Trace the flow of the request through all the system.

Don’t worry about log size, logs could be compressed. Info is more important.

# Intro

## 2 kinds of log:

* networking-related problems
* functional issues with endpoint business logic

## Keywords

logstash, kibana, log4j

## Who?

Troubleshooters.

## Why?

Need to know where the errors happened.

Requests run through many Gateways, Firewalls, Webservers, Loadbalancers, Microservices, then return.

## How?

Need to find the exact request a particular user made.

To map a report issue to its logs, need to log **context**. Not only timestamp.

Need to be able to find a group logs, all of which belong to one request.

1 request produces many-many logs, need to link one to the next. Best: **unique request identifier** is set in UI and carried through system. Don’t have solution to impl. Having extra param in every method is probably not the right solution.

## What not to log?

Personally Identifiable Information

## What to log?

Unique request identifier = accountId+UserId into a hash (Sha256(AccountId+UserId))

# Log4j

# Action