

Ryu Controller

Wednesday, January 4, 2017 12:26 PM

Just discovered that
I can accomplish

MON-START
MON-PARAM CHANGE
MON-STOP
with edit-config } operations.
 → Create
 → Remove
 → Merge

So, on Ryu-SDN controller side,
Use the API wrappers as below.

MON-START } → edit-config, "Create"
MON-STOP } → edit-config, "Remove"
MON-PARAM-CHANGE } → edit-config, "Merge".

For handling Notif, there is
a "listener" defined by the
"Session" class (ncclient package).

Figure out a way to use it
so that Notif's could be
handled synchronously.

Ryu SDN Controller : Latest version 4.10 downloaded to the local folder from this repository.
<https://github.com/osrg/ryu/releases/tag/v4.10>

There are some instructions available in readme file in the mentioned path.
It is sufficient to run the below command.

shrikanth@mds:~/RYU/ryu-4.10\$ **sudo python setup.py install**

Additionally, install **pip install -r tools/optional-requirements**

Uninstall the **ncclient** that came with Ryu Controller.

To install ncclient that supports subscription, uninstall the one that came with Ryu and follow the steps as in the readme.txt document of ncclient distribution.

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#### Requirements:
* version >= Python 2.6 or Python3
* setuptools 0.6+
* Paramiko 1.7+
* lxml 3.3.0+
```

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* libxml2
* libxslt

If you are on Debian/Ubuntu install the following libs (via aptitude or apt-get):
* libxml2-dev
* libxslt1-dev

#### Installation:

[ncclient] $ sudo python setup.py install

or via pip:

pip install ncclient
```

I had to run this to get the module working.

<http://stackoverflow.com/questions/28329977/parse-xml-file-in-python-and-display-it-in-html-page> --> this is important for RYU Programming.

This is to fix the element Tag functionality.

<http://stackoverflow.com/questions/19888280/replacing-xml-tags-in-python>

<http://stackoverflow.com/questions/18159221/remove-namespace-and-prefix-from-xml-in-python-using-lxml>

<https://sourceforge.net/p/ryu/mailman/message/29988398/> --> Defining RYU Events. And running multiple applications simultaneously!!

ryu/controller/dpset.py

From <<https://sourceforge.net/p/ryu/mailman/message/29988398/>>

http://ryu.readthedocs.io/en/latest/api_ref.html