

===== RESTART: C:/Users/Nergal/Desktop/lab28.py =====

Squeezed text (202 lines).

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```
<?xml version="1.0" encoding="UTF-8"?>
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="urn:uuid:
86f4a0b9-d0e9-4f2e-ad78-lcea6bb3e320" xmlns:nc="urn:ietf:params:xml:ns:netconf:b
ase:1.0"><data><native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native"><ver
sion>16.11</version><boot-start-marker/><boot-end-marker/><banner><motd><banner>
^C</banner></motd></banner><memory><free><low-watermark><processor>80557</proces
sor></low-watermark></free></memory><call-home><contact-email-addr xmlns="http://
cisco.com/ns/yang/Cisco-IOS-XE-call-home">sch-smart-licensing@cisco.com</contac
t-email-addr><profile xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-call-home"><p
rofile-name>CiscoIAC-1</profile-name><active>true</active></profile></call-home>
<service><timestamps><debug><datetime><msec></msec></datetime></debug><log><date
time><msec></datetime></log></timestamps><call-home/></service><platform><conso
le xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-platform"><output>virtual</outpu
t></console></platform><hostname>csr1000v-1</hostname><enable><secret><type>9</t
ype><secret>$9$4fdKs44VXjq2x.$Zahb8Zy6RQwM9ONMvWkNq4k3igSv4v2KkH/uUuqr09s</secre
t></secret></enable><username><name>cisco</name><privilege>15</privilege><secret
><encryption>9</encryption><secret>$9$yGG2/zjAgFbMt.$Un2G70.Ahe5Q6dkKyWuaIDdmuc
5.4ax8uQxE7zzpQU</secret></secret></username><username><name>developer</name><pr
ivilege>15</privilege><secret><encryption>9</encryption><secret>$9$hXxkjeoVpPlNs
E6dJrWUSyHgy2dj/VbEM3Ce.wwesn89iOUyQUbBy76dX.</secret></secret></username><usern
ame><name>root</name><privilege>15</privilege><secret><encryption>9</encryption>
<secret>$9$98fva3XgX2LKbE$NtueqkfF8CJ8eMs8w42rVCqcD3OWs3tVfFRPoeTgl6</secret></
secret></username><ip><domain><name>abc.inc</name></domain><forward-protocol><pr
otocol>nd</protocol></forward-protocol><route><ip-route-interface-forwarding-lis
t><prefix>0.0.0.0</prefix><mask>0.0.0.0</mask><fwd-list><fwd>GigabitEthernet1</f
wd><interface-next-hop><ip-address>10.10.20.254</ip-address></interface-next-hop
></fwd-list></ip-route-interface-forwarding-list></route><scp><server><enable></
server></scp><ssh><rsa><keypair-name>ssh-key</keypair-name></rsa><version>2</ve
rsion></ssh><access-list><extended xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-
acl"><name>meraki-fqdn-dns</name></extended></access-list><http xmlns="http://ci
sco.com/ns/yang/Cisco-IOS-XE-http"><authentication><local></authentication><ser
ver>true</server><secure-server>true</secure-server></http></ip><interface><Giga
bitEthernet><name>1</name><description>MANAGEMENT INTERFACE - DON'T TOUCH ME</de
scription><ip><address><primary><address>10.10.20.48</address><mask>255.255.255.
0</mask></primary></address></ip><mon><enabled>false</enabled><svsid>false</svsi
```

# Result : Beauty XML

```

4  xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
5  <data>
6    <native
7      xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native">
8        <version>16.11</version>
9        <boot-start-marker/>
10       <boot-end-marker/>
11       <banner>
12         <motd>
13           <banner>^C</banner>
14         </motd>
15       </banner>
16       <memory>
17         <free>
18           <low-watermark>
19             <processor>80557</processor>
20           </low-watermark>
21         </free>
22       </memory>
23       <call-home>
24         <contact-email-addr
25           xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-
             -call-home">sch-smart-licensing@cisco.com
26         </contact-email-addr>
27         <profile
28           xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-
             -call-home">
29           <profile-name>CiscoTAC-1</profile-name>
30           <active>true</active>
31         </profile>
32       </call-home>
33       <service>
34         <timestamps>
35           <debug>
36             <latetime>
37               <msec></msec>
38             </latetime>

```

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```
import ncclient
from ncclient import manager
import xml.dom.minidom

m = manager.connect(
    host="10.10.20.48",
    port=830,
    username="developer",
    password="Cisc012345",
    hostkey_verify=False
)

netconf_reply = m.get_config(source="running")
print(netconf_reply)
import ncclient
from ncclient import manager
import xml.dom.minidom

m = manager.connect(
    host="10.10.20.48",
    port=830,
    username="developer",
    password="Cisc012345",
    hostkey_verify=False
)

netconf_reply = m.get_config(source="running")
netconf_filter = """
<filter>
    <native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native" />
</filter>
"""
netconf_reply = m.get_config(source="running", filter=netconf_filter)
print(xml.dom.minidom.parseString(netconf_reply.xml).toprettyxml())
```