SANDEEP CHAKKA

AWS Engineer

+1 214 631 9466

[CloudARCHTCT@gmail.com](mailto:CloudARCHTCT@gmail.com)

**PROFESSIONAL SUMMARY**

* Around 10+ years of IT experience in Software Configuration Management (SCM), **DevOps**, Build/Release Management, **Cloud** **Management**.
* 2 years in areas of **AWS troubleshooting, and managing of Amazon Cloud Services.**
* Worked on AWS **EC2, S3, ELB, Glacier, VPC, Route 53, CloudWatch, IAM, Cloud Front, Elastic Beanstalk, Auto scaling, RDS, DynamoDB.**
* Performed Assessment **interviews with clients** in **POC** phase to assess maturity levels of Networking, Application and Security of on-prem infrastructure.
* Knowledge implementing software throughout the **SDLC** process, deep hands-on experience of networking, migration and implementation in **AWS** platform.
* Identify and Select appropriate **AWS services/tiers based on computation**, **data and security needs**.
* To achieve **Continuous** **Delivery** goal on high scalable environment, used **Docker coupled** with load-balancing tool Nginx.
* Experience in creating **Docker** Containers leveraging existing Linux Containers and AMI's in addition to creating **Docker** Containers from scratch.
* Worked with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Utilized various IaC/DevOps tools (**Terraform**, Vagrant, **Packer**, etc.) to assist in building Convergex's AWS Cloud infrastructure.
* Deployed **microservices**, including provisioning AWS environments using **Ansible** Playbooks. Designed, Installed and Implemented **Ansible** configuration management system
* Use **Amazon RDS to manage, create snapshots, and automate backup of database**.
* Expertise in **AWS Identity** and **Access Management (IAM)** **components, including user, groups, roles, policies and password policies** and provide the same to end user.
* Establishing connectivity to **AWS Resources in another VPC** in another region using **AWS VPC Peering.**
* Created **AWS Launch configurations** based on customized **AMI** and use this launch configuration to **configure auto scaling groups.**
* **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.
* **Shell Scripting**to deliver applications on to targeted servers and also done load balancing on the servers.
* **Infrastructure** as a code using **AWS CloudFormation templates**, **Terraform**.
* Involved in configuring and integrating the servers with different environments to automatically provisioning and cresting new machines using **CM/ Provisioning tools like Chef and Ansible**.

**TECHNICAL SKILLS**

**Cloud Computing (AWS):**

IAM &Roles, EC2, S3, ELB, Auto scaling, Glacier, Elastic Beanstalk, Cloud Front, Elastic Cache, RDS, Aurora, RedShift, VPC, Direct Connect, Route 53, CloudWatch, CloudTrail, Ops work, SNS subscription service, Dynamo DB, SQS, S3

|  |  |
| --- | --- |
| **Languages** | Java, Ruby, SQL, PL/SQL |
| **Web Technologies** | SOAP, REST, XML, XSD, JSON, HTML |
| **Frameworks** | Spring (MVC, IOP, Batch, AOP, DI), Hibernate, Struts |
| **Application Servers** | Apache Tomcat, Web sphere, JBoss IDE Eclipse, NetBeans, RAD 7.0 |
| **Version Control** | GIT, Bit Bucket |
| **Design Methodologies** | Agile, RUP, UML |
| **Operating Systems** | RHEL 6/7, Ubuntu ,Amazon Linux |

**CERTIFICATIONS**

* **AWS Certified SysOps Administrator**
* **AWS Certified Solutions Architect**
* **AWS Certified Developer**

**EDUCATION**

* Master’s in Computer Science, University of Central Missouri, Kansas City, MO, USA.

**PROFESSIONAL EXPERIENCE**

**Client: Citizens Bank, Rhode Island** Nov 2018 – Till date

**Role: AWS Engineer**

**Responsibilities:**

* Created the required **AMIs** and guided the DevOps personnel in building and running servers.
* Worked with APT team and **Security** team in resolving issues related to security.
* End to end **deployment** ownership for projects on Amazon AWS. This includes **Python** scripting for **automation**, scalability, build promotions for staging to production etc.
* Developed strategy to **migrate** Dev/Test/Production from an enterprise VMware infrastructure to the IaaS Amazon Web Services (**AWS**) Cloud environment including runbook processes and procedures.
* Implement and support new and existing customers on Microsoft Azure infrastructure and Microsoft **IaaS**.
* Created CloudFormation templates of the infrastructure in AWS using JSON/YAML.
* Written Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* Provide subject matter expertise on architecture, authentication and system security.
* Architect, design, implement, support, and evaluate security-focused tools and services.
* Work extensively with AWS technologies that support automation using CloudFormation to create **EC2 instances, ELBs, Route 53 DNS, Auto scaling, Elastic Search, VPCs, Subnets, Security Groups, Cloud Watch, S3, IAM**, etc.
* Understanding of secure-cloud configuration, **CloudTrail**, cloud-security technologies (VPC, Security Groups, etc.) and cloud-permission systems (**IAM**).
* Created the entire VPC cloud including **ACLs, Subnets, Route Tables, Internet Gateway** and **NAT Gateway** using a generic CloudFormation Templates which can be reused.
* Narrowed down to things that need to be decoupled and replaced from the application in order to move to Cloud.
* Add project users to the AWS account with **Multifactor authentication** enabled and least privilege permissions.
* Hands on experience with **IAM** to set up user roles with corresponding user and group policies using **JSON**.
* Consulted with DevOps to implement **Continuous** **Integration** and automation practices.
* Facilitated meetings to discuss the **pre-migration efforts** and gain approval by all respective parties.
* Insured compliance with migration procedure handbook regarding troubleshooting, data migrations to S3 buckets, configuring **VPC** **network** configurations, and setting up e**lastic load balancing**.
* Expert in performance monitoring tools like **AWS Cloud Watch** and Stack driver.
* Worked on setting up **Jenkins** server and integrated with Git, Maven, **JIRA** and Email Servers.
* Designed Delivery pipeline in Jenkins based on different Environments like Dev, SIT, UAT and Production.
* Understanding of secure-cloud configuration, **CloudTrail**, cloud-security technologies (**VPC**, **Security Groups**, etc.) and cloud-permission systems (**IAM**).
* Add project users to the AWS account with **Multifactor** **Authentication** enabled and least privilege permissions.
* **Environment: Jenkins**, EC2, VPC, **CloudFormation**, **IAM**, Cloud Watch, **Elastic** **Beanstalk**, Linux.

**Client: Cloud Technology Partners, Boston, MA** JULY’ 2017 – Oct’ 2018

**Role: AWS Architect**

**Responsibilities:**

* Created the required **AMIs** and guided the DevOps personnel in building and running servers.
* Worked with APT team and **Security** team in resolving issues related to security.
* End to end **deployment** ownership for projects on Amazon AWS. This includes **Python** scripting for **automation**, scalability, build promotions for staging to production etc.
* Developed strategy to **migrate** Dev/Test/Production from an enterprise VMware infrastructure to the IaaS Amazon Web Services (**AWS**) Cloud environment including runbook processes and procedures.
* Implement and support new and existing customers on Microsoft Azure infrastructure and Microsoft **IaaS**.
* Created CloudFormation templates of the infrastructure in AWS using JSON/YAML.
* Written Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* Provide subject matter expertise on architecture, authentication and system security.
* Architect, design, implement, support, and evaluate security-focused tools and services.
* Work extensively with AWS technologies that support automation using CloudFormation to create **EC2 instances, ELBs, Route 53 DNS, Auto scaling, Elastic Search, VPCs, Subnets, Security Groups, Cloud Watch, S3, IAM**, etc.
* Understanding of secure-cloud configuration, **CloudTrail**, cloud-security technologies (VPC, Security Groups, etc.) and cloud-permission systems (**IAM**).
* Created the entire VPC cloud including **ACLs, Subnets, Route Tables, Internet Gateway** and **NAT Gateway** using a generic CloudFormation Templates which can be reused.
* Narrowed down to things that need to be decoupled and replaced from the application in order to move to Cloud.
* Add project users to the AWS account with **Multifactor authentication** enabled and least privilege permissions.
* Hands on experience with **IAM** to set up user roles with corresponding user and group policies using **JSON**.
* Consulted with DevOps to implement **Continuous** **Integration** and automation practices.
* Facilitated meetings to discuss the **pre-migration efforts** and gain approval by all respective parties.
* Insured compliance with migration procedure handbook regarding troubleshooting, data migrations to S3 buckets, configuring **VPC** **network** configurations, and setting up e**lastic load balancing**.
* Expert in performance monitoring tools like **AWS Cloud Watch** and Stack driver.
* Worked on setting up **Jenkins** server and integrated with Git, Maven, **JIRA** and Email Servers.
* Designed Delivery pipeline in Jenkins based on different Environments like Dev, SIT, UAT and Production.
* Understanding of secure-cloud configuration, **CloudTrail**, cloud-security technologies (**VPC**, **Security Groups**, etc.) and cloud-permission systems (**IAM**).
* Add project users to the AWS account with **Multifactor** **Authentication** enabled and least privilege permissions.

**Environment: Jenkins**, EC2, VPC, **CloudFormation**, **IAM**, Cloud Watch, **Elastic** **Beanstalk**, Linux.

**Client: Caterpillar Inc., PEORIA, IL** OCT’ 2016 – JUNE’2017

**Role: AWS Ops Engineer**

**Responsibilities:**

* Evaluating performance of **EC2** instances their CPU, Memory Usage, IOPS, Network Usages and suggest appropriate instance type for the same.
* Deployed applications using **Docker** containers in the cloud with **PaaS**.
* Working on AWS Elastic load balancing for deploying applications in high availability.
* Working on AWS **Auto Scaling** for providing **high availability** of applications and EC2 instances based on the load of applications by using **Cloud Watch** in AWS.
* Working on providing DNS management using **AWS Route 53**.
* Configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier.
* Configured **Elastic Load Balancers** (ELB) with EC2 Auto Scaling groups.
* Created **triggers**, **alarms** and notifications for EC2 hosts using **CloudWatch**.
* Implemented AWS solutions using **S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances**.
* Worked on **CloudFormation** to write the templates on AWS.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Chef, and custom Ruby/Bash scripts.

**Environment:** Red Hat Linux 5/6, KVM, AWS (Amazon web Services), Chef

**Client: IBM/Visa Inc., Dallas TX** JUNE’ 2013 – JULY’2015

**Role: DevOps Practice Engineer**

**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.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, **Chef**, and custom **Ruby**/**Bash** **scripts**.
* Implemented automation tools such as **Chef**.
* Developed **automation** framework for **Application** **Deployments** to the cloud environments.
* Managed and optimize the **Continuous** **Delivery** tools like **Jenkins**.
* Extensively used SVN and **GIT** as **Version** **Control** tools to manage Source Code.
* Developed and implemented **Software** **Release** **Management** strategies for various applications according to the Agile process.
* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in Jenkins to move from one other environment.
* Optimized volumes and EC2 instances using AWS.
* **Branching**, **Tagging**, Release Activities on Version Control Tools: SVN, GIT.
* Developed Custom Scripts to monitor repositories and Server storage.
* Member of the Technical Design team, Build and Release Module for Development of new products.
* Performed the automation using **Chef** **Configuration** **Management** and managing the infrastructure environment with **Chef**.
* Performed and deployed Builds for various Environments like **QA**, Integration, **UAT** and **Production** Environments.
* Setup and configured **KVM** on Red hat and Xen on **SUSE** and installed guest OS on **KVM** and Xen.
* Involved in all projects that move to production and work closely with the **Data** **Center**, Development, **Quality** **Assurance** and Management teams to ensure cross communication and confirmed approval of all production changes.
* Installed and Configured **WebSphere** **Application** server with **LDAP** **security**.

**Environment:** AWS, SVN, GIT, ANT, Maven, Chef, Jenkins, WebSphere, Red hat LDAP, Python, KVM, Ruby, Perl, Shell, PowerShell.

**Client: Estee Lauder /IBM, Hyd India** JAN’ 2012 – MAY’ 2013

**Role: Release Engineer/ Linux Admin**

**Responsibilities:**

* Installation and administration of **RHEL** 4.0/5.0 and **SUSE** 10.x.
* Configured **kickstart** server and updating/applying **patches** to the **servers** using Red Hat **Satellite** **server**.
* Remote system administration using tools like **SSH**, **Telnet**, and **Rlogin**.
* **Planning** and implementing system upgrades including hardware, operating system and periodical **patch** upgrades.
* Automation of jobs through **crontab** and **AutoSys**.
* Installation of **packages**, patch management, volume management on **SUSE** servers using **YaST**.
* Applied appropriate support packages/patches to maintain system integrity.
* Performed capacity analysis, monitored and controlled disk space usage on systems.
* Provided **CM** and **Build** support for more than 3 different applications, built and deployed to the production and lower environment.
* Defined and Implemented **CM** and **Release** **Management** Processes, Policies and Procedures.
* Implemented, maintained and supported reliable, timely and reproducible builds for project teams.
* Used **Maven** **dependency** **management** system to deploy snapshot and release **artifacts** to Nexus to share **artifacts** across projects.

**Environment:** Ant, **Jenkins**, Linux, Solaris, Python, Shell Scripting, WebSphere, Oracle

**Client: Ericsson AB/IBM, Hyd India** MAY’ 2009 – DEC’ 2011

**Role: Linux Administrator**

**Responsibilities:**

* Installation and administration of **RHEL** 4.0/5.0 and SUSE 10.x.
* Set up and configuring of Linux (**Red Hat& SUSE**) and Solaris servers/workstations for clients.
* Configuring the **NFS** servers, setting up servers in network environment and configuring **FTP/NTP/NIS Servers**, clients for various departments and clients.
* Experience working with high availability, high performance, multi-data center systems and hybrid cloud environments.
* Handling the scheduling tasks (**cron** **jobs** and **task** **scheduler**) for the scripts for various purposes.
* Troubleshoot complex issues ranging from system resources to application stack traces.
* Daily execution of build ops in an automated and continuous process.
* **Compiling** code to move into test environments via automated processes.
* Installation, configuration and administration of Linux (**Red Hat/SUSE**, **Centos**).
* Configuring network services such as **DNS/NFS/NIS/NTP** for **UNIX**/**Linux** Servers.
* Improve speed, efficiency and scalability of the continuous integration environment.
* Knowledge of **Linux/Windows** based systems including hardware, software and applications.
* Creating a change requests, work orders and problem tickets using **BMC Remedy** tool and getting approvals from process owners.
* Experience in development with PowerShell or other scripting languages.
* **On-call support for 24/7** for troubleshooting **production** issues.

**Environment:** Linux (Red Hat Enterprise, Solaris Cent OS), **Windows 2000/NT**, HP, IBM, Oracle 8, SSH Gate, **Cisco** routers/switches, NIS, NFS, Perl.

-References upon request