

Building a network device monitoring program via SNMP protocol

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Abstract: This topic aims to research and deploy a network device monitoring system based on the Simple Network Management Protocol (SNMP). In the context of increasing network connection density and complexity in network structure, building a monitoring system that can automatically detect and report errors is very necessary. The objective of the topic is to develop a program that performs monitoring and management of information related to the operational status of network devices via SNMP. The research method combines theoretical analysis with application deployment to ensure effectiveness in the monitoring process. The expected result is to provide a useful solution for network administrators, while also contributing to the development of practical skills in the field of information technology.

Keywords: SNMP, network monitoring, network devices, network management, SNMP application