

Logging:

The act of collecting and storing useful information about events in the system.

Eg: AWS Cloudwatch

Monitoring

The process of having visibility into the system's health, performance and general status is known as monitoring. Using monitoring the system's key metrics can be viewed.

Monitoring can be used to find:

- ① Latency of the API call
- ② No. of sales per week / month / year
- ③ No. of people logging into our platform
- ④ Which authentication users are using

Monitoring can be done using the logs in the system but if the structure of the logs

changes it might affect the monitoring system as well.

So a Time Series Database such as InfluxDB or Prometheus can be used. Tools such as Grafana can be used to make graphs from the time series database.

Alerting:

The process through which system administrators get notified ^(through slack, google chat) when critical system issues occur. Alerting can be set up by defining specific thresholds on monitoring charts, past which alerts are sent to a communication channel like Slack.