

### Assumptions

- 100:1 Read/Write
- 1 M Writes/month
- 100 M Reads/month
- 10 KB / Paste
- 5 Year Exp. time
- 80% of traffic from 20% of Pasts

Paste  
PK Key  
Text  
Exp Date  
Views

Key  
Key

### Requirements

- Store text w/ URL
- Custom URLs
- Expiration Date
- Analytics
- API

Post /api/paste/

Sanitize input

```
{ text: "..."  
  expDate: "... (optional)"  
  alias: "... (optional)"  
}
```

Returns String - Key

Get /api/paste/:Key

Return { text: "..."  
 views: 123 }

Cache Memory - [120 GB

Storage - [600 GB

bandwidth - [500 KB/s outbound  
 5 KB/s inbound

Events - [50 reads/sec  
 5 writes/sec

- LRU Cache on application servers
- Periodic DB purges, check in app before resp.
- No SQL → No ACID req., benefit from Scale
- 6 character base64 enc

