Managing Users Sessions

This chapter includes the following sections:

Managing Cisco IMC Users

The examples in this section show how to use the Cisco IMC XML API to establish user XML API session and password related examples. Each example shows the XML API request followed by the response from Cisco IMC.

This section includes the following examples:

Using Cisco IMC LDAP User Credentials to Establish XML API Session Cookie

Request:

```
<aaaLogin inName='admin' inPassword='cisco@123'/>
```

Response:

```
<aaaLogin cookie="" response="yes" outCookie="1461753405/e60c76e8-3175-1175-8002-4cc92474a254"

 outRefreshPeriod="600" outPriv="admin"
  outSessionId="17" outVersion="3.0(0.149)">
</aaaLogin>
```

Viewing Cisco IMC User Sessions

Request:

```
<configResolveClass cookie='1385080136/1a887a90-ebb9-1bb9-8007-130bcc74a254'
classId='aaaSession' inHierarchical='true'>
</configResolveClass>"
```

Response:

```
<configResolveClass cookie="1385080136/1a887a90-ebb9-1bb9-8007-130bcc74a254"
response="yes" classId="aaaSession">
<outConfigs>
<aaaSession host="10.127.142.119" id="18" ui="shell" user="admin"
 dn="sys/user-ext/term-18" ></aaaSession>
<aaaSession host="10.104.236.99" id="17" ui="web" user="admin"
dn="sys/user-ext/term-17" ></aaaSession>
<aaaSession host="N/A" id="15" ui="serial" user="admin"
dn="sys/user-ext/term-15" ></aaaSession>
<aaaSession host="10.127.143.122" id="9" ui="web" user="admin"
dn="sys/user-ext/term-9" >
</aaaSession>
</outConfigs>
</configResolveClass>
```

Note UI type indicates **serial** when you connect directly to the server through serial port using the either the KVM dongle (DB9), or the serial port (RJ-45) at the rear of the chassis.

Disabling or Enabling Strong Password

Enabling Strong Password

Request:

```
<configConfMo cookie="1438173516/dd4b406b-1c03-1c03-8002-a3209f054ef4"
dn="sys/user-ext/policy" inHierarchical="false">
  <inConfig>
      <aaaUserPolicy userPasswordPolicy="enabled" dn="sys/user-ext/policy"/>
  </inConfig>
</configConfMo>
```

Disabling Strong Password

Request:

```
<configConfMo cookie="1438173516/dd4b406b-1c03-1c03-8002-a3209f054ef4"
dn="sys/user-ext/policy" inHierarchical="false">
   <inConfig>
      <aaaUserPolicy userPasswordPolicy="disabled" dn="sys/user-ext/policy"/>
   </inConfig>
</configConfMo>
```

Retrieving a System Generated Password for the User

Request:

```
<configResolveClass cookie="0000257903/822c9ad3-003c-103c-800a-d06f72ebfab0"
response="yes" classId="generateRandomPassword">
<outConfigs>
```

Response:

```
<outConfigs>
<generateRandomPassword dn="sys/user-ext/generate-random-pwd" password="yS!7_DF7"/>
</outConfigs>
</configResolveClass>
```

Viewing Password Expiry Details

Request:

```
<configResolveClass cookie="1475331315/175db596-3dcf-1dcf-8002-3ae500da0ee0"
inHierarchical="false"
classId="aaaUserPasswordExpiration"/>'
```

Response:

```
<outConfigs>
 <aaaUserPasswordExpiration dn="sys/user-ext/password-expiration" passwordExpiryDuration="249"

  passwordHistory="4" passwordNotificationPeriod="13" passwordGracePeriod="4"
  adminAction="no-op" >
 </aaaUserPasswordExpiration>
 </outConfigs>
</configResolveClass>
```

Configuring Password Expiry for Users

Request:

```
<configConfMo cookie="1475835380/85150ac1-3e44-1e44-8004-e5de29114ca4" inHierarchical="false"

dn="sys/user-ext/password-expiration">
<inConfig>
  <aaaUserPasswordExpiration dn="sys/user-ext/password-expiration" passwordExpiryDuration="55"

  passwordHistory="3" passwordNotificationPeriod="3" passwordGracePeriod="3">
 </aaaUserPasswordExpiration>
 </inConfig>
</configConfMo>
```

Response:

```
<configConfMo dn="sys/user-ext/password-expiration"
cookie="1475835380/85150ac1-3e44-1e44-8004-e5de29114ca4" response="yes">
<outConfig>
<aaaUserPasswordExpiration dn="sys/user-ext/password-expiration"
 passwordExpiryDuration="55" passwordHistory="3" passwordNotificationPeriod="3"
 passwordGracePeriod="3" adminAction="no-op" status="modified" >
</aaaUserPasswordExpiration>
 </outConfig>
</configConfMo>
```

Restoring Password Expiry Parameters to Defaults

Request:

```
<configConfMo cookie="1476020227/fccbae5a-3e6e-1e6e-8007-e5de29114ca4"
 inHierarchical="false" dn="sys/user-ext/password-expiration">
 <inConfig>
  <aaaUserPasswordExpiration dn="sys/user-ext/password-expiration"
   adminAction="restore-default" >
 </aaaUserPasswordExpiration>
</inConfig>
</configConfMo>
```

Response:

```
<configConfMo dn="sys/user-ext/password-expiration"
cookie="1476020227/fccbae5a-3e6e-1e6e-8007-e5de29114ca4" response="yes">
<outConfig>
 <aaaUserPasswordExpiration dn="sys/user-ext/password-expiration"
```

```
  passwordExpiryDuration="0" passwordHistory="0" passwordNotificationPeriod="15"
  passwordGracePeriod="0" adminAction="no-op" status="modified" >
 </aaaUserPasswordExpiration>
</outConfig>
</configConfMo>
```

Setting User Search Precedence Tasks

The examples in this section show how to use the Cisco IMC XML API to set user search precedence. Each example shows the XML API request followed by the response from Cisco IMC.

This section includes the following examples:

Retrieving the Currently Configured User Search Precedence

Request:

```
<configResolveClass cookie="1474080970/a8ae85db-ab3c-1cab-8006-be18652a6ca4"
inHierarchical="false" classId="aaaLdap"/>
```

Response:

```
<configResolveClass cookie="1474080970/a8ae85db-ab3c-1cab-8006-be18652a6ca4"
response="yes" classId="aaaLdap">
  <outConfigs>
    <aaaLdap dn="sys/ldap-ext" adminState="enabled" basedn="DC=new,DC=com"
    domain="new.com" filter="sAMAccountName" attribute="CiscoAvPair" timeout="60"
    encryption="enabled" locateDirectoryUsingDNS="no" dnsDomainSource="extracted-domain"
    dnsSearchDomain="" dnsSearchForest="" ldapServer1="test.com"
    ldapServerPort1="389" ldapServer2="10.104.236.61" ldapServerPort2="389"
    ldapServer3="" ldapServerPort3="389" ldapServer4="" ldapServerPort4="3268"
    ldapServer5="" ldapServerPort5="3268" ldapServer6="" ldapServerPort6="3268"
    bindMethod="login-credentials" bindDn="" password="" groupAuth="enabled"
    groupAttribute="memberOf" userSearchPrecedence="ldap-user-db"/>
  </outConfigs>
</configResolveClass>
```

Configuring User Search Precedence from Local User Database

Request:

```
<configConfMo cookie="1474080970/a8ae85db-ab3c-1cab-8006-be18652a6ca4"
inHierarchical="false" dn="sys/ldap-ext" >
   <inConfig>
      <aaaLdap userSearchPrecedence="local-user-db" dn="sys/ldap-ext" />
   </inConfig>
</configConfMo>
```

Response:

```
<configResolveClass cookie="1474080970/a8ae85db-ab3c-1cab-8006-be18652a6ca4"
response="yes" classId="aaaLdap">
   <outConfigs>
      <aaaLdap dn="sys/ldap-ext" adminState="enabled" basedn="DC=new,DC=com"
      domain="new.com" filter="sAMAccountName" attribute="CiscoAvPair" timeout="60"
      encryption="enabled" locateDirectoryUsingDNS="no" dnsDomainSource="extracted-domain"

      dnsSearchDomain="" dnsSearchForest="" ldapServer1="test.com" ldapServerPort1="389"
      ldapServer2="10.104.236.61" ldapServerPort2="389" ldapServer3=""
```

```
      ldapServerPort3="389" ldapServer4="" ldapServerPort4="3268" ldapServer5=""
      ldapServerPort5="3268" ldapServer6="" ldapServerPort6="3268"
      bindMethod="login-credentials" bindDn="" password="" groupAuth="enabled"
      groupAttribute="memberOf" userSearchPrecedence="local-user-db"/>
   </outConfigs>
</configResolveClass>
```

Configuring User Search Precedence from LDAP User Database

Request:

```
<configConfMo cookie="1474080970/a8ae85db-ab3c-1cab-8006-be18652a6ca4"
inHierarchical="false" dn="sys/ldap-ext" >
   <inConfig>
      <aaaLdap userSearchPrecedence="ldap-user-db" dn="sys/ldap-ext" />
   </inConfig>
</configConfMo>
```

Response:

```
<configResolveClass cookie="1474080970/a8ae85db-ab3c-1cab-8006-be18652a6ca4"
response="yes" classId="aaaLdap">
   <outConfigs>
      <aaaLdap dn="sys/ldap-ext" adminState="enabled" basedn="DC=new,DC=com"
      domain="new.com" filter="sAMAccountName" attribute="CiscoAvPair" timeout="60"
      encryption="enabled" locateDirectoryUsingDNS="no" dnsDomainSource="extracted-domain"

      dnsSearchDomain="" dnsSearchForest="" ldapServer1="test.com" ldapServerPort1="389"
      ldapServer2="10.104.236.61" ldapServerPort2="389" ldapServer3=""
      ldapServerPort3="389" ldapServer4="" ldapServerPort4="3268"
      ldapServer5="" ldapServerPort5="3268" ldapServer6="" ldapServerPort6="3268"
      bindMethod="login-credentials" bindDn="" password="" groupAuth="enabled"
      groupAttribute="memberOf" userSearchPrecedence="ldap-user-db"/>
   </outConfigs>
</configResolveClass>
```