# Monitoring Engine and log management.

Engine which is used to keep track of system resources.

## Types of system resource

* Health monitoring
* Stats monitoring

### Health Monitoring

System which is used to monitor the systems health. Different type of monitors which comes under this section are

* Check whether system is up.
* CPU usage
* RAM usage
* Hard disk usage
* Ports open
* TCP connections open for outbound and inbound connection.

### Stats Monitoring

These are counters which varies from product to product and we use this to show product usage

Ex – consider our product is a ISP then data sent/receive is a stats.

Log Management

Need to write an infra where logs are written to disk, and an agent asynchronously pushes the logs to remote log management system.

We can write a monitoring engine which pushes all the metrics to remote service and that will take care of showing graph/ raising incident etc.

This contains two parts to it.

1. Agent side.
2. Server side.

Agent Side.

In agent side there are two parts

1. Writing event/log to disk.
2. Reading event/log from disk and pushing it to server.