How to use NETSNMP

Configure & Monitor Safeguard_Engine in DGS-3100 series

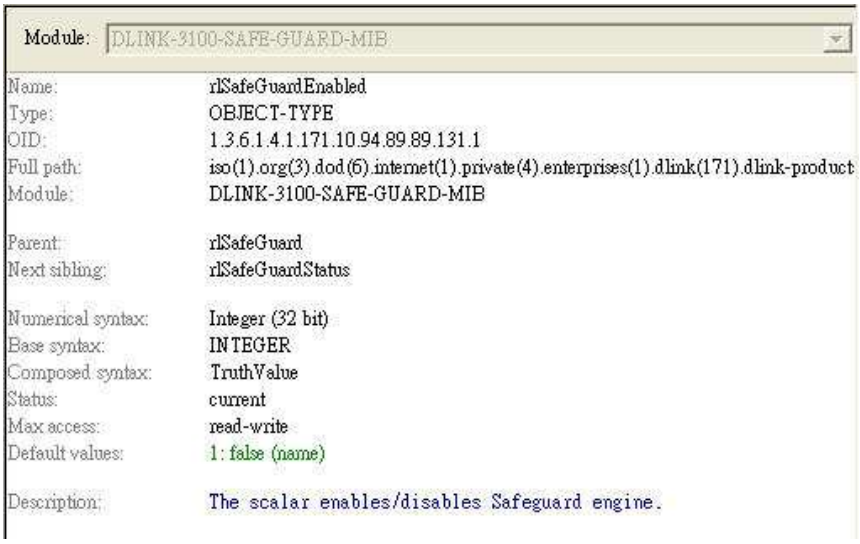
The OIDs for configuring **“Safeguard_Engine”** are defined in **“DLINK-3100-SAFE-GUARD-MIB” (rlSafeGuard.mib).**

rlSafeGuard

Module: DLINK-3100-SAFE-GUARD-MIB

Name:	rlSafeGuard
Type:	MODULE-IDENTITY
OID:	1.3.6.1.4.1.171.10.94.89.89.131
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-product
Module:	DLINK-3100-SAFE-GUARD-MIB
Parent:	md
First child:	rlSafeGuardEnabled
Last updated:	July 11, 20 at 18:00 GMT (2007111800Z)
Organization:	Dlink, Inc.
Contact:	www.dlink.com
Revision 1:	
Date:	November 18, 2007 at 00:00 GMT (200711180000Z)
Description:	Initial revision.
Description:	Safe Guard MIBs

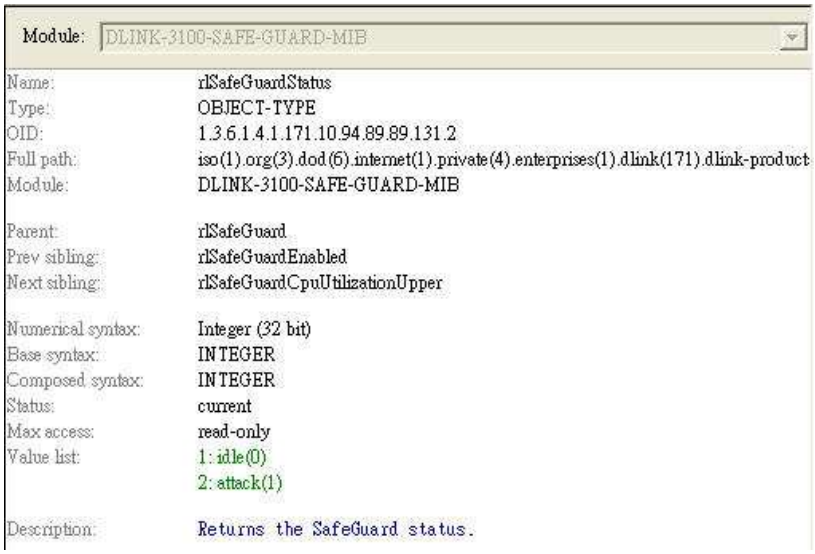
rlSafeGuardEnabled



Module: DLINK-3100-SAFE-GUARD-MIB

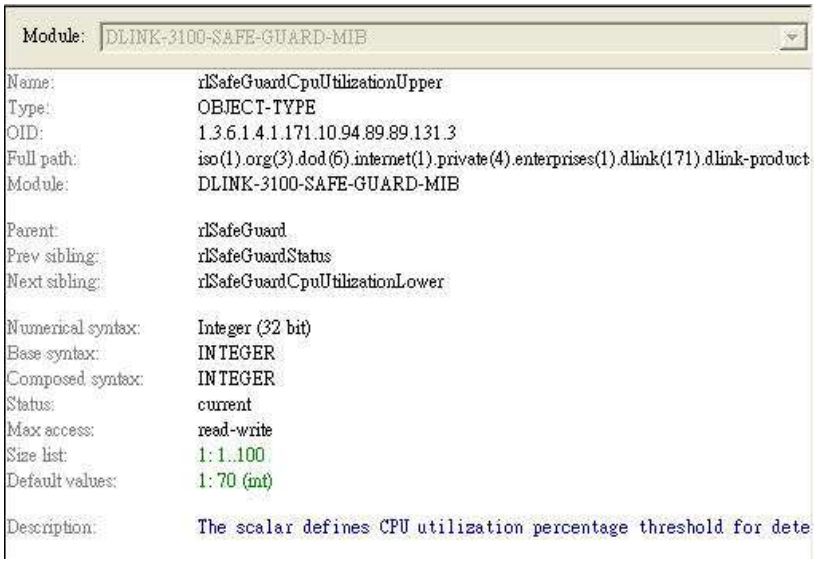
Name:	rlSafeGuardEnabled
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.10.94.89.89.131.1
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-product
Module:	DLINK-3100-SAFE-GUARD-MIB
Parent:	rlSafeGuard
Next sibling:	rlSafeGuardStatus
Numerical syntax:	Integer (32 bit)
Base syntax:	INTEGER
Composed syntax:	TruthValue
Status:	current
Max access:	read-write
Default values:	1: false (name)
Description:	The scalar enables/disables Safeguard engine.

rlSafeGuardStatus



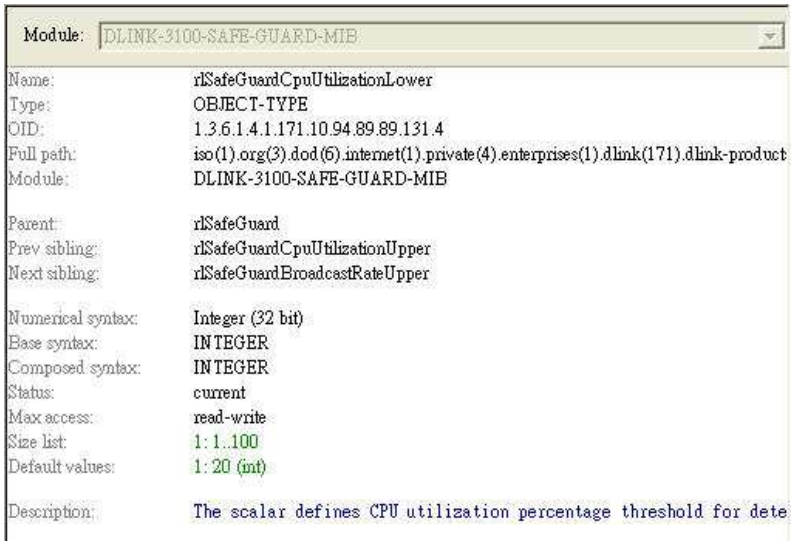
Module:	DLINK-3100-SAFE-GUARD-MIB
Name:	rlSafeGuardStatus
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.10.94.89.89.131.2
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-product
Module:	DLINK-3100-SAFE-GUARD-MIB
Parent:	rlSafeGuard
Prev sibling:	rlSafeGuardEnabled
Next sibling:	rlSafeGuardCpuUtilizationUpper
Numerical syntax:	Integer (32 bit)
Base syntax:	INTEGER
Composed syntax:	INTEGER
Status:	current
Max access:	read-only
Value list:	1: idle(0) 2: attack(1)
Description:	Returns the SafeGuard status.

rlSafeGuardCpuUtilizationUpper



Module:	DLINK-3100-SAFE-GUARD-MIB
Name:	rlSafeGuardCpuUtilizationUpper
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.10.94.89.89.131.3
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-product
Module:	DLINK-3100-SAFE-GUARD-MIB
Parent:	rlSafeGuard
Prev sibling:	rlSafeGuardStatus
Next sibling:	rlSafeGuardCpuUtilizationLower
Numerical syntax:	Integer (32 bit)
Base syntax:	INTEGER
Composed syntax:	INTEGER
Status:	current
Max access:	read-write
Size list:	1: 1..100
Default values:	1: 70 (int)
Description:	The scalar defines CPU utilization percentage threshold for dete

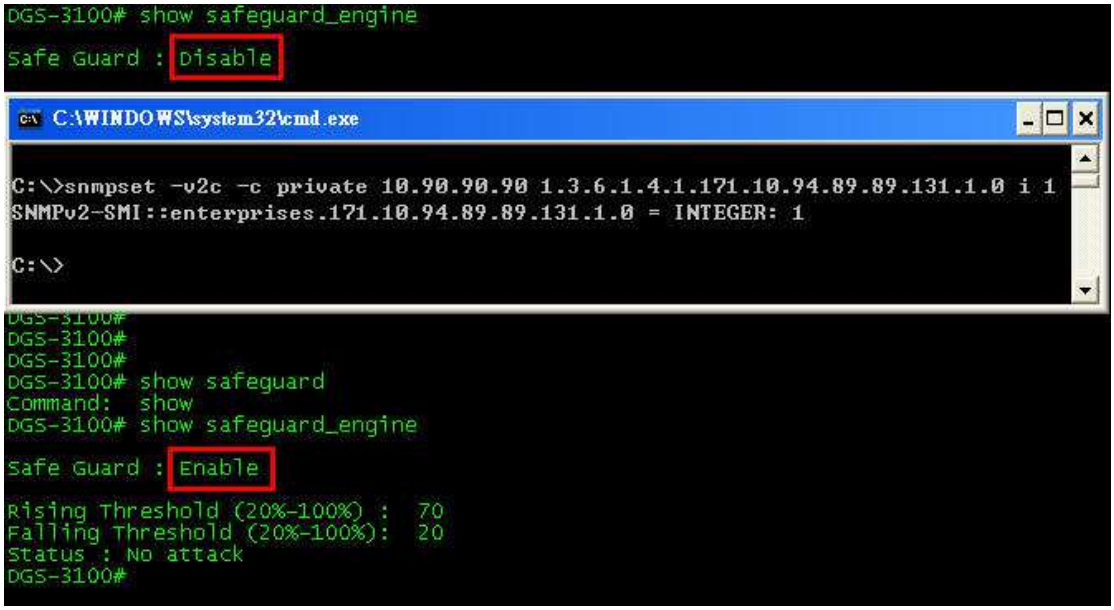
rlSafeGuardCpuUtilizationLower



Module:	DLINK-3100-SAFE-GUARD-MIB
Name:	rlSafeGuardCpuUtilizationLower
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.10.94.89.89.131.4
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-product
Module:	DLINK-3100-SAFE-GUARD-MIB
Parent:	rlSafeGuard
Prev sibling:	rlSafeGuardCpuUtilizationUpper
Next sibling:	rlSafeGuardBroadcastRateUpper
Numerical syntax:	Integer (32 bit)
Base syntax:	INTEGER
Composed syntax:	INTEGER
Status:	current
Max access:	read-write
Size list:	1: 1..100
Default values:	1: 20 (int)
Description:	The scalar defines CPU utilization percentage threshold for dete

Step1. Enable Safeguard_Engine.

snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.131.1.0 **i 1**

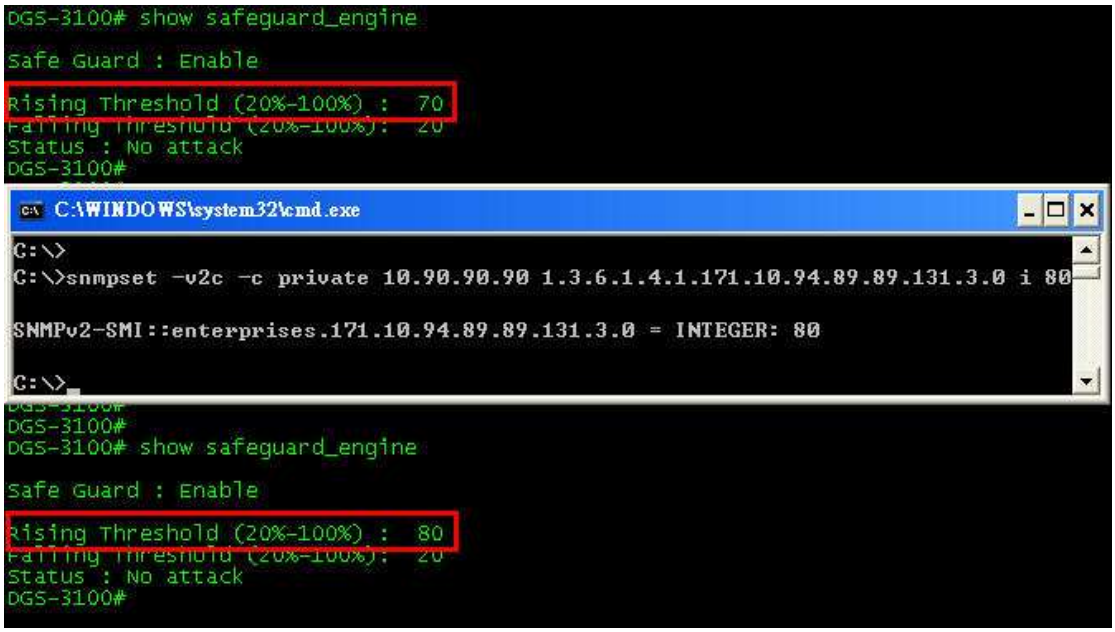


⇨ **"1" for "Enable"**

⇨ **"2" for "Disable"**

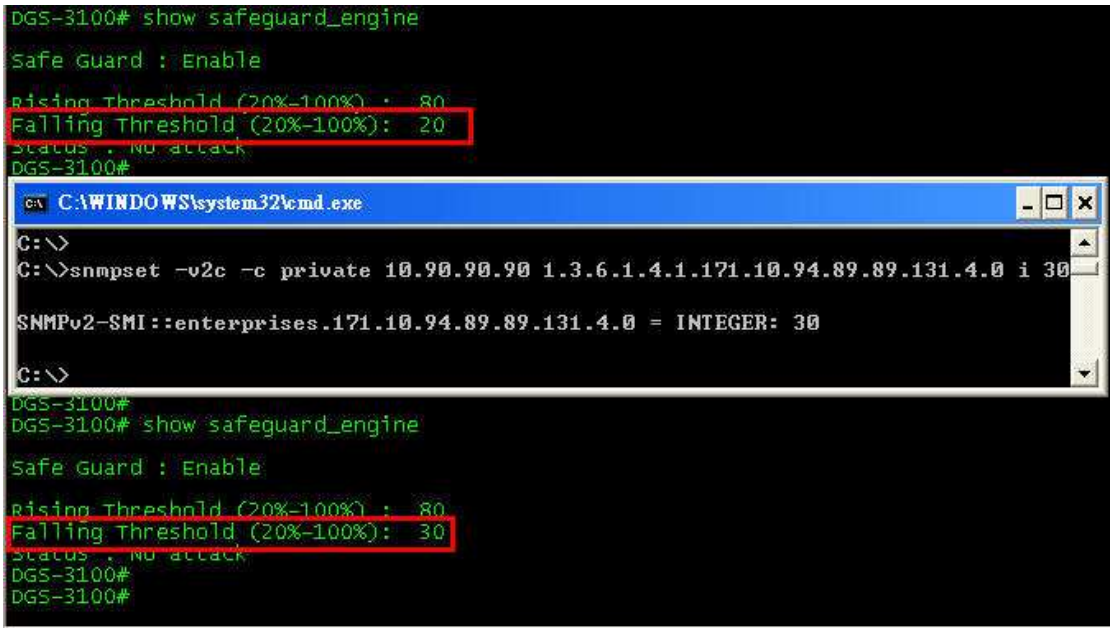
Step2. Configure Rising Threshold from 70% to 80%.

snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.131.3.0 **i 80**



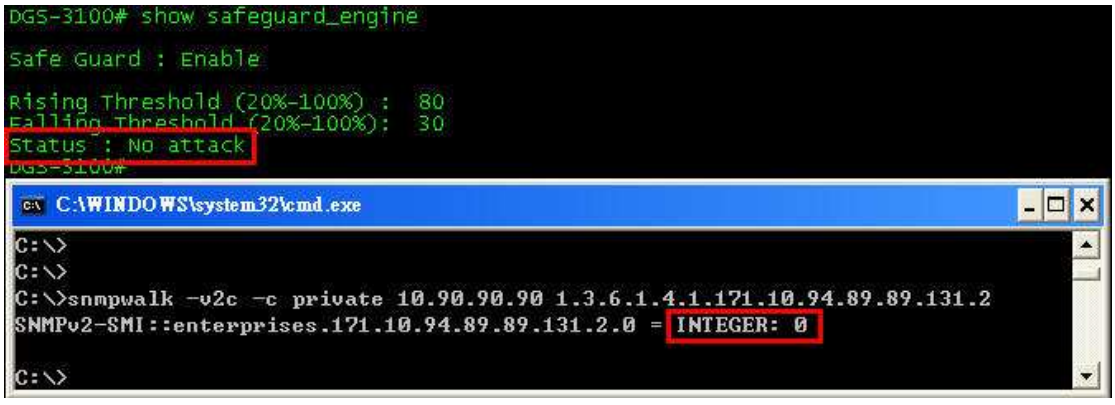
Step3. Configure Falling Threshold from 20% to 30%.

snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.131.4.0 **i 30**



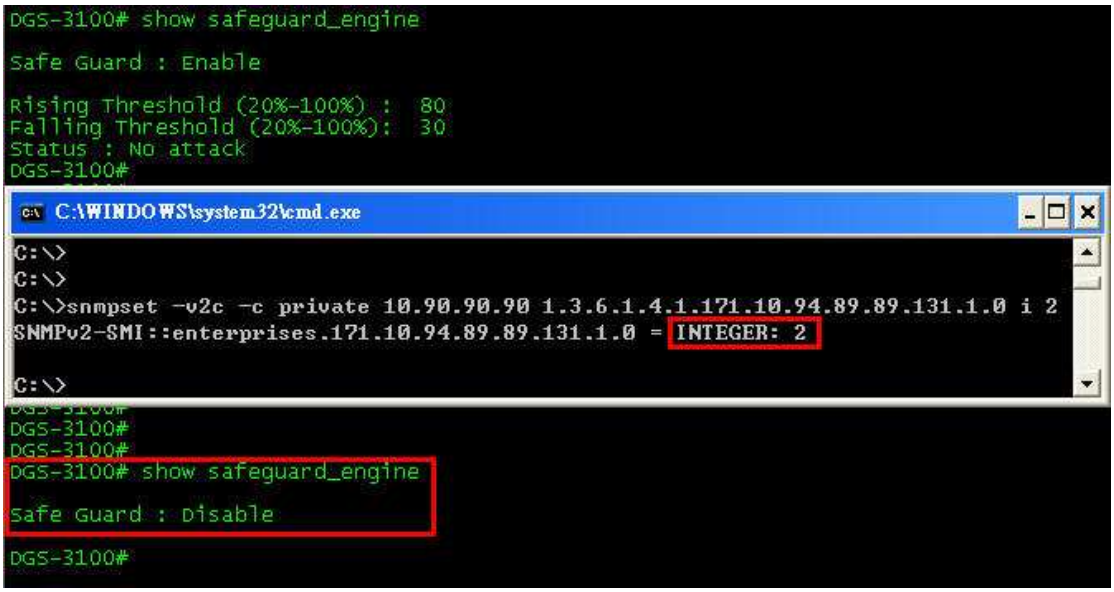
Step4. Monitor Safeguard_Engine status.

snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.131.2



⇨ **“0” for “idle” which means no attack.**

⇨ **“1” for “Attack”**

Step5. Disable Safeguard_Engine.

snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.131.1.0 **i 2**