**SANDEEP SAINNI**

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**SUMMARY:**

5+ years of experience in Cloud-DevOps role, implementing Cloud Engineer strategy and DevOps experience in Windows and Linux Environment.

**PROFESSIONAL SUMMARY:**

- DevOps and Cloud Engineer with several years of IT experience and with Emphasis in DevOps Methodologies and focused on Automation of Build/Deployment/Environment Management areas byimplementing CI / CD pipelines to help teams deliver a better, reliable and certified software into lowerlevel and Production environments.
- Experience with an in-depth level of understanding in the strategy and practical implementation of AWS Cloud-Specific technologies including EC2, EBS, S3, VPC, RDS, ELB, ECS, Cloud Front, Cloud Formation, and SNS.
- Designed, configured and managed public/private cloud infrastructures utilizing Amazon Web Services.
- Work experience in creating Azure infrastructure as per client requirements.
- Good experience and understanding of Networks and networking concepts - CIDR, VNets, Subnets, NSGs (Network Security Groups).
- Hands on experience to deploy resource by Terraform.
- Hands on experience with Azure and strong understanding of Azure capabilities and limitations,primarily in the IaaS Space.
- Monitoring system Performance of Virtual memory, Managing Swap space, Disk utilization and CPUutilization and performance.
- Good experience working with IaaS services like VMs (Virtual Machines), VMSS, LoadBalancers,Availability zones, Availability sets.
- Azure Infra and the subscription details and as well as Resource group info - Prod, Dev, StageWorkingwith a variety of Azure Resource Like:
    1.IaaS (Compute, Storage & Networking)
      2.PaaS (Web App, Function App, Recovery Vault, CDN, Application Gate way, key Vault)
- Administrator and Architect of Cloud platforms (AWS).
- Created load balancers in auto scaling group for creating highly available environment.
- Creating snapshots and Amazon machine images (AMIs) of the instances for backup and creating cloneinstances.
- Performed configuration, deployment and support of cloud services including Amazon Web Services(AWS).
- Experienced in designing and establishing the connectivity between VPCs of same region (VPCPeering), design VPC tunneling between VPCs in different regions.
- Experience in version control and source code management tools like GIT.
- Experience in using configuration management tools like Terraform.
- Accelerated system Build and test deployments using Docker technologies by creating multiple lightweight instances of applications.

- Utilized the Docker infrastructure in Ubuntu for bringing up and managing application containers spawning across multiple deployment environments.
- Experience with container-based deployments using Docker, working with Docker images, DockerHub, Docker registries.
- Worked on Linux Package installation using RPM and YUM, provisioned system with LVM.
- Experience on Terraform as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manage changes.
- Expertise in designing and implementing Computer layer, like Amazon Machine Image (AMI) Design and customization, Automation Scripts.
- Experienced in designing and implementing auto scaling across all the environments (Dev, Production, Testing) using the golden images.
- Expertise in designing and Implement databases in the infrastructure using RDS resulting high availability, best IOPS. Leverage automated backups feature of RDS to enable point in time recovery.
- Expertise in Working on Data Encryption (Client-Side and Server-Side) and Key management securing data at rest and in transit for data in S3, EBS, RDS using KMS.
- Familiar to build scripts using MAVEN build tool in Jenkins to move from one environment to other environments.
- Worked on DevOps tools like Git, Maven, SonarQube, Jfrog artifactory, Jenkins, Docker, Ansible (YAML) Shell Scripting, NGINX, Kubernetes, JIRA and Service now ticketing tools.
- Hands on experience with Azure and strong understanding of Azure capabilities and limitations, primarily in the IaaS Space.

**EDUCATION**:

Bachelor of Technology– Electrical and Electronics Engineering in JNTU-H in 2014.

**CERTIFICATION:**

AWS Certified SysOps Administrator – Associate.

**SKILLS:**

- **Programming/Scripting Languages** : Terraform, Ansible, Bash
- **Cloud Technologies** : AWS, Azure on Iaas and Paas
- **CI/CD tools** : Git, Gitlab, Maven, Jenkins, Docker, Kubernetes
- **Artifact Repository** : Nexus, Jfrog
- **Code Quality Analysis Tool** : SonarQube
- **Web and Application Servers** : Nginx, Apache Tomcat
- **IAC tool** : Terraform
- **Configuration Management tool** : Ansible
- **Monitoring tools** : Datadog and Cloud watch, Grafana, Prometheus
- **Ticketing tool** : Service now, Jira.
- **Back up tool** : Commvault.
- **Others** : Linux and windows family.

**WORK EXPERIENCE:**

- Working as a Consultant B2 in Capgemini Technology Services India Limited, Hyderabad from March 2021 to July 2023**.**
- Worked as a System Engineer in MindTree Ltd, Hyderabad from February 2018 to March 2021.

## Project Summary:                                                    **March 2021– July 2023**
**Client:** Capgemini.

**Responsibilities: -**

- Closely working in a highly agile environment to migrate on premise applications to AWS cloud and helped them in tuning AWS resources, and Firewall configurations, load balancing, auto scale setup and application monitoring via cloud watch.
- Strong experience in version control tools like Git and Git Hub.
- Maintaining GIT repositories with trunk, creating branches, tagging etc.
- Worked on AWS provisioning and good knowledge of AWS services like AWS CLI, EC2, Elastic Load-balancers, Elastic File System, RDS, EIP, Route53, Cloud Watch, Cloud Trail, Cloud Formation, IAM, and Cloud Front/CDN, Elastic Search.
- Automated build & deployment and CI process for many projects from scratch. Wrote build files and created jobs in Jenkins.
- Configuration of nodes/slaves for Jenkins to optimize and smooth running of build jobs
- Worked on Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured on EKS.
- Provisioning Cloud infrastructure automating using Cloud Formation.
- Automating all applications configurations using Terraform.
- Monitoring AWS Infrastructure using CloudWatch.
- Experience working under Agile/scrum methodologies using leading issue tracking and agile project management tools like Service Now and Jira.
- Participating in Daily scrum ceremonies/stand-up.
- Implemented scheduled downtime for non-prod servers for optimizing AWS pricing.
- Hand-On experience in Build and Deployment of CI/CD pipelines, managing projects often includes tracking multiple deployments across multiple pipeline stages(Dev,Test/QA staging and production).
- Extensively worked with Version Control Systems GIT Lab.
- Implemented cloud services IAAS, PAAS**,** and SaaS which include Docker**.**
- Experience in Build Automation using Git, GitHub, Maven, Jenkins, Docker &Kubernetes, and AWS services which Reduces the effort of developers and operation team in performing maintenance and Operations.
- Writing Infrastructure as Code (Iac) using tool Terraform to provision Kubernetes resources.
- Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, created Pods, deployments, ConfigMaps and secrets managed using Kubernetes.
- Monitoring and logging setup for Kubernetes clusters using tools like Prometheus, Grafana.
- Good knowledge on container systems like Docker and container orchestration like EKS, Kubernetes, worked with Terraform.

**Project summary:**
**Client:** MindTree Ltd.                                 **February 2018 – March 2021**

**Responsibilities: -**

- Provide L1 Remote Administration support for Linux servers.
- Installation and Configuration of Redhat/Centos (RHEL) 5/6/7.
- Configuration of remote access utilities, providing user access control on services like Telnet and SSH.
- Scheduling of automatic, repetitive Jobs using commands like "Cron" jobs.
- Provided 24x7 support on shift rotation basis
- Configuring the private repository for accessing the packages with YUM and RPM.
- Creating and managing iptables and user accounts, groups and access levels using SUDO.
- Configuring the LVMs and adding the additional disk space as and when required
- Scheduling/Controlling of jobs using at and cron.
- Implementing ACL's & Special file permissions for security purpose and Disk Quotas for space limitations.
- Configuring the network services like FTP, SAMBA, NFS, and Autofs.
- Processes administration and Management like monitoring, start/stop/kill various processes.
- Performance monitoring using, Ps, Top, SAR, Vmstat, Iostat, Netstat and analyzing these reports to figure out any performance issues. Performing Mount and Unmounts operations on file systems
- Install, configure, build and troubleshoot production servers and services.
- Provisioning Jenkins environment for continuous integration by doing build and testing tasks for developers.
- Performed and deployed Builds for various Environments like QA, Integration, UAT and Productions Environments.
- Automated custom metric services for database server, web-server, application-server, networks, file sizes, RAM utilization, Disk performances using in Terraform.
- Strong experience in Linux Administration, Installation, Upgrading Patches.