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# Welcome to Apache HBase™

Apache (<http://www.apache.org/>) HBase™ is the Hadoop (<http://hadoop.apache.org/>) database, a distributed, scalable, big data store.

Use Apache HBase™ when you need random, realtime read/write access to your Big Data. This project's goal is the hosting of very large tables -- billions of rows X millions of columns -- atop clusters of commodity hardware. Apache HBase is an open-source, distributed, versioned, non-relational database modeled after Google's Bigtable: A Distributed Storage System for Structured Data (<http://research.google.com/archive/bigtable.html>) by Chang et al. Just as Bigtable leverages the distributed data storage provided by the Google File System, Apache HBase provides Bigtable-like capabilities on top of Hadoop and HDFS.

## Download

Click **here** (<http://www.apache.org/dyn/closer.cgi/hbase/>) to download Apache HBase™.

## Features

- Linear and modular scalability.
- Strictly consistent reads and writes.
- Automatic and configurable sharding of tables
- Automatic failover support between RegionServers.
- Convenient base classes for backing Hadoop MapReduce jobs with Apache HBase tables.
- Easy to use Java API for client access.
- Block cache and Bloom Filters for real-time queries.
- Query predicate push down via server side Filters
- Thrift gateway and a REST-ful Web service that supports XML, Protobuf, and binary data encoding options
- Extensible jruby-based (JIRB) shell
- Support for exporting metrics via the Hadoop metrics subsystem to files or Ganglia; or via JMX

## More Info

See the Architecture Overview (<http://hbase.apache.org/book.html#arch.overview>) , the Apache HBase Reference Guide FAQ (<http://hbase.apache.org/book.html#faq>) , and the other documentation links.

## Export Control

The HBase distribution includes cryptographic software. See the export control notice here ([export\\_control.html](http://export_control.html))

## Code Of Conduct

We expect participants in discussions on the HBase project mailing lists, Slack and IRC channels, and JIRA issues to abide by the Apache Software Foundation's Code of Conduct (<http://apache.org/foundation/policies/conduct.html>) . More information can be found here ([coc.html](http://coc.html)).

# News

August 4th, 2017 HBaseCon Asia 2017

(<https://easychair.org/cfp/HBaseConAsia2017>) @ the Huawei Campus in Shenzhen, China

June 12th, 2017 HBaseCon2017 (<https://easychair.org/cfp/hbasecon2017>) at the Crittenden Buildings on the Google Mountain View Campus

April 25th, 2017 Meetup

(<https://www.meetup.com/hbaseusergroup/events/239291716/>) @ Visa in Palo Alto

December 8th, 2016 Meetup@Splice

(<https://www.meetup.com/hbaseusergroup/events/235542241/>) in San Francisco

September 26th, 2016 HBaseConEast2016 (<http://www.meetup.com/HBase-NYC/events/233024937/>) at Google in Chelsea, NYC

May 24th, 2016 HBaseCon2016 (<http://www.hbasecon.com/>) at The Village, 969 Market, San Francisco

June 25th, 2015 HBase Summer Meetup 2015

(<http://www.zusaar.com/event/14057003>) in Tokyo

May 7th, 2015 HBaseCon2015 (<http://hbasecon.com/>) in San Francisco

February 17th, 2015 HBase meetup around Strata+Hadoop World

(<http://www.meetup.com/hbaseusergroup/events/219260093/>) in San Jose

January 15th, 2015 HBase meetup @ AppDynamics

(<http://www.meetup.com/hbaseusergroup/events/218744798/>) in San Francisco

November 20th, 2014 HBase meetup @ WANdisco

(<http://www.meetup.com/hbaseusergroup/events/205219992/>) in San Ramon

October 27th, 2014 HBase Meetup @ Apple

(<http://www.meetup.com/hbaseusergroup/events/207386102/>) in Cupertino

October 15th, 2014 HBase Meetup @ Google (<http://www.meetup.com/HBase-NYC/events/207655552/>) on the night before Strata/HW in NYC

September 25th, 2014 HBase Meetup @ Continuity

(<http://www.meetup.com/hbaseusergroup/events/203173692/>) in Palo Alto

August 28th, 2014 HBase Meetup @ Sift Science  
(<http://www.meetup.com/hbaseusergroup/events/197773762/>) in San Francisco

July 17th, 2014 HBase Meetup @ HP  
(<http://www.meetup.com/hbaseusergroup/events/190994082/>) in Sunnyvale

June 5th, 2014 HBase BOF at Hadoop Summit (<http://www.meetup.com/Hadoop-Summit-Community-San-Jose/events/179081342/>), San Jose Convention Center

May 5th, 2014 HBaseCon2014 (<http://www.hbasecon.com/>) at the Hilton San Francisco on Union Square

March 12th, 2014 HBase Meetup @ Ancestry.com  
(<http://www.meetup.com/hbaseusergroup/events/160757912/>) in San Francisco

Old News ([old\\_news.html](#))

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(<http://maven.apache.org/>)