>pyang -f tree ietf-interfaces.yang
    dule: ietf-interfaces
+--rw interfaces
         +--rw interface* [name]
             +--rw name
+--rw description?
                                                                    string
       +--rw description? string
+--rw type identityref
+--rw enabled? boolean
-ro interfaces-state
+--ro interface* [name]
            ro interface* [name]
+--ro name
+--ro type
+--ro domin-status
+--ro last-change?
+--ro if-index
+--ro phys-address?
+--ro loser-layer-if*
+--ro speed?
+--ro speed?
                                                     string
identityref
enumeration {if-mib}?
enumeration
                                                     yang:date-and-time
int32 {if-mib}?
                                                     yang:phys-address
interface-state-ref
interface-state-ref
yang:gauge64
             +--ro statistics
+--ro discontinuity-time yang:date-and-time
                                                                                       Q Buscar
```

Step 2: Download the YANG models for the IOS XE VM



Explore other YANG modules, for example the Cisco Native model for CDP: Cisco-IOS-XEcdp.yang



a. Are there any "read only" operation data in the Cisco-IOS-XE-cdp.yang model?

Si,si hay varios nodos, cdp-neighbor-details, cdp-cache-entries

- b. Is there any other YANG model that includes operational CDP data?
- Sí, además del modelo Cisco-IOS-XE-cdp.yang, existen otros modelos YANG que incluyen datos CDP