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System investigation on computer

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## Introduction to System Report

A system report is a comprehensive document that provides an overview of a computer system's performance, configuration, and events that have occurred over a given period of time. It typically includes information about the operating system, hardware specifications, system utilization metrics, and any incidents or issues that have been observed. The purpose of a system report is to provide a detailed analysis of the system's performance, identify any areas of concern, and make recommendations for improvements or actions to be taken.

The system report serves as a valuable tool for system administrators, IT professionals, or other stakeholders to assess the health and performance of a computer system. It can be used to understand system behavior, identify trends or patterns, detect anomalies or potential issues, and make informed decisions for system maintenance, optimization, and security enhancement.

In summary, a system report provides a comprehensive analysis of a computer system's performance, configuration, and events, and serves as a valuable tool for understanding system behavior, identifying areas of concern, and making informed decisions for system maintenance and optimization.

## System information

There are several open-source software tools available for obtaining system information in Ubuntu, a popular Linux-based operating system. Here are two common methods:

### Using "lshw"

1. Open a terminal window in Ubuntu.
2. Install "lshw" if it is not already installed by running the following command:

```
sudo apt-get update  
sudo apt-get install lshw
```

Run the "lshw" command with administrative privileges to generate a detailed report of your system's hardware information:

```
sudo lshw
```

The "lshw" command will provide a comprehensive list of hardware components in your system, including details such as the processor, memory, storage devices, network interfaces, and more.