萧少聪 (铁庵) Scott Siu shaocong.xsc@alibaba-inc.com

[Why Postgres necessary]

Product? or Solution?

Postgres & HybridDB

Growing with community

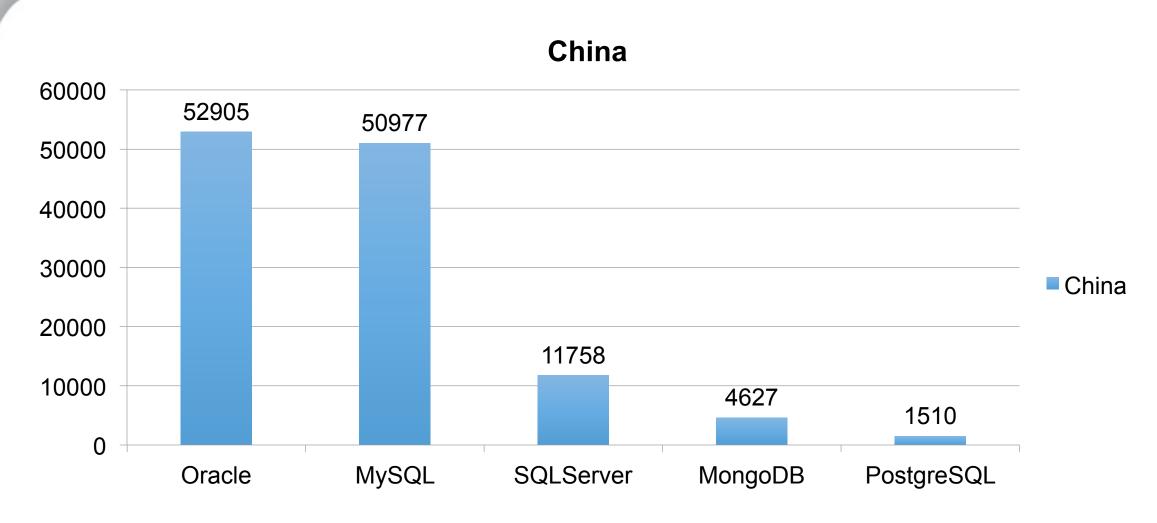
About 23% of Oracle in the world

310 systems in ranking, November 2016

Nov 2016	Rank Oct 2016	Nov 2015	DBMS	Database Model	Score		
					Nov 2016	Oct 2016	Nov 2015
1.	1.	1.	Oracle 🖽	Relational DBMS	1413.01	-4.09	-67.94
2.	2.	2.	MySQL 🖽	Relational DBMS	1373.56	+10.91	+86.71
3.	3.	3.	Microsoft SQL Server	Relational DBMS	1213.80	-0.38	+91.48
4.	↑ 5.	↑ 5.	PostgreSQL	Relational DBMS	325.82	+7.12	+40.13
5.	4 .	4 .	MongoDB 🔠	Document store	325.48	+6.67	+20.87
6.	6.	6.	DB2	Relational DBMS	181.46	+0.90	-21.07
7.	7.	1 8.	Cassandra 🖽	Wide column store	133.97	-1.09	+1.05
8.	8.	4 7.	Microsoft Access	Relational DBMS	125.97	+1.30	-14.99
9.	9.	1 0.	Redis	Key-value store	115.54	+6.00	+13.13
10.	10.	4 9.	SQLite	Relational DBMS	112.00	+3.43	+8.55

Data from: db-engines.com

Just about 3% of Oracle in the China



Data from: zhaopin.com (the popular recruiting website in China)

Why Postgres necessary

Enterprise Customer

Complex Query

IoT = JSON + GIS

FDW connect everything

Growth stage is the best opportunity



7 years ago, Alibaba Cloud just a baby!

Today we support 11.11 generated \$17.8Billion in 24hours.

首家获得信息安全管理 体系的国际认证

正式对外提供云服务

阿里云成立

2009

成为集团内基础设施

2010

2011

--◇--- 边锋网

2012

€€17▼ 中央电视台

联想集团

浙江水利

国家药监局

天弘基金

2013

CFDA

施耐德

众安保险

大数据平台对外开放

单集群突破5000节点

2014



铁道部12306



浙江政务



北京政务



新华社

飞利浦

互联网+:从IT到DT

2015

中石化

小咖秀

瑞云

登學 华大基因

中石油

微博

海关

公安

云数据 大计算

2016





















今日头条





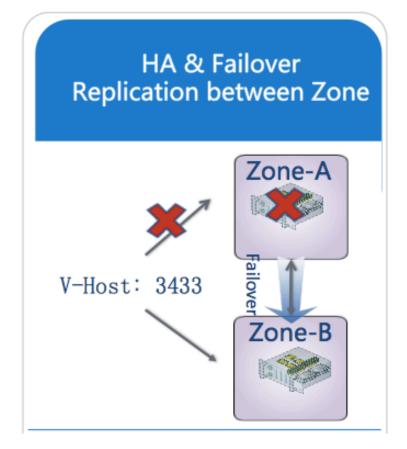
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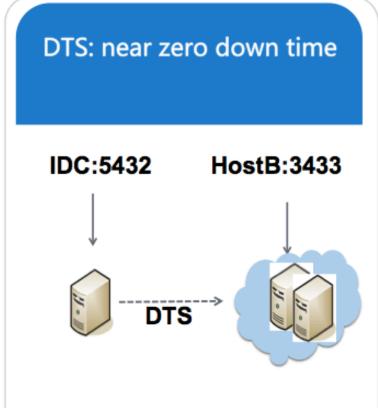
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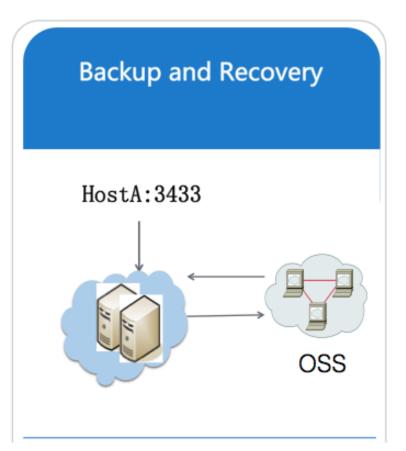
Postgres & HybridDB

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Not just a Postgres engine

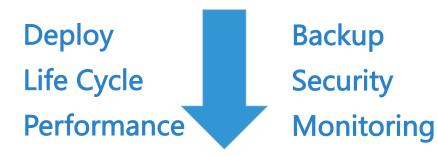






DBA focus on SQL

[10% DBA / Developer 90%]

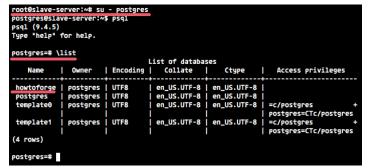


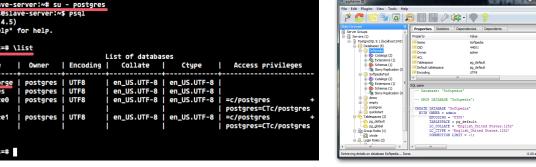


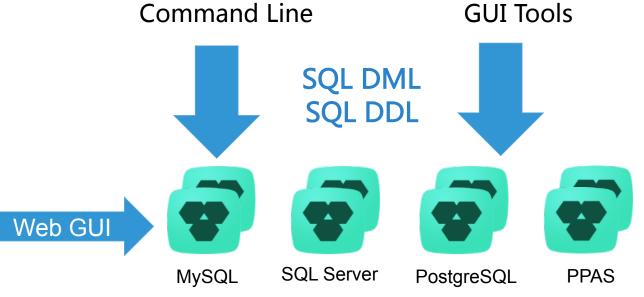










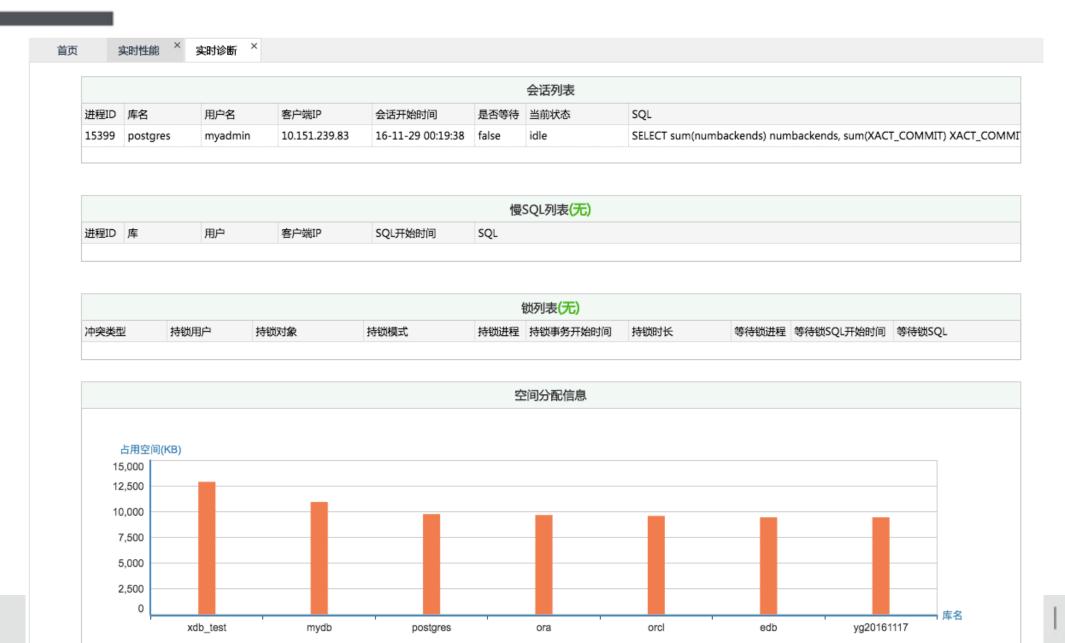




Web GUI: Performance monitoring



Web GUI: session list / slow SQL / lock tables





Manager your instance via API / SDK

```
https://rds.aliyuncs.com/?Action=CreateDBInstance
```

&RegionId=cn-hangzhou

&Engine=PostgreSQL

&EngineVersion=9.4

&DBInstanceClass=rds.pg.s2.large

&DBInstanceStorage=50

&DBInstanceNetType=Internet

&SecurityIPList=11.11.11.11

&PayType=Postpaid

&...

https://rds.aliyuncs.com/?Action=ModifyDBInstanceSpec

&DBInstanceId=rds-my-pg-instance

&PayType=Postpaid

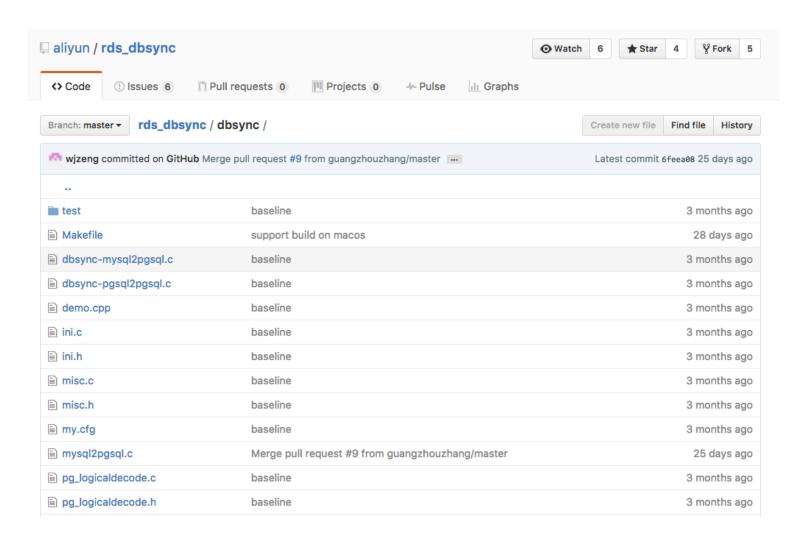
&DBInstanceClass=rds.pg.st.d13

&DBInstanceStorage=1000

Alibaba Cloud Postgres open source tools

https://github.com/aliyun/rds_dbsync

Sync data from:
MySQL/PostgreSQL
to
PostgreSQL/HybridDB/
Greenplum Database



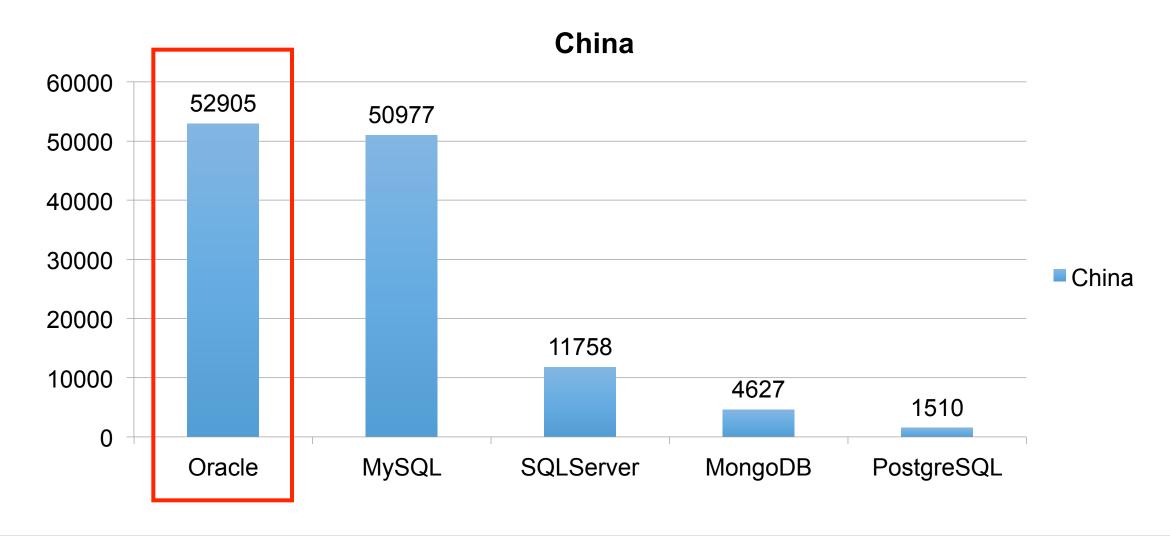
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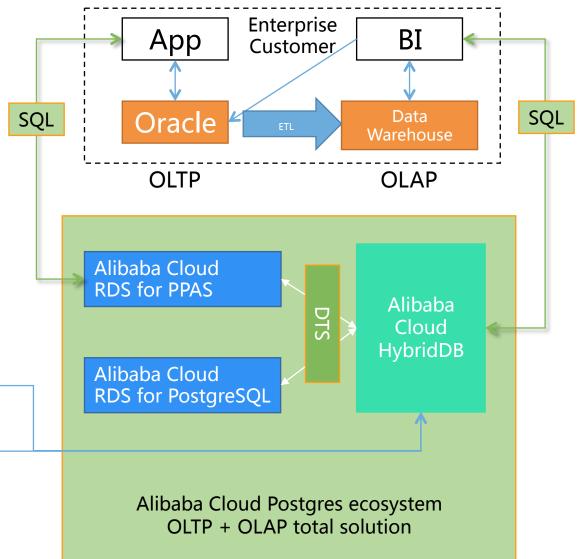
What enterprise customer need?



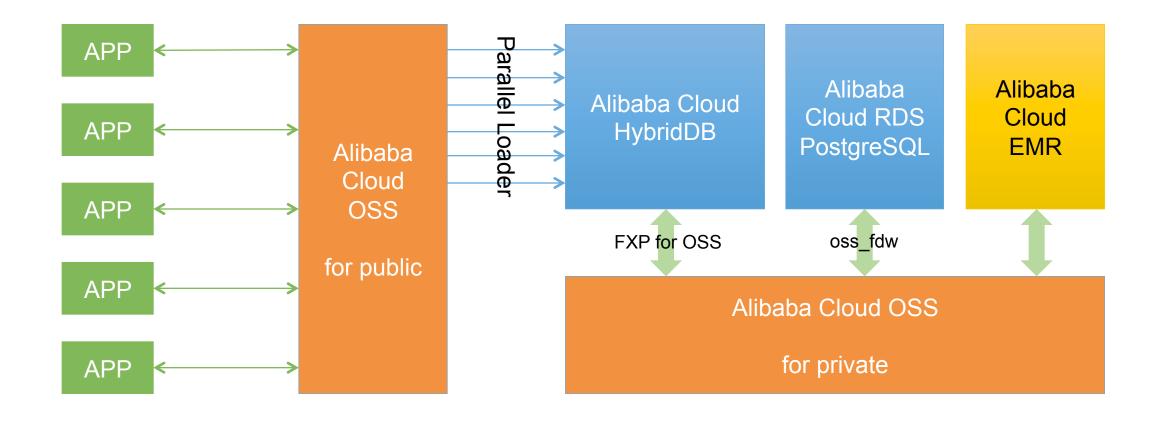
Help enterprise user migrate all IT system to cloud

- Alibaba Cloud HybridDB is a MPP data warehouse (base on Greenplum Database open source project)
- Provide the same manager platform with Alibaba Cloud RDS, and support JSON, HyperLogLog, OSS FXP and so on.

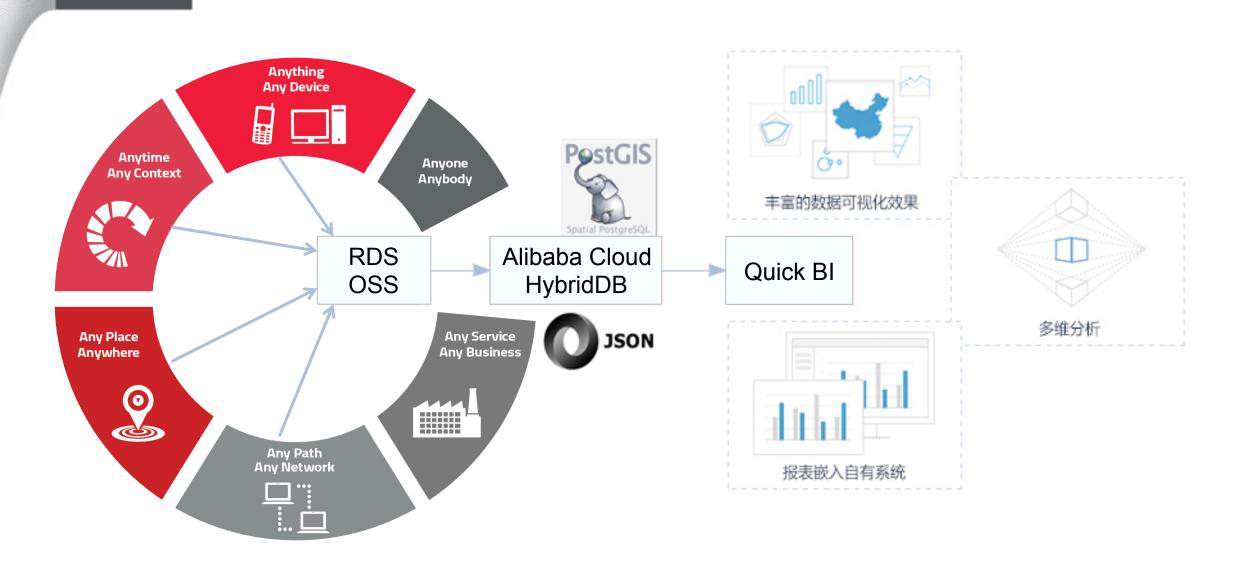




OSS: "Parallel Loader" and "warm storage"



GIS + JSON make IoT easy



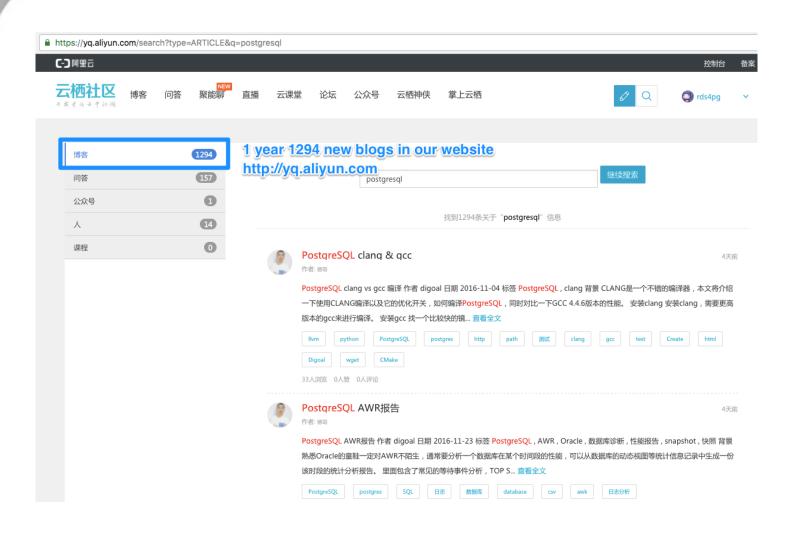
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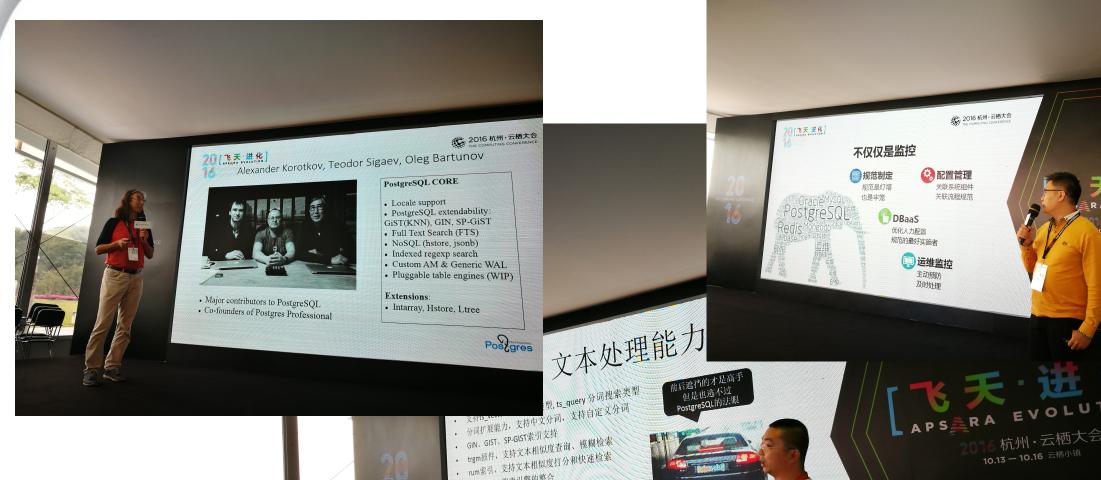
Learning from the world and sharing in China



We support:

- 1000+ blogs for Chinese
- 20+ Conference in China
 (3 times oversea)
- 12 hours free course
- 6 free training
- 1 open source project

The Computing Conference China 2016



· es-fdw, ES搜索引擎的整合

- 8Host, 16Core, 1008亿数据, 前后模糊、正则匹配, 秒级响应

- 英语分词性能: ~900万 words每秒 (Intel(R) Xeon(R) CPU

- 中文分词+插入性能: ~ 290万字每秒 (Intel(R) Xeon(R) CPU

- 中文分词性能: ~400万字每秒 (Intel(R) Xeon(R) CPU - 英文分词+插入性能: ~666万字每秒 (Intel(R) Xeon(R) CPU X7460

X7460 @ 2.0

X7460

X7460

• 性能指标 • 模糊查询、正则匹配

• 分词



杭州・云栖大会



Postgres Conference China 2016 volunteers



Alibaba Cloud send: 5 volunteers and 6 speakers to support PG Conf CN 2016 More Then Just Cloud | (一)阿里云