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**Sekhar**

**Summary:**

* Having 17 years of experience developing the skills to increase velocity, reliability, and quality with a high focus on security, scaling new heights of success and leaving a mark of excellence in DevOps, Microservices, Cloud Computing, and databases.
* Demonstrated experience transforming IT infrastructure and moving an organization towards a mature cloud-based (AWS/Azure) service delivery model.
* Expertise in implementing, configuring, securing, load balancing, and administrating scalable AWS and Azure cloud environments.
* Designed and implemented Infrastructure as Code (IaC) solutions using Terraform and Terragrunt to automate the provisioning and management of Azure and AWS cloud resources, improving deployment consistency and scalability.
* Possess deep experiencedesigning and implementing fully automated Continuous Integration, Continuous Deployment (CI/CD) pipelines, and DevOps processes for agile projects using Jenkins and Azure DevOps.
* Extensively worked with version control systems like GitHub, GitLab, and Bitbucket, optimizing and automating deployment workflows to enhance operational efficiency and scalability.
* Spearheaded cloud and DevOps automation initiatives by developing robust Shell Scripting and Python solutions, significantly improving operational efficiency and reducing manual intervention.
* Proficient in leveraging Docker Hub, Docker images, Docker Compose, and Docker Registry for efficient application deployment and management.
* Demonstrated expertise in using Kubernetes to orchestrate and deploy container-based applications, with hands-on experience in managed Kubernetes services such as Azure Cloud AKS and AWS EKS.
* Expertise in configuring monitoring and alerting tools like Splunk, New Relic, Prometheus, and Grafana.
* Experienced in Blue/Green and Canary deployment strategies for deploying microservice applications onto Cloud environments.
* Designed and executed multiple cloud migration projects to migrate On-prem Oracle databases and EBS applications to the Oracle cloud(OCI).
* Experienced in Migrating AWS RDS, and DynamoDB databases from One AWS account to another.
* Planned and implemented multiple on-premises databases to AWS RDS using AWS DMS service.
* Expertise in installing and upgrading different versions of Oracle databases such as Oracle 9i, 10gR2, 11gR2,12c and 19c.
* Expertise in implementing and managing Oracle E-Business suite versions 11i and R12.

**Skills:**

|  |  |
| --- | --- |
| Cloud | AZURE/AWS |
| Database | Oracle, MySQL, AWS RDS, Cosmos DB, Dynamo DB, Postgres |
| ERP | Oracle EBS 11i & R12 |
| CI/CD | Jenkins/Azure DevOps |
| Version Controls | SVN,Git, GitLab, GitHub, Bitbucket, Azure Repos |
| Application Servers | Apache Tomcat, JBoss, Nginx, HTTP |
| IAC | Terraform, Azure ARM templates, Azure Bicep |
| Config Management | Ansible, Ansible Tower |
| Containerization | Docker |
| Orchestration | Kubernetes, EKS, AKS |
| DevOps Tools | Maven, Gradle, NuGet,SonarQube, JFrog, Helm |
| Monitoring | Cloud Watch, Azure Monitor, Prometheus,Grafana, Splunk,  New Relic,Zabbix |
| Operating Systems | Linux |
| Scripting | Shell Scripting, Python, HCL, Groovy, YAML, AWS CLI, AZURE CLI |

**Certifications:**

* Certified Kubernetes Administrator (CKA)
* AWS Solutions Architect Associate
* AZ-900 -Microsoft Azure Fundamentals
* ITIL4 certified in IT Service Management.

**Employment History and Work Experience:**

**eNcloud Services LLC (Client: Verizon)** Nov 2023 to till date.

**Principle Engineer DevOps& Platform**

Atlanta, GA

**Roles & Responsibilities:**

* Provisioned AWS resources using Terraform based on the customer requirements.
* Developed reusable terraform modulesfor AWS services like EC2, Storage, Lambda, AWS RDS, Auto-scaling, Load balancer, ECR and EKS.
* Planned and executed complex database migrationsto AWS, leveraging AWS Database Migration Service to ensure seamless transitions.
* Migrated AWS Aurora MySQL and dynamo DB from one AWS account to another using AWS DMS service.
* Successfully migrated multiple on-premises databases to AWS RDS, improving performance and reducing operational costs.
* Monitored system performance and troubleshooting issues to ensure high availability and reliability.
* Utilized AWS Database Migration Service for seamless migration with minimal downtime.
* Designed and implemented scalable Kubernetes clusters using AWS EKS, ensuring high availability and robust performance.
* Developed and implemented disaster recovery strategies using AWS Backup and AWS Disaster Recovery, minimizing downtime and data loss during critical incidents.
* Configured AWS Backup to automate the backup of AWS resources, including EC2 instances, RDS databases, DynamoDB tables, and EFS file systems.
* Configured and managed AWS EKS node groups, leveraging managed and self-managed node groups for optimized performance and cost efficiency.
* Implemented Kubernetes monitoring and logging solutions using Prometheus, Grafana, and the ELK Stack to ensure cluster health and performance.
* Ensured security and compliance of Kubernetes clusters by implementing role-based access control (RBAC), AWS IAM roles, and secrets management using AWS Secrets Manager.
* Optimized cluster autoscaling using Kubernetes Cluster Autoscaler and Horizontal Pod Autoscaler (HPA) to handle variable workloads effectively.
* Integrated AWS EKS with CI/CD pipelines (Jenkins, GitLab CI, or AWS CodePipeline) to automate application deployment and updates.
* Developed Helm charts templates tailored to specific application requirements, ensuring consistency and reliability across deployments.
* Installed and configured Postgres database for Atlassian Applications.
* Upgraded Postgres database v11.20 to v14.10 and v15 and v16.

**eNcloud Services LLC (Client: State Street)** Mar 2023 to Oct 2023.

**Platform Engineer & DevOps Lead**

Boston, MA

Leading a team of four members of platform engineering and DevOps team working on different cloud infrastructures (AWS/Azure).

**Roles & Responsibilities:**

* Provisioned different Azure cloud services not limited to Virtual Machines, Load balancing, Networking, Storage,Event Hub, SQLMI, Cosmos DB, Key vault, App Service, and VPN Gateway using Terraform and Terragrunt.
* Installed and configured HashiCorp Vault and integrated with Jenkins to manage the credentials and secrets.
* Integrated HashiCorp Vault to access the secrets in Terraform.
* Designed and implemented scalable, secure, and highly available cloud infrastructure on Azure.
* Developed and maintained CI/CD pipelines using Azure DevOps and Jenkins to automate deployment processes.
* Monitored system health and performance using Azure Monitor and set up alerts for proactive issue resolution.
* Assisted indesigning and managing of a hybrid cloud environment, integrating on-premises resources with Azure.
* Deployed a microservices-based application using Docker and Kubernetes, improving scalability and fault tolerance.
* Successfully deployed and managed Azure Kubernetes Service (AKS) clusters to support microservices-based architecture, ensuring high availability and scalability.
* Automated the provisioning and configuration of AKS clusters using Terraform and ARM templates, significantly reducing setup time and ensuring consistency across environments.
* Configured Azure Backup to protect critical data and applications, ensuring automated, scheduled backups for virtual machines, databases, and file systems.
* Developed and managed backup policies, including retention rules and frequency settings, to meet organizational data protection requirements.
* Designed and implemented disaster recovery plans using Azure Backup and Site Recovery, ensuring minimal downtime and data loss during a disaster.
* Configured monitoring and logging for the containerized environment using Prometheus and Grafana.
* Provided technical support and troubleshooting for Azure-related issues, ensuring minimal downtime.
* Reduced cloud expenses by 25% through rightsizing resources, implementing auto-scaling and negotiating reserved instances.
* DevelopedGroovy-based Jenkins pipelines and integrated Jenkins with various tools and services.
* Monitored application performance and cloud resource utilization using Azure Monitor and Grafana.
* Provided guidance and support to development teams on cloud best practices and DevOps methodologies.
* Collaborated with cross-functional teams to streamline operations and reduce deployment times by 30%.

**Fujitsu Consulting (Client: Citi Bank, USA)** Jul 2019 to Jan 2023

**DevOps Tech Lead**

India

**Roles & Responsibilities:**

* Managed projects as necessary while leading the team, along with code deployments, fixes, updates, and related processes.
* Led a successful project migrating 20+ TB of data from on-premises servers to AWS cloud, ensuring zero data loss and minimal downtime.
* Coordinated with architects and engineers of other areas to design networks, systems, and storage environments that effectively reflect business needs, security requirements, and service level requirements.
* Conducted architecture reviews and performance optimization exercises to ensure optimal utilization of Azure resources and cost-effectiveness.
* Provisioned and managed different AWS services using Terraform and Terragrunt based on customer requirements.
* Extensively worked with AWS services not limited to EC2, VPC, S3, File Storage, Load-balancing, Auto-scaling, IAM, Lambda, AWS RDS, Route 53, Cloud trail, CloudWatch, ECR and EKS.
* Configured and managed virtual networks, storage accounts, and compute resources in Azure.
* Implemented disaster recovery and backup strategies to ensure business continuity.
* Configured and managed more than fifteen CI/CD pipelines to deploy different kinds of applications running on JAVA, and .Net using Jenkins.
* Integrated Jenkins pipelines with version control systems (e.g., Git), build tools (e.g., Maven, Gradle), containerization tools (e.g., Docker), and orchestration tools (e.g., Kubernetes) using Groovy.
* Used Groovy scripts to manage environment variables, credentials, and configuration settings within Jenkins pipelines.
* Implemented Jenkins pipelines for provisioningAWS infrastructure using Terraform.
* Configured and maintained Jenkins to implement the CI/CD process and integrated with Maven and Gradle to schedule the builds and SonarQube to scan the vulnerabilities.
* Prepared Ansible playbooks to configure the remote servers.
* Used Ansible Tower to scheduledatabase dailyand weekly activities like patching and restarting the databases running on RedHat Linux servers.
* Developed Helm charts templates tailored to specific application requirements, ensuring consistency and reliability across deployments.
* Collaborated with development teams to integrate Helm charts into CI/CD pipelines, enabling seamless deployment and testing of applications on Kubernetes clusters.
* Worked with different resources of Kubernetes such as Deployments, Replica sets, volumes, resource limits, Config Maps & Secrets, and Certificates to manage the microservice environments effectively.

**Environment:** Amazon AWS, Git, Jenkins, Azure DevOps, Terraform, Ansible, Dockers, Kubernetes, Helm, ArgoCD, Python, ELK, Prometheus, Grafana, Data dog, ServiceNow.

**Fujitsu Consulting (Client: German Telecommunications Company)** May2016 to Jun 2019

**DevOps Consultant**

India

**Roles & Responsibilities:**

* Deployedapplications utilizing AWS stack Including EC2, Route53, S3, RDS, Cloud Front, Config, DNS, and IAM, focusing on high availability, fault tolerance, auto-scaling, and Cloud Watch.
* Demonstrated proficiency in Git version control through hands-on experience with GitHub branching, versioning, conflict resolution, and merging.
* Implemented branching strategies to isolate feature development, ensuring a streamlined development process and minimizing conflicts.
* Expertise in resolving Git conflicts efficiently, ensuring smooth integration of code changes, and maintaining code integrity.
* Infrastructure Patch management for all Unix servers using Ansible.
* Application monitoring configurations – setting up thePrometheus, Grafana,
* Developing and maintaining continuous integration and deployment pipelines using Jenkins, Git, Maven, JFrog, and Ansible.
* Prepared Ansible playbook scripts to configure the remote servers.
* Used Ansible Tower to scheduledaily and weekly database activities like patching and restarting the databases running on RedHat Linux servers.
* Configured and maintained Jenkins CI/CD pipelines using the declarative approach for each stage starting from build to deployment.
* Educated development teams on usingAzure Repos to store their code and automate their application build deployments using Azure DevOps pipelines.
* Experience in automation of manual tasks & processes enabling better governance and compliance using Python.
* Migrated on-prem Oracle databases to the Oracle Cloud (OCI) with accurate results.

**Environment:** Amazon AWS, Azure, Git, Jenkins, Azure DevOps, Terraform, Ansible, Dockers, Kubernetes, Prometheus, Grafana, ServiceNow,NewRelic.

**Fujitsu Consulting (Client: Advics, Zebra, CompuCom, TJ Max)** Jun 2013 to May 2016

**Solutions Architect**

India

**Roles & Responsibilities:**

* Led a twelve-member team to manage multiple customers with different versions of Oracle database and applications.
* Supported Oracle production databases in provisioning, backup/ recovery implementation, performance monitoring/tuning, release support, procedure design, review database design, compliance, and security audit.
* Upgraded Databases from Oracle 9i to 10g, Oracle 10g to11g, 12c and 19c.
* Upgraded Oracle EBS 11.5.10.2 to R12.0.4 and above versions.
* Worked with different versions of Oracle databases 9i/10g/11g, 12c and 19c.
* Designed and implemented backup strategies for Oracle databases using RMAN.
* Participated in initiatives for disaster recovery planning, and problem resolution utilizing root cause analysis.
* Managed certificates for the middleware and web applications at application level and load balancer level
* Performed platform migrations for databases and applications from Sun Solaris to RedHat Linux.
* Installed and maintained WebLogic servers for middleware applications.
* Architected and configured three-tier architecture for SOA middleware application.

**Environment:** Oracle database, Oracle E-business Suite 11i and R12, RMAN backup, Commvault, SOA, WebLogic Server Subversion (SVN), Git, TFS.

**Fujitsu America (Client: McDonald’s)** Sep 2011 to Feb 2012

**Technical Lead**

Sunnyvale, CA

**Roles & Responsibilities:**

* Installation of Oracle Application e-business suite 12.1.1 and upgrade to 12.1.3 multi-node.
* Successful migration of primary enterprise Oracle application e-business suite to 12.1.3 from 11.5.10.2.
* Involved in Upgrading of Oracle Version 10.2.0.3 & Oracle Applications 11.5.10.2 and supporting the production team.
* Migrated Oracle EBS R12 systems and other Oracle databases from Sun Solaris to Linux platforms.
* Installed and configured Oracle RAC systems with multiple nodes.
* Installed and configured Oracle databases and set up backup policies.
* Oracle http load balancer setup for multiple web servers in e-business suite for performance enhancement.

**Environment:** Oracle database, Oracle E-business Suite 11i and R12, RMAN backup, database upgrade

**Fujitsu Consulting (Client: Barclays)** Jul 2009 to Apr 2011

**Oracle Applications DBA**

India

**Roles & Responsibilities:**

* Control installation of Oracle applications 11.5.10 and 12.1.3 in single and multi-node and after installation configuration.
* Conduct database maintenance tasks and troubleshoot issues related to concurrent manager and Apache, forms, and reports.
* Effectively manage Oracle e-business suite and other legacy databases through Oracle Enterprise Manager grid control setup.
* Guide project operations and scopes, including work plan creation/ execution and supervision of a team of database administrators, onsite and at multiple locations. Conduct KT sessions for Database and Application Administration.
* Successfully migrated Oracle e-business suite from 11.5.10.2 to 12.1.3 (R12).
* Automated cloning and patching of Oracle E-Business-suite as well as data growth analysis processes.
* Implemented Oracle E-Business Suite (R12) integration with OID/OAM 11g for SSO (Single Sign-On)

**Oracle India Pvt. Ltd (Client: On-Demand Customer Pool (GE, PepsiCo))** May 2007 to Apr 2009

**Technical Analyst**

India

**Roles & Responsibilities:**

* Performed database administration tasks such as DBMS installations & upgrades, migrated databases, changed server configuration parameters, transferred system databases, and managed users &logins.
* Ensured all data were recovered, and that systems and data integrity & performance were maintained.
* Support the Oracle Apps DBA activities.
* Patching using adpatch and Opatch utilities.
* System Administration Activities (Function, Menu, Responsibilities)
* Troubleshooting the DB lock issues.
* Monitoring and Troubleshooting of CPU and Memory Utilization issues using different V$ views and OS utilities.
* Communication with Oracle on different TARs and Bugs related to Oracle Applications and Database.

**Education**

* MBA in HR & Marketing from Acharya Nagarjuna University in 2005
* Bachelor of Computer Applications from Acharya Nagarjuna University in 2002