



@ FILE NAME: M_CTC_ID_018.txt

@ TEST SCOPE: M PLANE O-RAN CONFORMANCE

@ Software Release for Garuda_RevD: v5.0.2

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

This test validates that user management model can be used to add users to the O-RU

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

3.3 SSH Connection Establishment

3.4 NETCONF Access Control

=====

STEP 1. The TER NETCONF Client establishes a connection with the O-RU NETCONF Server.

=====

=====

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

=====

```
> connect --ssh --host 192.168.4.40 --port 830 --login operator
```

```
Interactive SSH Authentication
```

```
Type your password:
```

```
Password:
```

```
> status
```

```
Current NETCONF session:
```

```
ID      : 16
```

```
Host    : 192.168.4.40
```

```
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=61
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 #####
=====
```

```
=====
> 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>
<enabled>true</enabled>
</user>
<user>
<name>operator</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
<user>
<name>observer</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
<user>
<name>installer</name>
<account-type>PASSWORD</account-type>
<enabled>true</enabled>
</user>
</users>
</data>
```

```
=====
STEP 2. The TER NETCONF Client configures three new user accounts in addition to the default sudo
account already present and passwords these three accounts using o-ran-user.mgmt.yang
=====
```

```
=====
> 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>operator363904219774937034226</name>
      <account-type>PASSWORD</account-type>

<password>zH1hq-Q6[D!$3h8%~.xQVmg~ZG+b.5nm9fzxvQQ63(jsSJNAs-0!V!PWA(3p^uy$)A~{ GwM~SzK-H{ wrK~yf9])[fQITdqQvSFMrPD
5</password>
    <enabled>true</enabled>
  </user>
<user>
  <name>operator0534452414116716545446</name>
  <account-type>PASSWORD</account-type>

<password>8PS592C4%k)9ATzR_0]c0^x9LBe.U7p6A~^M_^uWkS1A_D{_tGzril1NExCk%4Nf^IP7pIU}vmm2^DGZ9kuBkgy_Bx0rQZZ{twxc
QIBhg~es[QL1SOgx</password>
  <enabled>true</enabled>
</user>
<user>
  <name>operator6163823880175</name>
  <account-type>PASSWORD</account-type>

<password>uf}9iB30tUrShb3TFQH){sxKPPDz5md~gN+D3M3fci3U9zHXOO_wi%UJQP}vh)d{ 5bjeDwWOYAL(e92(xCh.kE9W8Gp~josO$pX
</password>
  <enabled>true</enabled>
</user>
</users>
</config>

```

```

=====
##### RPC Reply #####
=====

```

Ok

```

=====
##### NOTIFICATIONS #####
=====

```

```

<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-08-19T12:27:03Z</eventTime>
  <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
    <changed-by>
      <username>root</username>
      <session-id>16</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:user[o-ran-usermgmt:name='operator36390421977493
7034226']</target>
      <operation>create</operation>
    </edit>
  </netconf-config-change>
</notification>

```

```
</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='operator36390421977493
7034226']/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='operator36390421977493
7034226']/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='operator36390421977493
7034226']/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='operator36390421977493
7034226']/o-ran-usermgmt:enabled</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='operator05344524141167
16545446']</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='operator05344524141167
16545446']</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='operator05344524141167
16545446']/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='operator05344524141167
16545446']/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='operator05344524141167
16545446']/o-ran-usermgmt:enabled</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='operator6163823880175']
</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='operator6163823880175']
/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='operator6163823880175']
/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='operator6163823880175']
/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='operator6163823880175']
/o-ran-usermgmt:enabled</target>
    <operation>create</operation>
  </edit>
</netconf-config-change>
</notification>
```

```
##### STEP 3. The TER NETCONF Client configures user account to group mappings for the
three
new accounts using ietf-netconf-acm.yang respectively one with "nms", one with "fm-pm" and
one
with "swm" privilege. #####
```

```
> 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>
      <group>
        <name>fm-pm</name>
        <user-name>operator363904219774937034226</user-name>
      </group>
      <group>
        <name>nms</name>
        <user-name>operator0534452414116716545446</user-name>
      </group>
      <group>
        <name>swm</name>
        <user-name>operator6163823880175</user-name>
      </group>
    </groups>
  </nacm>
</config>
```

```
STEP 4. The O-RU NETCONF Server confirms the operations for the above transactions.
```

Ok

```
##### NOTIFICATIONS #####
```

```
<?xml version="1.0" ?>
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2022-08-19T12:27:03Z</eventTime>
  <netconf-config-change xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
    <changed-by>
      <username>root</username>
    </changed-by>
  </netconf-config-change>
</notification>
```

```
<session-id>16</session-id>
</changed-by>
<datastore>running</datastore>
<edit>
  <target
xmlns:nacm="urn:ietf:params:xml:ns:yang:ietf-netconf-acm">/nacm:nacm/nacm:groups/nacm:group[nacm:name='fm-pm']/nacm:user-name[.='operator363904219774937034226']</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='nms']/nacm:user-name[.='operator0534452414116716545446']</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[.='operator6163823880175']</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>
        <user-name>operator363904219774937034226</user-name>
      </group>
      <group>
        <name>nms</name>
        <user-name>installer</user-name>
        <user-name>operator0534452414116716545446</user-name>
      </group>
      <group>
        <name>swm</name>
        <user-name>operator6163823880175</user-name>
      </group>
    </groups>
  </nacm>
</data>
```



```
</groups>
</nacm>
</data>
```

=====

STEP 5. The TER NETCONF Client retrieves a list of users from O-RU NETCONF Server. The newly created user accounts and mappings are validated.

=====

=====

```
> 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>
      <enabled>true</enabled>
    </user>
    <user>
      <name>operator</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
    </user>
    <user>
      <name>observer</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
    </user>
    <user>
      <name>installer</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
    </user>
    <user>
      <name>operator363904219774937034226</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
    </user>
    <user>
      <name>operator0534452414116716545446</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
    </user>
    <user>
      <name>operator6163823880175</name>
      <account-type>PASSWORD</account-type>
      <enabled>true</enabled>
```

</user>
</users>
</data>

=====

SYSTEM LOGS

=====

Aug 19 12:26:58 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:26:58 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:26:58 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:26:58 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:26:59 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:26:59 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:26:59 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:26:59 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:00 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:00 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:00 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:00 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:01 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:01 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:01 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:01 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Accepted a connection on :::830.

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Session 1616 (user "root", CID 1) created.

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Received an SSH message "request-service" of subtype "ssh-userauth".

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Received an SSH message "request-auth" of subtype "password".

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: User "operator" authenticated.

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Received an SSH message "request-channel-open" of subtype "session".

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Received an SSH message "request-channel" of subtype "subsystem".

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Session 1617 (user "root", CID 1) created.

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: There are no subscribers for "ietf-netconf-notifications" notifications.

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Generated new event (netconf-session-start).

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Published event "rpc" "/notifications:create-subscription" with ID 3 priority 0 for 1 subscribers.

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Processing "/notifications:create-subscription" "rpc" event with ID 3 priority 0 (remaining 1 subscribers).

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Successful processing of "rpc" event with ID 3 priority 0 (remaining 0 subscribers).

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Event "rpc" with ID 3 priority 0 succeeded.

Aug 19 12:27:02 garuda daemon.info netopeer2-server[853]: Session 16: thread 3 event new RPC.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Published event "rpc" "/ietf-netconf:get" with ID 686 priority 0 for 1 subscribers.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Processing "/ietf-netconf:get" "rpc" event with ID 686 priority 0 (remaining 1 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Successful processing of "rpc" event with ID 686 priority 0 (remaining 0 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Event "rpc" with ID 686 priority 0 succeeded.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Session 16: thread 4 event new RPC.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Published event "rpc" "/ietf-netconf:edit-config" with ID 1 priority 0 for 1 subscribers.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 1 priority 0 (remaining 1 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Published event "change" "o-ran-usermgmt" with ID 1 priority 0 for 1 subscribers.

Aug 19 12:27:03 garuda user.notice USERMGMT[919]: operator363904219774937034226 added successfully !!

Aug 19 12:27:03 garuda user.notice USERMGMT[919]: operator363904219774937034226 enabled !!

Aug 19 12:27:03 garuda user.notice USERMGMT[919]: operator0534452414116716545446 added successfully !!

Aug 19 12:27:03 garuda user.notice USERMGMT[919]: operator0534452414116716545446 enabled !!

Aug 19 12:27:03 garuda user.notice USERMGMT[919]: operator6163823880175 added successfully !!

Aug 19 12:27:03 garuda user.notice USERMGMT[919]: operator6163823880175 enabled !!

Aug 19 12:27:03 garuda user.notice USERMGMT[919]: END OF CHANGES

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Event "change" with ID 1 priority 0 succeeded.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Published event "done" "o-ran-usermgmt" with ID 1 priority 0 for 1 subscribers.

Aug 19 12:27:03 garuda user.notice USERMGMT[919]: END OF CHANGES

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of "/o-ran-usermgmt:users/user[name='operator363904219774937034226']", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of "/o-ran-usermgmt:users/user[name='operator363904219774937034226']/name", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of "/o-ran-usermgmt:users/user[name='operator363904219774937034226']/account-type", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of "/o-ran-usermgmt:users/user[name='operator363904219774937034226']/password", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of "/o-ran-usermgmt:users/user[name='operator363904219774937034226']/enabled", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of "/o-ran-usermgmt:users/user[name='operator0534452414116716545446']", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator0534452414116716545446']/name", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator0534452414116716545446']/account-type", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator0534452414116716545446']/password", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator0534452414116716545446']/enabled", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator6163823880175']", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator6163823880175']/name", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator6163823880175']/account-type", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator6163823880175']/password", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator6163823880175']/enabled", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Processing "notif" "ietf-netconf-notifications" event with ID 1.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Successful processing of "notif" event with ID 1 priority 0 (remaining 0 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Published event "notif" "ietf-netconf-notifications" with ID 2 priority 0 for 1 subscribers.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Successful processing of "rpc" event with ID 1 priority 0 (remaining 0 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Event "rpc" with ID 1 priority 0 succeeded.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Session 16: thread 4 event new RPC.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator363904219774937034226']", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator363904219774937034226']/name", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator363904219774937034226']/account-type", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator363904219774937034226']/password", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator363904219774937034226']/enabled", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator0534452414116716545446']", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator0534452414116716545446']/name", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator0534452414116716545446']/account-type", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator0534452414116716545446']/password", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator0534452414116716545446']/enabled", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of
"/o-ran-usermgmt:users/user[name='operator6163823880175']", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator6163823880175']/name", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator6163823880175']/account-type", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator6163823880175']/password", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of

"/o-ran-usermgmt:users/user[name='operator6163823880175']/enabled", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Processing "notif" "ietf-netconf-notifications" event with ID 2.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Successful processing of "notif" event with ID 2 priority 0 (remaining 0 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Published event "rpc" "/ietf-netconf:edit-config" with ID 2 priority 0 for 1 subscribers.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Processing "/ietf-netconf:edit-config" "rpc" event with ID 2 priority 0 (remaining 1 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: edit-config error-option "stop-on-error" not supported, rollback-on-error will be performed.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Published event "done" "ietf-netconf-acm" with ID 3 priority 0 for 4 subscribers.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Processing "ietf-netconf-acm" "done" event with ID 3 priority 0 (remaining 4 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Successful processing of "done" event with ID 3 priority 0 (remaining 0 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Published event "notif" "ietf-netconf-notifications" with ID 3 priority 0 for 1 subscribers.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of

"/ietf-netconf-acm:nacm/groups/group[name='fm-pm']/user-name[.='operator363904219774937034226']", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of

"/ietf-netconf-acm:nacm/groups/group[name='nms']/user-name[.='operator0534452414116716545446']", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: There is no instance of

"/ietf-netconf-acm:nacm/groups/group[name='swm']/user-name[.='operator6163823880175']", but it is not required.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Processing "notif" "ietf-netconf-notifications" event with ID 3.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Successful processing of "notif" event with ID 3 priority 0 (remaining 0 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Successful processing of "rpc" event with ID 2 priority 0 (remaining 0 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Event "rpc" with ID 2 priority 0 succeeded.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Session 16: thread 1 event new RPC.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Published event "rpc" "/ietf-netconf:get-config" with ID 6 priority 0 for 1 subscribers.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Processing "/ietf-netconf:get-config" "rpc" event with ID 6 priority 0 (remaining 1 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Successful processing of "rpc" event with ID 6 priority 0 (remaining 0 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Event "rpc" with ID 6 priority 0 succeeded.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Session 16: thread 0 event new RPC.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Published event "rpc" "/ietf-netconf:get-config" with ID 7 priority 0 for 1 subscribers.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Processing "/ietf-netconf:get-config" "rpc" event with ID 7 priority 0 (remaining 1 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Successful processing of "rpc" event with ID 7 priority 0 (remaining 0 subscribers).

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Event "rpc" with ID 7 priority 0 succeeded.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Resolving unresolved data nodes and their constraints...

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: All data nodes and constraints resolved.

Aug 19 12:27:03 garuda daemon.info netopeer2-server[853]: Session 16: thread 0 event new RPC.

Aug 19 12:27:04 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:04 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:04 garuda daemon.info netopeer2-server[853]: Session 16: thread 0 event new RPC.

Aug 19 12:27:04 garuda daemon.info netopeer2-server[853]: Session 16: thread 0 event session terminated.

Aug 19 12:27:04 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:04 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:04 garuda daemon.info netopeer2-server[853]: There are no subscribers for "ietf-netconf-notifications" notifications.

Aug 19 12:27:04 garuda daemon.info netopeer2-server[853]: Generated new event (netconf-session-end).

Aug 19 12:27:05 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:05 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:05 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:05 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:06 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:06 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:06 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:06 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:07 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:07 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:07 garuda user.notice SYNCMNGR[1176]: Received message from S-Plane

Aug 19 12:27:07 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:07 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:08 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:08 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:08 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:08 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:09 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:09 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:09 garuda daemon.info netopeer2-server[853]: Trying to connect via IPv4 to 192.168.4.15:4334.

Aug 19 12:27:09 garuda daemon.info netopeer2-server[853]: getsockopt() error (Connection refused).

Aug 19 12:27:09 garuda authpriv.debug sshd[7531]: pam_unix(sshd:account): account operator has password changed in future

Aug 19 12:27:09 garuda auth.info sshd[7531]: Accepted password for operator from 192.168.4.15 port 51414 ssh2

Aug 19 12:27:09 garuda authpriv.info sshd[7531]: pam_unix(sshd:session): session opened for user operator by (uid=0)

Expected Result : The TER NETCONF Client retrieves a list of users from O-RU NETCONF Server. The newly created user accounts and mappings are validated.

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***** Actual Result *****

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Sudo on Hybrid M-plane Architecture (positive case) = SUCCESS

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