netconf_client Documentation

ADTRAN

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CHAPTER 1

Quick Start

In order to connect to a NETCONF server we can use one of the <code>connect</code> methods from the <code>netconf_client.</code> connect module. In our example we will connect to a NETCONF server running over SSH, so we will use the <code>connect_ssh</code> function.:

The object returned from any of the connect functions is a Session object. It acts as a context manager, and as such it should generally be used alongside a with statement. It is important to either use a with statement with the object, or to manually call Session.close in order to free the sockets associated with the connection.

The Session object can be used to send and receive raw messages. However, a higher-level API is desireable in most circumstances. For this we can use the Manager class.

The Manager class is from the netconf_client.ncclient module. The module overall attempts to mimick the most common uses of the ncclient API (another, Open Source, Python NETCONF client). Most of the common NETCONF operations such as performing an <edit-config> or a <get> are implemented as functions of this class.

In this example we will perform an <edit-config> for a single node, and then run a <get-config> to see the change.:

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An instance of the Manager class should be a drop-in replacement for a manager object from neclient.

CHAPTER 2

Migrating

To migrate from the neclient API to the netconf_client API you can generally follow these two steps.

First change your imports. For example, convert from:

```
from ncclient.operations import RPCError
from ncclient.xml_ import to_ele
```

To this:

```
from netconf_client.ncclient import RPCError, to_ele
```

Then you will need to migrate your connection code. For example, if your old connection method looked like this:

Then your new connection code should look like this:

As long as the existing code isn't doing anything too crazy, these should be the only changes needed.

CHAPTER 3

netconf_client API

- 3.1 netconf_client.connect
- 3.2 netconf_client.ncclient
- 3.3 netconf_client.session
- 3.4 netconf_client.error

$\mathsf{CHAPTER}\, 4$

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