R J Karthick Raj
Project Manager- Cloud

Age: 32 years old
Email: bablaaa@gmail.com
Tel: (+91) 9600062523

Professional Profile

- Started my career in IT as Test Engineer, involving in testing of web based applications.

- 2 years of experience in QA/Testing (black box) of products on Virtualization and Cloud Computing platform.

- Currently working as a Project Manager, Managing a 4 member Development team and a 3 member tesing team.

- My assignment here is to oversee the development, testing, deployment, and support of the products based on CLOUD COMPUTING (PaaS/IaaS).

- As an additional responsibility, Helped in Design and Implemantation of AWS Infrastructure Architecture for two of our clients. I work with them to help them adopt the right services and help them scale on the platform. This was largely a customer facing role with a strong technical angle, including both hands-on and higher-level architecture. This role required deep knowledge of all aspects of Amazon Web Services and the ability to relay this to the customer.

Summary of Specialities

- Assessment of feasibility.

- Accounting for all technical and non-technical tasks, collecting realistic estimates for each.

- Work closely with Account Management, Sales professionals, Engineering, Product development & Customer Care to resolve technical issues that arise during customer trials or integration.

- Build the link between technology and business impact, with strong understanding of business processes and operations.

- Project Plan for development and deployment.

- Business requirements, Use cases, Functional specifications.

- Develop & identify Functional & Non-Functional testing methodologies, tools for IaaS cloud testing.

- IaaS Cloud Computing, Virtualization, Network & Storage virtualization.

- Experience in testing Cloud services and applications (PaaS/IaaS) and their integration with the third party apps.

- Proficient in all cycles of test life cycle from test planning to defect tracking and managing defect lifecycle.

- Good communication and interpersonal skills with strong knowledge of Web and Product Application testing on cloud platform.

- knowledge of Amazon EC2, Amazon S3, Amazon SimpleDB, Amazon RDS, Amazon Elastic Load Balancing, Amazon SQS, and other services of the AWS family.

- Linux, Mac OSX, MySQL, Python.

- SVN, Redmine, Bugzilla.

Formation

2005-2007	M.Phil in Management from Madurai Kamaraj University(DE), Madurai.
2003-2005	MLM from Madurai Kamaraj University(DE), Madurai.
2001–2003	MBA from Sourashtra College, Madurai Kamaraj University, Madurai.
1998-2001	B.sc Computer Science from The American College, Madurai.

Professional Experience

Since March 2011	Project Manager - Cloud, at K7 Computing Pvt Limited.

- Work as a functional consultant between IT and business.
- Build and maintain confidence of colleagues and customers.
- Maintain current knowledge of the entire K7 Cloud's product line.
- Worked with key stakeholders to develop priorities, define requirements, recommend solutions, construct and implement application solutions and report status for application system changes.
- Develop RACI matrix and identify gaps/overlaps.
- Understand the Business Requirement Document (BRD) which is initiated by the Product Council.
- Preparation of Functional Requirements with Product council.
- Review, analyze and evaluated business systems and user needs.
- Worked with key stakeholders to develop priorities, define requirements and report status for application system changes.
- Interfaced with business users and other IT groups for communicating user requirements, resolving application problems and implementing process improvements.
- Define Objectives for QA and UAT.
- define roles and responsibilities for all team members during each phase of the product launch process.

| Feb 2009 - Feb 2011 | QA Lead at K7 Computing Private Limited, Chennai. |

- Requirements gathering and analyzing the Requirements.
- Create Functional Test Plans and Scenarios.
- Prepared Use Cases based on the Functional Requirements prepared by product council.
- Involved in the creation of functional test cases, managing the UAT and functional testing of the UI before delivering it to the product council.

| Oct 2005 - Dec 2008 | Test Engineer at Infolink Software Solutions, Chennai/Bangalore. |

- Performed different types of testing like Functional Testing, and Smoke Testing.
- Involved in Executing Test cases for Functionality, integration and System Testing and preparation of test report.
- Reported defects found during test cycles and retest fixed in Bug Tracking System and Tracked defects using bug-tracking tool.
- Understanding the Test Plans and Involved in the preparation of test report.

| Jul 2003 - Aug 2005 | Senior Executive – Business Development at Lexicon Training Academy, Madurai. |

Projects

E-Billing Solutions, EBS, www.ebs.in

Company Profile

E-Billing Solutions or EBS (www.ebs.in) is India's second largest payment gateway. EBS is the first Indian merchant account provider to achieve the PCI DSS Level 1 Standards of Compliance.E-Billing Solutions part of Ingenico was incorporated in 2005 by young entrepreneurs who came together to offer a comprehensive and easy solution for the e-commerce industry. EBS has pioneered as an associate with multiple acquiring Banks and other entitiesto provide payment services via credit/debit cards, net-banking e-wallets, cash cards on a single platform.

Project Goals

It is very important that the web service be available at all times and also able to scale to thousands of concurrent users. Thus, High Availability and Scalability are of paramount importance to EBS. Apart from the goals of High Availability(HA) and Scalability, Disaster Recovery (DR) was also of paramount importance. So, the service had to be available even if the primary data centre went offline for any reason. Another important goal was that of security. i It was also important that the project be designed with the budgets that the client had in mind. A solution had to be designed to satisfy the requirements of the client while staying within budget.

PROJECT SOLUTION	Given that the main goals of the project are High Availability, Scalability, Disaster Recovery and PCI-CSS grade security, we arrived at the right solution. Amazon Web Services (AWS) was chosen as the solution of choice of the project. Since AWS Elastic Compute Cloud (EC2) service does not have a point of presence (POP) in India, the Singapore location was chosen as the EC2 region of choice. **High Availability (HA) :** EBS's HA goals were realised by reducing the number of single points of failures by adding sufficient redundancy in all places where possible. **Scalability :** EBS is a fast browning company that adds additional merchants everyday. This grown needs to be sustained by both vertical and horizontalscaling. **Disaster Recovery :** Since thousands of merchants depend on EBS for their online transactions to take place, it is very important that EBS continue to operate even if they are down from their primary data centre in India. We went with creating a near replica of the existing setup of the primary DC in India. It is a standard 3-tier architecture based web service. At any point offailure, service can switch from India to Singapore just by switching the DNS records. **Security :** Since EBS's has to be compliant with the PCI-DSS standards, security is of paramount importance, so, Amazon's VPC was used to implement a near private cloud setup and Critical services were running in a private subnet.
CLOUD TECHNOLOGIES USED	EC2, VPC, Security Groups, Elastic Block Storage, S3, Elastic IPs, Cloud Front, Route 53, Cloud Watch, SES
MerchantRMS, Inc, MerchantRMS www.merchantrms.com	
COMPANY PROFILE	MerchantRMS (www.merchantrms.com) is a Risk Management System (RMS) for merchants who are involved in e-commerce. MerchantRMS is one of the leading companies in the world to provide Risk Management for credit card and debit card transactions in Card Not Present (CNP) transactions. With clients all over the world. MerchantRMS is a Software-as-a-Service (SaaS) model based company headquartered in Canada.
PROJECT GOALS	High Availability and Scalability were one of the main goals we were trying to achieve for this project. Reason being that MerchantRMS is a SaaS model provider and thousands of merchants depend on MerchantRMS to fight credit fraud, which is a constant threat. Disaster Recovery is also an important goal of this project, apart from the goals of High Availability(HA) and Scalability. The goal was that the service had to be running at all times nomatter from which Availability Zone it was working from. It was very important for MerchantRMS to start small, budget-wise.

PROJECT SOLUTIONS	Given that the main goals of the project are High Availability, Scalability, Disaster Recovery and PCI-CSS grade security, we arrived at the right solution. Amazon Web Services (AWS) was chosen as the solution of choice of the project. Since AWS Elastic Compute Cloud (EC2) service does not have a point of presence (POP) in India, the Singapore location was chosen as the EC2 region of choice.

High Availability (HA) :
Redundancies were introduced wherever possible, while single points of failure were reduced.

Scalability :
Their infrastructure had to be architected in such a way that it scales vertically and horizontally very easy with minimal downtime. We used multiple MySQL slaves for generating reports from, used multiple load balancers with round robin DNS and all static contents were moved to Amazon S3, front-ended by Amazon's CDN Cloud Front.

Disaster Recovery :
We took full advantage of AWS's Availability zones within the same region. Amazon's RDS database as a service was utilised with its multi Availability Zone capability. Replicas of the 3-tier design infrastructure were setup at each Availability Zone. At any point in time, MerchantRMS's service can switch from one Availability Zone to the other just by switching the DNS records.

Security :
Since EBS's has to be compliant with the PCI-DSS standards, security is of paramount importance. Amazon's VPC was used to implement a near private cloud setupand all servers had just one, well defined function and Strict policy on the services that each server is running.

CLOUD TECHNOLOGIES USED	EC2, VPC, Security Groups, Elastic Block Storage, S3, Elastic IPs, Cloud Front, Route 53, Cloud Watch, SES, RDS, Availability Zones.

Products

STACKIRON, IaaS, HYPERVISOR MANAGER	StackIron is a virtualization platform. StackIron provides a unified interface to manage all opensource hypervisors. A pure python implementation for which we developed our own development framework and billing solution. It comes integrated with third party billing solutions like WHMCS as well. All basic functionalities like backup, templatization, migration, SAN and local storage management work seamlessly across all hypervisors. StackIron provides fine grained user control and allows various levels of user configurations at runtime. StackIron has an optional VLAN and bonding functionality along with Basic Firewall and traffic controlling.
EGGPLUG, NAS AND CLOUD STORAGE	EggPlug (www.eggplug.com) is a physical device which lets you access your digital media across the Internet. Contents across various other Physical plugs and desktop installations are kept in sync. User selected files/folders are backed incrementally onto Amazon S3. Devices are authenticated using OAuth protocol. One could simply consider this product as a NAS and Dropbox solutions combined. EggPlug can automatically backup your most important folders to EggRack,the Cloud based, versioned backup service.

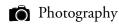|	
CYCLOZZO, PAAS	Cyclozzo is a meta cloud platform designed to support the latest PaaS APIs with minimal effort. Cyclozzo currently implements two of the most popular PaaS APIs: Google App Engine Python and Google App Engine Java. Cyclozzo continuously monitors application requests and makes sure that user applications are responsive at all times, while utilizing optimal server resources. When load goes up, Cyclozzo increases the number of application instances and also decreases them when requests come down. Cyclozzo does auto scale-out and scale-in while taking in to account the application's budget/plan.
SCALEINFRA, SCALABILITY MANAGER	ScaleInfra is yet another infrastructure management tool. ScaleInfra can deploy customer applications based on their requirements in a public/private infrastructure deployment. It uses FluidVM/AmazonEC2 for private/public deployments. ScaleInfra employs layer-based strategy to categories virtual machines (like external world visibility). Virtual machines in a layer is pre-configured to a Linux XenPV template. There is an additional option to associate shell scripts per template. Layers are configurable. Application scalability is done by increasing and decreasing the number of virtual machines participating in the application cluster.
PYLES, PYTHON FRAMEWORK	Python application development was our primary goal and there were some features, which we used on a regular basis at K7 Computing. Pyles was developed to reduce application development time. The main purpose of this framework was to provide a web interface using a web serverand database schema migration capability. Pyles supports few open-source databases like MySQL and SQLite. Other features include automatic validation based on pre-build values/range dictionary, task queue, simple calls for save, update and delete functionalities,Multiple dynamic user roles, cookie based authentication, pre and post start procedures etc.

Online Profile

LINKEDIN	in.linkedin.com/in/RJKarthickRaj

Interests & Activities

💡 Learning new technologies

📷 Photography

✈ Travel

🎧 Music