How to configure syslog via Net-SNMP

Enable syslog

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.12.12.1.0 i 3

Disable syslog

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.12.12.1.0 i 2

Create Syslog host IP 10.90.90.101 port 9999

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.12.12.2.1.2.1 a 10.90.90.101

1.3.6.1.4.1.171.12.12.2.1.5.1 i 9999 1.3.6.1.4.1.171.12.12.2.1.6.1 i 3 1.3.6.1.4.1.171.12.12.2.1.7.1 i 4

Delete Syslog host IP 10.90.90.101 port 9999

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.12.12.2.1.7.1 i 6

Create multi Syslog host

Host1   IP 10.90.90.101 port 9999

Host2   IP 10.90.90.102 port 9989

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.12.12.2.1.2.1 a 10.90.90.101

1.3.6.1.4.1.171.12.12.2.1.5.1 i 9999 1.3.6.1.4.1.171.12.12.2.1.6.1 i 3 1.3.6.1.4.1.171.12.12.2.1.7.1 i 4

#snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.12.12.2.1.2.2 a 10.90.90.102

1.3.6.1.4.1.171.12.12.2.1.5.2 i 9989 1.3.6.1.4.1.171.12.12.2.1.6.2 i 3 1.3.6.1.4.1.171.12.12.2.1.7.2 i 4

Host Id	Host IP Address	Severity	Facility	UDP port	Status
1	10.90.90.101	All	Local0	9999	Enabled
2	10.90.90.102	All	Local0	9989	Enabled

```
Object name       swSysLogCtrlState
Object ID         1.3.6.1.4.1.171.12.12.1
Module            SYSLOG-MIB

Base syntax       Integer
Composed syntax   INTEGER
Access            Read-Write
Status            Current
Value list        1 : other(1)
                  2 : disabled(2)
                  3 : enabled(3)

Parent node       swSysLogMIB
First child       None
Description        This object can be enabled or disabled functionality of System Log
                  during runtime of the system.
```

MIB Tree / iso / swSysLogMIB
- swSysLogCtrlState
- swSysLogServerTable
  - swSysLogServerEntry
    - swSysLogServerIndex
    - swSysLogServerIPAddress
    - swSysLogServerFacility
    - swSysLogServerSeverity
    - swSysLogServerUDPPort
    - swSysLogServerState
    - swSysLogServerRowStatus
- swLogSaveCtrl
  - swLogSaveMethod
  - swLogSaveTimeInterval
- swSysLogCtrl
  - swSysLogCtrlClearLog


```
Object name       swSysLogServerTable
Object ID         1.3.6.1.4.1.171.12.12.2
Module            SYSLOG-MIB

Base syntax       Sequence Of swSysLogServerEntry
Access            Not_Accessible
Status            Current
Sequence          1:swSysLogServerIndex - Integer
                  2:swSysLogServerIPAddress - IP Address
                  3:swSysLogServerFacility - Integer
                  4:swSysLogServerSeverity - Integer
                  5:swSysLogServerUDPPort - Integer
                  6:swSysLogServerState - Integer
                  7:swSysLogServerRowStatus - Integer

Parent node       swSysLogMIB
First child       swSysLogServerEntry
Description        This table contain System Log Server information.
```



```
Object name       swSysLogServerIndex
Object ID         1.3.6.1.4.1.171.12.12.2.1.1
Module            SYSLOG-MIB

Base syntax       Integer
Composed syntax   INTEGER
Access            Read-Only
Status            Current
Value list        1 : 1..4

Parent node       swSysLogServerEntry
First child       None
Description        The index of System Log Server entry ,and is unique.
```



```
Object name       swSysLogServerIPAddress
Object ID         1.3.6.1.4.1.171.12.12.2.1.2
Module            SYSLOG-MIB

Base syntax       IP Address
Composed syntax   IpAddress
Access            Read-Create
Status            Current

Parent node       swSysLogServerEntry
First child       None
Description        specifies the IP address of the System Log Server.
```

swSysLogServerFacility

```
MIB Tree
  iso
    swSysLogMIB
      swSysLogCtrlState
      swSysLogServerTable
        swSysLogServerEntry
          swSysLogServerIndex
          swSysLogServerIPAddress
          swSysLogServerFacility
          swSysLogServerSeverity
          swSysLogServerUDPPort
          swSysLogServerState
          swSysLogServerRowStatus
      swLogSaveCtrl
        swLogSaveMethod
        swLogSaveTimeInterval
      swSysLogCtrl
        swSysLogCtrlClearLog
  SNMPv1 Traps
```

Field	Value
Object name	swSysLogServerFacility
Object ID	1.3.6.1.4.1.171.12.12.2.1.3
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Create
Status	Current
Value list	1 : local0(0)
	2 : local1(1)
	3 : local2(2)
	4 : local3(3)
	5 : local4(4)
	6 : local5(5)
	7 : local6(6)
	8 : local7(7)
Parent node	swSysLogServerEntry
First child	None
Description	syslog Message Facilities

swSysLogServerSeverity

```
MIB Tree
  iso
    swSysLogMIB
      swSysLogCtrlState
      swSysLogServerTable
        swSysLogServerEntry
          swSysLogServerIndex
          swSysLogServerIPAddress
          swSysLogServerFacility
          swSysLogServerSeverity
          swSysLogServerUDPPort
          swSysLogServerState
          swSysLogServerRowStatus
      swLogSaveCtrl
        swLogSaveMethod
        swLogSaveTimeInterval
      swSysLogCtrl
        swSysLogCtrlClearLog
```

Field	Value
Object name	swSysLogServerSeverity
Object ID	1.3.6.1.4.1.171.12.12.2.1.4
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Create
Status	Current
Value list	1 : all(1)
	2 : warning(2)
	3 : informational(3)
Parent node	swSysLogServerEntry
First child	None
Description	syslog Message Severities

swSysLogServerUDPPort

```
MIB Tree
  iso
    swSysLogMIB
      swSysLogCtrlState
      swSysLogServerTable
        swSysLogServerEntry
          swSysLogServerIndex
          swSysLogServerIPAddress
          swSysLogServerFacility
          swSysLogServerSeverity
          swSysLogServerUDPPort
          swSysLogServerState
          swSysLogServerRowStatus
      swLogSaveCtrl
        swLogSaveMethod
        swLogSaveTimeInterval
      swSysLogCtrl
        swSysLogCtrlClearLog
```

Field	Value
Object name	swSysLogServerUDPPort
Object ID	1.3.6.1.4.1.171.12.12.2.1.5
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Create
Status	Current
Parent node	swSysLogServerEntry
First child	None
Description	syslog uses the user datagram protocol (UDP) as its underlying tranaposrt layer mechanism. The UDP port that has been assigned to syslog is 514. It is RECOMMENDED that the source port also be 514 to indicate that the message is form the syslog process of the sender, but there have been cases seen where valid syslog messages have come from a sender with a source port other than 514. If the sender uses a source port other than 514 then it is RECOMMENDED and has been considered to be good from that subsequent messages are from a single consistent port.

swSysLogServerState

```
MIB Tree
  iso
    swSysLogMIB
      swSysLogCtrlState
      swSysLogServerTable
        swSysLogServerEntry
          swSysLogServerIndex
          swSysLogServerIPAddress
          swSysLogServerFacility
          swSysLogServerSeverity
          swSysLogServerUDPPort
          swSysLogServerState
          swSysLogServerRowStatus
      swLogSaveCtrl
        swLogSaveMethod
        swLogSaveTimeInterval
      swSysLogCtrl
        swSysLogCtrlClearLog
```

Field	Value
Object name	swSysLogServerState
Object ID	1.3.6.1.4.1.171.12.12.2.1.6
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Create
Status	Current
Value list	1 : other(1)
	2 : disabled(2)
	3 : enabled(3)
Parent node	swSysLogServerEntry
First child	None
Description	enabled or disabled the specific System Log Server during runtime.

Panel 1

MIB Tree
- iso
  - swSysLogMIB
    - swSysLogCtrlState
    - swSysLogServerTable
      - swSysLogServerEntry
        - swSysLogServerIndex
        - swSysLogServerIPAddress
        - swSysLogServerFacility
        - swSysLogServerSeverity
        - swSysLogServerUDPPort
        - swSysLogServerState
        - **swSysLogServerRowStatus**
    - swLogSaveCtrl
      - swLogSaveMethod
      - swLogSaveTimeInterval
    - swSysLogCtrl
      - swSysLogCtrlClearLog

Field	Value
Object name	swSysLogServerRowStatus
Object ID	1.3.6.1.4.1.171.12.12.2.1.7
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	RowStatus
Access	Read-Create
Status	Current
Value list	1 : active(1)
	2 : notInService(2)
	3 : notReady(3)
	4 : createAndGo(4)
	5 : createAndWait(5)
	6 : destroy(6)
Parent node	swSysLogServerEntry
First child	None
Description	indicates the status of this entry. When creating a syslog server entry, the IP address should be set, too.

Panel 2

MIB Tree
- iso
  - swSysLogMIB
    - swSysLogCtrlState
    - swSysLogServerTable
      - swSysLogServerEntry
        - swSysLogServerIndex
        - swSysLogServerIPAddress
        - swSysLogServerFacility
        - swSysLogServerSeverity
        - swSysLogServerUDPPort
        - swSysLogServerState
        - swSysLogServerRowStatus
    - swLogSaveCtrl
      - **swLogSaveMethod**
      - swLogSaveTimeInterval
    - swSysLogCtrl
      - swSysLogCtrlClearLog
- SNMPv1 Traps

Field	Value
Object name	swLogSaveMethod
Object ID	1.3.6.1.4.1.171.12.12.3.1
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : time-interval(1)
	2 : on-demand(2)
	3 : log-trigger(3)
Parent node	swLogSaveCtrl
First child	None
Description	Used to show and configure the method to save log. when set time-interval(1),Save log to flash every swLogSaveTimeInterval minutes. (if no log happened in this period, don't save) when set on-demand(2), save log to flash whenever user type 'save log' or 'save all'. when set log-trigger(3), save log to flash whenever log arrives.

Panel 3

MIB Tree
- iso
  - swSysLogMIB
    - swSysLogCtrlState
    - swSysLogServerTable
      - swSysLogServerEntry
        - swSysLogServerIndex
        - swSysLogServerIPAddress
        - swSysLogServerFacility
        - swSysLogServerSeverity
        - swSysLogServerUDPPort
        - swSysLogServerState
        - swSysLogServerRowStatus
    - swLogSaveCtrl
      - swLogSaveMethod
      - **swLogSaveTimeInterval**
    - swSysLogCtrl
      - swSysLogCtrlClearLog

Field	Value
Object name	swLogSaveTimeInterval
Object ID	1.3.6.1.4.1.171.12.12.3.2
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 1..65535
Parent node	swLogSaveCtrl
First child	None
Description	The time(minutes) interval to save log to flash. It can only be set when you have selected the time-interval(1) in swLogSaveMethod.

Panel 4

MIB Tree
- iso
  - swSysLogMIB
    - swSysLogCtrlState
    - swSysLogServerTable
      - swSysLogServerEntry
        - swSysLogServerIndex
        - swSysLogServerIPAddress
        - swSysLogServerFacility
        - swSysLogServerSeverity
        - swSysLogServerUDPPort
        - swSysLogServerState
        - swSysLogServerRowStatus
    - swLogSaveCtrl
      - swLogSaveMethod
      - swLogSaveTimeInterval
    - swSysLogCtrl
      - **swSysLogCtrlClearLog**

Field	Value
Object name	swSysLogCtrlClearLog
Object ID	1.3.6.1.4.1.171.12.12.4.1
Module	SYSLOG-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : other(1)
	2 : start(2)
Parent node	swSysLogCtrl
First child	None
Description	Clear the switch history log.