

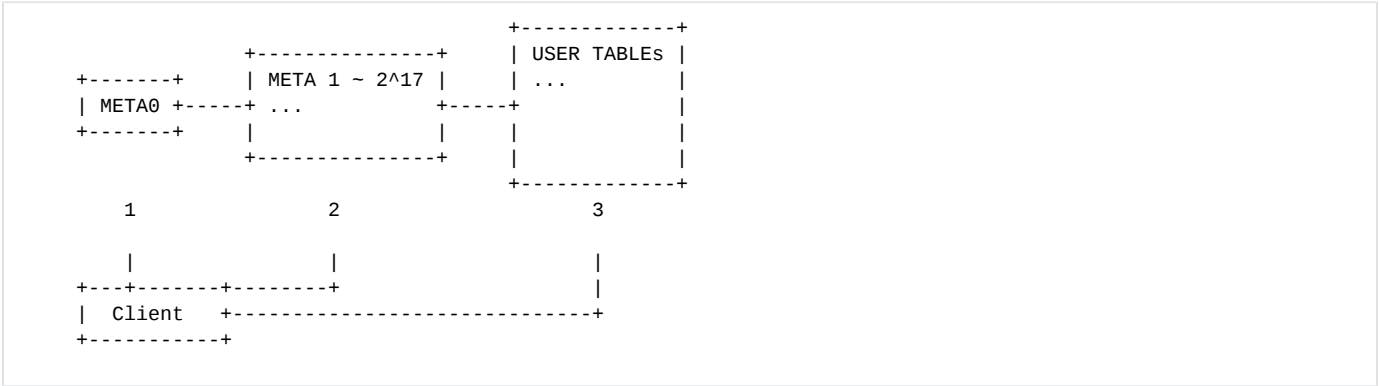
HbaseForWebMail

Goals

System should be :

- Stable & Reliable
- Fault tolerant
- Scalability
- Efficient
- Cost-effective
- Maintainable

Table Indices



Block Diagram

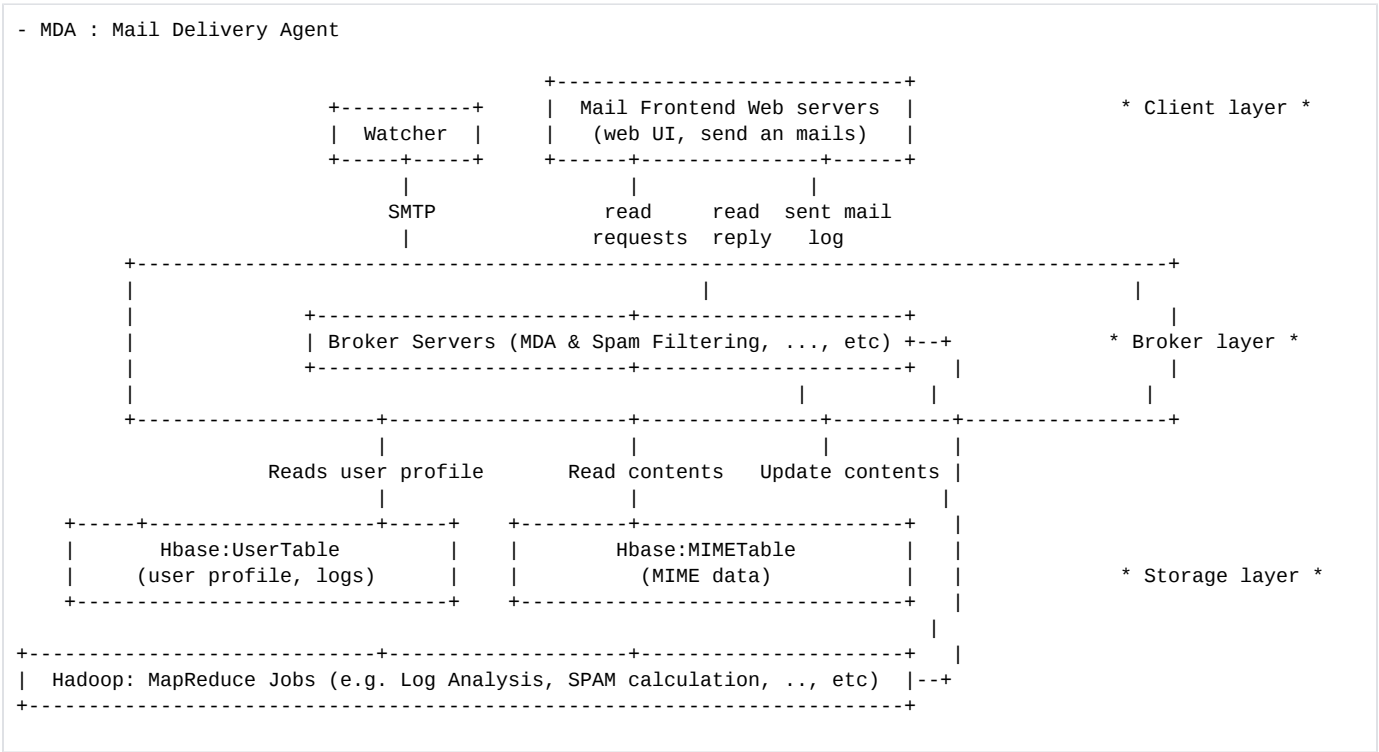


Table Schema

Row Key is a email address, a unique identifier and a Sender & Receiver. Column families are meta data. (e.g. from, to, cc, bcc, reply-to, ..., etc)

```

=====
From:                                     To:
=====
edwardyoon@apache.org   From:edward@udanax.org <"Edward J. Yoon">
                        To:chanwit@gmail.com <"Chanwit">
edward@udanax.org       From:hama-dev@incubator.apache.org <"hama-dev">

Subject:                 Content:         Address-Book:         ...
-----
<"Hello, I'm ed">       <"This is a content">   Address-Book:doug@apache.org <"Doug Cutting">   ...
                        Address-Book:channy@gmail.com <"Channy Yoon">
                        ...

```

SPAM filtering

- Sender Reputation
- Social Graph
- Text Pattern