The architecture and maintenance of China-VO platform

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Chinese Virtual Observatory (China-VO)
National Astronomical Observatory of China

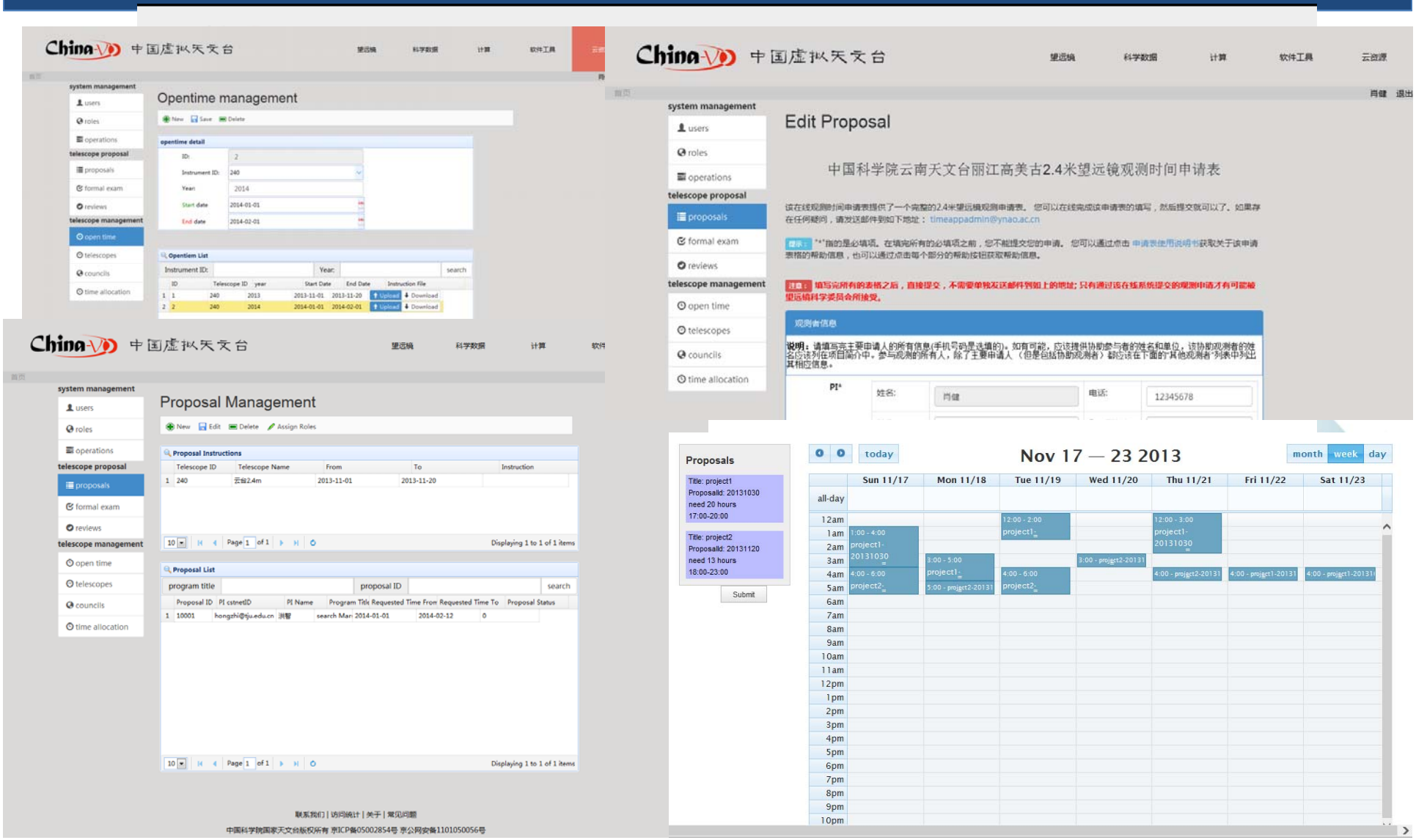
October 2015 Interop in Sydney, Australia

Contents

- China-VO Platform Introduction
- The architecture of Platform
- The maintenance of Platform

China-VO Platform

Proposal Submission and Management



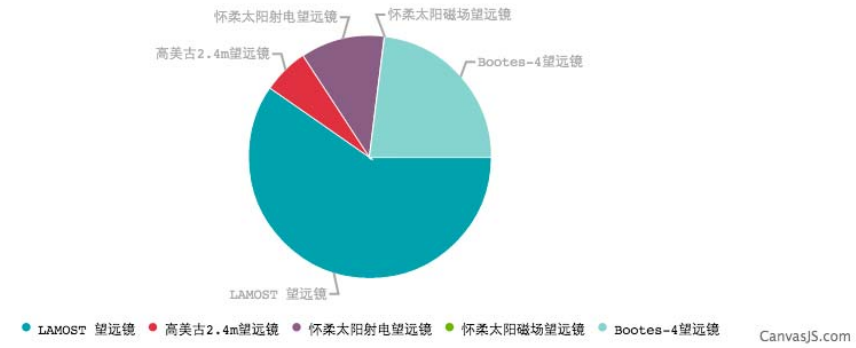
Link Status and Archiving Management

望远镜节点状态 更新: 2013-10-09 12:01:23

LAMOST望远镜	数据量: 12,096,495 MB，新增 9,467 MB	2013-10-08 22:02:02
高美古2.4m望远镜	数据量: 1,240,071 MB，新增 2,921 MB	2013-10-07 10:21:54
怀柔太阳射电望远镜	数据量: 2,265,615 MB，新增 2,055 MB	2013-10-09 17:38:21
怀柔太阳磁场望远镜	数据量: 4,774 MB，新增 38 MB	2013-10-08 13:56:17
Bootes-4望远镜	数据量: 4,664,507 MB，新增 705 MB	2013-10-06 08:06:31

统计信息 更新: 2013-10-09 12:01:23

总数据量 20,271,462 MB



数据归档日志 更新: 2013-10-09 12:01:23

时间	站点	日志
2013-10-09 17:38:21	怀柔太阳射电	数据汇交结束
2013-10-09 17:02:54	怀柔太阳射电	数据汇交开始
2013-10-08 13:56:17	怀柔太阳磁场	数据汇交结束
2013-10-08 12:02:02	LAMOST	数据汇交结束
2013-10-08 11:50:24	怀柔太阳磁场	数据汇交开始
2013-10-08 09:02:02	LAMOST	数据汇交开始
2013-10-07 10:21:54	GMG2.4	数据汇交结束
2013-10-07 08:32:12	GMG2.4	数据汇交开始

更多日志

按日期查询

日期范围:
2013-10-18 - 2013-10-19

FROM 2013-10-18 TO 2013-10-19

Apply Cancel

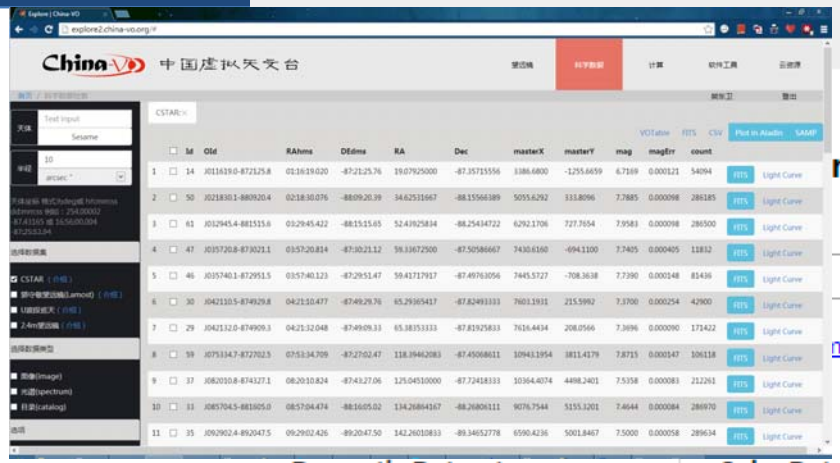
Oct 2013

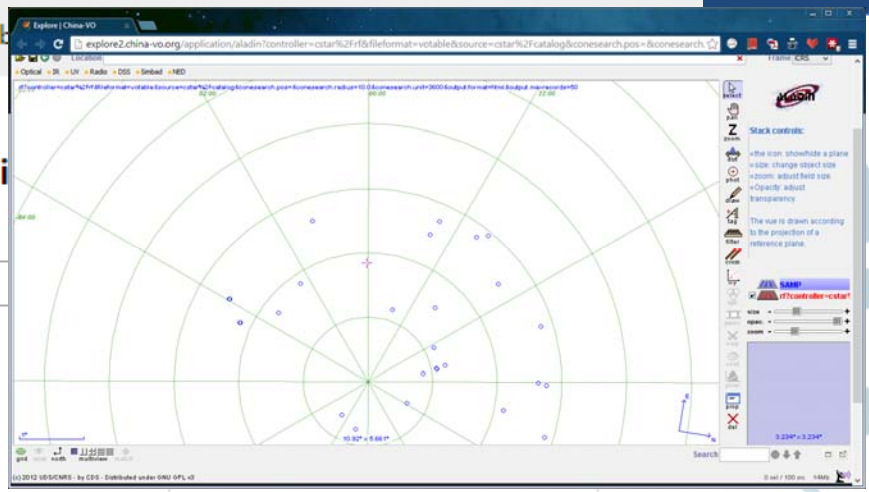
Su	Mo	Tu	We	Th	Fr	Sa
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Oct 2013

Su	Mo	Tu	We	Th	Fr	Sa
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

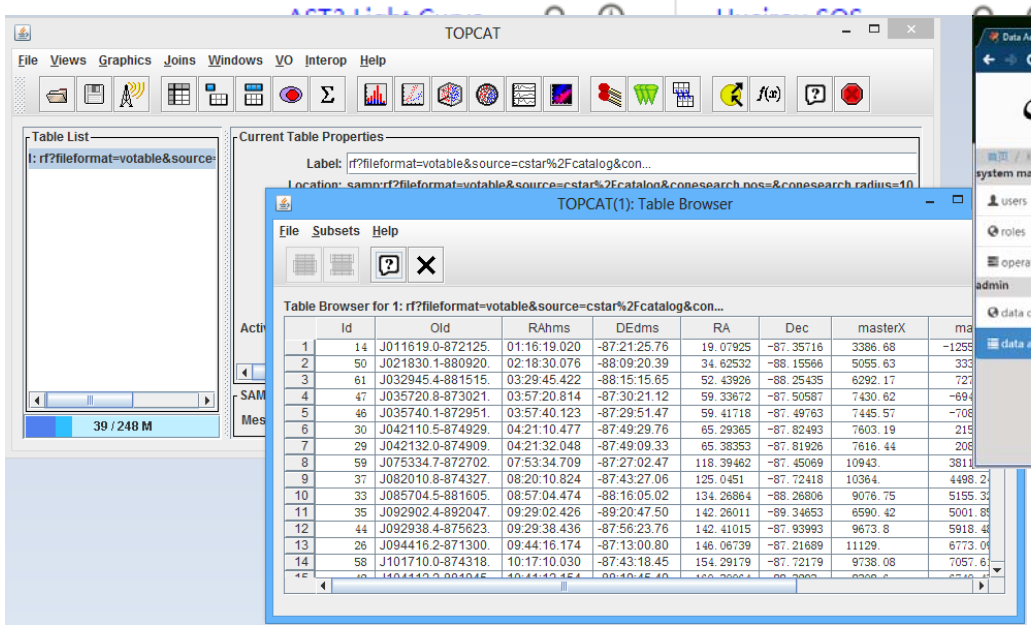
Data Search and Access

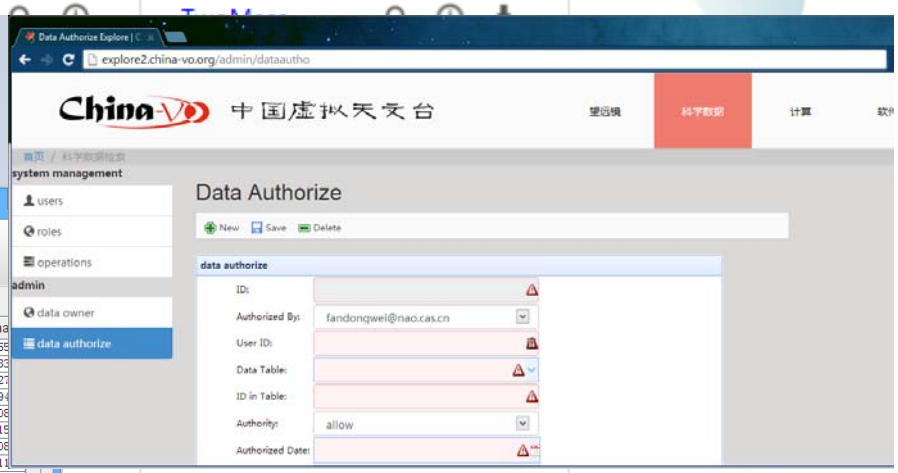




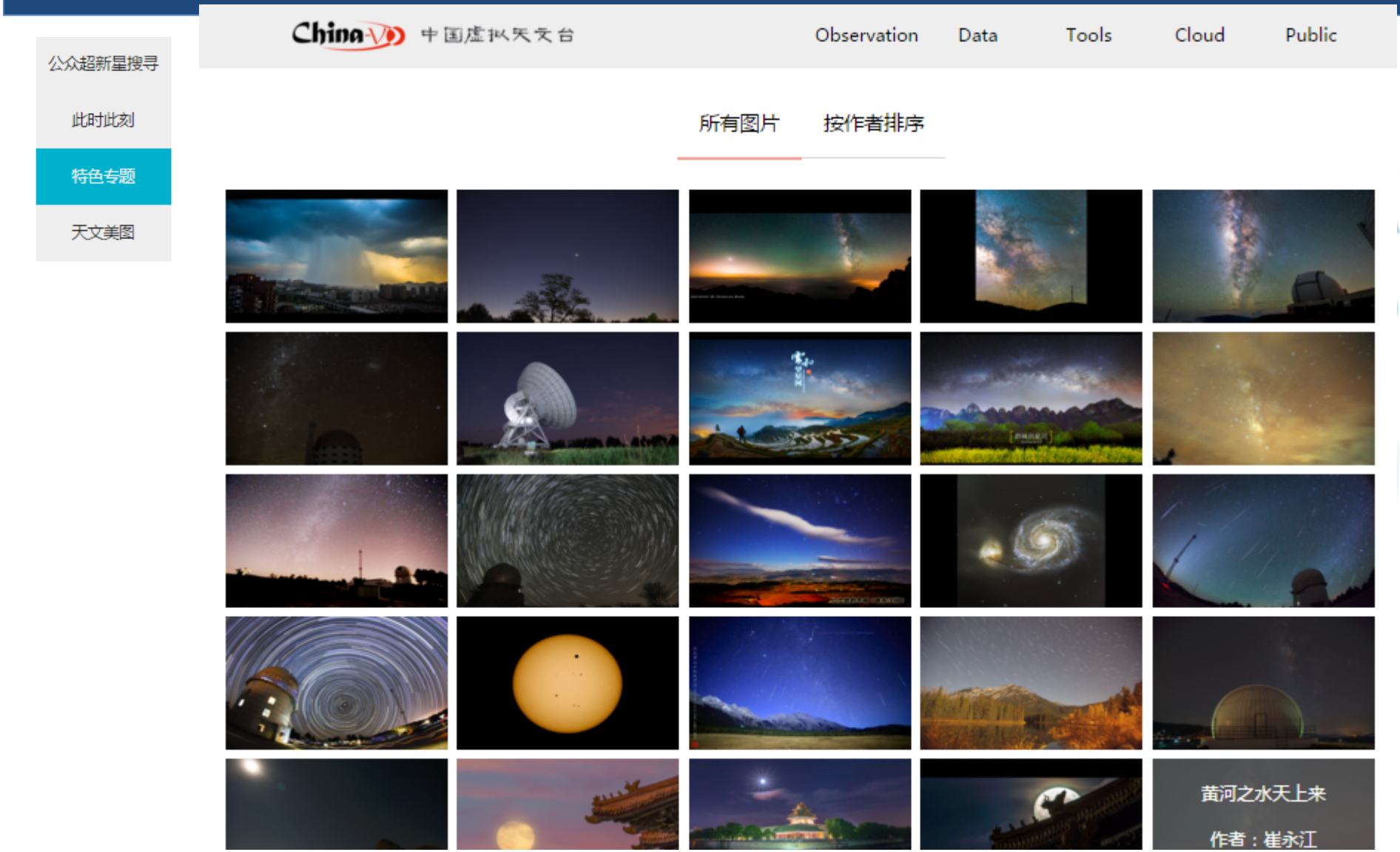
Domestic Dataset

Solar Dataset

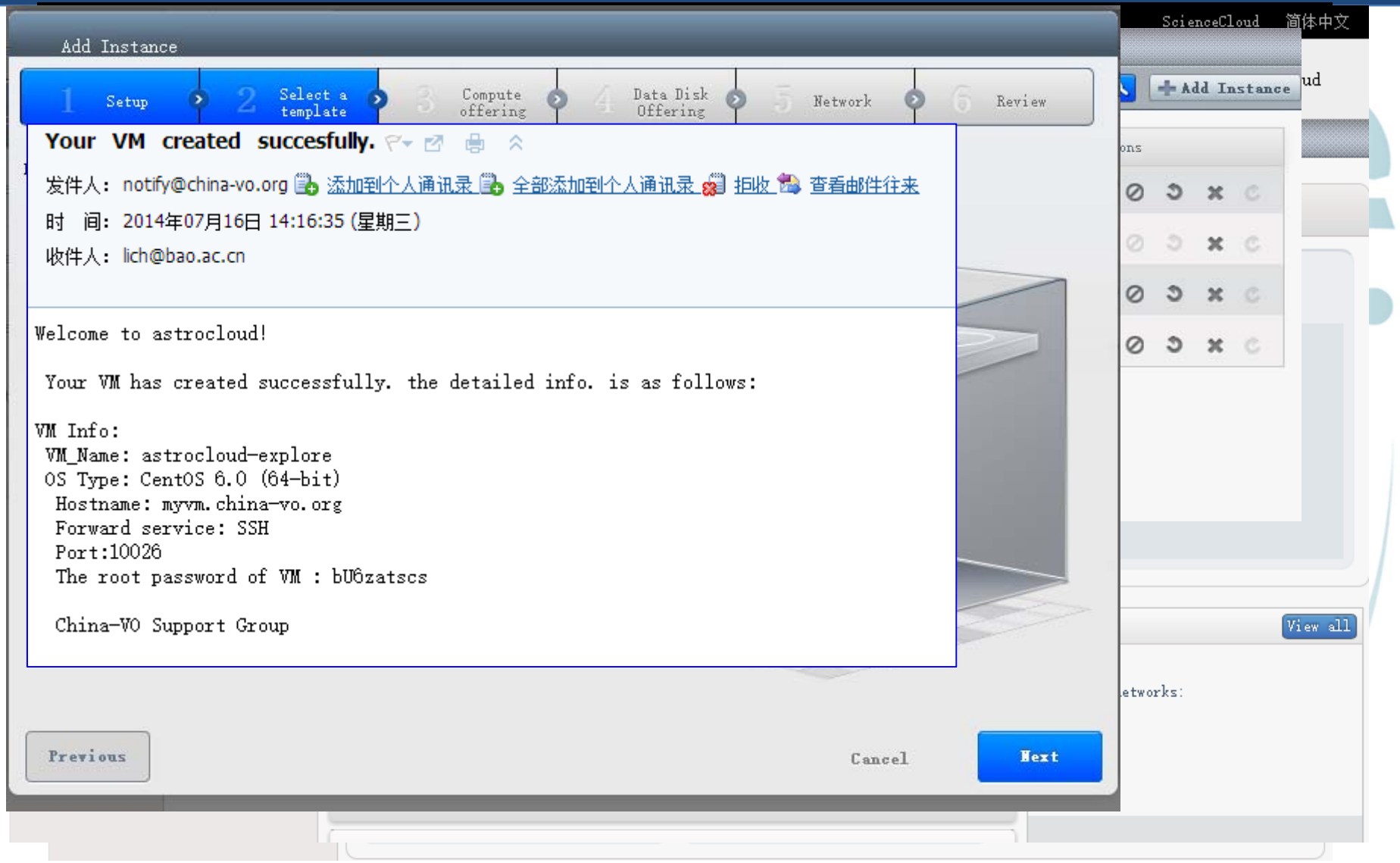




Public Channel



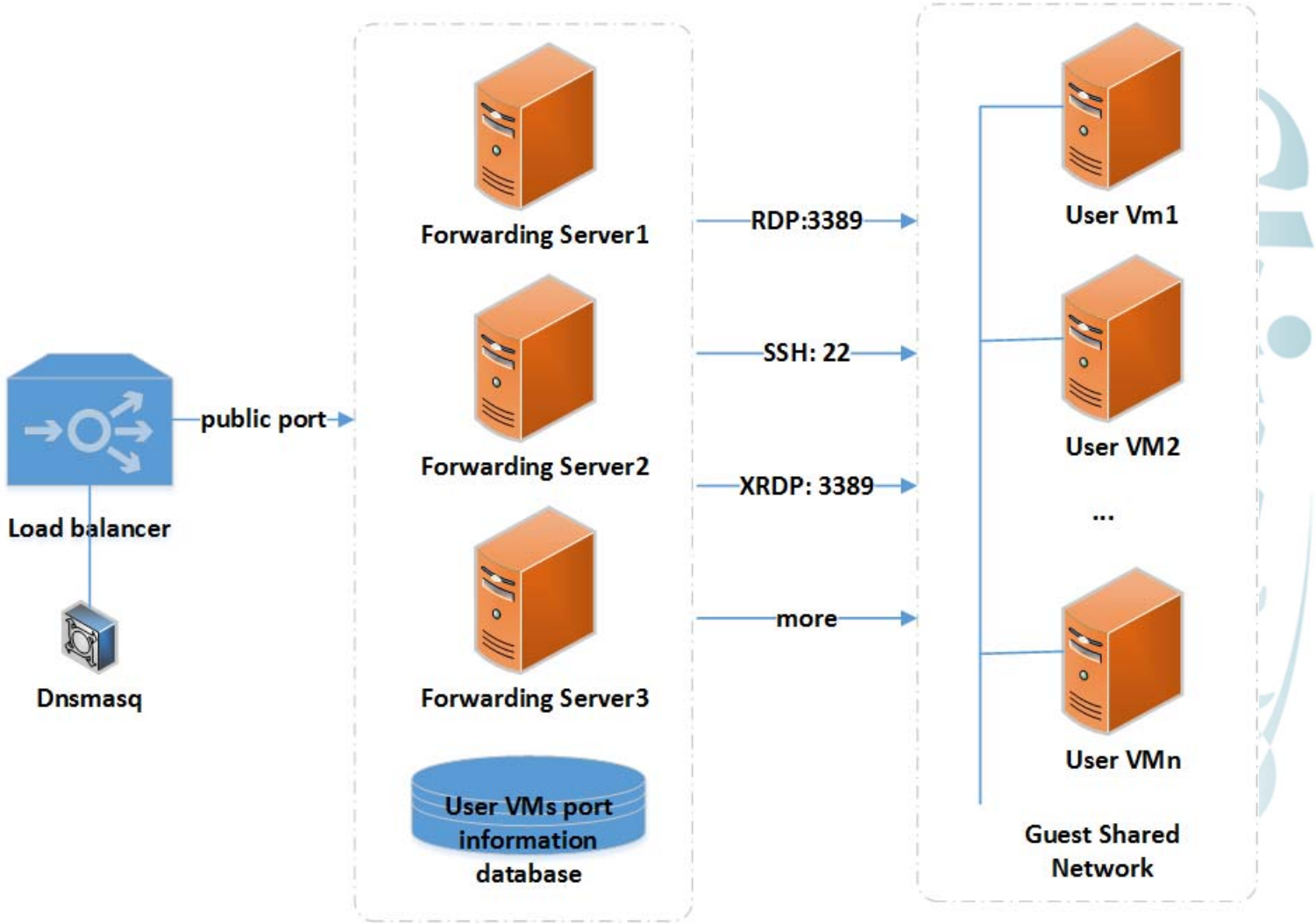
Cloud Computing Environment



Cloud Computing Environment

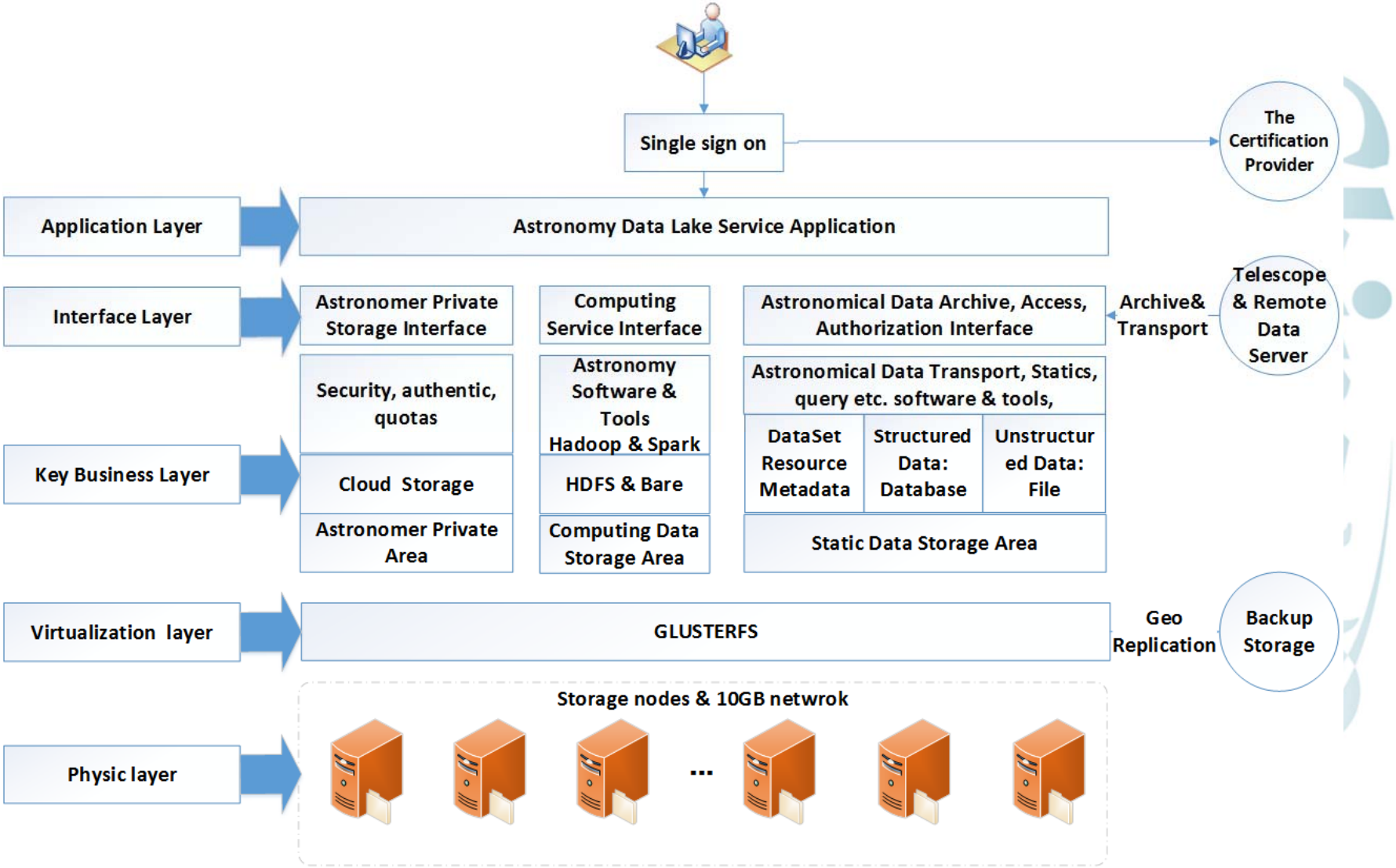
----VM Access

- Web\
- Port F



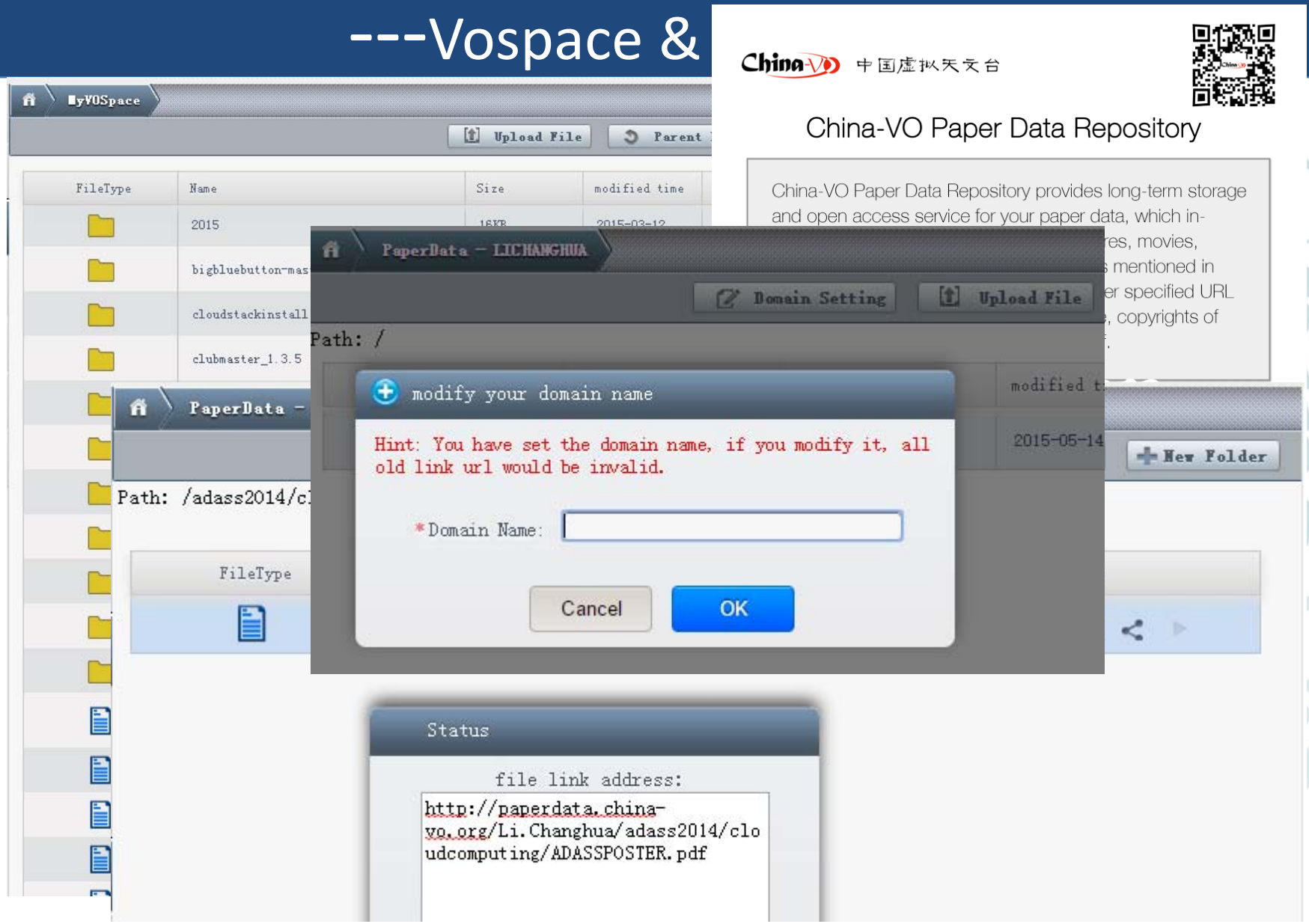
Cloud Computing Environment

---China-VO Data Lake

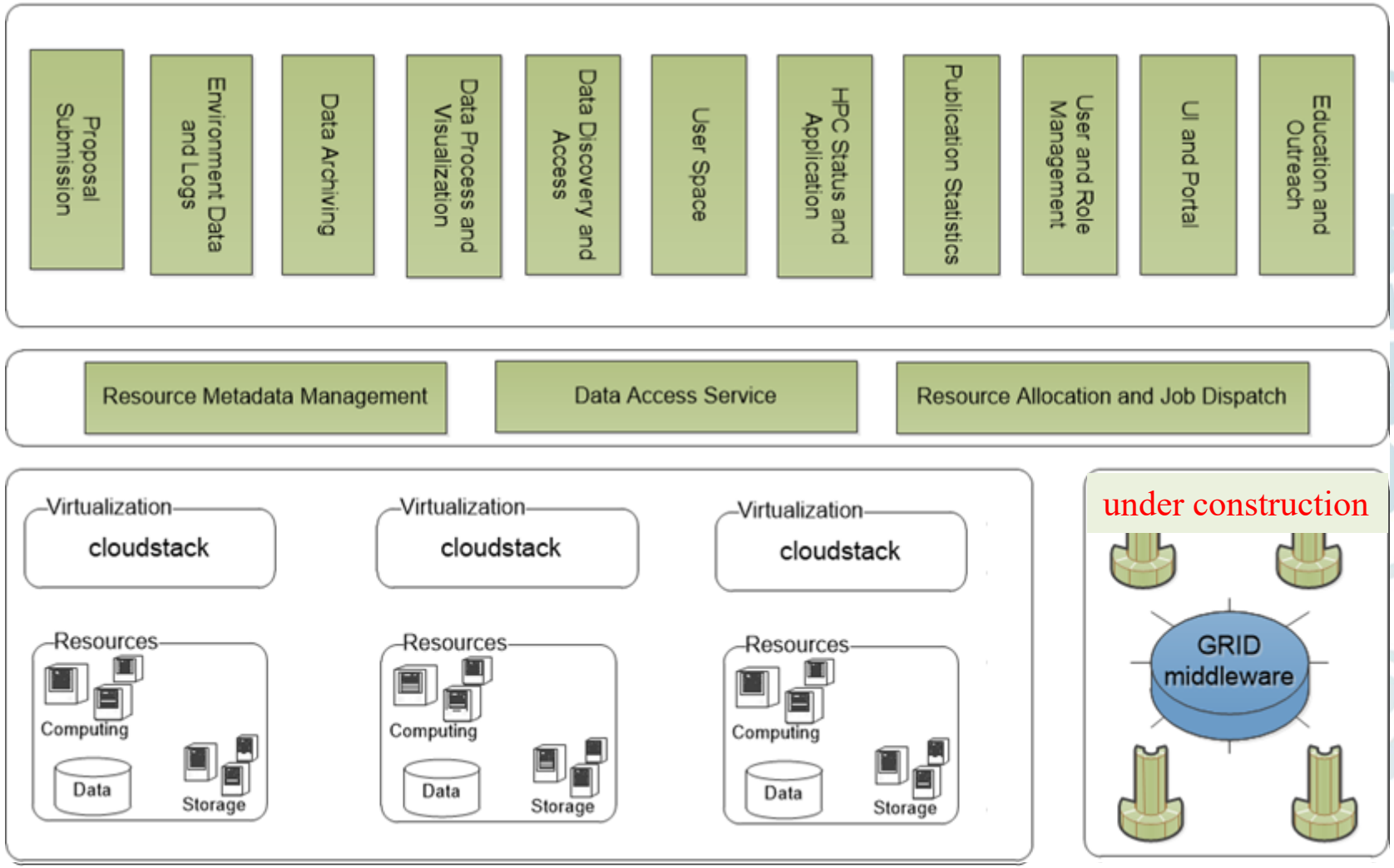


Cloud Computing Environment

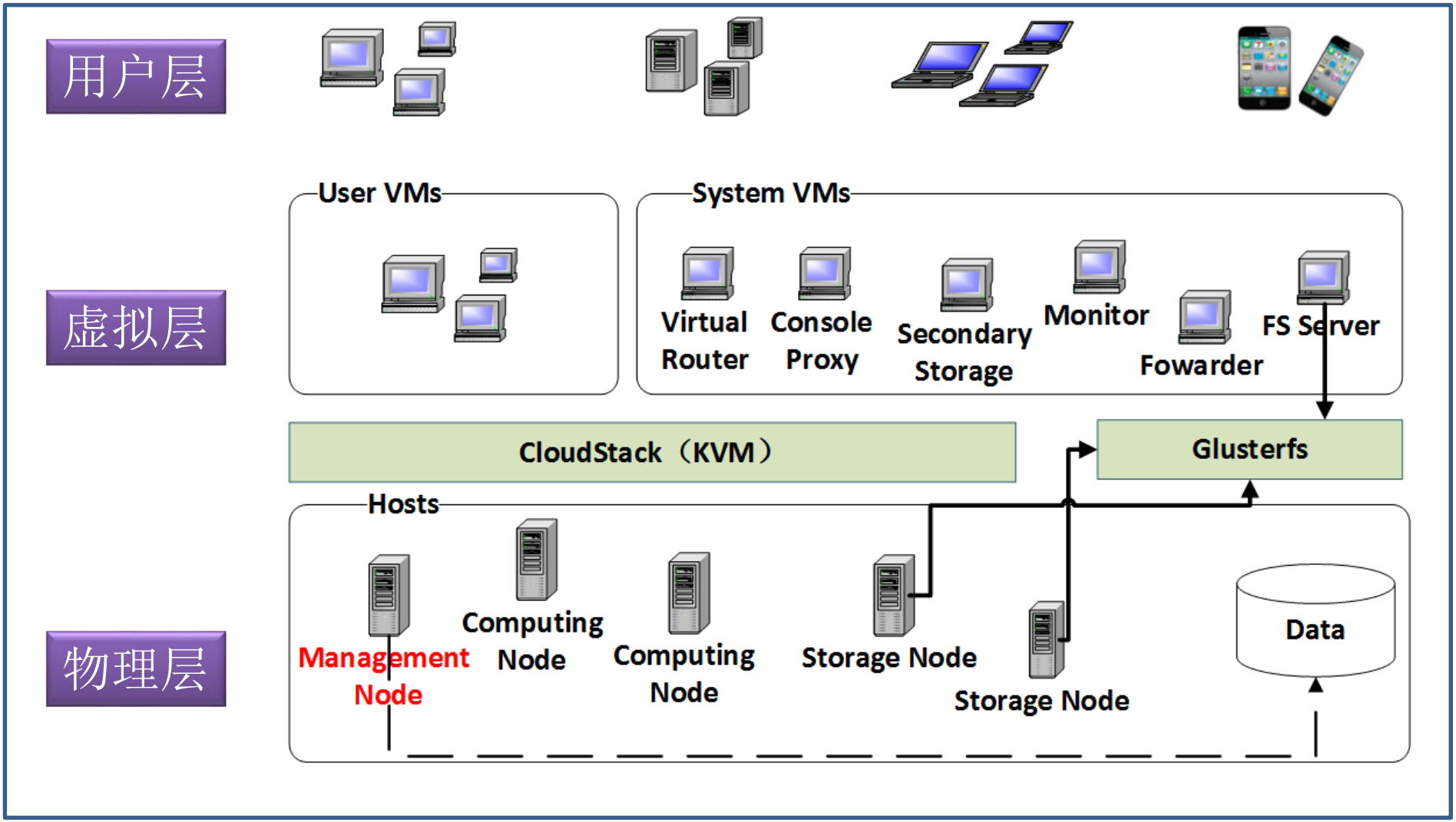
---Vospace &



Architecture

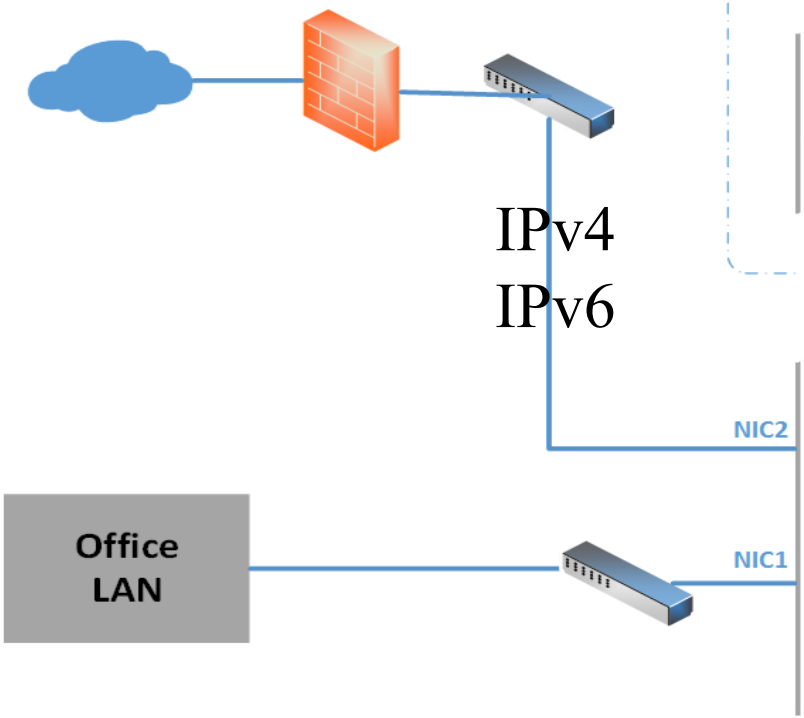


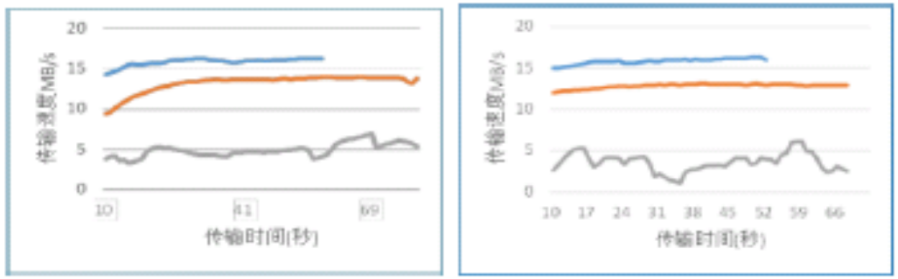
Architecture



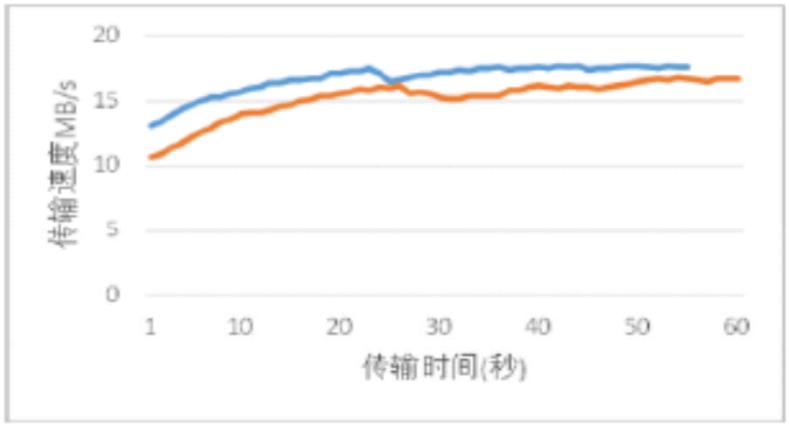
Arc

The speed in IPv6 is 50 times faster than IPv4

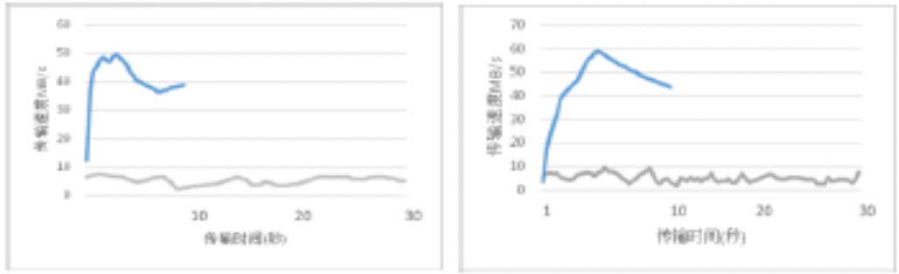




a） 在两个地域不同的云节点虚拟机上通过 SCP 下载文件的时间与速度对比图

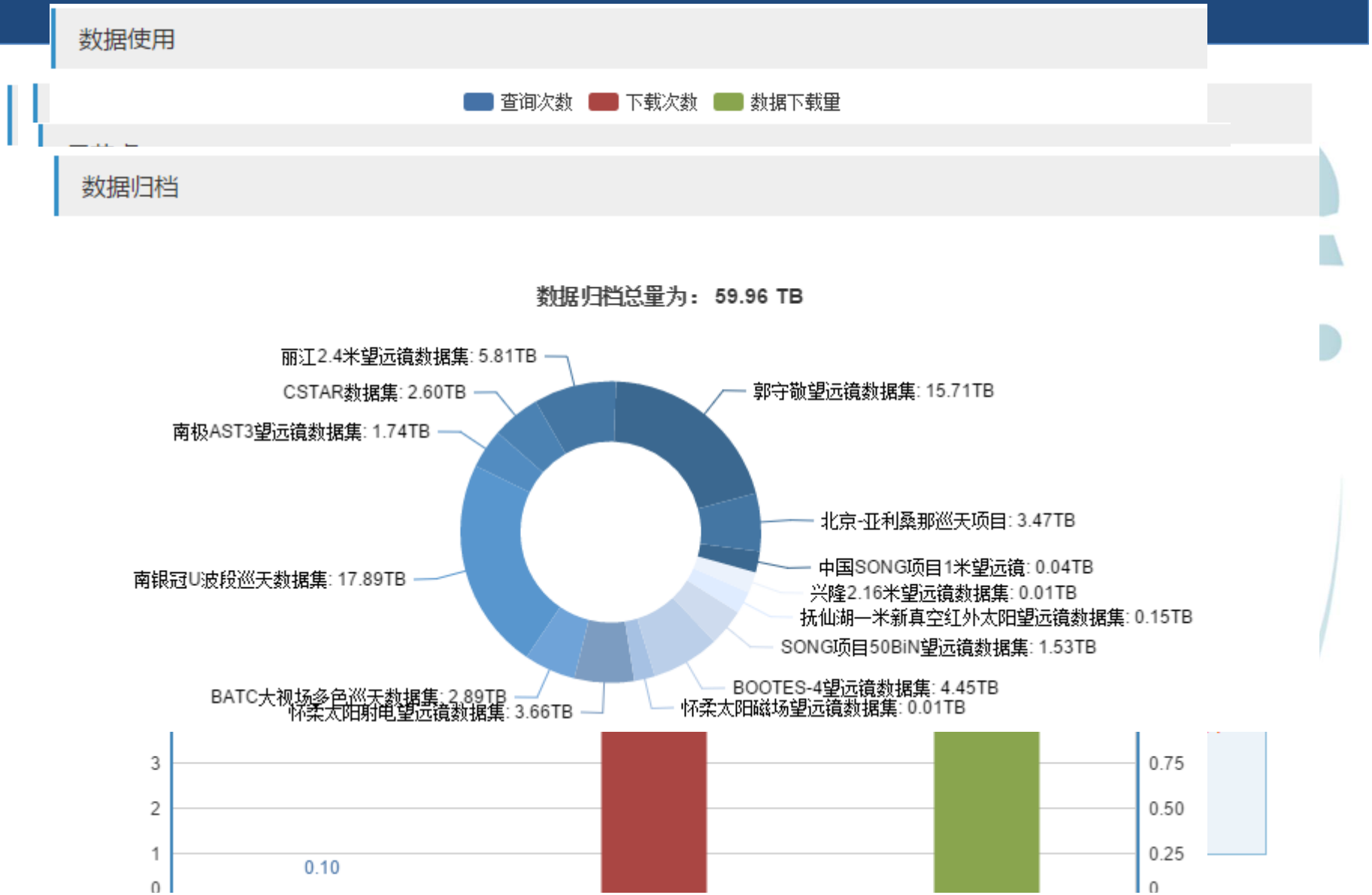


b）. 云内网虚拟机间使用 IPv4 与 IPv6 速度对比

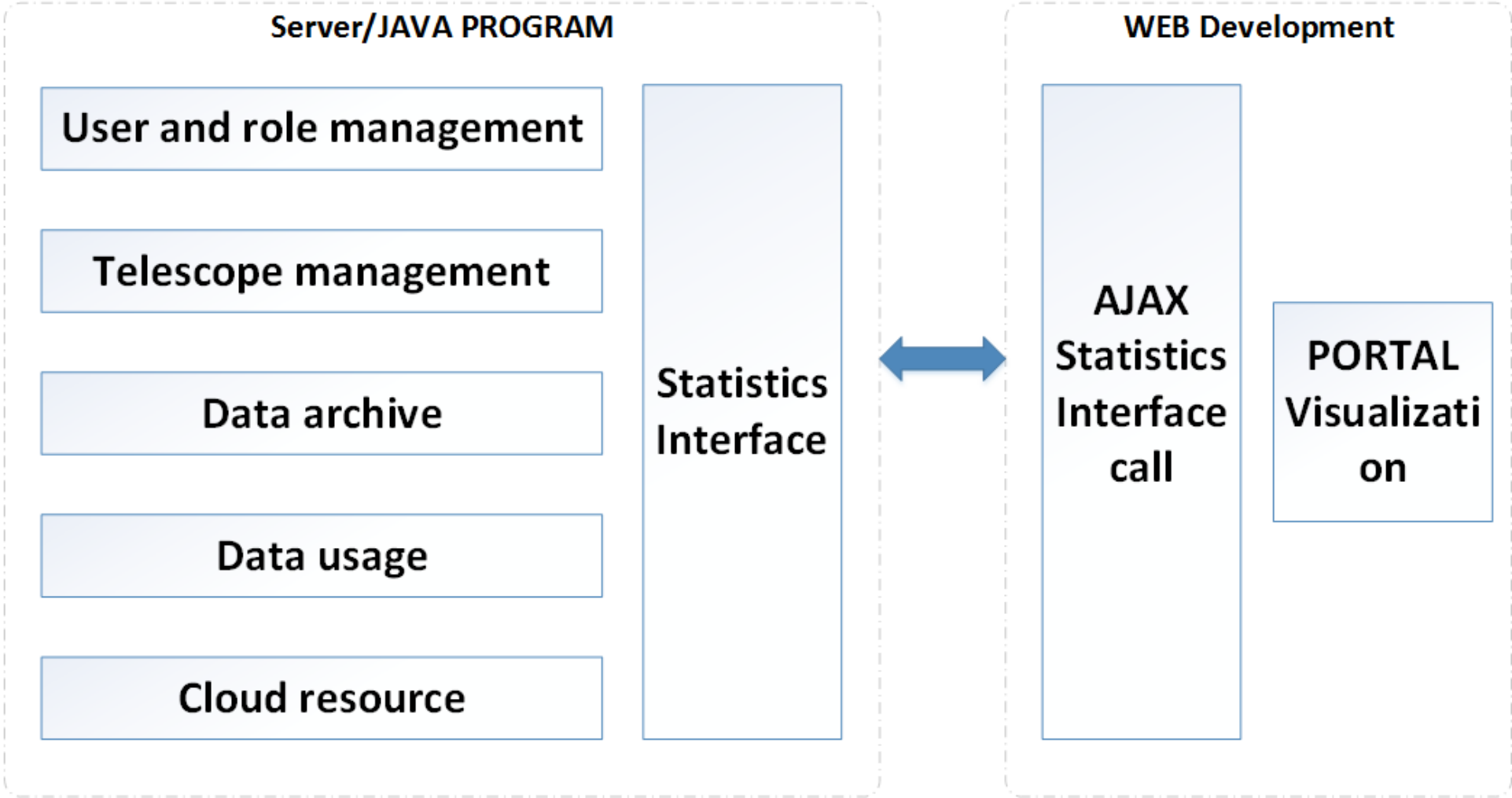


c）. 在两个地域不同的云节点虚拟机上通过 wget 下载 VOSPACE 文件的时间与速度对比图

Usage statistic data

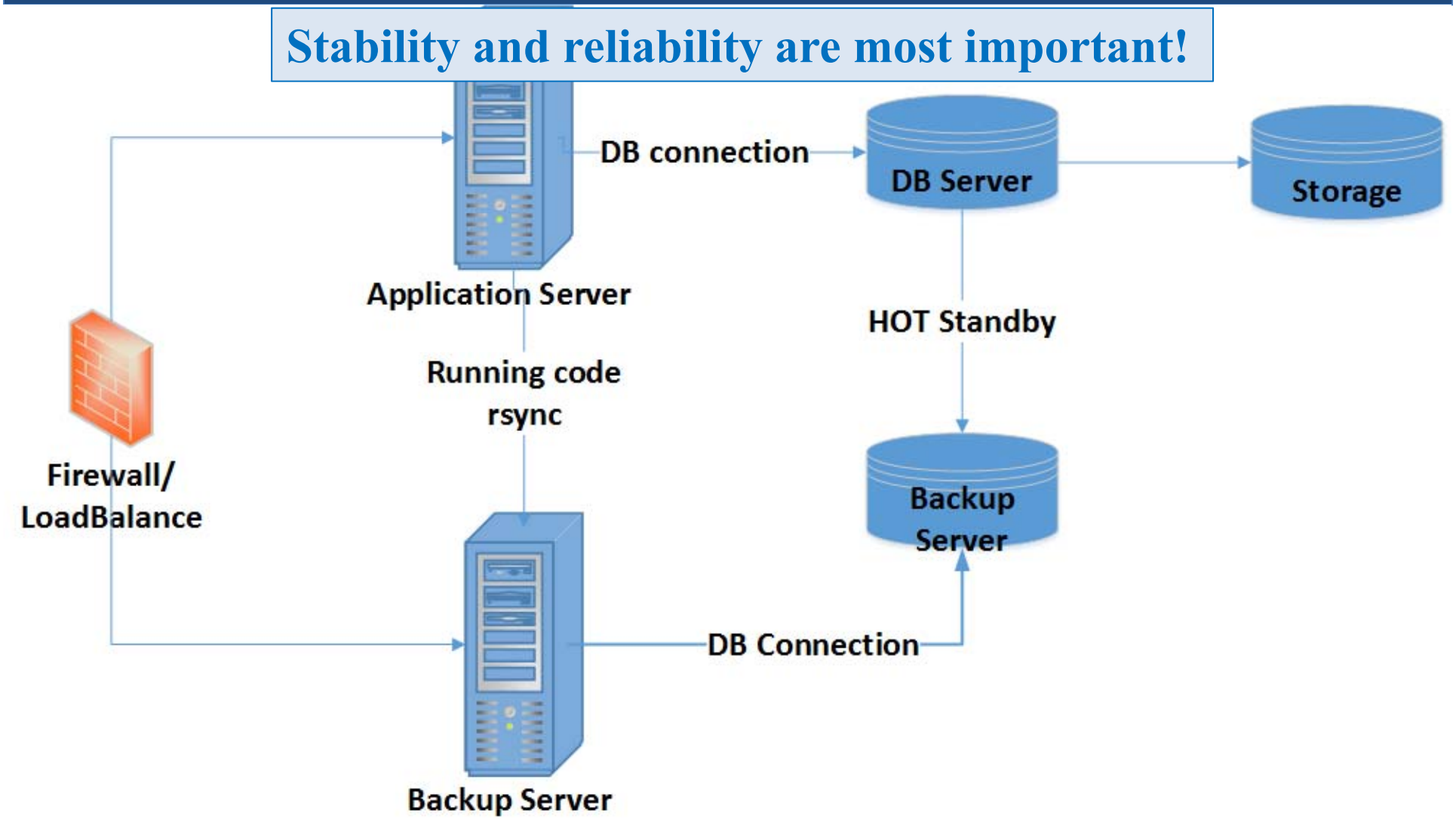


Statistical Module



Platform deployment

Stability and reliability are most important!



Platform deployment

- Application server and DB server backup in different Data Center.

- Fault Event
  - Server
    - Firewall or Load balance
  - Data Center
    - DN Resolution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如何接收报警
当前网站
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信息卡
WEB服务器：nginx
WEB应用：暂无
DNS服务商：万网
CDN服务商：暂无
服务器地址：159.226.170.200
安全指数
更新时间 14:04:30
安全指数
86
高危风险
0
中危风险
0
低危风险
0
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网站速度
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实时全景
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Thank You!

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