**ASHOK RAJA R**Bangalore, India

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**Summary**

* Over 8+ years of industry expertise in **capacity planning, performance tuning, trouble shooting, debugging, backtracking** of operating systems and applications.
* Managed operations of a multi-datacenter Linux private cloud with thousands of physical hosts and many more virtual hosts
* Playing a role of **devops** in writing code to automate the infrastructure management, software/application deployment, monitoring, reporting and benchmarking.
* Passionate about Ethical Hacking and System security. Posed a significant role w.r.t application hardening, network security using iptables and IDS/IPS.
* Infrastructure designing & planning with bleeding edge OSS to facilitate the engineers to connect and collaborate.

**Skills**

Programming Languages : BASH scripting, django, python

Performance Tool : slamd, HP Loadrunner, Gatling, funkload, multimechanize

Cloud : Hadoop hands-on

Operation System : Linux/Unix

DataBase : MySQL, MongoDB

Virtualization Platform : xen, vmware, qemu, OpenVZ

Authenticate Services : ldap, nis, kerberos

Network Services : ftp, samba, nfs, dns, dhcp, sendmail, postfix, apache, openvpn,

squid, apache traffic server

Security : iptables firewall, selinux, apparmor, mod\_security, Nessus, Nmap,

Ethercap, Metasploit, N-Stealth, Shorewall, WebInspect, SQLping2, Backtrack OS, denyhost, Snort

Monitoring Tools : nagios, zenoss zabbix, mrtg, snmp-trap, carbon, graphite

High-Availability Cluster : drbd, heartbeat

Storage Management : Hardware/Software RAID 0,1,5,10, LVM , LVM + RAID

Provisioning : Kickstart, AutoYast, OS Remastering

**Education**

RedHat Certified Engineer ( Cert No : 803005996514398 ) March 2005

**Bachelor of Science** in **Physics** from Madurai Kamaraj University College July 2002 – April 2005

Madurai, India

**Higher Secondary** from Tagore Vidyalayam Mat HSS School June 2000 – April 2002

Madurai, India

**Work Experience**

**Tech Lead - Service Engineering** Yahoo Software Development Pvt Ltd., Bangalore

[Mar 2011 – Till Date]

As the technology lead for service engineering responsible for choosing the right platform for the project and implementing it in the right way. Also responsible for capacity planning & performance engineer for high performance sites like Yahoo vertical search platform.

Active participant of yahoo internal Hack Day events.

Major Accomplishment

* **Capacity planning** for shopping.yahoo.com to serve **1000+ RPS** **<1sec query response** on peak shopping season and for Yahoo vertical search platform to serve **4000+RPS** **<100ms query response** with reduced hardware resources. Identifying the application/hardware bottle neck. Optimized tuning of application, OS & Hardware.
* Design/Write/perform Load&Performance testing which breaks the system to identify the bottle necks in the application and tune it to provide a high performance, high available service to the users
* Prototyped and implemented a zero downtime deployment architecture for a huge 1000 node document index cluster across 4 data centers.
* **Developed a bot** for clearing the stale documents stored on the index clusters
* **Developed a Index Node Recovery tool** for the Yahoo Indexing Platform as a one day Hack
* **Pursuing on a development of collaborated performance testing and recommendation tools**
* Deploying/Monitoring/Troubleshooting hadoop jobs on the grid for our feed processing system.

**Senior System Engineer(DevOps)** Yahoo Software Development Pvt Ltd., Bangalore

[Jan 2010 – Mar 2012]

As the system engineer handled development, operations, and system administrative duties to allow continuous high performance web site like shopping.yahoo.com, travel.yahoo.com & Yahoo vertical search platform. Automated deployments of application and troubleshooting on the event of issues.

Major Accomplishment

* Design and develop Load & Performance test cases for commerce properties like shopping.y.c, travel.y.c and yahoo vertical search platform
* Maintaining uptime of few hundred servers with exceptional monitoring and maintenance activity
* Alpha/Beta tester for a new cloud based home grown EC2 service. Was part of the architecture design planning team and have done significant contribution to the product.
* Deploying and migrating hundreds of systems to new application stack with zero downtime
* Reduced the internal application timeout from 15% down to less than 0.1% by identifying some configuration discrepancy on the proxy servers.
* Handling production outages and identifying the root cause by excellent troubleshooting skills.

**System Administrator** Verismo Networks Pvt. Ltd., Bangalore

[Jan 2008 – Jan 2010]

As the system administrator at verismo networks was responsible for the entire IT infrastructure maintaining the up time of services like apache/nis/samba/routers/switches. Given the opportunity was part of the Organizations Technical R&D in application hardening and Virtualization Technologies.

Major Accomplishment

* Deployed and configured a DRBD High Availability cluster for mysql & apache
* Development of VSOS/VDOS (Verismo Server/Desktop Operating System) for automated unattended installation of Verismo tailored application stack with LAMP stack tweaks
* Customized RPM package building from source for LAMP stack.
* Developed & Implementation of internal Intranet Site , customer support portal for [vunow.com](http://vunow.com/), (Customer Ticket Tracking System for vunow POD)
* Security auditing & applying patches. Application hardening using apparmor & selinux
* Server/Network/Desktop monitoring using Nagios, MRTG. SMS alerting for critical services
* LDAP/SAMBA/NFS centralized authentication and profiling
* Linux Router/Firewall configuration using shorewall & smcroute for multicast
* Implemented a VPN solution for employees traveling and working from home using OpenVPN

**System Administrator** Winways System Pvt. Ltd., MADURAI

[Jan 2006 – Jan 2008]

As the system administrator at winways systems was responsible for the entire IT infrastructure.

Major Accomplishment

* Implemented single sign on using LDAP
* Automated implementation of IPTABLE & backup using bash scripting

**Implementation Engineer/Jr System Administrator** Winways System Pvt. Ltd., MADURAI

[Jul 2005 – Dec 2005]

As a implementation engineer was part of the remote deployment and support team for the homegrown ERP suit named O2. Apart from suppporting the customers with ERP solution was also responsible for helping the team in migrating most of their client to open source alternatives like apache, mysql, openoffice etc

Major Accomplishment

* Deploying O2(ERP product) on the client servers and remote maintenance/troubleshooting
* Data backup using tar, rsync tools to external harddrives

**Technical Support Specialist/Technical Trainer** Winways System Pvt. Ltd., MADURAI

[Jan 2005 – Jun 2005]

As the technical specialist was responsible for installation/configuration/troubleshooting linux/windows desktop. Responsible for user management and regular IT infrastructure maintenance of Mail/Apache servers and routers. Also was a technical trainer for Linux RHCE certification.

Major Accomplishment

* Installation, configuration & troubleshooting Linux Server/Desktop.
* User management( creating, managing, monitoring user activity, ACL, disk quota)