**Ajay Raj Singh**

**Cloud Infrastructure Administrator, IBM [https://www.ibm.com/]**

**CONTACT**

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23/175 Sarai ka Sthan Rajodia House Kaithunipole Near police station, Kota, Rajasthan.

**EDUCATION**

* Bachelor of Technology in Computer Science Engineering
* University: Rajasthan Technical University, Rajasthan
* Institute/ College - R.N Modi Engineering College, Kota.

**MORE ABOUT ME**

* Father name: Chatrasal Singh
* Mother Name: Kalpana Singh
* Permanent Address: 23/175 Sarai ka Sthan Rajodia House Kaithunipole Near police station, Kota, Rajasthan.
* DOB: 27/07/1998
* Marital status: Unmarried
* Gender: male
* Language: English, Hindi

 

**CAREER OBJECTIVE**

With the main objective being towards satisfaction, both for myself and the company, I strive to work towards the high standards of loyalty and dedication which has been consistent throughout, thereby making work a pleasure.

Determined, energetic and diligent Professional with **3+ years** of experience in UNIX/Linux system administration and AWS Cloud services seeking an opportunity to utilize my talents in a professional capacity, employing comprehensive knowledge and vast professional experience.

**EXPERIENCE**

Technology Expertise: **AWS Cloud | Dev ops | Python | ETL /Business Intelligence | Linux**

System Implementation: Telecom OSS /BSS | Banking Security

Client: Telstra, Australia | Lloyds Banking Group London, England

Devops Tools Used: Git | Ansible | Docker | Nagios | Cloud watch

**AWS Services:**

Amazon EC2 (Elastic Compute Cloud) | Amazon RDS (Relational Database Services) |Bonus Service: Amazon Connect |Amazon S3 (Simple Storage Service) |Amazon Lambda | Amazon Cloud Front | Amazon Glacier | Amazon EBS (Elastic Block Store) |Bonus Service: Amazon Lex | Amazon VPC (Virtual Private Cloud) |Amazon Kinesis |

**Core Technology Involvement Area:**

Cloud Computing | AWS-RDS **|** VPC | Cloud Formation | Auto scaling | Load Balancer | SNS | SQS | Operating System | Linux | Jenkins | GIT | AWS Solution Architect | AWS Sysops Administrator BOM (AWS Pricing Calculator) |

**Strong Work Area Zone**: AWS Admin **|** Python **|** Dev OPS

* Currently Working with **BSS Implementation on Cloud environments** with clientTelstra, Australia

**Technical Qualification Headlines:**

Real life System Administration experience, in provisioning, operating, Monitoring and Maintaining Cloud ,Linux and Windows Based Mission critical infrastructure, Strong Knowledge of Backup and DR Strategies Understanding of highly Available, Fault Tolerant and Scalable System Architecture on AWS, Understanding of Various automation and Deployment strategies on AWS, Experience working with various AWS-Compute, Storage, Networking, and Database-Services like VPC,VPN,EC-2, RDS, ELB, ALB, SNS, SES, Cloud Watch, Auto Scaling, Cloud Front, Route53, S3, Cloud Formation, Lambda, Etc.

Technology Expertise: **AWS System admin, Unix /Linux System Admin, Devops, Python Script**

**EXPERIENCE SUMMARY:**

* Manage Amazon Web Service **- ELB, EC2, S3, RDS, SNS, Cloud Watch, Creating/Managing** AMI/Snapshots/Volumes, Upgrade/downgrade AWS resources (CPU, Memory, EBS)
* Experience in architecting secure VPC solutions on AWS with the help of network ACLs, security groups, public and private network configuration
* Setup/Managing Linux Servers on Amazon (EC2, EBS, ELB, SSL, Security Groups, RDS and IAM).
* Setup/Managing VPC, Subnets; make the connection between different zones; Blocking suspicious ip/subnet via ACL.
* Create S3 buckets and also managing policies for S3 buckets
* Experience in managing and maintaining IAM policies for organisations in AWS to define groups, create users, assign roles and define rules for role-based access to AWS resources
* Create snapshots and amazon machine images (AWS) of the instances for backup and creating clone instances
* Used JIRA to track issues and change management, Creating/Managing AMI/Snapshots/Volumes, Upgrade/downgrade AWS resources (CPU, Memory, EBS)
* Troubleshoot Nagios Alerts
* Manage systems routine backup, scheduling jobs, enabling cron jobs, enabling system logging and network logging of servers of maintenance
* Create and maintain user's accounts, profiles, security, rights disk space and process monitoring
* Provide technical support by troubleshooting day-to-day issues with various servers on different platforms
* Installed Red Hat Enterprise Linux using Kickstar and applying security policies for hardening the server based on the company policies
* Created and maintained user accounts, profiles, security, rights, disk space and process monitoring
* Excellent knowledge of service like DNS, DHCP, NFS, Send mail, Apache Web Server, Samba, SSH, Telnet, HTTP, YUM, RPM package management
* Built up Linux servers using PXE kic-start services
* Performed daily system monitoring, verified the integrity and availability of all hardware and server resource and reviewed system and application logs
* Evolited performance of system to see that they meet business needs

**TECHNICAL SKILLS:**

* Operating Systems Windows 95/98/2000/NT/XP, UNIX, Linux
* Language: Python.
* O.S: Red Hat, Cent OS, Solaris
* Scripting: Bash, Python (Basic)
* Web: Apache, Apache Tomcat, Nginx
* Automation: Ansible
* Backup: NetBackup, rsync, tar, zip
* Networking: DNS, TCP/IP, DHCP, SSH, SAMBA, LDAP
* Security: firewalld, iptables, selinux
* Monitoring: Nagios, AWS Cloudwatch
* Troubleshooting: top, free, ping, tcpdump, telnet, netstat, traceroute
* Virtualization: VWWare ESXi, KVM, Vsphere web client
* AWS: S3, IAM, Route53, VPC, SNS, ELB, cloudwatch, Auto Scaling
* Atlassian tools: JIRA

**Working Zone – Organization:**

Currently working as a **Cloud (AWS) System Operations Engineer** with IBM - [https://www.ibm.com/], Pune since October 2021 to till date.

**PROJECTS;**

**PROJECT SEQUENCE 1:**

Project Name : Cloud Network

Client: Telstra, Australia

System: - Telecom OSS, CRM, Inventory management

Roles: AWS –Cloud system Administrator

**Project Detail Description :**

Communications service providers (CSPs) are embracing cloud and virtualization as they deliver new 5G and edge computing services that drive growth and improve customer experiences. AWS Cloud Pak for Network Automation is an AI-powered AWS cloud platform that enables the automation of network operations so CSPs can transform their networks, evolve to zero-touch operations, reduce OPEX and deliver services faster.

Automating the end-to-end lifecycle management of network functions and services as CSPs evolve towards cloud-native networks is vital to simplifying operations, supporting traffic growth and growing revenues.

This solution helps user can innovate and deploy anywhere with value-added cloud services, consistent skills and unified governance.

Streamlined operations

Manage cloud operations across public, private and on-premises environments through a single pane of glass.

Developer flexibility

Build, run and move workloads across private and public clouds with preferred, common tools and platforms.

**Operation and responsibilities**

▪ Establish metrics and carefully monitor the utilization of AWS resources on a wide scale by making use of highly sophisticated Amazon Cloud Watch.

▪ Wrote python scripts to Monitor a variety of admin services

▪ Maintaining a backup of the resources and performing AWS on premise resources backup from time to time by making extensive use of AWS services.

▪ Optimize the resources & work on resource tagging to allocate costs and for carefully planning of budgeting, governance, and reporting.

▪ Involved in Commercial Cloud Services (C2S) and creates effective presentations that support C2S overviews

▪ Creating and managing VPC, URL proxies, C2S access points & as well as Bastion Hosts.

▪ To communicate with the NISP network team in order to finalize the network connections for the clients VPCs.

▪ Effectively monitor billing and develop cost optimization strategies.

▪ monitor the availability and to measure the extent of performance.

▪ Manage disaster recovery processes, Approve Images for Use as Catalog Items

▪ Set Up an AWS Catalog Offering, AWS Virtual Private Clouds (VPCs)

▪ Amazon Elastic Block Store (EBS), Cloud Formation To maintain data integrity and to access the control while using the AWS application platform

**Project Sequence 2**

Title : Cloud Native Business Support System (BSS)

Client : Telstra, Australia

Migration Tool: : AWS Migration Hub

Roles : AWS –Cloud system Administrator

**Project Detail Description:**

Monetize anything at any scale with a converged charging system (CCS) integrated with billing and TM Forum Open APIs. Ensure accurate revenue accountability for any service, experience, and business model across 2G to 5G mobile or fixed networks at all stages of the revenue lifecycle.

Multi generation offline and online charging system

Consolidate, protect, and grow revenue with a single offline and online charging system. Oracle’s CCS is compatible with any fixed or 2G to 5G mobile network for any service, payment type, and business model and is aligned with 3GPP converged charging standards.

Distributed in-memory charging grid

Powered by industry-leading in-memory data grid technology, charging is accurately processed with low latency and complete transactional consistency regardless of pricing or account model complexity.

This reliance on cloud technology, at its core, provides significant advantages:

• High levels of automation

• Agility and flexibility

• On-demand scalability

• Rapid innovation and go-to-market

• Flexible consumption models

**Operation and Responsibilities**

▪ Establish metrics and carefully monitor the utilization of AWS resources on a wide scale by making use of highly sophisticated Amazon Cloud Watch.

▪ Maintaining a backup of the resources and performing AWS on premise resources backup from time to time by making extensive use of AWS services.

▪ Optimize the resources & work on resource tagging to allocate costs and for carefully planning of budgeting, governance, and reporting.

▪ Involved in Commercial Cloud Services (C2S) and creates effective presentations that support C2S overviews

▪ Creating and managing VPC, URL proxies, C2S access points & as well as Bastion Hosts.

▪ To communicate with the NISP network team in order to finalize the network connections for the clients VPCs.

▪ Effectively monitor billing and develop cost optimization strategies.

▪ monitor the availability and to measure the extent of performance.

▪ Manage disaster recovery processes.

▪ Approve Images for Use as Catalog Items, Set Up an AWS Catalog Offering, AWS Virtual Private Clouds (VPCs), Amazon Elastic Block Store (EBS), Cloud Formation

**PROJECT SEQUENCE 3:**

Project Name: Product –as –a -Service [PAAS]

Client: Lloyds Banking Group London, England

System: Banking Security

Roles: System Administrator [Unix /cloud]

**Project Detail Description:**

This Cloud Banking Solution Will Help Financial Institutions Meet the Increasing Demands and Expectations of the Evolving Banking Consumer.

Cloud banking is a deployment and delivery model that allows banks and financial institutions to manage core banking systems and applications in the cloud while leveraging on-demand access to increased computing power and resources to deliver core banking services and financial services online which is where the term cloud banking services comes in.

Cloud banking provides the opportunity to meet growing demands and evolving consumer expectations by removing some of the technological challenges that banks face with their own infrastructure and hardware. The banking cloud also allows banks to gain immediate access to additional servers and computing power on-demand, so they can focus on instant scaling when the institution experiences things like unexpected high-volume activity.

**Operation and Responsibilities** :

▪ Installing, Tuning, Troubleshooting and patching of redhat enterprise Linux servers

▪ Installation and configuration of weblogic and WebSphere application server.

▪ Installation, Maintenance and configuration of Web Servers, Application servers, Database servers on linux servers

▪ Scheduled various regular, periodic, future and queue tasks by using crontab

▪ Monitoring server performance and troubleshooting servers related problems to SNMP

▪ Process administration and management like monitoring, start/stop kill various processes /Sub process

▪ Monitor system performance parameters using Iostat, vmstat and fine tuning

▪ Creating and maintaining user accounts, Profiles and security rights

▪ Installation upgrade, system startup, and shot down as needed

▪ Resolved system errors and crashes, disk space problems, huge file sizes and file system full errors

▪ Dealt with ESX, ESXi servers, Working experience on windows active directories and LDAP

▪ Supported 200 + AWS Cloud Instances running Ubuntu, redhat and windows environments

▪ Wrote python scripts to Monitor a variety of admin services

▪ Build Channels and pull Packages from master red hat satellite servers

▪ Ensure Data centres operation meets required service levels, Worked on KVM and VM wire.

**Declaration: -**

I hereby declare that the above-mentioned information is correct to the best of my knowledge.

Date:

Location:

Regards,

Ajay Raj Singh