**Ranjith Kumar**

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**Professional Summary**

* Over **6** **years** of in IT Industry Experience with **Informatica, AWS**, **Database Administration,** and **Linux Administrator.**
* Around 3 years of experience in **Amazon Web services**.
* Provided 24 x7 on-call supports in **debugging** and fixing issues related to **Linux** in Cloud Environment using **Amazon Web Services (AWS)**
* Experience in configuring secure **VPC** through **private** and **public networks** in AWS.
* Configured applications in **virtual private cloud** (VPC) and hardened it from malicious attacks using 2-layer protection from security groups (at instance level) and network access control lists (**NACL**, at subnet level) and using network access translator (**NAT**) instance.
* Deployed **LAMP** based applications in AWS environment, including provisioning **MYSQL-RDS** and establish connectivity between **EC2 instance** and **MySQL-RDS** via security groups.
* Configured **Elastic Load balancer** (ELB) including high availability of **ELB** using various **subnets** in various availability zones, configured security settings and health check for application.
* Provisioned **AWS S3** buckets for backup of the application and sync this contents with remaining **s3 backups**, by creating entry for **AWS S3** SYNC in crontab.
* Configured and managed **AWS Glacier**, to move old data to archives based on retention policy of databases/ applications (AWS Glacier Vaults).
* Wrote script to monitor crontab error messages and publish this to AWS**Cloud Watch** using **Python**.
* Configured **Apache** on **EC2 instances** to make sure application that was created is up and running, troubleshoot issues to meet the desired application state.
* Created customized **AMIs** based on already existing **AWS EC2** instances by using create image functionality, hence using this snapshot for disaster recovery. Created **AWS** Launch configurations based on customized **AMI** and use this launch configuration to configure auto scaling groups
* Develop cloud solutions using **IaaS** (Infrastructure as a Service) and PaaS (Platform as a Service). Collaborate with application owners, IT operations and cloud providers to translate business and functional requirements into infrastructure solutions.
* Configured auto scaling in customized **VPC**, based on elastic load balancer (ELB) traffic and using ELB health check in order to trigger auto scaling actions.
* Configured auto scaling policies to scale up/down **EC2 instances** based on **ELB health checks** and created **alarms** to be used in **auto scaling** decision making policies.
* Simulated failover by randomly deleting instances to test **Auto scaling** is working.
* Automate configuration management using **Puppet**, including setting **puppet master** and **agents**, defining and configuring nodes etc.
* Able to use **Puppet** and other configuration management tools to deploy consistent infrastructure code across multiple environment and lifecycle management of key **clusters**.
* Expertise in using build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as war & ear from source code.
* Developed **Python** and **shell scripts** for automation of the build and release process, developed Custom Scripts to monitor repositories, Server storage.
* Automated the cloud deployments using puppet and AWS Cloud Formation Templates.
* Created read replicas of **AWS-RDS-MSSQL Db** in various regions and **AZs** using backups and snapshots and scale out **AWS-RDS-MSSQL** instance to additional AZs and regions based on requirements using DB snapshots.
* Expertise in AWS **Identity and Access Management (IAM)** components, including **user**, **groups**, **roles**, **policies** and password policies and provide the same to end user.
* Created customized AWS Identity and Access Management (**IAM**) polices for various AWS resources to have required accessibility to required resources.
* Installed **Workstation**, **Bootstrapped Nodes**, wrote **recipes** and **cookbooks** and uploaded them to **Chef-server**, managed on-site OS/Application/services/packages using **Chef** as well as AWS for EC2/S3/ELB with **Chef Cookbooks**.
* Experience in Installation, Configuration, Backup, Recovery, Maintenance, Support of **Linux and Solaris,** Administration of Windows, **Red Hat Linux, Cent OS and VMware Environments.**
* Play a key role by contributing to the logical design of VPC managed user management layer for **Redshift Cluster** and various **RDS DB** engines**.**
* Implemented auditing and logging for the **Redshift** and RDS DB engine as per IAPP requirement and also prepared configuration standard documentation (SDLC) for Redshift cluster and RDS DB engines.
* Developed and implemented **MapReduce** programs for analyzing Big Data with different file formats like structured and unstructured data.
* Extensive experience in using Version control systems includes Subversion **(SVN), GIT, and Clearcase,** Deployed and configured **Git** repositories with branching, forks, tagging, and notifications. Experienced and proficient deploying and administering **GitHub.**
* **Excellent communicative**, **interpersonal and intuitive** **leadership skills** with ability to work efficiently in both independent and team work environments.

**Educational Qualification**

* Master Of Computer Applications from Osmania University, Hyderabad, India.

**Work Experience**

* Worked with **Middleware Information Technology Services Pvt. Ltd., Hyderabad** from Aug 2015 to till date
* Worked **with eAppSys Info Solutions India Pvt. Ltd., Hyderabad** from Apr 2012to Jul 2015.
* Worked With **E-Businessware Solutions India Pvt Ltd, Gurgoan** from Dec2010 to Feb2012.

**Technical skills**

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| **Cloud Services** | Amazon Web Services: EC2, S3, ELB, Auto scaling, Elastic Beanstalk, Cloud Front, Cloud Formation, Elastic Filesystem, RDS, DMS, VPC, Direct Connect, Route 53, Cloud watch, Cloud trail, IAM, SNS, Redshift, Kinesis, Lambda. |
| **Virtualization** | VMware Client3.5, VSphere Client4.0 |
| **OS** | Red hat Linux 4/5/6/7, Ubuntu, Solaris8/9/10, Unix, Windows servers [2003, 2008, 2008 R2, 2012, 2012R2], Windows 2000, XP, Windows 7 |
| **Methodologies** | SDLC, Agile, Water Fall |
| **Automation Tools** | Chef, Puppet, Ansible |
| **CI** | Jenkins |
| **Web Technology** | HTML5, CSS, JSON, Java script |
| **Build Tool** | ANT, Maven |
| **Web Servers** | Apache, Tomcat, WebSphere, Rest, Soap, Pig |
| **Atlassian Tools** | Jira, Bit bucket, Confluence, Bamboo, Sqoop |
| **Database Technologies** | Oracle, DB2, PostgreSQL, SQL Server, MySQL, Mongo DB, No SQL, Cassandra |
| **Version Control** | Subversion, Git, GitHub, Clearcase |
| **Programming language** | Java, Scala, Perl |
| **Scripting languages** | Shell, Ruby, Python, bash |
| **Network Protocols** | NIS, DNS, DHCP, NFS, SAMBA, FTP |

**Professional Experience**

**Fujistu, EMEAI Aug 2015 - Jan2018**

**Aws Cloud Engineer**

**Description:** Perform extensive work with AWS/Amazon architecture - key icons, Cloud integration, the creation of instances, and various database-related tasks. Successfully implemented storage/security for applications. Collaborated with team lead and participated in daily meetings, demos, and briefings to evaluate project specification documents and use cases. Collaborate with leaders, developers to manage IT function. Defined acceptance criteria and developed test plans. Performance management/reporting.

**Responsibilities**

* Integrated Amazon Cloud Watch with Amazon EC2 instances for monitoring the log files, store them and track metrics.
* Created AWS S3 buckets, performed folder management in each buckets, Managed cloud trail logs and objects within each buckets.
* Created Highly Available Environments using Auto-Scaling, Load Balancers, and SQS.
* Hands on Experience in AWS Cloud in various AWS Services such as RedShift, Cluster, Route53 Domain configuration.
* Create Chef Automation tools and builds, and do an overall process improvement to any manual processes
* Written Chef Cookbooks for various DB configuration to modularize and optimize end product configuration, converting production support scripts to Chef Recipes and AWS server provisioning using Chef Recipes.
* Developed and maintained the continuous integration and deployment systems using Jenkins, ANT, Maven, Nexus, Ansible and Rundeck
* Established connectivity between application and MySQL DB and tested this connectivity (by RDS-endpoints)
* Used Puppet server and workstation to manage and configure nodes, experience in writing puppet manifests to automate configuration of a board range of services.
* Defined branching, labeling, and merge strategies for all applications in Git.
* I have implemented CI pipelines on several consumer facing applications supporting Agile Projects and Ongoing Releases.
* Setting up Opscenter for the Monitoring. Monitoring review and enhancement for system, application, Docker and Cassandra.
* Performance tuning and stress-testing of NoSQL database environments in order to ensure acceptable database performance in production mode.
* Testing, evaluation and troubleshooting of different NoSQL database systems and cluster configurations to ensure high-availability in various crash scenarios.
* Configured Elastic Load Balancers with EC2 Auto Scaling groups.
* Configured S3 to host Static Web content.
* Installed and configured Bamboo Continuous Integration server on Linux.
* Experienced in S3 Versioning and lifecycle policies to and backup files and archive files in Glacier.
* Used Docker for running different programs.
* Created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Experience in Performance Tuning and Query Optimization in AWS Redshift.
* Ability to design application on AWS taking advantage of Disaster recovery.
* Versed Configuring Access for inbound and outbound traffic RDS DB services, Dynamo DB tables, EBS volumes to set alarms for notifications or automated actions.
* Configured AWS Identity Access Management (IAM) Group and users for improved login authentication.
* Lead many critical on-prem data migration to AWS cloud, assisting the performance tuning and providing successful path towards Redshift Cluster and RDS DB engines.
* Implemented Autoscaling for scaling out to ensure availability and scalability of customer website and applications.
* Following agile methodology using RTC as a supporting Tool.
* Configured complex middleware environments with several variations of tomcat installations consisting of 3-5 instances in each installation.
* As a part of Job I also had responsibility to maintain the networking form AWS cloud back to On-Primary connectivity and no direct internet access from AWS cloud VPC to the rest of the world (Internet).
* Worked with Custom AMI’s, created AMI tags and modified AMI permissions.
* Created Security Groups, configuring Inbound /Outbound rules, creating and importing Key Pairs.
* Leveraged AWS S3 service as Build Artifact repository and created release based buckets to store various modules/branch based artifact storage.
* Experience in Installation of Oracle and MySQL,MSSQLSERVER.
* Configure and ensure connection to RDS database running on MySQL engines and MSSQLServer.
* Utilized Cloud Watch service to monitor the QA/on demand instances, S3 metrics, configuring alarms for performance environments during load testing.

**Environment:** AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), Linux (RHEL 4.x,5.x and 6.1/6.6), Amazon Linux, VDI, Git version Control, VPC, AWS EC2, S3, Route53, EBS, IAM, Mongo DB, MSSQLSERVER, Lambda, Sqoop, No SQL, ELB, Cloud watch, Cloud Formation, kinesis Jira, Bamboo, AWS CLI, AWS Auto Scaling, Unix/Linux, Shell scripting, Redshift, puppet, Maven.

**AT&T, Bellevue, WA**   **Jan 2013 – Jul 2015**

**AWS Cloud Engineer**

**Description:** Worked with a team to develop the AWS infrastructure, managed and deployed data using S3 and assign the policies to the end users through IAM, enabled notification services.

**Responsibilities**

* Maintained the user accounts (IAM), RDS, Route53, VPC, RDB, Dynamo DB, SES, SQS and SNS services in AWS Cloud.
* Designed and implemented scalable, secure cloud architecture based on Amazon Web Services.
* Provide system administration support for over 150+ instances hosted in AWS Commercial cloud.
* Worked at optimized volumes and EC2 instances and created multiple VPC instances.
* Experience working with IAM in order to create new accounts, roles and groups.
* Provision Amazon Linux, Ubuntu, Red hat and Windows EC2 instances using private AMIs and baseline.
* Experience in working with migration Cassandra to Amazon EC2.
* Installing, Setup and Configuring Cassandra Datastax Enterprise Various version.
* Capacity Planning. Troubleshooting Cassandra issues. Upgraded from Datastax Enterprise Cassandra from Lower level to higher level
* Provision centos EC2 instances using private AMIs and baselines.
* Create Route 53 DNS entry for domain name resolution.
* Create and manage s3 buckets.
* Configure Virtual Private Cloud (VPC) with both public and private subnets, NAT instances, and Elastic Load Balancers.
* Create AMI’s and volume snapshots.
* Maintains the integrity and security of servers and systems, by creating and managing security groups and network ACLs to ensure controlled access to instances and subnets respectively.
* Scale up instances per customer request by changing instance type.
* Implement Auto scaling for scaling out to ensure availability and scalability of customer websites and applications.
* Decommission websites and instances per customer request.
* Create, configure and ensure connection to RDS database running on MySQLServer engines.
* Experience involving configuring S3 versioning and lifecycle policies and backup files and archive files in Glacier.
* Troubleshoot various customer technical problems and adhere to best practices.
* Implement VPC peering to ensure communication between instances in separate VPCs.
* Detach and attach volumes on EC2 instances.

**Environment:** Chef, Ruby, Shell Scripting, Subversion, AWS services, GIT, Web services, Web Logic, CentOS, API Gateway, Kinesis, TFS(Team Foundation Server), Jenkins, J2EE, Web sphere.

**VISA, Foster City, CA Aug 2011 – Nov 2012**

**AWS Linux Administrator**

**Description:** Visa is a global payments technology company working to enable consumers, businesses, banks and governments to use digital currency. The company connect consumers, businesses, banks and governments in more than 200 countries and territories worldwide.

**Responsibilities**

* Operated 50+ Amazon Linux instances for Cloud-based social media application with 100% uptime expectation.
* Implemented, supported and maintained all network, firewall, storage, load balancers, operating systems, and software in Amazon’s Elastic Compute Cloud.
* Established backup policies, wrote scripts and implemented schedule to comply with availability needs of all instances.
* Implemented monitoring and wrote monitoring scripts specific to each instance.
* Support for 3-tier Amazon Web Services cloud application including the following: Apache, Tomcat, and SQLServer DB.
* Established and maintained Elastic Beanstalk development and testing environment.
* Designed and implemented multi-level database for automated collecting and analyzing firmware issues.
* Created fully automated process for building firmware releases (shell scripting / auto-make /ant).
* Coordinated resolving all networking issues.
* Designed and implemented High Availability (HA) clusters using shared file systems.
* Created automated provisioning and update processes using integrated OS Tools.
* Configured authentication methods for Linux and Windows servers.

**Environments:** EC2, VPC, S3, Subnets, IAM, Redhat Linux 3,4, DNS, NFS, SMPT, web server apache 1.3x.

**Consolidated Networks Corporation, Fort Irwin, CA Dec 2010 – Jul 2011**

**Linux Administrator**

**Description:** Key assignment involve assessment of hardware architecture and limitations, defining and designs system specifications, evaluates input/output processes and working parameters for hardware/software compatibility. Performed all engineering of new requirements, as well as any required integration, implementation, operations and maintenance, as well as tech refresh and re-engineering in coordination with groups of developers.DCM Data system deals with system integration, networking projects and server installation.

**Responsibilities**

* Install, Configure, and distribute newly acquired equipment.
* RedHat Enterprise Linux Operating System Installation, Building Servers and administration of RHEL 4.x/5.x/6.x & SUSE 10.x. which includes testing, tuning, upgrading and loading patches, troubleshooting both physical and virtual server issues.
* Involved in Adding new disks, formatting, partitioning, disk space allocation, monitoring system performance, system tuning, server hardening and crash recovery issues.
* Provide support to Account Managers, UNIX and Windows technicians, and other departments.
* Monitored the performance of the system using ps, prstat, vmstat, mpstat, perfmeter and iostat to check the CPU utilization, bottlenecks of I/O devices, Memory usage and Network traffic.
* Support for Linux operating systems and do install at clients place as they are resellers of computers
* Install Software, troubleshoot, diagnose, and resolve hardware and software and connectivity problems in accordance with Service levels.
* Installing sendmail on Linux for their outgoing mail service while they use bulk emails.
* Supporting for domains hosting and domain registration and creation.
* Troubleshooting desktop and server problems.
* Providing quality 1st and 2nd level support to all users in accordance with National polices and technical standards and reporting to the National IT Business Systems Manager via the Technical Services Team Leader.
* Account management using Active Directory such as resetting password, unlocking accounts, creating new accounts, adding users to GP, setting up email accounts on exchange server and distribution lists etc.
* Remote installation, configuration and troubleshooting of printers, software and business applications.
* Determining and resolving networking issues such as loss of network connectivity and missing network drives.

**Environments:** Oracle Enterprise Linux OEL 5.X/6.X, Redhat 3.x, 4.x, 5.x, Windows Server 2000/2003/2008Single Sign On, Sql Server 2008,/JBOSS, LDAP, DNS, VIO, NIM, NFS, TCP/IP, SAN, NAS, Nagios 2.x, WebLogic 8.1, Oracle 9i/10g/11g Shell Scripting, F5 Load balancer, YUM, RPM, Splunk, Apache, Firewalls, LVM, LDAP, Kickstart, Puppet.