



@ FILE NAME: M_CTC_ID_022.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for MCB1: v1.0.1

Test Description: This scenario is MANDATORY for an O-RU supporting the Hybrid M-plane architecture model.

This test validates that the O-RU correctly implements NETCONF Access Control user privileges.

The scenario corresponds to the following chapters in [3]:

3.4 NETCONF Access Control



****** Connect to the NETCONF Server ********

> status

Current NETCONF session:

ID : 6

Host : 192.168.49.43

Port: 830 Transport: SSH Capabilities:

urn:ietf:params:netconf:base:1.0 urn:ietf:params:netconf:base:1.1 urn:ietf:params:netconf:capability:writable-running:1.0 urn:ietf:params:netconf:capability:candidate:1.0 urn:ietf:params:netconf:capability:rollback-on-error:1.0 urn:ietf:params:netconf:capability:validate:1.1 urn:ietf:params:netconf:capability:startup:1.0 urn:ietf:params:netconf:capability:xpath:1.0 urn:ietf:params:netconf:capability:with-defaults:1.0?basic-mode=explicit&also-supported=report-all,report-all-tagged,trim,explicit urn:ietf:params:netconf:capability:notification:1.0 urn:ietf:params:netconf:capability:interleave:1.0 urn:ietf:params:xml:ns:yang:ietf-yang-metadata?module=ietf-yang-metadata&revision=2016-08-05 urn:ietf:params:xml:ns:yang:1?module=yang&revision=2017-02-20 urn:ietf:params:xml:ns:yang:ietf-inet-types?module=ietf-inet-types&revision=2013-07-15 urn:ietf:params:xml:ns:yang:ietf-yang-types?module=ietf-yang-types&revision=2013-07-15 urn:ietf:params:netconf:capability:yang-library:1.1?revision=2019-01-04&content-id=63 urn:sysrepo:plugind?module=sysrepo-plugind&revision=2020-12-10 urn:ietf:params:xml:ns:yang:ietf-netconf-acm?module=ietf-netconf-acm&revision=2018-02-14 urn:ietf:params:xml:ns:netconf:base:1.0?module=ietf-netconf&revision=2013-09-29&features=writable-running,candidate,rollback-on-error,valid ate,startup,url,xpath urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults?module=ietf-netconf-with-defaults&revision=2011-06-01 urn:ietf:params:xml:ns:yang:ietf-netconf-notifications?module=ietf-netconf-notifications&revision=2012-02-06 urn:ietf:params:xml:ns:yang:ietf-netconf-monitoring?module=ietf-netconf-monitoring&revision=2010-10-04 urn:ietf:params:xml:ns:netconf:notification:1.0?module=notifications&revision=2008-07-14 urn:ietf:params:xml:ns:netmod:notification?module=nc-notifications&revision=2008-07-14 urn:ietf:params:xml:ns:yang:ietf-x509-cert-to-name?module=ietf-x509-cert-to-name&revision=2014-12-10 urn:ietf:params:xml:ns:yang:iana-crypt-hash?module=iana-crypt-hash&revision=2014-08-06 urn:notification_history?module=notification_history urn:ietf:params:xml:ns:yang:iana-if-type?module=iana-if-type&revision=2017-01-19

> subscribe

Ok



####### Initial Get Filter ####### > get --filter-xpath /o-ran-usermgmt:users/user <?xml version="1.0" ?> <data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"> <users xmlns="urn:o-ran:user-mgmt:1.0"> <user> <name>oranuser</name> <account-type>PASSWORD</account-type> <password>oranuser</password> <enabled>true</enabled> </user> <user> <name>operator</name> <account-type>PASSWORD</account-type> <password>admin1234895</password> <enabled>true</enabled> </user> <user> <name>observer</name> <account-type>PASSWORD</account-type> <password>admin123</password> <enabled>true</enabled> </user> <user> <name>installer</name> <account-type>PASSWORD</account-type> <password>wireless123</password> <enabled>true</enabled> </user> <user> <name>garuda</name> <account-type>PASSWORD</account-type> <password>garuda12345</password> <enabled>true</enabled> </user> <user> <name>operator11302326379</name> <account-type>PASSWORD</account-type> <password>Aemlsk9}{2xgQVF</password> <enabled>true</enabled> </user> <user>

<name>operator44567591</name>



```
<account-type>PASSWORD</account-type>
     <password>yo7)BAFyAm0M7W1lc2mEA_D5[5YytpafL6xTTCXM%Q]~Z2Fv^</password>
     <enabled>true</enabled>
    </user>
   <user>
     <name>operator8075861281902</name>
     <account-type>PASSWORD</account-type>
     <\!password\!>\!GV2QSHVzl\}B)vk(!tw2pZhuFkkn\%L^AE)wgk(Z\{KfgXCpdkfEA+NGMY(B^+kDYB8R06v<\!/password\!>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!/password>\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!BR06v<\!
     <enabled>true</enabled>
   </user>
   <user>
     <name>operator17619020756748090</name>
     <account-type>PASSWORD</account-type>
     <password>nwk75gnD[44LqeBrwKFcBvaUNPKz6gARf_M.EHxwG.EGuk{-n_Os0avM}$XZ}LBYNb+)M!NcV0RunG}_-)9F2gu%nKKsd+X
kOgXvIYxh%QxBQsA7EYqB</password>
     <enabled>true</enabled>
   </user>
   <user>
     <name>operator86938204120707827368</name>
     <account-type>PASSWORD</account-type>
     <password>s8icesF.Hl~%FN4_]!MKBMVqa]{RUQkL07x.+)-VmZfAh3nJxwS+y6I!</password>
     <enabled>true</enabled>
   </user>
   <user>
     <name>operator7596639986022389968</name>
     <account-type>PASSWORD</account-type>
     <password>v+Dq5KtKuj(^!x</password>
     <enabled>true</enabled>
   </user>
   <user>
     <name>operator0126795795152205</name>
     <account-type>PASSWORD</account-type>
     < password>RdP1GycV9r]R15N_k7Hnz5wF)vjY\sim dxBE!v^MxSq4Gke1nCkSCW+1)1z\%2\}kOtLnjiWbj]EY7QUk\%15H0g\sim QYlrR0bRkZMz1x+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+12k^2+1
TyDy3ca6-r</password>
     <enabled>true</enabled>
   </user>
   <user>
     <name>operator119986</name>
     <account-type>PASSWORD</account-type>
     <password>1Xrl)+$ki)QolcMi)vVRig.u/password>
     <enabled>true</enabled>
    </user>
   <user>
     <name>stl</name>
     <account-type>PASSWORD</account-type>
     <password>stli12345</password>
     <enabled>true</enabled>
   </user>
   <user>
```



```
<name>operator72008202</name>
 <account-type>PASSWORD</account-type>
 <password>INxRH3HsE</password>
 <enabled>true</enabled>
 </user>
 <user>
 <name>operator06308723954138</name>
 <account-type>PASSWORD</account-type>
 <password>36eb.%^8cvTFI~5SYnjID9E7pVT$A9bJ]VKkDyfolI}Y~1V3uJWrh~]I^o4i}SzQJCD!ufgDHsR5pM-m-xLeMj(vl</password>
 <enabled>true</enabled>
 </user>
 <user>
 <name>operator21726001215379102</name>
 <account-type>PASSWORD</account-type>
 <password>PuUPKD.3JY4^2f1i$T~CTW12CO8yWjU$b}12jZwrb7kpkwd(b%2s1S}</password>
 <enabled>true</enabled>
 </user>
</users>
</data>
> edit-config --target running --config --defop merge
****** Replace with below xml ******
      <config xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
      <users xmlns="urn:o-ran:user-mgmt:1.0">
        <user>
          <name>operator441110748091</name>
          <account-type>PASSWORD</account-type>
< password> uo7gz!W^7YY9Z23.\%JJ\$u[gDTV8E4EQuhke.8te(7xrg3v9kkN!6E3^VWGI-NuR^oQO-Z9\sim rDUBDqgxNC\sim u\%]rKM1YSv.nD\{pI
assword>
          <enabled>true</enabled>
        </user>
      </users>
      </config>
Ok
***** NOTIFICATIONS ******
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
<eventTime>2103-10-30T00:40:35Z</eventTime>
```



```
<netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
 <changed-by>
 <username>root</username>
 <session-id>6</session-id>
 </changed-by>
 <datastore>running</datastore>
 <edit>
 <target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:users/o-ran-usermgmt:name='operator441110748091']<
/target>
 <operation>create</operation>
 </edit>
 <edit>
 <target
.xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator441110748091']
o-ran-usermgmt:name</target>
 <operation>create</operation>
 </edit>
 <edit>
 <target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator441110748091']/
o-ran-usermgmt:account-type</target>
 <operation>create</operation>
 </edit>
 <edit>
 <target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator441110748091']/
o-ran-usermgmt:password</target>
 <operation>create</operation>
 </edit>
 <edit>
 <target
xmlns:o-ran-usermgmt="urn:o-ran:user-mgmt:1.0">/o-ran-usermgmt:users/o-ran-usermgmt:user[o-ran-usermgmt:name='operator441110748091']/
o-ran-usermgmt:enabled</target>
 <operation>create</operation>
 </edit>
</netconf-config-change>
</notification>
> edit-config --target running --config --defop merge
****** Replace with below xml ******
<config xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
<nacm xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-acm">
 <groups>
```





Ok	
<user-name>operator441110748091</user-name>	
<name>swm</name>	
<group></group>	
(anoun)	



****** NOTIFICATIONS ****** <?xml version="1.0" ?> <notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0"> <eventTime>2103-10-30T00:40:35Z</eventTime> <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications"> <changed-by> <username>root</username> <session-id>6</session-id> </changed-by> <datastore>running</datastore> <edit> <target xmlns:nacm="urn:ietf:params:xml:ns:yang:ietf-netconf-acm">/nacm:nacm/nacm:groups/n <operation>create</operation> </edit> <edit> <target xmlns:nacm="urn:ietf:params:xml:ns:yang:ietf-netconf-acm">/nacm:nacm/nacm:groups/nacm:group[nacm:name='swm']/nacm:name</target> <operation>create</operation> </edit> <edit> <target xmlns:nacm="urn:ietf:params:xml:ns:yang:ietf-netconf-acm">/nacm:nacm/nacm:groups/nacm:group[nacm:name='swm']/nacm:user-name[.='opera tor441110748091']</target> <operation>create</operation> </edit> </netconf-config-change> </notification> > get --filter-xpath /ietf-netconf-acm:nacm/groups <?xml version="1.0" ?> <data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"> <nacm xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-acm"> <groups> <group> <name>sudo</name> <user-name>operator</user-name> </group> <group> <name>fm-pm</name> <user-name>observer</user-name> </group> <group> <name>nms</name> <user-name>installer</user-name>





```
</group>
<group>
<name>swm</name>
<user-name>operator441110748091</user-name>
</group>
</groups>
</nacm>
</data>
```



> get --filter-xpath /o-ran-usermgmt:users/user

```
<?xml version="1.0" ?>
<data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
<users xmlns="urn:o-ran:user-mgmt:1.0">
 <user>
 <name>oranuser</name>
 <account-type>PASSWORD</account-type>
 <password>oranuser</password>
 <enabled>true</enabled>
 </user>
 <user>
 <name>operator</name>
 <account-type>PASSWORD</account-type>
 <password>admin1234895</password>
 <enabled>true</enabled>
 </user>
 <user>
 <name>observer</name>
 <account-type>PASSWORD</account-type>
 <password>admin123</password>
 <enabled>true</enabled>
 </user>
 <user>
 <name>installer</name>
 <account-type>PASSWORD</account-type>
 <password>wireless123</password>
 <enabled>true</enabled>
 </user>
 <user>
 <name>garuda</name>
 <account-type>PASSWORD</account-type>
 <password>garuda12345</password>
 <enabled>true</enabled>
 </user>
 <user>
 <name>operator11302326379</name>
 <account-type>PASSWORD</account-type>
 <password>Aemlsk9}{2xgQVF</password>
 <enabled>true</enabled>
 </user>
 <user>
 <name>operator44567591</name>
 <account-type>PASSWORD</account-type>
 <password>yo7)BAFyAm0M7W1lc2mEA_D5[5YytpafL6xTTCXM%Q]~Z2Fv^</password>
 <enabled>true</enabled>
```

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</user>



```
<user>
     <name>operator8075861281902</name>
     <account-type>PASSWORD</account-type>
     <password>GV2QSHVzl}B)vk(!tw2pZhuFkkn%L^E)wgk(Z{KfgXCpdkfEA+NGMY(B^+kDYB8R06v</password>
     <enabled>true</enabled>
   </user>
   <user>
     <name>operator17619020756748090</name>
    <account-type>PASSWORD</account-type>
     <password>nwk75gnD[44LqeBrwKFcBvaUNPKz6gARf_M.EHxwG.EGuk{-n_Os0avM}$XZ}LBYNb+)M!NcV0RunG}_-)9F2gu%nKKsd+X
kOgXvIYxh%QxBQsA7EYqB</password>
     <enabled>true</enabled>
   </user>
   <user>
     <name>operator86938204120707827368</name>
     <account-type>PASSWORD</account-type>
     <\!password\!>\!s8icesF.Hl\!\sim\!\%FN4\_]!MKBMVqa]\{RUQkL07x.+)-VmZfAh3nJxwS+y6I!<\!/password\!>\!password\!>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>\!password>
     <enabled>true</enabled>
   </user>
   <user>
     <name>operator7596639986022389968</name>
     <account-type>PASSWORD</account-type>
     <password>v+Dq5KtKuj(^!x</password>
     <enabled>true</enabled>
   </user>
   <user>
     <name>operator0126795795152205</name>
    <account-type>PASSWORD</account-type>
     < password > RdP1GycV9r]R15N\_k7Hnz5wF)vjY \sim dxBE!v^MxSq4Gke1nCkSCW+1)1z\%2 \\ \\ kOtLnjiWbj]EY7QUk\%15H0g \sim QYlrR0bRkZMz1x+12W^2 + 2W^2 +
TyDy3ca6-r</password>
     <enabled>true</enabled>
   </user>
   <user>
     <name>operator119986</name>
     <account-type>PASSWORD</account-type>
     <password>1Xrl)+$ki)QolcMi)vVRig.u
     <enabled>true</enabled>
   </user>
   <user>
     <name>stl</name>
     <account-type>PASSWORD</account-type>
     <password>stli12345</password>
     <enabled>true</enabled>
   </user>
   <user>
     <name>operator72008202</name>
     <account-type>PASSWORD</account-type>
     <password>INxRH3HsE</password>
     <enabled>true</enabled>
```



```
</user>
<user>
 <name>operator06308723954138</name>
 <account-type>PASSWORD</account-type>
 <enabled>true</enabled>
</user>
<user>
 <name>operator21726001215379102</name>
 <account-type>PASSWORD</account-type>
 < password > PuUPKD.3JY4^2f1i\$T\sim CTW12CO8yWjU\$b\$12jZwrb7kpkwd(b\%2s1S\} </password > PuUPKD.3JY4^2f1i\$T\sim CTW12CO8yWjU\$b\$12jZwrb7kpkwd(b\%2s1S\} </password > PuUPKD.3JY4^2f1i\$T\sim CTW12CO8yWjU\$b\$12jZwrb7kpkwd(b\%2s1S\} </password > PuUPKD.3JY4^2f1i\$T\sim CTW12CO8yWjU\$b\$12jZwrb7kpkwd(b\%2s1S\} </password > PuUPKD.3JY4^2f1i\$T\sim CTW12CO8yWjU\$b\$12jZwrb7kpkwd(b\%2s1S\} 
 <enabled>true</enabled>
</user>
<user>
 <name>operator441110748091</name>
 <account-type>PASSWORD</account-type>
 /password>
 <enabled>true</enabled>
</user>
</users>
</data>
```



STEP 1 TER NETCONF client establishes a connection using a user account with swm privileges. ****** Connect to the NETCONF Server ******* The authenticity of the host '::ffff:192.168.49.43' cannot be established. ssh-rsa key fingerprint is c0:7c:63:5d:4b:85:e7:27:e0:7e:f0:44:38:4e:ab:83 Interactive SSH Authentication done. > status Current NETCONF session: ID : 7 : 192.168.49.43 Host Port . 830 Transport : SSH Capabilities: urn:ietf:params:netconf:base:1.0 urn:ietf:params:netconf:base:1.1 urn:ietf:params:netconf:capability:writable-running:1.0 urn:ietf:params:netconf:capability:candidate:1.0 urn:ietf:params:netconf:capability:rollback-on-error:1.0 urn:ietf:params:netconf:capability:validate:1.1 urn:ietf:params:netconf:capability:startup:1.0 urn:ietf:params:netconf:capability:xpath:1.0 urn:ietf:params:netconf:capability:with-defaults:1.0?basic-mode=explicit&also-supported=report-all,report-all-tagged,trim,explicit urn:ietf:params:netconf:capability:notification:1.0 urn:ietf:params:netconf:capability:interleave:1.0 urn:ietf:params:xml:ns:yang:ietf-yang-metadata?module=ietf-yang-metadata&revision=2016-08-05 urn:ietf:params:xml:ns:yang:1?module=yang&revision=2017-02-20 urn:ietf:params:xml:ns:yang:ietf-inet-types?module=ietf-inet-types&revision=2013-07-15 urn:ietf:params:xml:ns:yang:ietf-yang-types?module=ietf-yang-types&revision=2013-07-15 urn:ietf:params:netconf:capability:yang-library:1.1?revision=2019-01-04&content-id=63 urn:sysrepo:plugind?module=sysrepo-plugind&revision=2020-12-10 urn:ietf:params:xml:ns:yang:ietf-netconf-acm?module=ietf-netconf-acm&revision=2018-02-14 urn:ietf:params:xml:ns:netconf:base:1.0?module=ietf-netconf&revision=2013-09-29&features=writable-running,candidate,rollback-on-error,valid ate,startup,url,xpath urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults?module=ietf-netconf-with-defaults&revision=2011-06-01 urn:ietf:params:xml:ns:yang:ietf-netconf-notifications?module=ietf-netconf-notifications&revision=2012-02-06 urn:ietf:params:xml:ns:yang:ietf-netconf-monitoring?module=ietf-netconf-monitoring&revision=2010-10-04 urn:ietf:params:xml:ns:netconf:notification:1.0?module=notifications&revision=2008-07-14 urn:ietf:params:xml:ns:netmod:notification?module=nc-notifications&revision=2008-07-14 urn:ietf:params:xml:ns:yang:ietf-x509-cert-to-name?module=ietf-x509-cert-to-name&revision=2014-12-10 urn:ietf:params:xml:ns:yang:iana-crypt-hash?module=iana-crypt-hash&revision=2014-08-06 urn:notification_history?module=notification_history urn:ietf:params:xml:ns:yang:iana-if-type?module=iana-if-type&revision=2017-01-19 > subscribe Ok

Step 2 TER NETCONF client attempts to configure a new o-ran-sync.yang on the NETCONF server.

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> edit-config --target running --config --defop replace ****** Replace with below xml ****** ______ <sync xmlns="urn:o-ran:sync:1.0"> <ptp-config> <domain-number>24</domain-number> <accepted-clock-classes> <clock-classes>255</clock-classes> </accepted-clock-classes> <ptp-profile>G_8275_1</ptp-profile> <g-8275-1-config> <multicast-mac-address>FORWARDABLE</multicast-mac-address> <delay-asymmetry>0</delay-asymmetry> </g-8275-1-config> </ptp-config> <ptp-status> <reporting-period>10</reporting-period> </ptp-status> <synce-config> <acceptance-list-of-ssm>EEC1</acceptance-list-of-ssm> <ssm-timeout>10</ssm-timeout> </synce-config> <synce-status> <reporting-period>10</reporting-period> </synce-status> </sync>

Step 3 NETCONF server replies rejecting the protocol operation with an 'access-denied' error.

ERROR

type : access-denied tag : protocol severity : error

path : /o-ran-sync:sync/synce-config/acceptance-list-of-ssm

message : Access to the data model "o-ran-sync" is denied because "operator441110748091" NACM authorization failed.



Oct 30 00:40:27 mcb1 daemon.info netopeer2-server[979]: Trying to connect via IPv4 to 192.168.49.88:4334.

Oct 30 00:40:27 mcb1 daemon.info netopeer2-server[979]: getsockopt() error (Connection refused).

Oct 30 00:40:28 mcb1 daemon.info netopeer2-server[979]: Trying to connect via IPv4 to 192.168.49.88:4334.

Oct 30 00:40:28 mcb1 daemon.info netopeer2-server[979]: getsockopt() error (Connection refused).

Oct 30 00:40:28 mcb1 auth.info sshd[5341]: Accepted password for root from 192.168.49.88 port 34944 ssh2

Oct 30 00:40:28 mcb1 authpriv.info sshd[5341]: pam_unix(sshd:session): session opened for user root by (uid=0)

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Trying to connect via IPv4 to 192.168.49.88:4334.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Successfully connected to 192.168.49.88:4334 over IPv4.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Session 111 (user "root", CID 1) created.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Received an SSH message "request-service" of subtype "ssh-userauth".

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Received an SSH message "request-auth" of subtype "password".

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: User "root" authenticated.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Received an SSH message "request-channel-open" of subtype "session".

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Received an SSH message "request-channel" of subtype "subsystem".

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Call Home client "default-client" session 6 established.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Session 112 (user "root", CID 1) created.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Generated new event (netconf-session-start).

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Published event "rpc" "/ietf-netconf:get" with ID 9 priority 0 for 1 subscribers.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Processing "/ietf-netconf:get" "rpc" event with ID 9 priority 0 (remaining 1 subscribers).

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Successful processing of "rpc" event with ID 9 priority 0 (remaining 0 subscribers).

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Event "rpc" with ID 9 priority 0 succeeded.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Session 6: thread 2 event new RPC.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Published event "rpc" "/ietf-netconf:get" with ID 10 priority 0 for 1 subscribers.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Processing "/ietf-netconf:get" "rpc" event with ID 10 priority 0 (remaining 1 subscribers).

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Published event "operational" "/o-ran-software-management:software-inventory" with ID 4.

Oct 30 00:40:29 mcb1 user.notice fw_manager[1061]: RPC #4 recieved. xpath -> /o-ran-software-management:software-inventory

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Event "operational" with ID 4 succeeded.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: There is no leafref



"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Successful processing of "rpc" event with ID 10 priority 0 (remaining 0 subscribers).

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Event "rpc" with ID 10 priority 0 succeeded.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/o-ran-hardware:product-code" with the value "STL=O-RU", but it is not required.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Session 6: thread 2 event new RPC.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Published event "rpc" "/ietf-netconf:get-config" with ID 6 priority 0 for 1 subscribers.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Processing "/ietf-netconf:get-config" "rpc" event with ID 6 priority 0 (remaining 1 subscribers).

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Successful processing of "rpc" event with ID 6 priority 0 (remaining 0 subscribers).

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Event "rpc" with ID 6 priority 0 succeeded.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port1", but it is not required.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: There is no leafref

"/ietf-hardware:hardware/ietf-hardware:component/ietf-hardware:name" with the value "ru-port1", but it is not required.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:29 mcb1 daemon.info netopeer2-server[979]: Session 6: thread 3 event new RPC.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Published event "rpc" "/notifications:create-subscription" with ID 4 priority 0 for 1 subscribers.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Processing "/notifications:create-subscription" "rpc" event with ID 4 priority 0 (remaining 1 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Successful processing of "rpc" event with ID 4 priority 0 (remaining 0 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Event "rpc" with ID 4 priority 0 succeeded.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Session 6: thread 3 event new RPC.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...



Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Published event "rpc" "/ietf-netconf:get-config" with ID 7 priority 0 for 1 subscribers.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Processing "/ietf-netconf:get-config" "rpc" event with ID 7 priority 0 (remaining 1 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Successful processing of "rpc" event with ID 7 priority 0 (remaining 0 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Event "rpc" with ID 7 priority 0 succeeded.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Session 6: thread 1 event new RPC.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Published event "rpc" "/ietf-netconf:edit-config" with ID 3 priority 0 for 1 subscribers.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 3 priority 0 (remaining 1 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Published event "change" "o-ran-usermgmt" with ID 1 priority 0 for 1 subscribers.

Oct 30 00:40:35 mcb1 user.notice USERMGMT[1050]: operator441110748091 added successfully !!

Oct 30 00:40:35 mcb1 user.notice USERMGMT[1050]: operator441110748091 enabled !!

Oct 30 00:40:35 mcb1 user.notice USERMGMT[1050]: END OF CHANGES

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Event "change" with ID 1 priority 0 succeeded.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Published event "done" "o-ran-usermgmt" with ID 1 priority 0 for 1 subscribers.

Oct 30 00:40:35 mcb1 user.notice USERMGMT[1050]: END OF CHANGES

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of "/o-ran-usermgmt:users/user[name='operator441110748091']", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator441110748091']/name", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator441110748091']/account-type", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator441110748091']/password", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of

"/o-ran-usermgmt: users/user[name='operator 441110748091']/ enabled", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Processing "notif" "ietf-netconf-notifications" event with ID 1.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Published event "notif" "ietf-netconf-notifications" with ID 2 priority 0 for 1 subscribers.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of "/o-ran-usermgmt:users/user[name='operator441110748091']", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator 441110748091']/name", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of



"/o-ran-usermgmt:users/user[name='operator441110748091']/account-type", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator441110748091']/password", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator441110748091']/enabled", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Successful processing of "rpc" event with ID 3 priority 0 (remaining 0 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Event "rpc" with ID 3 priority 0 succeeded.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Session 6: thread 1 event new RPC.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Published event "rpc" "/ietf-netconf:edit-config" with ID 4 priority 0 for 1 subscribers.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 4 priority 0 (remaining 1 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Published event "done" "ietf-netconf-acm" with ID 3 priority 0 for 4 subscribers.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Processing "ietf-netconf-acm" "done" event with ID 3 priority 0 (remaining 4 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Successful processing of "done" event with ID 3 priority 0 (remaining 0 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Published event "notif" "ietf-netconf-notifications" with ID 3 priority 0 for 1 subscribers

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of "/ietf-netconf-acm:nacm/groups/group[name='swm']", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of "/ietf-netconf-acm:nacm/groups/group[name='swm']/name", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: There is no instance of

"/ietf-netconf-acm:nacm/groups/group[name='swm']/user-name[.='operator441110748091']", but it is not required.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Processing "notif" "ietf-netconf-notifications" event with ID 3.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Successful processing of "notif" event with ID 3 priority 0 (remaining 0 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Successful processing of "rpc" event with ID 4 priority 0 (remaining 0 subscribers).

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Event "rpc" with ID 4 priority 0 succeeded.

Oct 30 00:40:35 mcb1 daemon.info netopeer2-server[979]: Session 6: thread 4 event new RPC.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Published event "rpc" "/ietf-netconf:get-config" with ID 8 priority 0 for 1 subscribers.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Processing "/ietf-netconf:get-config" "rpc" event with ID 8 priority 0 (remaining 1 subscribers).

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Successful processing of "rpc" event with ID 8 priority 0 (remaining 0 subscribers).

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Event "rpc" with ID 8 priority 0 succeeded.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...



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Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.
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Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Session 6: thread 4 event new RPC.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Published event "rpc" "/ietf-netconf:get-config" with ID 9 priority 0 for 1 subscribers.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Processing "/ietf-netconf:get-config" "rpc" event with ID 9 priority 0 (remaining 1 subscribers).

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Successful processing of "rpc" event with ID 9 priority 0 (remaining 0 subscribers).

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Event "rpc" with ID 9 priority 0 succeeded.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Session 6: thread 4 event new RPC.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Session 6: thread 4 event new RPC.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Session 6: thread 4 event session terminated.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Accepted a connection on :::830.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Session 133 (user "root", CID 1) created.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Received an SSH message "request-service" of subtype "ssh-userauth".

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Received an SSH message "request-auth" of subtype "password".

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: User "operator441110748091" authenticated.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Received an SSH message "request-channel-open" of subtype "session".

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Received an SSH message "request-channel" of subtype "subsystem".

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Session 134 (user "root", CID 1) created.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Published event "notif" "ietf-netconf-notifications" with ID 4 priority 0 for 1 subscribers.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Processing "notif" "ietf-netconf-notifications" event with ID 4.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Successful processing of "notif" event with ID 4 priority 0 (remaining 0 subscribers).

Oct 30 00:40:36 mcb1 daemon.err netopeer2-server[979]: Session 6: invalid session to write to.

Oct 30 00:40:36 mcb1 daemon.err netopeer2-server[979]: Session 6: failed to write notification (error).

Oct 30 00:40:36 mcb1 daemon.err netopeer2-server[979]: Sending a notification to session 6 failed.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Generated new event (netconf-session-start).

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Generated new event (netconf-session-end).

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Call Home client "default-client" session terminated.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: Trying to connect via IPv4 to 192.168.49.88:4334.

Oct 30 00:40:36 mcb1 daemon.info netopeer2-server[979]: getsockopt() error (Connection refused).

Oct 30 00:40:37 mcb1 daemon.err netopeer2-server[979]: Session 6: waiting for Call Home thread failed (Connection timed out).

Oct 30 00:40:37 mcb1 daemon.info netopeer2-server[979]: Trying to connect via IPv4 to 192.168.49.88:4334.

Oct 30 00:40:37 mcb1 daemon.info netopeer2-server[979]: getsockopt() error (Connection refused).

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Trying to connect via IPv4 to 192.168.49.88:4334.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: getsockopt() error (Connection refused).

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Published event "rpc" "/notifications:create-subscription" with ID 5 priority 0 for 1 subscribers.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Processing "/notifications:create-subscription" "rpc" event with ID 5 priority 0



(remaining 1 subscribers).

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Successful processing of "rpc" event with ID 5 priority 0 (remaining 0 subscribers).

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Event "rpc" with ID 5 priority 0 succeeded.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Session 7: thread 1 event new RPC.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Resolving unresolved data nodes and their constraints...

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: All data nodes and constraints resolved.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Published event "rpc" "/ietf-netconfiedit-config" with ID 5 priority 0 for 1 subscribers.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 5 priority 0 (remaining 1 subscribers).

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Oct 30 00:40:38 mcb1 daemon.err netopeer2-server[979]: Access to the data model "o-ran-sync" is denied because "operator441110748091" NACM authorization failed.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Failed processing of "rpc" event with ID 5 priority 0 (remaining 1 subscribers).

Oct 30 00:40:38 mcb1 daemon.err netopeer2-server[979]: Access to the data model "o-ran-sync" is denied because "operator441110748091" NACM authorization failed.

Oct 30 00:40:38 mcb1 daemon.warn netopeer2-server[979]: Event "rpc" with ID 5 priority 0 failed (User callback failed).

Oct 30 00:40:38 mcb1 daemon.err netopeer2-server[979]: Failed to send an RPC (User callback failed).

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Session 7: thread 3 event new RPC.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Session 7: thread 3 event reply error.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Session 7: thread 3 event new RPC.

Oct 30 00:40:38 mcb1 daemon.info netopeer2-server[979]: Session 7: thread 3 event session terminated.

Oct 30 00:40:39 mcb1 daemon.info netopeer2-server[979]: There are no subscribers for "ietf-netconf-notifications" notifications.

Oct 30 00:40:39 mcb1 daemon.info netopeer2-server[979]: Generated new event (netconf-session-end).

Oct 30 00:40:39 mcb1 auth.info sshd[5739]: Accepted password for root from 192.168.49.88 port 37276 ssh2

Oct 30 00:40:39 mcb1 authpriv.info sshd[5739]; pam_unix(sshd:session); session opened for user root by (uid=0)



Expected Result : The NETCONF server	replies rejec	cting the protocol op	eration with an
"access-denied" error.			
			======
*********** Actual Result *******	*****		
Access Control SWM (negative case)	=======================================	SUCCESS	