**discover\_portal**

* Discover all targets for a given iSCSI discovery portal

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Mandatory | Values | | | Description | Input errors |
| Type | Default value | Possible values |
| hostname | Yes |  |  |  | Portal hostname |  |
| discovery\_method | No |  | “sendtargets” | “sendtargets”,  “isns” | Discovery method | Invalid value. Possible values are :  “sendtargets”,  “isns” |
| auth\_method | No |  |  | “chap”,  ”mutual\_chap” | Authentication method | Invalid value. Possible values are :  “chap”,  ”mutual\_chap” |
| username | No | ASCII string of 255 |  |  | Only for CHAP and Mutual CHAP authentication | * Bad encoding : ASCII encoding required * String too long : max 255 characters * Empty string unauthorised |
| password | No |  |  | Only for CHAP and Mutual CHAP authentication |
| username\_in | No |  |  | Only for Mutual CHAP authentication |
| password\_in | No |  |  | Only for Mutual CHAP authentication |

* Returns :
* Success : JSON object

🡪Example:

{'iqn.2003-01.org.linux-iscsi.vb.x8664:sn.36311f944591':  
         {'192.168.122.239': {'interface': 'default',  
                              'portal': ('192.168.122.239', 3260, 1)},  
          '192.168.122.240': {'interface': 'default',  
                              'portal': ('192.168.122.240', 3260, 1)}},  
  'iqn.2003-01.org.linux-iscsi.vb.x8664:sn.a5cb3c86aadd':  
         {'192.168.122.239': {'interface': 'default',  
                              'portal': ('192.168.122.239', 3260, 1)}},  
  'iqn.2003-01.org.linux-iscsi.vb.x8664:sn.e824acd0142c':  
         {'192.168.122.239': {'interface': 'default',  
                              'portal': ('192.168.122.239', 3260, 1)}}}

* Attribute input failure : see Input errors
* Authentication failure : “Login failed to authenticate with target” (code\_error = -27)
* Server/Hostname failure : “cannot make connection to [hostname]: No route to host” (code\_error = -26)

**display\_discovery**

* Display all data for a given discovery record

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Mandatory | Values | | | Description | Input errors |
| Type | Default value | Possible values |
| hostname | Yes |  |  |  | Portal hostname |  |
| discovery\_method | No |  | “sendtargets” | “sendtargets”,  “isns” | Discovery method | Invalid value. Possible values are :  “sendtargets”,  “isns” |

* Returns :
* Success : JSON object

🡪Example :

{"type": "sendtargets",

"startup": "manual",

"sendtargets": {

"use\_discoveryd": "No",

"reopen\_max": "5", "auth": {

"username": "",

"username\_in": "",

"password": "",

"authmethod": "None",

"password\_in": ""

},

"discoveryd\_poll\_inval": "30",

"timeo": {

"active\_timeout": "30",

"auth\_timeout": "45"

},

"address": "192.168.122.239",

"port": "3260",

"iscsi": {

"MaxRecvDataSegmentLength": "32768"

}

}

}

* Hostname failure : “Discovery record [hostname] not found” (code\_error = -23)

**display\_discovery\_summary**

* Display data for all discovery records
* No parameters
* Returns :
* Success : JSON object

🡪Example :

{'192.168.122.255': (3205, 'isns'),  
                             '192.168.122.23': (3260, 'sendtargets'),  
                             '192.168.122.239': (3260, 'sendtargets'),  
                             'test': (3260, 'sendtargets')}

**delete\_discovery**

* Delete discovery of targets at a given IP address

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Mandatory | Values | | | Description | Input errors |
| Type | Default value | Possible values |
| hostname | Yes |  |  |  | Portal hostname |  |
| discovery\_method | No |  | “sendtargets” | “sendtargets”,  “isns” | Discovery method | Invalid value. Possible values are :  “sendtargets”,  “isns” |

* Returns :
* Success : “OK”
* Hostname failure : “Discovery record [hostname] not found” (code\_error = -23)

**login\_target**

* Login to a given target

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Mandatory | Values | | | Description | Input errors |
| Type | Default value | Possible values |
| targetname | Yes |  |  |  | Target name |  |
| hostname | No |  |  |  | Portal hostname |  |
| auth\_method | No |  |  | “chap”,  ”mutual\_chap” | Authentication method | Invalid value. Possible values are :  “chap”,  ”mutual\_chap” |
| username | No | ASCII string of 255 |  |  | Only for CHAP and Mutual CHAP authentication | * Bad encoding : ASCII encoding required * String too long : max 255 characters * Empty string unauthorised |
| password | No |  |  | Only for CHAP and Mutual CHAP authentication |
| username\_in | No |  |  | Only for Mutual CHAP authentication |
| password\_in | No |  |  | Only for Mutual CHAP authentication |

* Returns :
* Success : “OK”
* Attribute input failure : see Input errors
* Authentication failure : “Could not login to…” (code\_error = -27)
* Server failure : “Could not login to…” (code\_error = -28)
* Targetname/Hostname failure : “No records found” (code\_error = -29)

**logout\_target**

* Logout for a given target

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Mandatory | Values | | | Description | Input errors |
| Type | Default value | Possible values |
| targetname | Yes |  |  |  | Target name |  |
| hostname | No |  |  |  | Portal hostname |  |

* Returns :
* Success : “OK”
* Targetname/Hostname failure : “No matching sessions found”

**logout\_all\_targets**

* Logout for all targets
* No parameters
* Returns :
* Success : “OK”

**display\_node**

* Display all data for a given node record

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Mandatory | Values | | | Description | Input errors |
| Type | Default value | Possible values |
| targetname | Yes |  |  |  | Target name |  |
| hostname | No |  |  |  | Portal hostname |  |

* Returns :
* Success : JSON object

🡪Example :

{“name”: “iqn.2003-01.org.linux-iscsi.vb.x8664:sn.66aaadd8fcc5”

"session": {

"initial\_cmdsn": "0",

"queue\_depth": "32",

"auth": {

"username": "",

"username\_in": "",

"password": "",

"authmethod": "None",

"password\_in": ""

},

"nr\_sessions": "1",

"initial\_login\_retry\_max": "8",

"xmit\_thread\_priority": "-20","cmds\_max": "128"},

"discovery\_type": "send\_targets",

"discovery\_port": "3260",

"discovery\_address": "192.168.122.239"

}

* Targetname/Hostname failure : “No records found”

**display\_node\_summary**

* Display data for all node records
* No parameters
* Returns :
* Success : JSON object

🡪Example :

{'iqn.2003-01.org.linux-iscsi.vb.x8664:sn.36311f944591':  
         {'192.168.122.239': {'interface': 'default',  
                              'portal': ('192.168.122.239', 3260, 1)},  
          '192.168.122.240': {'interface': 'default',  
                              'portal': ('192.168.122.240', 3260, 1)}},  
  'iqn.2003-01.org.linux-iscsi.vb.x8664:sn.a5cb3c86aadd':  
         {'192.168.122.239': {'interface': 'default',  
                              'portal': ('192.168.122.239', 3260, 1)}},  
  'iqn.2003-01.org.linux-iscsi.vb.x8664:sn.e824acd0142c':  
         {'192.168.122.239': {'interface': 'default',  
                              'portal': ('192.168.122.239', 3260, 1)}}}

**delete\_node**

* Delete a given node record

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Mandatory | Values | | | Description | Input errors |
| Type | Default value | Possible values |
| targetname | Yes |  |  |  | Target name |  |
| hostname | No |  |  |  | Portal hostname |  |

* Returns :
* Success : “OK”
* Targetname/Hostname failure : “no records found”
* Existing session failure : “This command will remove the record but a session is using it”

**delete\_all\_nodes**

* Delete all node records
* No parameters
* Returns :
* Success : “OK”

**display\_session**

* Display all data for a given session

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Mandatory | Values | | | Description | Input errors |
| Type | Default value | Possible values |
| targetname | No |  |  |  | Target name  🡪If null, display all active sessions |  |
| hostname | No |  |  |  | Portal hostname |  |

* Returns :
* Success : JSON object

🡪Example :

{"iqn.2003-01.org.linux-iscsi.vb.x8664:sn.816b3aab7e3f":

{"192.168.122.239”:

{"connection\_state": "LOGGED IN",

"session\_state": "LOGGED\_IN",   
"target": "iqn.2003-01.org.linux-iscsi.vb.x8664:sn.816b3aab7e3f",   
"session\_id": "5",

"portal": (“192.168.122.239”, 3260 ,1),   
"iscsid\_session\_state": "NO CHANGE",

"ip\_address": "192.168.122.1",   
"transport": "tcp", "initiator\_name":   
"iqn.1991-05.com.microsoft:ibm-t410s"

}

}

}

* + Attribute input failure : see Input errors
  + Targetname/Hostname failure : “Could not get session info”

**purge**

* Delete all records
* No parameters
* Returns :
  + Success : “OK”
  + Hostname failure : “Discovery record not found”