WANG, XU

Contact Information	909, Building New 7, Erqijuchanglu Dongli, Xicheng District, Beijing, China 100045

Mobile: +86 13911635527
Email: gnawux@gmail.com
Homepage: http://wangxu.me/

Summary

Backend developer at VisualOps (http://www.visualops.io a.k.a MadeiraCloud).

Formerly EBS developer at SNDA Cloud (http://www.grandcloud.cn); and developer in Big-Cloud team of China Mobile Research Institute, having nearly 6 year experiences on distributed storage systems such as Hadoop HDFS.

Having been using and maintaining Linux systems for more than 10 years; Developing with C/C++, Scala/Akka, Java, Python, Perl, and Skillful in Unix utilities such as sed.

Technical Blogger, Writer, and Translator on Linux system, NoSQL and Hadoop, etc. Translator of O'Reilly's *Cassandra: The Definitive Guide*.

Current Occupation

Backend Developer in VisualOps

Backend Developer (June 2013 – present), currently being responsible for the development and operation of some backend modules:

- *OpsBackend*: Scala/Akka based daemon; communicate with agents on users' instances via Websocket, track state execution, and update recipes when user changed recipe, resource changed, or triggered by API.
- *ResourceDiff*: Scala/Akka based daemon; work with cloud API, discover cloud resources, generate json model of users' VPC/network, and detect changes outside VisualOps.

Past Projects and Experience

EBS of SNDA GrandCloud

Senior Researcher (Software Development) (May 2011 – May 2013), being responsible for the development and operation of EBS (Elastic Block Store) Product. The service was opened to public for testing in late July 2011, and began offering commercial service in Oct 2011. We has been keeping upgrade the stability and performance continuously.

- Jul 2012, Speech *Cassandra: Technical and Historical Overview* in QClub hosted by InfoQ:
  http://www.slideshare.net/gnawux/cassandratechnicalandhistory overview
- Oct 2011, Hosted the Cloud Computing Track in *QCon Hangzhou 2011*, Hangzhou, China

Hadoop Related Work

Researcher and *Project Manager* (July 2007 – May 2011) on Cloud Computing in *China Mobile Research Insititute*, being responsible of *Hadoop HDFS* related development and maintenance, and communicate with upstream community, includes evaluation and testing, bug fix, and feature development (Apache JIRA ID gnawux):

- 2010 – 2011, Feature of DataNode volume refreshment HDFS-1362;
- 2008, Fixed a critical bug of Hadoop 0.18, which may lead to replica mistaken deleting: HADOOP-4742;
- Aprial 2008 – May 2011, Maintaining the CMRI distribution of Hadoop, including NameNodes synchronization patches:
  http://github.com/gnawux/hadoop-cmri/

- 2008 – 2009, Maintaining the CMRI Hadoop stress testing tool (Python/Java):
    http://code.google.com/p/hadoop-test/
- September 2010, Present in Hadoop in China (HIC 2010), introduced Hadoop related developments in China Mobile Research Institute:
    http://wangxu.me/cloud/2010/09/05/cmri-hadoop/
- November 2009, Present on Apache Roadshow Asia 2009 (Nov, 2009), introduced Hadoop HDFS development in CMRI.

Cloud Storage, Linux & Open Source related

- *Linux Cluster Management*, Since 2010, Having been responsible for system management of the cloud cluster of China Mobile Research Institute, including the configuration maintenance, optimization of virtualization system and Hadoop platform;
- *Cloud Storage*, Since 2010, as Project Manager and Architect, Having been responsible of Cloud Storage Project of China Mobile Research Institute;
- Organizer and Topic Contributor of LinuxFB: Monthly Salon of Linuxer in BUPT.
- LaTeX Template for Thesis of BUPT, including code, examples, and manual.

Technical Writer and Translater

- *Translation*: *Cassandra: The Definitive Guide*, ISBN: 978-7-115-25854-0, Published in Aug 2011;
- *Book*: *Life in Debian*, ISBN: 978-7-115-19466-4, Published in Sep 2009.
- *Articals*: Techonology Author and Translater on Linux kernel, Filesystem, NoSQL, etc., Articles posted to Personal Web Site (http://wanxu.me/) and Magazines.

Training Lecturer   2005 – 2007
Staff training or certification training on Linux and UMTS/TD-SCDMA Core Networks, Services, and Air interfaces, for operators and vendors, in Beijing, Guangdong, Wuhan, etc.

Software Developer   2002 - 2003
Having been responsible for development of wireless field test system, etc.

EDUCATION

Beijing University of Posts and Telecommunications (BUPT)

Ph.D., Circuits and Systems, 2002.09 — 2007.07

Beijing University of Technology

B.S., Electronic Engineering, 1998.09 — 2002.07

REFERENCES

Part of Articles

Hadoop related technical writing (http://wangxu.me/tags.html#hadoop-ref)

- How to Decomission DataNodes in HDFS:
    http://labs.chinamobile.com/mblog/225_18378
- dfs.datanode.max.xcievers: An Undocumented Parameter of Hadoop:
    http://labs.chinamobile.com/mblog/225_18094

Other articles on scripts, frameworks, etc.

- Stack Context of tornado (python web framework by facebook/friendfeed):
    http://wangxu.me/scripts/2013/02/22/tornado-stack-context
- Update on tornado-memcache:
    http://wangxu.me/scripts/2013/03/07/tornado-memcache
- Words on expect: http://wangxu.me/scripts/2012/12/06/expect

- Process sub of Bash:
  http://wangxu.me/scripts/2012/07/25/Bash-Process-Sub
- Introduction on ZeroMQ:
  http://wangxu.me/works/2012/06/25/ZeroMQ-intro

Part of Translations

NoSQL, Hadoop, related translations:

- ZooKeeper Watches:
  http://wangxu.me/translation/2011/06/06/zookeeper-watches
- Cassandra by Example:
  http://wangxu.me/translation/2010/05/27/cassandra-examples
- Observers: Making ZooKeeper Scale Even Further:
  http://wangxu.me/translation/2009/12/21/zookeeper-observers
- Avro: a New Format for Data Interchange:
  http://wangxu.me/translation/2009/11/03/avro-format

Linux kernel, graphics and other software related translations:

- LWN: Flushing out the pdflush:
  http://wangxu.me/translation/2012/02/09/Flushing-out-pdflush
- LWN: Improving ext4: bigalloc, inline data, and metadata checksums:
  http://wangxu.me/translation/2012/02/03/ext4
- LWN: A tale of two SCSI targets:
  http://wangxu.me/translation/2011/11/17/scsi-targets
- LWN: The Fun of Null Pointers (1):
  http://wangxu.me/translation/2009/09/03/null-pointers-1

Note: All the original articles are from Internet, and announced the info about original articles; and most articles, including those from LWN, cloudera has asked the authorization of original publishers