AN SIMPLE INTRODUCTION OF REKOO SOCIAL GAME BACK-END ARCHITECTURE

REKOO PRODUCTS INTRODUCTION:

Social Game: the serial of Sunny, the serial of Moon

Operation Platform: Tencent, RenRen Social Website, 51.com, Taobao, Baidu, Souhu Mixi, DeNA, GREE, KDDI, Yabage, Facebook, MySpace

Country: Japan, South Korea, Russia, Germany, Poland

THE CHALLENGE:

- 1. Development efficiency
- 2. Flexible deployment
- 3. Big Data storage
- 4. Scalability

TECHNOLOGY STACK:

Front-end Stack:

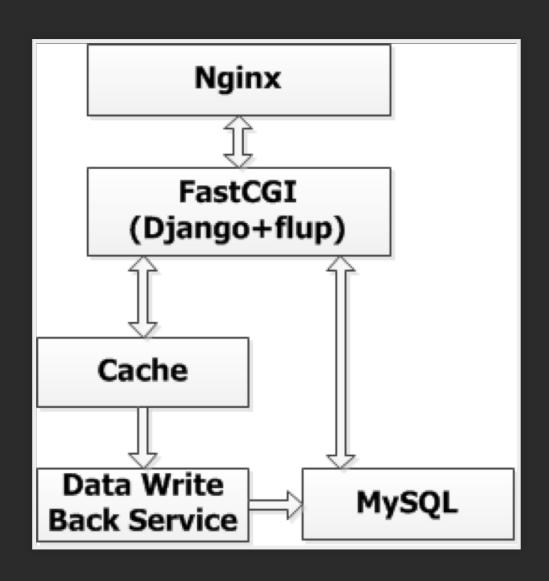
- 1. ActionScript/MXML(Fash/Flex)
- 2. HTML
- 3. JavaScript

Back-end Stack: 99% Python

PYTHON LIBRARIES

- 1. Django
- 2. MySQLdb
- 3. SQLAlchemy
- 4. Twisted
- 5. Pylibmc
- 6. flup
- 7. Tokyo Tyrant

SIMPLE ARCHITECTURE:



WEB SERVER:

- 1. Nginx
- 2. FastCGI
- 3. Running Django process in Prefork mode
- 4. Load balancing: LVS or HAProxy

CACHE SERVER:

- 1. Compatible with memcached protocol
- 2. Full memory cache or persistent cache
- 3. Scalability with cluster deployment

Tools: Memcached, Tokyo Tyrant, Flare, Kumofs, Membase

CACHE CLIENT:

- 1. Pylibmc
- 2. Data compression
- 3. tcp_nodelay
- 4. Proxy

DATABASE:

- 1. MySQL Wrapped as Key-value Store
- 2. Horizontal sharding partition by uid
- 3. Data in the cache is written back to the database asynchronously

STATISTICAL ANALYSIS OF BUSINESS DATA:

- 1. Analysis Based Database using python write statistical analysis script
- 2. Analysis Based Log records
 - Scribe
 - Hadoop + Hive

THANK YOU!