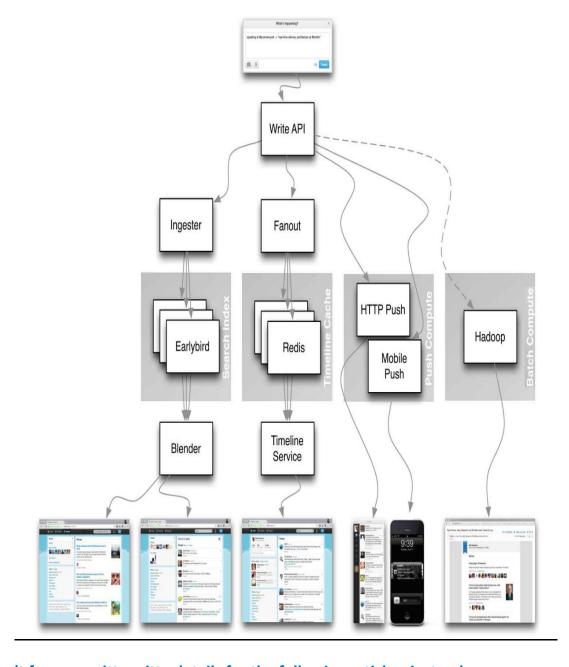
REAL WORLD ARCHITECTURES

Articles on how real world systems are designed.



Don't focus on nitty gritty details for the following articles, instead:

- Identify shared principles, common technologies, and patterns within these articles
- Study what problems are solved by each component, where it works, where it doesn't
- Review the lessons learned

Туре	System	Reference(s)
Data processing	MapReduce - Distributed data processing from Google	research.google.com
Data processing	Spark - Distributed data processing from Databricks	<u>slideshare.net</u>
Data processing	Storm - Distributed data processing from Twitter	<u>slideshare.net</u>
Data store	Bigtable - Distributed column-oriented database from Google	harvard.edu
Data store	HBase - Open source implementation of Bigtable	slideshare.net
Data store	Cassandra - Distributed column-oriented database from Facebook	<u>slideshare.net</u>
Data store	DynamoDB - Document-oriented database from Amazon	harvard.edu
Data store	MongoDB - Document-oriented database	slideshare.net
Data store	Spanner - Globally-distributed database from Google	research.google.com
Data store	Memcached - Distributed memory caching system	slideshare.net
Data store	Redis - Distributed memory caching system with persistence and value types	<u>slideshare.net</u>
File system	Google File System (GFS) - Distributed file system	research.google.com
File system	Hadoop File System (HDFS) - Open source implementation of GFS	apache.org
Misc	Chubby - Lock service for loosely-coupled distributed systems from Google	research.google.com
Misc	Dapper - Distributed systems tracing infrastructure	research.google.com
Misc	Kafka - Pub/sub message queue from LinkedIn	slideshare.net
Misc	Zookeeper - Centralized infrastructure and services enabling synchronization	<u>slideshare.net</u>
Misc	Add an architecture	<u>Contribute</u>

Company architectures

Company Reference(s)

Amazon <u>Amazon architecture</u>

Cinchcast Producing 1,500 hours of audio every day

DataSift Realtime datamining At 120,000 tweets per second

Dropbox <u>How we've scaled Dropbox</u>

ESPN Operating At 100,000 duh nuh nuhs per second

Google Google architecture

Instagram 14 million users, terabytes of photos

What powers Instagram

Justin.tv Justin.Tv's live video broadcasting architecture

Facebook Scaling memcached at Facebook

TAO: Facebook's distributed data store for the social graph

Facebook's photo storage

How Facebook Live Streams To 800,000 Simultaneous

Viewers

Flickr Flickr architecture

Mailbox From 0 to one million users in 6 weeks

Netflix A 360 Degree View Of The Entire Netflix Stack

Netflix: What Happens When You Press Play?

Pinterest From 0 To 10s of billions of page views a month

18 million visitors, 10x growth, 12 employees

Playfish <u>50 million monthly users and growing</u>

PlentyOfFish PlentyOfFish architecture

Salesforce How they handle 1.3 billion transactions a day

Stack Overflow Stack Overflow architecture

TripAdvisor 40M visitors, 200M dynamic page views, 30TB data

Tumblr 15 billion page views a month

Twitter Making Twitter 10000 percent faster

Storing 250 million tweets a day using MySQL

Company Reference(s) 150M active users, 300K QPS, a 22 MB/S firehose <u>Timelines at scale</u> Big and small data at Twitter Operations at Twitter: scaling beyond 100 million users How Twitter Handles 3,000 Images Per Second Uber How Uber scales their real-time market platform Lessons Learned From Scaling Uber To 2000 Engineers, 1000 Services, And 8000 Git Repositories The WhatsApp architecture Facebook bought for \$19 billion WhatsApp YouTube YouTube scalability YouTube architecture

Company engineering blogs

Architectures for companies you are interviewing with.

Questions you encounter might be from the same domain.

- ✓ Airbnb Engineering
- ✓ <u>Atlassian Developers</u>
- ✓ AWS Blog
- ✓ Bitly Engineering Blog
- ✓ Box Blogs
- ✓ Cloudera Developer Blog
- ✓ Dropbox Tech Blog
- ✓ Engineering at Quora
- ✓ Ebay Tech Blog
- ✓ Evernote Tech Blog
- ✓ Etsy Code as Craft
- ✓ Facebook Engineering
- ✓ Flickr Code
- ✓ Foursquare Engineering Blog
- ✓ GitHub Engineering Blog
- ✓ Google Research Blog
- ✓ Groupon Engineering Blog
- ✓ Heroku Engineering Blog
- ✓ Hubspot Engineering Blog
- ✓ High Scalability
- ✓ Instagram Engineering
- ✓ Intel Software Blog
- ✓ Jane Street Tech Blog
- ✓ <u>LinkedIn Engineering</u>
- ✓ Microsoft Engineering

- ✓ <u>Microsoft Python Engineering</u>
- ✓ Netflix Tech Blog
- ✓ Paypal Developer Blog
- ✓ Pinterest Engineering Blog
- ✓ Reddit Blog
- ✓ <u>Salesforce Engineering Blog</u>
- ✓ Slack Engineering Blog
- ✓ Spotify Labs
- ✓ Stripe Engineering Blog
- ✓ Twilio Engineering Blog
- ✓ Twitter Engineering
- ✓ <u>Uber Engineering Blog</u>
- ✓ Yahoo Engineering Blog
- ✓ Yelp Engineering Blog
- ✓ Zynga Engineering Blog

Source(s) and further reading:

Companies

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D

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- ✓ Evan Hahn http://evanhahn.com/
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J

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N

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P

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