

## Performance Assessment

Its physics; processes running in a system consume resources to perform their roles. Identifying the processes that make up a business application, its components and all the dependencies is all well and good, but in order to estimate the cloud “hardware” needed to provide similar performance to the hardware currently being utilised, you need to know a lot about the resources being used now. Resources like CPU, RAM, Disk I/O and Network bandwidth, and not just a single sample but monitored over time.

This typically means installing server agents to collect the data, but Asset Vision’s agentless approach means that performance data can be easily collected over time with nothing to install on (often) production servers.

## Server vs. Process

To “size” a target device in a cloud that will be able to run a process with similar performance to how it runs now you need to understand the performance profile over time. Asset Vision’s agentless performance analysis does just this – measuring the resources needed for each process in the system.

On every computer device (e.g. a physical server, VM, container) there are the processes you are interested in (the workload) and the ones you are not (typically OS processes). Asset Vision’s performance data collection works at the “server” or “process” level.

Typically, a server is monitored to get an overall picture, and then specific processes are selected for more fine-grained monitoring if required.

### For any server the data collected is;

- CPU utilisation.
- RAM utilisation.
- Network data transferred in and out (Mb) and data rates (Mbps).
- Disk utilisation by the process (time) read/write speed (MB/s) and IOPS.



Additionally, a daily performance snapshot for each process is produced, allowing peak CPU, peak RAM, Network and Disk utilisation and various standard deviation measures to be easily assessed across days, weeks or months.

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