CHANDRASEKAR K

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🔗 https://github.com/chandrasekar-701/tech-skills.git

SUMMARY

Having a strong knowledge of Linux system administration, AWS cloud services, and containerization using Docker and Kubernetes. Skilled in automation with Ansible, Jenkins ci/cd and scripting with Bash to optimize workflows. Eager to apply technical expertise in building secure, scalable, and efficient cloud environments.

EDUCATION

- **BE Mechanical Engineering**
  Jayalakshmi institute of technology
  Jun'15 – May'19   **75.70%**

- **Intermediate**
  Sri Vijay Vidyalaya Matric Hr.Sec.school
  Jun'13 – Apr'15   **87.00%**

- **SSLC**
  Don Bosco Matric Hr.Sec.school
  Jun'12 – Apr'13   **85.40%**

CERTIFICATION

Linux, AWS, DevOps, Python, Oracle SQL
course has been successfully completed at **Besant Technologies   Nov'24 – Mar'25**

TECHNICAL SKILLS

- Linux
- AWS
- Docker
- Kubernetes
- Git
- GitHub
- Ansible
- Bash scripting
- Oracle SQL
- Jenkins
- Prometheus
- Grafana

PRACTICAL EXPERIENCE

Three-Tier E-commerce Microservices Deployment on AWS EKS

- Deployed a three-tier, e-commerce application selling AI and robotics products.
- Architecture consisted of 7 microservices 2 relational databases, 1 in-memory data store (Redis), and a message queue (RabbitMQ).
- Helm chart used for automated deployments and ALB ingress controller used for external access.

Linux

- Comprehensive understanding of major Linux distributions like **Ubuntu**, **CentOS,** RedHat and Debian based distros.
- Proficient in creating users, groups and managing permissions using **chmod**, **chgrp**, **chown**, **usermod**, and **ACL** to maintain system security and functionality.
- Skilled in writing **Bash scripts** for repetitive tasks and have a hands-on knowledge to automate the repetitive task using **crontab**.
- Skilled in using **apt, yum**, and **dnf** for package installation, updates, and dependency resolution.
- Proficient in using **samba** and **SCP** for secure file transfer between Linux and windows environment, including options for recursive copying and bandwidth optimization.
- Knowledge of archiving ,compressing ,synchronizing of files using **tar, gzip** and **rsync** commands for making an efficient backup to avoid data loss and to mitigate storage issues.
- Knowledge in disk management tools **du, df, fdisk, lsblk** and using **LVM** tool for logical volume-based disk partition for effective use of available resources.
- Knowledge of configuring, troubleshooting and managing services like **SSH**, **Samba share**, **Apache** and **Nginx Web Server**, **FTP**, and **Postfix** by analyzing logs files and modifying the configuration files.

AWS cloud

- **AWS VPC:** Designed and configured AWS Virtual Private Cloud (VPC) to create isolated network environments with subnets, route tables, and security groups for secure cloud infrastructure.
- **AWS EC2:** Deployed and manages virtual servers on AWS EC2, configuring instances for scalability, security, and performance.
- **AWS Load Balancer:** Configured AWS Load Balancers to distribute traffic efficiently and enhance application availability.
- **AWS Auto Scaling:** Implemented AWS Auto Scaling to automatically adjust compute capacity based on demand, ensuring cost efficiency and reliability.
- **AWS IAM:** Having good knowledge in Identity and Access Management (IAM) to control user access, roles, and permissions for secure cloud operations.
- **AWS S3:** Stored and maintain data securely using AWS S3, implementing bucket policies, lifecycle rules, versioning and also hosted a static website
- Skilled in other important AWS services like **ECR**-container image registry, **EKS**-AWS managed kubernetes service, **Route 53**-DNS service, **CFT**-infrastructure as code tool, **Lambda**-Serverless computing, **RDS**-database management, **CloudFront**-content delivery network, **CloudWatch**.

DevOps Tools

Docker:
- Built Docker images using Dockerfile to automate application containerization and Configured container port binding to enable external access
- Configured Docker volumes for persistent storage, enabling data retention across container restarts.
- Set up Docker networking using bridge networks to enable secure container communication.

Kubernetes:
- Knowledge of deploying containerized applications using Kubernetes clusters for automatic scaling and self-healing of pods by creating replicas.
- Configured Kubernetes resources like Pods, Deployments, and Services via helm chart to ensure efficient orchestration and networking.

Jenkins:
- Knowledge in configuring and running basic Jenkins pipelines to automate code build and test processes. Used freestyle and pipeline jobs to practice CI/CD workflows in a test environment.
- Integrated Jenkins with GitHub to trigger builds automatically on code commits. Familiar with setting up nodes and understanding of shared libraries.

Ansible:
- Automated system configuration and application deployment using Ansible playbooks for consistent infrastructure management.
- Skilled in creating ansible-roles and knowledge of retrieving the roles from ansible-galaxy and sharing of roles that simplifying repetitive tasks and improving operational efficiency.

DECLARATION

I hereby declare that the details furnished in this resume are true and correct to the best of my knowledge

Place: yours faithfully

Date: CHANDRASEKAR K