**Raghu Reddy**

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**Summary:**

* IT professional possessing both in-depth and hands-on experience; as an Infrastructure Engineer / system Engineer. Performed day-to-day roles and responsibilities of an administrator including systems installation, configuration, maintenance, monitor, backup and system protection; possesses a high-level of integrity, commitment, excellent troubleshooting and analytical skills.
* Hands on experience with Amazon AWS Cloud Administration which includes services like: EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups.
* Involved in supporting ESX cluster environments managing 400+ VM’s running Linux and Windows environments. Worked on Auto scaling, Cloud Watch (monitoring), AWS Elastic Beanstalk (app deployments), Amazon S3(storage) and Amazon EBS (persistent disk storage).
* Hands on experience with the AWS CLI and SDKs/API tools like AWS API for Puppet.
* Design high availability (HA) applications on AWS across Availability Zones and Availability Regions.
* Hands on experience with **Chef and Opswork in AWS cloud environment.**
* Configured and monitored distributed and multi-platform servers using chef. Defined Chef Server and workstation to manage and configure nodes.
* Developed Chef Cookbooks and Recipes to manage systems configuration.
* Creating Linux Virtual Machines using VMware Virtual Center (ESXI), hypervisor-v, PHP Virtual Box.
* Experience in Administration/Maintenance of source control management systems, such as Sub Version (SVN), Perforce, GIT and knowledge of Clear Case.
* Experience with patching of Linux and Solaris servers and hardening of servers using native and third party tools.
* Disk and File system management through Logical Volume Manager (LVM) on HP-UX, LINUX and Solaris Volume Manager (SVM) on Solaris.
* Worked on web servers like Apache and application servers like Web logic, Tomcat, Web sphere, JBOSS to deploy code.
* Expertise in using build tools like MAVEN and ANT for the building of deployable artifacts such as war & ear from source code.
* Extensively worked on Jenkins and Hudson by installing, configuring and maintaining for the purpose of continuous integration(CI) and for End to End automation for all build and deployments.
* Implemented Continuous Integration using **Jenkins and GIT.**
* Knowledge of networking (TCP/IP, Ethernet), NIS, DNS, NFS, DHCP, SMTP and RAID.
* Experience in scripting languages such as Shell, Perl, Python and Ruby to automate and monitor the deployment and monitoring tasks.
* Experience in running SQL running queries and also performing online, offline and cold backups for Oracle and MySQL.
* Installation, Configuration and Management of RDBMS and NoSQL tools such as MySQL, DB2, PostgreSQL, MongoDB & Cassandra.
* Experience in using tools like JIRA for ticketing.
* Application Deployments & Environment configuration using Puppet and Ansible.
* Understanding of infrastructure automation using Docker and Ansible.
* Extensive experience in UNIX performance monitoring and kernel tuning and Load balancing to ensure stable performance.
* Expertise in System performance tuning, capacity planning and Disaster Recovery planning.
* Involved in installing Nagios monitoring and Splunk services on UNIX servers.
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.
* Closely worked with Developers and Analysts to address project requirements. Able to effectively manage time and prioritize multiple projects.
* Work under SLA (Service Level Agreement) &Incident Management (Remedy) with increases productivity, scalability & performance of application.
* Excellent communicative, interpersonal, intuitive, analysis and leadership skills with ability to work efficiently in both independent and team work environments.

**Technical Skills**

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| **Operating Systems** | **Linux (Red Hat 4,5,6, CENTOS & SUSE), Solaris 10/9/8, HP-UX 11.0, 11.11, 11.23, 11.31, IBM AIX (4.3/5.x), HPUX11i V1, V2 & V3, SLES 8,9,10 & 11, Ubuntu 12/13/14, Windows NT /2000/2003.** |
| **Networking** | **TCP/IP, NIS, NFS, DNS, DHCP, Cisco Routers/Switches, WAN, SMTP, LAN, FTP/TFTP.** |
| **WEB Technologies** | **Tomcat, APACHE 2.x, 3.x, Web Logic (8/9/10) & Web Sphere 4.0/5.0** |
| **Programming**  **Lang & Databases** | **MySQL, Oracle, MSSQL, C, UNIX Shell Scripting, Perl Scripting, HTML, Perl, VB,**  **Ruby, Python.** |
| **Virtualization** | **VMware vCAC, vSphere, vCenter, vCloud, VMware ESX/ESXi.** |
| **Cloud** | **Amazon Web Services: EC2, S3, ELB, Auto scaling Servers, Glacier, Storage Lifecycle rules, Elastic Beanstalk, Cloud Front, Functional knowledge of Import/Export Snowball, Elastic Cache, RDS, Redshift, VPC, Direct Connect, Route 53, Cloud watch, Cloud trail, Opswork, IAM &Roles, SNS subscription service, Dynamo DB, SNS, SQS, S3, OpenStack.** |
| **Build Management** | **Jenkins, Maven, ANT, Anthill, Bamboo.** |
| **Configuration Management** | **Puppet, Chef, Ansible.** |
| **Monitoring and Log Management** | **Nagios, Splunk.** |

**Client: PNC Bank, Cleveland, OH Nov’14-Till Date**

**Role: Cloud/Sr. Devops Engineer**

PNC is an American [financial services](http://en.wikipedia.org/wiki/Financial_services) corporation and the fifth largest bank in the United States. PNC Bank is a financial service. They offer consumer and corporate banking services across various branches across the US. The project involved working on the Virtual Wallet application in application enhancements on various features like money bar, spending zone, calendar in order to make it more secure and user friendly.

**Responsibilities:**

* Hands on experience in Amazon Web Services (AWS) provisioning and good knowledge of AWS services like EC2, Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, Elastic Beanstalk, Cloud Front, Elastic File system, RDS, DynamoDB, DMS, VPC, Route53, Cloud Watch, Cloud Trail, Cloud Formation, IAM, EMR, Elastic Search.
* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
* Working on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost effective, fault tolerant and highly available systems.
* Configuring and Networking of Virtual Private Cloud (VPC).
* Develop Cloud Formation scripts to automate EC2 instances.
* Created Cloud Formation templates and deployed AWS resources using it.
* Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Creating Cloud Watch alerts for instances and using them in Auto-scaling launch configurations.
* Creating an AWS RDS MySQL DB cluster and connected to the database through an Amazon RDS MySQL DB Instance using the Amazon RDS Console.
* Bootstrapping instances using Chef and integrating with auto scaling.
* Manage the configurations of multiple servers using Chef.
* Written multiple recipes and also customized facts for efficient management of the Chef clients.
* Created scripts in Ruby to automate log rotation of multiple logs from web servers.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud Watch.
* Migrated applications to the AWS cloud.
* Deploying Java Enterprise applications to Apache Web Server, JBoss Application server.
* Created and managed user accounts, security, Access Control Limits (ACL), permissions, disk space and process monitoring in Red hat Linux and AIX using Nagios.
* Worked on Git and SVN for Source-code management to allow the Developers to do Code-Review and verifying the source code before submitting.
* Worked on Ant-Hill Pro and Jenkins to create Workflow, Artifacts and Deploying the code to the webservers and Docker containers.
* Implemented and Enhanced the Existing Scripts which are developed in Shell, powershell, Ruby and Python.
* Create automated build procedures to ensure code is always ready for deployment.
* On-call support bi-weekly for troubleshooting production issues and for any updates/patching.
* Documenting all the production issues and application installations in confluence page.
* Coordinated with different teams before and after the production deployments.

**Environment:** Java/J2EE, Ant, GIT, Subversion, JIRA, Jenkins, Linux, Shell scripts, Apache webserver, JBoss Application server, Docker, Chef, AWS EC2, RDS mysql, Route 53, Python, UNIX, Redhat EL v 4.x, 5.x, 6.x, 7, SUSE v9, 10.0, 11.x, Ubuntu 6.10, 9.10, OEL.

**Client: Fay Servicing, Schaumburg, IL Apr’13- Oct’14**

**Role: Cloud/Sr. DevOps Engineer**

Fay Servicing is a mortgage debt management company where Account Managers play key roles to interact with the borrowers. The system of records for all the account managers is in a centralized mainframes application maintained by third party vendor. Fay Servicing's mission is to deliver meaningful solutions by building uncommonly strong personal relationships guided by passion, professionalism and individual pride.

**Responsibilities:**

* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu/RHEL) and Configuring launched instances with respect to specific applications.
* Installed application on AWS EC2 instances and also configured the storage on S3 buckets.
* Design AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Performed S3 buckets creation, policies and also on the IAM role based polices and customizing the JSON template.
* Created monitors, alarms and notifications for EC2 hosts using Cloud watch.
* Configured S3 to host static web content.
* Managed servers on the Amazon Web Services (AWS) platform instances using Puppet, Chef Configuration management.
* Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to Chef-server, Managed On-site OS/Applications/Services/ Packages using Chef as well as AWS for EC2/S3&ELB with Chef Cookbooks.
* Create Chef Automation tools and builds, and do an overall process improvement to any manual processes.
* Written Chef Cookbooks for various DB configurations to modularize and optimize end product configuration.
* Converting production support scripts to chef recipes. And AWS server provisioning using Chef Recipes.
* Experience with Build Management tool Maven for writing build. xmls and Pom.xmls.
* Creating automated build and release environment using CI/CD Tools like Jenkins & Chef.
* Experienced in build and deployment of Java applications on to different environments such as QA, UAT and Production.
* Customized the RHEL AMI by using the tomcat and WebLogic cookbooks.
* Migrated the existing subversion repository including all history over to Git.
* Utilized Java 7.0, Oracle and MySQL DBMS, Amazon Elastic Cloud, Amazon's Elastic Map Reduce, DataStax Solr and DataStax Cassandra.
* Application virtualization using VMware ThinApp 4.5 version.
* Created S3 buckets for EC2 instances to store all the content including HTML pages, images, CSS files and Java script files.
* Enabled ELB to automatically route traffic across multiple instances and multiple Availability Zones.
* Implemented unit testing framework driven using Junit and Cucumber.
* Defined and Developed plan for Problem & Incident management Process based on ITIL. Networking protocols such as TCP/IP, Telnet, FTP, NDM, SSH, rlogin.

**Environment:** Java/J2EE, GIT, Jenkins, Puppet, Maven, Shell (bash), Apache Tomcat Application Server, MSSQL, Linux, SQL, Cassandra, Chef, Docker, AWS EC2, Redhat EL v 4.x, 5.x, 6.x, 7, Ubuntu 6.10, 9.10, OEL.

**Client: Bayer, Parsippany, NJ May’12 - Mar’13**

**Role: Devops Engineer**

Bayer is a Life Science company with a more than 150-year history and core competencies in the areas of health care and agriculture. With our innovative products, we are contributing to finding solutions to some of the major challenges of our time. The growing and increasingly aging world population requires improved medical care and an adequate supply of food. Bayer is improving people’s quality of life by preventing, alleviating and treating diseases. And we are helping to provide a reliable supply of high-quality food, feed and plant-based raw materials.

**Responsibilities:**

* Creating the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Manage Code Repository by, maintaining code repository in GIT; improve practices of branching and code merge to custom needs of development team.
* Creating the build script using the ANT as build tool, for JAVA and .NET web applications.
* Used OpenStack and AWS cloud services to launch Linux and windows machines, created security groups and written basic powershell scripts to take backups and mount network shared drives.
* Worked hands-on to create automated, containerized cloud application platforms(PAAS), and design and implement DevOps processes that use those platforms.
* Designed highly available, cost effective and fault tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance and AMIs.
* Built AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Designed roles and groups for users and resources using AWS Identity Access Management (IAM).
* Utilized Amazon Glacier for archiving data.
* Used Amazon RDS to manage, create snapshots, and automate backup of database.
* Implemented Jenkins as Continuous Integration Server, for - Installation, Configuration, Design and Administration, and integrating tools with other systems.
* Deployed the generated build to WEB and APP server using the continuous integration process to all Environments. Coordinated different teams across the globe to deploy different builds to different environments on parallel development for multiple projects. (DEV, QA, PERF, AUTH, UAT, PRODUCTION).
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub. Whenever a new github branch gets started, Jenkins automatically builds a new Docker container from it.
* Installed SONAR on Jenkins server and configure with the build process for the code analysis process for better code quality and code metrics, and rapid feedback for development teams and managers.
* Installing and administering SVN, Jenkins and Artifactory on AIX servers.
* Troubleshooting and performance tuning issues with applications like Oracle 10g, JBoss 4.x, WebLogic 10, MQSeries 6.x and the operating systems which included Solaris and RHEL.
* Experience in building customized RPM packages.
* Shell scripting to automate the regular tasks like removing core files, taking backups of important files, file transfers among servers.
* Experience in writing scripts in Ruby and Python for automation.
* Implemented and administered VMware ESX for running the Windows, Redhat Linux Servers on development and test servers.
* Used puppet Automation tool for configuration management.
* Implemented Puppet modules to automate configuration of a broad range of services
* Implemented the monitoring tools like Nagios 3.0 to monitor services like CPU, Hard Drive, Memory, Users, http, ssh etc.
* Experience Installing and configuring Splunk to gather stats on the servers.
* Used the JIRA for bug tracking, creating the dashboard for issues.
* Documenting all the processes for above, issues caused and its solutions in timely manner.

**Environment:** GIT, Jenkins, AWS, MS Build, Puppet, Weblogic, JIRA, Ant, Service Now, Sonar, Putty, EC2 instances, Auto Scaling, Elastic Load Balance and AMIs.

**Client: Ulta Beauty, Bolingbrook, IL Oct’09 - Apr’12**

**Role: Cloud/Devops Engineer**

ULTA Beauty is the largest beauty retailer in the United States and the premier beauty destination for cosmetics, fragrance, skin, hair care products and salon services. The Company offers more than 20,000 products from over 500 well-established and emerging beauty brands across all categories and price points, including ULTA Beauty's own private label.

**Responsibilities:**

* Experience on AWS cloud services like EC2, S3, RDS, ELB, and EBS for installing, configuring and troubleshooting on various Amazon images for server migration from physical into cloud.
* Involved in maintaining the user accounts (IAM), RDS, Route 53, VPC, RDB, DynamoDB, SES, SQS and SNS services in AWS cloud.
* Spun up Windows 2008, 2012 R2, RHEL 6.x, Ubuntu 11.x, Amazon Linux instances installed Apache Tomcat application with a reverse proxy and placed these instances under an Internal and External Loadbalancers.
* Written custom scripts for backing up data for more than 2 weeks into S3 bucket and for longer period of time the data was moved to RedShift.
* Used LVM on Linux to create volumes with layouts like RAID 1, 5, 10, 51.
* Managed Ansible Playbooks with Ansible roles. Used file module in Ansible playbook to copy and remove files on remote systems.
* Created inventory in Ansible for automating the continuous deployment and wrote playbooks using YAML scripting.
* Experience on Ansible as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manage changes.
* Implemented and designed AWS virtual servers by Ansible roles to ensure deployment of web applications
* Experience in Managing SAN disks like EMC and VMAX using EMC Powerpath.
* Build Automation and Build Pipeline Development using Jenkins and Maven. Set up build pipelines in Jenkins by using various plugins like Maven plugin, EC2 plugin and etc.
* Dealt with errors in pom.xml file in order to obtain appropriate builds using maven build tool.
* Setting up Jenkins master, adding the necessary plugins and adding more slaves to support scalability and agility.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub. Whenever a new github branch gets started, Jenkins automatically builds a new Docker container from it.
* Installed, configuring and administering Jenkins as Continuous Integration Server on Linux machines.
* Installed EMC Powerpath and create Storage RAID groups, LUN’s and assigning them to the servers.
* Experience in Troubleshooting and performance tuning issues with applications like Oracle 10.x, 11.x JBoss 5.x, WebLogic 11.x, 12.x.
* Experience in installing and deploying Apache, JBoss 5.x
* VMware ESX/ESXi 5.x installation, configuration and maintenance.
* On-call support for 24/7 for troubleshooting production issues.

**Environment:** GIT, Ansible, Mercurial, Jenkins, Tomcat, Apache, Oracle 11g, Python, JIRA, Maven, Nexus, Nagios, RedHat Linux, Ubuntu, CentOS, Linux, JAVA, AWS EC2, ELB, AWS SQS, AWS S3, AWS Cloud Formation Templates, AWS RDS, AWS Cloud Watch.

**Client: Mylan Laboratories Ltd., India May’08 - Sep’09**

**Role: Build and Release Engineer**

**Responsibilities:**

* Worked closely with the Development Team in the design phase and developed use case diagrams using Rational Rose.
* Worked with the Architects on SDLC process being the owner of post development environments.
* Coordinating the resources by working closely with Project Manager's for the release and Project Manager for all the Operational Projects.
* Carried Deployments and builds on various environments using continuous integration tool.
* Source code configuration tools Subversion and GIT used for different projects.
* Developed and implemented the software release management for the release of web applications.
* Wrote ANT and MAVEN Scripts to automate the build process. Configured Bamboo for doing the build in all the non-production and production environments.
* Used Shell to automate the deployment process.
* Good experienced in AWS.
* Performed Load/Functional testing using Mercury Load runner and HP QTP.
* Designed a customized Status Reporting tool used currently, based on the specific requirements using J2EE/Struts and WebSphere Application Server with DB2 as Database.
* Coordinated all the IT projects successfully by resolving release interdependencies.

**Environment:** Subversion, GIT, Bamboo, Java/J2EE, JDK, ANT, MAVEN, DB2, UNIX, AWS, Python scripting, Windows XP, Web Sphere, HP Quality Center.