



2.3 Lab - Explore YANG models using the `pyang` tool

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Step 1: Use pip to install `pyang`.

- Start a new Windows command prompt (`cmd`).
- 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.
- Verify that `pyang` has been successfully installed. In the command prompt, type:

```
pyang -v
```


to display the installed `pyang` version.

Download YANG models for the IOS XE

Explore YANG models on the YangModels/yang GitHub repository.

- Using a web browser, navigate to <https://github.com/YangModels/yang>.
- Navigate to the vendor->cisco->xe->1693 directory. This directory represents all the YANG models that are supported in Cisco operating system IOS XE in version 16.9.3.

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c. Explore the `ietf-interfaces.yang` model.

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apoorvashastry and einarn Added IOS XE 16.9.3 yang models a... 4 years ago

Name	Last commit message	Last commit date
..		
MIBS	Added IOS XE 16.9.3 yang...	4 years ago
cbr	Added IOS XE 16.9.3 yang...	4 years ago

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Part 2: Use the `pyang` command line tool to transform the YANG models

- Start a Windows command prompt and navigate to the directory with the extracted archive file.
- Use the `pyang` tool to transform YANG files to a human readable format, for example using the "tree" format transformation:

```
pyang -f tree ietf-interfaces.yang
```
- Explore other YANG modules, for example the Cisco Native model for CDP: `cisco-ios-xe-cdp.yang`

```
pyang -f tree cisco-ios-xe-cdp.yang
```
- Are there any "read only" operation data in the `cisco-ios-xe-cdp.yang` model?
Si, estos se muestran al desplegarlos con el comando `pyang -f tree`
- Is there any other YANG model that includes operational CDP data?

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Símbolo del sistema

```
+--ro out-discards?      yang:counter32
+--ro out-errors?       yang:counter32

C:\Users\bryan\Downloads>pyang -f tree ietf-interfaces.yang
module: ietf-interfaces
+--rw interfaces
|   +--rw interface* [name]
|   |   +--rw name                string
|   |   +--rw description?       string
|   |   +--rw type                identityref
|   |   +--rw enabled?            boolean
|   |   +--rw link-up-down-trap-enable? enumeration {if-mib}?
|   +--rw interfaces-state
+--ro interface* [name]
```

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¡Hola, Bryan!

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