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Cotent	SNMPv1	SNMPv2	SNMPv3
Standards	RFC-1155.1157.1212	RFC-1441,1452 RFC-1909.1910 RFC- 1901 to 1908	RFC-1902 to 1908,2271 to 2275
Version	SNMPv1 was the first version of SNMP	SNMPv2 currently exists in at least three flavors, SNMPv2c, SNMPv2u, and SNMPv2	SNMPv3 is the newest version of SNMP.
protocol operations	Simple request/ response protocol. Protocol operations :Get, GetNext, Set, and Trap	Similarity: Get, GetNext, Set Changes: Trap message format New protocol operations GetBulk and Inform	SNMPv3 uses SNMPv2 protocol operations and its PDU message format
Security	No security from someone with access to the network	SNMPv2 failed to improve on security.	Its primary feature is enhanced security.
Complexity	Performance and security limitations.	More powerful but more complex than SNMPv1	SNMPv3 focuses on improving the security aspect.
Message Format	Five messages(GetRequest,,GetNext Request, SetRequest, Trap, Response)	Seven messages instead of five (inform-request, get-bulk-request)	Implements SNMP v1 and v2 specifications along with proposed new features.
Protocol	An open, standard protocol, Streamlined protocol	Simple request/response protocol	The "EngineID" Identifier in SNMPv3 uniquely identifies each SNMP entity.
MIB	Defines limited, easily implemented MIB of scalar variables and two dimensional tables	Defines general framework with which MIB defined and constructed	Can configure agents to provide a number of levels of access to MIB
Plaintext community strings	Yes	Yes	No
Encrypted traffic, Detection of malformed packets	No	Yes	Yes
Susceptible to brute-force attacks, Susceptible to buffer-overflow attacks	Yes	Yes	No
Susceptible to injection attacks	Yes	No	No
Susceptible to replay attacks	Yes	No	No
Susceptible to sniffing of session keys	Yes	No	No
Default/known passwords	Yes	Yes	No