**Arun Kumar**

**Kumar.dev9885@gmail.com**

**AWS Architect/DevOps Engineer/Cloud Engineer**

**Tel: (913)265-2393** 

**PROFESSIONAL SUMMARY**

* **Around 8years** of comprehensive experience in the areas of **DevOps, AWSCloud Computing, Linux Administration.**
* Experience in **AWS** using **EC2**, AWS **Dynamo DB**, AWS **S3**, AWS **VPC**, and **IAM** services.
* Worked on Amazon Web Services for deploying **EC2** instances consisting of various flavours viz., OEL, RHEL, CentOS and Ubuntu in Linux and Windows 2008 and 2012.
* Managing Amazon instances by taking **AMIs** and performing administration and monitoring of Amazon instances using **Amazon Cloud Watch.**
* Worked on DevOps tool **Chef** in provisioning AWS machines.
* Experience setting up instances behind **Elastic Load Balancer** in AWS for high availability.
* Installed and configured an automated tool **Puppet** that included installation and configuration of Puppet master, agent nodes and an admin control workstation.
* Experience in writing modules for **Puppet** and good understanding analysing manifests.
* Installing, configuring and administering **Jenkins** CI tool on Linux machines.
* Configure several **Raid** Levels (Raid1, Raid 5, Raid 6 and Raid 10)
* Coordinate/assist developers with establishing and applying appropriate branching, labelling/naming conventions Using **GIT** and **Subversion(SVN)** source control.
* Experience with Linux systems, virtualization in a large-scale environment, experience with Linux **Containers** (LXC) and **Docker**.
* Experience in configuring **Kickstart** Servers in Red hat Linux.
* Experience using **Cobbler** for building multiple servers.
* Manage deployment, maintenance, support and upgrade of servers, hardware, software, operating systems in server environment.
* Created **Golden boot Images** for Linux servers.
* Experience on user administration using **Active Directory** on Windows and **LDAP** on Linux servers.
* Basic knowledge in web technologies such JavaScript, AngularJs, PHP, HTML, CSS and etc.
* Experience in configuring **Jumpstart** Servers for Solaris servers.
* Build and troubleshooting experience in Windows Server 2008 & 2012 with VMware ESX Server, ESXi Server and **Vcentre** 5.0/5.1.
* Knowledge on **Storage Area Network**.
* Configuring and Administering **NIS+, NFS, DNS**
* Experience on storage allocation using **Logical Volume Manager**.
* Good working knowledge of **Git Hub Repositories**.
* Experience on **Redhat Packet Management**.
* Managed VMware Infrastructure/vSphere5 **clusters** on Test/Development environments.
* Have ample experience in load balancing and monitoring with **Nagios** and **Splunk**.
* Experience with **TCP/IP networking**.
* Good scripting knowledge on **Pearl, Bash, Shell & Python**.
* Extensive experience in hosting applications over **Jenkins**.
* Excellent understanding of **Network topologies** such as LAN, WAN, VPN and Firewalls.
* Knowledge on hosting and deploying applications using **WebSphere** Application Servers.
* Good experience in networking, Operating Systems and Application level security. Also involved in design of custom protection architectures.
* Exposed to all aspects of Software Development Life Cycle (SDLC) such as Analysis, Planning, Developing, Testing and implementing and Post-production analysis of the projects.
* Excellent communicative, interpersonal, intuitive, analysis and leadership skills with ability to work efficiently in both independent and team work environment.

**TECHNICAL SKILLS**

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| --- | --- |
| **Cloud Services** | Amazon Web Services: EC2, S3, ELB, Autoscaling Servers, Glacier, Storage Lifecycle rules, Elastic Beanstalk, Cloud Front, Functional knowledge of Import/Export Snowball, ElastiCache, RDS,Redshift, VPC, Direct Connect, Route 53, Cloudwatch, Cloud trail, opswork, IAM &Roles, SNS subscription service |
| **Virtualization** | VMware ESX/ESXi server 5.5/5.0, VSphere Client, VCenter, VMware Update Manager, VMware Tools,Citrix Xen Desktop 5.5, |
| **Operating Systems** | Redhat Linux 4/5/6/7, CentOS 5/6/7, Windows servers [2003, 2008, 2008 R2, 2012, 2012R2], Windows 2000,XP,Windows 7 |
| **Build Tools** | ANT, MAVEN, Jenkins, Hudson |
| **Basic Coding Skills** | C, C#, java, Python, Shell Scripting, PHP, Bash, Ruby, Perl. |
| **Web Servers** | Apache, Tomcat, Web Sphere, JBOSS |
| **Version Control Tools** | GIT, Subversion(SVN), Perforce, Git Hub |
| **Configuration Management** | Chef, Puppet, Ansible, Docker, Gradle, Nagios |
| **Network Protocols** | TCP/IP, DHCP, VPN, FTP, SSH, WinSCP, Telnet, OSPF, EIGRP, IGRP, STP, PVSTP,RIP, RIPv2 |
| **Certifications** | **Microsoft SQL Certified, AWS Certified** |

**PROFESSIONAL WORK EXPERIENCE**

**Verizon Wireless, Alpharetta, GA Aug 14- Till date**

**AWS Architect/ DevOps Engineer**

Working as a AWS Architect/DevOps Engineer at Verizon. Focusing on deployment of cloud platforms using AWS.

**Responsibilities:**

* Build and configure a virtual data center in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including Vir**tual Private Cloud (VPC**), **Public** and **PrivateSubnets**, **SecurityGroups**, **RouteTables**, **ElasticLoadBalancer**.
* Continuously managed and improved the build infrastructure for global software development engineering teams including implementation of build scripts, continuous integration infrastructure and deployment tools.
* Leveraged **AWS** cloud services such as **EC2**, **auto**-**scaling** and **VPC** to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts.
* Manage **amazonredshift** clusters such as launching the cluster and specifying the node type as well.
* Used AWS **Beanstalk** for deploying and scaling web applications and services developed with **Java**, **PHP**, **Node.js**, **Python**, **Ruby**, and **Docker** on familiar servers such as **Apache**, and **IIS**.
* Designed **AWSCloudFormation** templates to create custom sized **VPC**, **subnets**, **NAT** to ensure successful deployment of Web applications and database templates.
* Implemented automated local user provisioning instances created in **AWS** cloud.
* Deployed REST API's that were built on top of Drop Wizard.
* Setup and build AWS infrastructure various resources, **VPCEC2**, **S3**, **IAM**, **EBS**, **SecurityGroup**, **AutoScaling**, and **RDS** in **CloudFormationJSON** templates.
* Extracted the data from **MySQL**, **Oracle**, **SQLServer** using **Sqoop** and **loadeddata** into **Cassandra**.
* Provide highly durable and available data by using **S3** data store, **versioning**, **lifecyclepolicies**, and **createAMIs** for mission critical production servers for backup.
* Maintained the user accounts (**IAM**), **RDS**, **Route53**, **VPC**, **RDB**, **DynamoDB**, **SES**, **SQS** and **SNSservices** in **AWScloud**.
* Designed and implemented scalable, secure cloud architecture based on Amazon Web Services.
* Defined **branching**, **labeling**, and **mergestrategies** for all applications in **Git**.
* Built **Continuous Integration** environment Jenkins and **Continuous delivery** environment.
* Utilized Configuration Management tool **Chef**& created **ChefCookbooks** using recipes to automate system operations.
* Used Elasticsearch as a open source search engine with a REST API.
* Build servers using AWS, **Importingvolumes**, **launchingEC2**, **RDS**, **creatingsecuritygroups**, **auto**-**scaling**, **loadbalancers** (ELBs) in the defined virtual private connection.
* Deployed applications on AWS by using **ElasticBeanstalk**
* Used **Ansibleserver** and **workstation** to **manage** and **configurenodes**.
* Configured plugins for the integration tools to the version control tools.
* Manage source code, software builds, software versioning, & defect tracking on software maintenance tasks/projects
* Used **ANT** and **MAVEN** as a build tools on **java** projects for the development of build artifacts on the source code.
* Manage **AWSEC2** instances utilizing **AutoScaling**, **ElasticLoadBalancing** and **Glacier** for our **QA** and **UAT** environments as well as infrastructure servers for **GIT** and **Chef**.
* Administered and Engineered **Jenkins** for managing weekly **Build**, **Test** and **Deploy** chain, **SVN**/**GIT** with **Dev**/**Test**/**Prod** Branching Model for weekly releases.
* Created monitors, alarms and notifications for **EC2** hosts using **Cloud Watch**.
* Migrated applications to the **AWScloud**.
* Involved in **DevOps** processes for build and deploy systems.
* Created **Pythonscripts** to totally **automateAWSservices** which includes **webservers**, **ELB**, **CloudFrontdistribution**, **database**, **EC2** and **databasesecuritygroups**, **S3bucket** and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Grasp the Technical aspects from High level to create Deployment plans, Contingency Plans and which direction to go if they hit a snag.
* Planned release schedules with agile methodology & coordinated releases with engineering & SQA for timely delivery.
* Troubleshoot the automation of Installing and configuring applications in the test environments.

**Environment:** AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), VDI, Linux, Ansible, Git version Control, VPC, AWS EC2, S3, Route53, EBS, IAM, ELB, Cloud watch, Cloud Formation, AWS CLI, AWS Auto Scaling, Maven, Nagios, Subversion, Jenkins, Unix/Linux, Shell scripting.

**Qualcomm, San Diego, CA Oct 12 - Aug14**

**AWS DevOps Engineer**

Worked as AWS DevOps Engineer at Qualcomm. Focusing on cloud technologies to support critical businesssolutions. Collaboration with infrastructure and application teams to drive the Cloud adoption, functioning as a subject matter expert, assessing application and cloud readiness, and providing directions and recommendations on cloud technologies. Designing systems and services that run on cloud platforms. Ensuring that the critical applications are designed and optimized for high availability and disaster recovery.

**Responsibilities:**

* Experience in designing and deploying **AWS** Solutions using **EC2**, **S3**, **EBS**, **ElasticLoadbalancer** (**ELB**), **autoscalinggroups**.
* Responsible for Design and architecture of different Release Environments for new projects.
* Worked at optimizing volumes and **EC2** instances and created multiple **VPC** instances.
* Writing **Maven** and **Antscripts** for application layer modules.
* Implementing new projects builds framework using **Jenkins**&**maven** as build framework tools.
* Implementing a Continuous Delivery framework using **Jenkins**, **Chef**, **Maven**&**Nexus** as tools.
* Experience involving configuring **S3** versioning and lifecycle policies to and backup files and archive files in **glacier**.
* Utilize **AmazonGlacier** for archiving data.
* Developed Scripts for AWS Orchestration
* System monitoring with **Nagios**&**Graphite**.
* Installed, configured and maintained web servers like **HTTP Web Server**, **ApacheWebServer** and **WebSphereApplicationServer** on **RedHatLinux**.
* Business data analysis using **BigData** tools like **Splunk**, **ELK**.
* Experience in **CI** and **CD** with **Jenkins**.
* Used **Puppetserver** and **workstation** to manage and configure nodes.
* Experience in writing **Puppet manifests** to automate configuration of a broad range of services.
* Prepared projects, dashboards, reports and questions for all **JIRA** related services.
* Generated scripts for effective **integration** of **JIRA** applications with other tools.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using Subversion (**SVN**) and **Git** source control.
* Configured plugins for the integration tools to the version control tools.
* Worked with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.
* Defining Release Process & Policy for projects early in **SDLC**.
* Branching and merging code lines in the **GIT** and resolved all the conflicts raised during the merges.
* Designed highly available, cost effective and fault tolerant systems using multiple **EC2instances**, **AutoScaling**, **ElasticLoadBalance** and **AMIs**.
* Highly skilled in the usage of data center automation and configuration management tool such as **Docker**.
* Perform Deployment of Release to various **QA**&**UAT** environments.
* Responsible for installation and upgrade of patches and packages on **RHEL5**/**6** using **RPM**&**YUM**.
* Supporting different projects build & Release **SCM** effort e.g. branching, tagging, merge, etc.

**Environment:**AWS, S3, EBS, Elastic Load balancer (ELB), auto scaling groups, VPC, IAM, Cloud Watch, Glacier, Jenkins, Maven, Subversion, Ant, Bash Scripts, Git, Docker, Jira, Chef, and Nexus in Linux environment. VERITAS Netback up 4.x/5.x/6.x, Solstice Disk Suite, OpenStack.

**FSV Payment Systems, Houston, TX Nov 11 – Oct 12**

**DevOps/Linux System Engineer**

**Description:** FSV is a leader in delivery of prepaid program management and processing services. FSV's processing platform is architected for extreme transaction processing. The platform scales both vertically and horizontally to meet the needs of the largest prepaid programs in the market. FSV's unique e-Payroll solution allows you to achieve your electronic payroll goals without mandating the use of pay cards. We accomplish this by clearly communicating and marketing the benefits of electronic deposit to either a bank account or a pay card.

**Responsibilities:**

* Performed AWS Cloud administration managing **EC2 instances, S3, SES and SNS services**.
* Created Buckets in **AWS** and stored files. Enabled Versioning and security for files stored.
* Implemented and maintained monitoring and alerting of production and corporate servers/costs using **Cloud Watch**.
* Designing and implementing CI (Continuous Integration) system: configuring **Jenkins servers, Jenkins nodes**,creating required scripts (**Perl & Python**), and creating/configuring VMs (Windows/Linux)
* Provisioning Jenkins environment for **continuous integration** by easing build and testing tasks for

developers.

* Configured security and system in Jenkins. Added multiple nodes to Jenkins and configured SSH for

continuous deployments.

* Configured **SSH, SMTP, Build Tools, and Source Control** repositories in Jenkins. Installed multiple plugins

to Jenkins. Configured Proxy to get auto updates.

* Server configure management via **Chef** and System orchestration via **Ansible**.
* Designing and implementing for **fully automated server build management**, monitoring and deployment usingChef.
* Maintain **Chef and Puppet servers** and management application that can use Service Now (CI) data to

bring computers into a desired state by managing files, services, or packages installed on physical or virtual

machines.

* Create **Chef Automation tools** and builds, and do an overall process improvement to any manual processes
* Worked with Puppet and Chef which is used to manage Linux but later versions support Microsoft Windows.
* Deployed various **Unix Servers** which includes Red Hat, Open SUSE and Solaris distribution and provided

administration and support.

* Good Working knowledge of creating **Virtual machines** for Red hat Linux and Solaris on VMware ESX(Hypervisor) and also administering them with Virtual Infrastructure client.
* Installed, managed **Verities Volume Manager** 3.5 (VxVM) on Solaris 9.

**Environment**: AWS, EC2, SNS, SES, Web Servers, Jenkins, Chef, Puppet, VMware, Solaris 9/10/11, Red hat Linux, Java, Maven.

**GENPACT, Hyderabad, India Oct 10– Sept 11**

**Linux Administrator**

**Responsibilities:**

* Installing and configuring of **Samba** for heterogeneous platform.
* **Installation, configuration and maintenance** of local and Network based Printers.
* Experience installing and administrating various Red hat Linux Distributions with use of **Kickstart** in order to monitor, scale, maintain and **plan capacity** of Servers.
* Experience installing and configuring **SSH** (Secure Shell) encryption in order to access securely on IBM AIX OS and Red hat Linux.
* Experience in managing and maintaining **Active Directory** on Windows Server Platform.
* Experience working with IT Security team to handle responsibility of **Firewall administration**.
* Implemented file sharing on network by configuring **NFS** on system to share essential resources.
* Responsible for Trouble shoot various systems problems such as core dump analysis, network problems and hardware related problems.
* Production support of **Apache, PHP, My SQL, Apache HTTPD** installation, configuration, management and troubleshooting.
* Experience in troubleshooting network using **net stat, neat, ping, nslookup and traceroute.**
* Creation and administration of Virtual Machines using **VMware**
* Utilized Remote Desktop on Windows to provide connectivity and support for remote users.

**Karur Vysya Bank Ltd, Hyderabad, India Jul 2008-Sept 2010**

**Linux Administrator**

**Responsibilities:**

* Install and configure **Ubuntu, Centos** on remote servers and Desktop servers.
* Working with developers to load software onto **Linux Enterprise servers** and also debugging Scripts.
* Set up and administer user and groups accounts, setting permissions for users.
* Diagnosed and resolved problems associated with **DNS, DHCP, VPN, NFS, and Apache**.
* Used **LVM** for the management of logical volumes including creation of physical volumes in Linux
* Creation and administration of **Virtual Machines** using VMware
* Utilized **Remote Desktop** on Windows to provide connectivity and support for remote users.
* OS upgrades and installation of **third party software**, packages and patches as per requirement
* Maintaining the **Linux Firewall** for network and implement to secure the network.
* Troubleshooting the network with the help of **netstat, ping, nslookup and traceroute tools**.

**Education:**

B.E in Electronics and Communication Engineering (2008) at CMR Institute of Technology, JNTU, Hyderabad, India.