

BALAJI RAJA

DevOps Engineer / Linux SME

✉: net.balajiraja@gmail.com | ☎: +91-9962022062 | 🌐: <https://balajiraja.pro>

💬 [skype.balaji](https://www.linkedin.com/in/rbalaji-pro-journey/) | [in https://www.linkedin.com/in/rbalaji-pro-journey/](https://www.linkedin.com/in/rbalaji-pro-journey/) | <https://github.com/rbgithuub/>

Aspiring for a rewarding role as a **DevOps Engineer / Linux SME** with a leading organization where my experience and technical skills are utilized to reach the highest echelons.

Experience: IT Professional with **17.3+ years of total experience**.

- ✓ 10+ yrs in Core DevOps/Cloud Role.
- ✓ 6+ yrs in Linux Operations / Application Support.
- ✓ 1.3+ yrs in Survey Programming (French Questionnaire).
- ✓ Looking forward to collaborating and work in Cloud Native environment by improving the Software Supply Chain Security and IT Operations orchestration.

Technical Skills:

- ✓ **Survey Programming:** Javascript in ConfirmIT
- ✓ **OS:** RedHat Enterprise Linux Servers, CentOS , Ubuntu , macOS , Windows Servers
- ✓ **DevOps CI/CD Pipeline:** Open Source Jenkins / CloudBees Jenkins , Declarative Pipeline Setup.
- ✓ **VCS:** Subversion , Gerrit , Git , GitHub Enterprise , Git-SVN Utility, GitLFS , Git Submodule
- ✓ **Servers:** Dell PowerEdge Server, Cisco UCS M4/M5 Servers , HP ProLiant Servers, Virtual Machines
- ✓ **Cloud:** Eucalyptus, Open Stack , AWS
- ✓ **Storage / Backup Solution:** Dell MD3000 , Dell LTO3 Tape Drive , Multi-path SAN / NAS Storage Setup for Oracle RAC Clusters , BackupPC , Symantec BackupExec.
- ✓ **Operational Orchestration:** Rundeck
- ✓ **Project Management:** Trac , JIRA
- ✓ **Router:** Cisco 2821 Series IOS 12.x
- ✓ **VoIP:** Polycom IP Phones and CentOS VoIP Solution
- ✓ **SSL Certificate:** OpenSSL, Keytool
- ✓ **Code Coverage:** SonarQube , Coverity
- ✓ **Advanced Simulation Softwares:** Xilinx ISE , Chipscope , Magma , Trace32 , Questasim.
- ✓ **End-Point Security:** Trend Micro / Scan Mail Suite

Career Achievements/Highlights:

- ✓ **IT Infra Management:** 4.3+ Yrs Startup Company Work Experience as an "Individual Contributor"
- ✓ **Interpreter:** French Language Skills in design / launch / data capture of online surveys.
- ✓ **VCS Migration Lead:** 4.3+ Yrs Architected / Migrated migration legacy systems from Gerrit, Git , SVN to GitHub Enterprise (with over 200K Commits/500GB+ data and 60+ Repositories)
- ✓ **Innovative Solutions / Process Improvement:** 20x Automation Solutions from scratch using Shell Scripting.
- ✓ **Open Source Tools/Config:** BackupPC, Squid Proxy, Agedu , Trac , Rundeck , Ansible , Kickstart / PXE Solutions for provisioning client end-points.
- ✓ **Diversified Client Business / Industries Handled:** FMCG, Market Research , Transportation, Telecom , Security, Media & Entertainment, Wireless Chipset OEM, IT Consulting / Services.

EDUCATIONAL CREDENTIALS

🎓 B. Tech (Information Technology), Pondicherry University, India - 2006

CERTIFICATIONS

- Virtualization Admin (RHEV), 2015
- Red Hat OpenStack Admin (Cloud - IaaS), 2014
- Red Hat Engineer (RHCE), 2011

- ITIL v3 Foundation, 2011
- Microsoft Certified Professional (MCP), 2005
- D'études de français certificate - 2005

EXPERIENCE

Employer	Designation	Duration
HCL Technologies Ltd.,	Technical Specialist	May-2019 – Sep-2023
Comcast India Engineering Center.,	DevOps Engineer	Apr-2016 – May-2019
Symantec Corporation.,	Principal Operations Engineer	Nov-2014 – Apr-2016
Wipro Technologies.,	Senior System Administrator	Oct-2011 – Oct-2014
MBIT Wireless Pvt Ltd.,	System Administrator	Aug-2007 – Oct -2011
TNS India Pvt. Ltd.,	Programmer	May-2006 – Aug-2007

Projects Handled:

Project Title:	Packet Core Release Engineering	May-2019 – Sep-2023
Client	Cisco Systems.,	
Role:	Technical Specialist	
Description:	Project involves managing the product development release engineering environment.	
Environment	C, Makefile, Perl, RHEL 7.9, Shell Scripting , Jenkins, Coverity, Git , Podman, CI/CD Pipeline , Build/Release Deployment, distcc, ccache	

Accountabilities:

- **3x Architected & Migrated** - Legacy VCS [Gerrit , SVN, Git] to GitHub Enterprise with no impact to 200K+ commits , 500GB+ Dependency Data , 60+ inter-dependent Repos.
- **Agedu** – Data Visualisation [of 200 TB + data of 300+ Developers across 100+ Servers] Tool Implementation which saved 100+ Hrs for Developers.
- **Passion towards problem solving - Written 100+ Knowledge articles** & How - To's on Project SOP , Change Maintenance Window and RCA's in internal wiki.
- **6x Project Work Estimation** on Milestone and Tasks Breakdown.
- **10x - Automation** of tasks using shell scripting to make other team job easier.
- **Played role as Technical Lead** for 15+ team members and Contributed **100+ Hrs of Knowledge Sharing Session** on project topics/tasks I have handled.
- **Building CI/CD Pipeline:** Migration Lead for building code workflow from scratch as part of GitHub and RHEL-7 to 8 migrations.
- **Primary point of contact** for handling over 166+ critical/blocker issues within Release Engineering Team.
- **Coverity Cluster** (Static Code Analysis Flow): Build and Integrate RHEL-8 Coverity Cluster Setup / licensing / SSL Certs / cluster sync **from scratch**.

Project Title:	Site Reliability Engineering	Apr - 2016 – May - 2019
Company:	Comcast India Engineering Center.,	
Role:	Application Support Engineer	
Description:	Working with Development Engineers to manage the applications for build, integration, deployment and monitoring in cloud environment.	
Environment	CentOS 5,6 , Rundeck, Ansible, Jenkins , Shell Scripting, Sonarqube, Openstack , Op5, Splunk.	

Accountabilities:

- ▶ **Automation of Application Deployment which is accessed by millions of customers** in AWS cloud utilizing Git, Jenkins, Ansible and Rundeck.
- ▶ **One-click operational orchestration tasks** through Rundeck such as - collecting application stats / service control / site-failover.
- ▶ **Troubleshooting and Triage of production issues** with log analytics tool splunk and finding root cause of issues with the feature of unique correlation-ids.
- ▶ **Configuration of software code coverage** tools for the developers for measuring the quality of software using SonarQube in Java, iOS.
- ▶ **Updating wiki pages in confluence** for understanding of **new technologies and fixing of issues** with cloud systems and applications.
- ▶ **Openssl, Keytool** configuration for managing the **JKS and SSL certificate** renewals.

Project Title:	DevOps Engineering, Norton Products	Nov 2014 – Apr-2016
Client:	Symantec Corporation	
Role:	Principal Operations Engineer	
Description:	Governing the Norton Consumer products development environment and performing system administration activities including installation, system monitoring, configuration, troubleshooting through automation	
Environment	CentOS 5,6 , Rundeck, Puppet, Jenkins , Shell Scripting.	

Accountabilities:

- ▶ Playing a **stellar role in DevOps, Data Center Consolidation and Public/Private Cloud** operations
- ▶ Performing **automation of OS activities using Rundeck** such as with a click of the button:
 - ▶ Automated SSL cert renewal validation for display of Validity, SAN names, Cert Chains, SHA Algorithm Type, Environment
 - ▶ Automated jstack/jmap for thread/head dump for application services.
 - ▶ Automated application level service management.
 - ▶ Troubleshooting issues with application service startup/failure.
 - ▶ Tuning of application startup-up scripts for aiding in operational automation using rundeck.
- ▶ **Norton Anti-Virus** back-end application deployment in Window/Linux environment.
- ▶ **Onsite-Support (Symantec Oregon, USA):** Automation requirements discussion of Security backend-application and infrastructure deployment using Rundeck, Puppet and Jenkins.

Project Title	R&D Capacity Cloud	Apr 2014 - Oct 2014
Client	NOKIA	
Role	Senior System Administrator (Linux and Cloud)	
Description	Assisted the R&D engineers' team in preparing private cloud infrastructure to perform development, testing, integration and product demos	
Environment	Eucalyptus Software: 3.4.2, Shell Scripting, Ansible, RHEL 5,6, Nagios, Splunk	

Accountabilities:

- ▶ **Key contributor** of Eucalyptus private cloud build team and support
- ▶ **Detected and resolved** the issues of Instance, Volume and Snapshot
- ▶ **Monitored cloud** components logs through Ansible, Nagios, and Kibana logstash.
- ▶ **Automated** the cloud components installation **using cobbler**.
- ▶ **Tuned server configuration problems** and repeated issues to **ensure smooth server functioning**.

Project Title	Data Center Operations	Oct 2011 - Mar 2014
Client	IATA	
Role	Senior System Administrator (Linux)	
Description	Responsible for managing the Linux server activities, and providing administration of Oracle RAC, Linux cluster and application cluster environment which runs critical applications for the Airline Industry	
Environment	CentOS 4,5,6/RHEL 4,5,6 , Nagios, CACTI, VERITAS Net Backup, Secure Transport (Axway Tumbleweed, MySQL, Oracle RAC, Red Hat Cluster, VMware ESX 5.0, NetApp, Shell Scripting.	

Accountabilities:

- Implemented Splunk/Syslog-ng for log data analyzing
- **Built Red Hat Clusters** with GFS2 for oracle RAC setup, SQL, and Windows
- **Involved in Red Hat Satellite Server Setup**, patching Linux servers through scripting method with rollback option.
- Managed Host/Service Groups & Host/Service escalation
- **Configured Multipath device** mapping with **SAN** storage for oracle ASM/OCR disk
- **Monitored MySQL DB shrinks for optimizing** file transfer application performance.
- **SME** of Managed File Transfer (MFT) and iiNET application which are consumed by Passenger Airlines / Cargo across the globe.
- **Onsite-Support (IATA Montreal, Canada)**: As part of business building and support improvement of client application-suite.

Project Title	4g Wireless Chipset Manufacturing	Aug 2007 - Oct 2011
Client	Samsung, Nokia, Verizon and Other OEMs	
Role	System Administrator (IT Infrastructure)	
Description	Building of IT Infrastructure in Windows Server and development environment in Linux servers	
Environment	CentOS 5/RHEL 5,Symantec Backup Exec 11d,Modelsim, Chipscope, Xilinx, Magma, Dell Modular MD3000,Dell LTO3 Tape Drive	

Accountabilities:

- **Automation using shell script** by terminating “T” state process.
- **Security Config restriction** for physical server access through MAC address.
- **Individual contributor** in managing heterogeneous Linux/Windows server, VoIP , Storage, Backup Solution.
- **Restricted outgoing calls** of employee’s Sound Point IP phones (Polycom).
- **Parallel Installation** of 30+ Developer Computing Machines with CentOS using the Kick start / PXE method.
- **Managed Dell MD3000 storage** mapping with Linux Servers
- **Implemented Squid Proxy** server by integrating with Windows AD authentication.
- **Configured open source project management tool** “Trac 0.11” for (product development) tracking bug-fixes, enhancements and new features activities using Apache 2.0, Sqlite3, mod_python
- **Advanced micro chip Softwares Setup** - Xilinx / Trace32 / Chipscope / Impact / Questasim / Minicom for debugging purpose for software/ASIC team.
- **Restriction of Internet using the time-range policy** in Cisco IOS 12.4 based on IP address, Used Clonzilla software to clone windows clients.

Project Title	Market Research (CAWI)	May 2006 - Aug 2007
Client	Consumers of FMCG	
Role	Programmer/Interpreter	
Description	TNS Global, a leading company in Market Research Industry. Project involves designing of web based questionnaire to collect insights about fast moving consumer goods &technology	
Environment	JavaScript, ConfirmIT Tool	

Accountabilities:

- **Involved in programming** CAWI (Computer Aided Web based Interview) questionnaire using market research tool called “ConfirmIT” and evaluated programming logic using Java Script.
- **Demonstrated problem resolution skills**, while working with Questionnaire designers / Researchers for changes in the logic.
- **Spearheaded TNS FRANCE CAWI**, as a **programmer and French language interpreter** for the associates working on the French Questionnaire.
- **Liable in compiling, testing and launching** the survey online.
- **Gathered insights about the responses** from the interview, to understand the survey flow, by working with Data Analyst.

Declaration:

I hereby declare that the information and facts stated above are true and correct to the best of my knowledge and belief.

Date: 30-Nov-2023

Place: Chennai, India

(Balaji Raja)