Gagan Inder Singh

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Results-driven Cloud Technology developer with 10 + years of experience delivering solutions for cloud infrastructure migration and management. Experienced in working with various companies and technology stacks, successfully supporting applications from legacy to cloud platforms. Adept at defining technical and client requirements, building tools using CI/CD pipelines to automate migration processes, and facilitating rapid and efficient infrastructure deployment.

Technical Skills and Tools

- DevOps Tools
- Python Sripting
- Pycharm
- CloudBees Jenkins
- AWS
- Ansible

- Docker Swarm
- Terraform
- GitLab/BitBucket
- Spinnaker
- Shell Scripting
- SonarQube

- Openshift
- Terragrunt
- Portainer Paramiko
- Git Bash
- Vmware ESXI

- Kubernetes
- Unix/ Linux
- Eclipse
- Harbor / Jfrog
- Nagios
- Jinja2

Certificates and Awards

- AWS Developer Associate
- Terraform Associate

- AWS Solution Architect-Associate
- AWS Solution Architect-Professional

- RedHat Accredited Container Platform Delivery Analysis

★ **Accenture Celebrates Excellence Award: August 2019**   ★ **Accenture Ace Award: November 2019**

Experience

AlertDriving (Senior DevOps Engineer)   February 2023- Present

Technology used: CI/CD, Portainer, BuildX, VMWare, ESXI Docker, Swarm, Percona, DB Cluster, Nagios, Clonzilla, LVM DD, Chroot, Paramiko, Ansible, Jinja

Responsibilities:

- Demonstrated expertise in Linux administration, VMware ESXi, and LVM, enabling smooth operation and management of server environments, efficient resource allocation, and flexible storage management.
- Leveraged Portainer for streamlined container management, Docker Swarm for scalable application orchestration, and Percona DB Cluster for high availability and reliable database performance.
- Utilized Nagios for proactive infrastructure monitoring to ensure optimal performance and minimize downtime.
- Proficiently worked with VMware ESXi to manage virtualized environments, effectively allocating resources and ensuring optimal performance.
- Implemented Docker Swarm to orchestrate containerized applications, enabling scalability, fault tolerance, and simplified management.
- Successfully implemented and managed Percona DB Cluster, ensuring high availability and reliable performance for database systems.
- Employed Nagios for monitoring and proactive management of infrastructure and services, ensuring optimal performance and minimizing downtime.
- Utilized Clonzilla for efficient disk imaging and cloning, facilitating system backups and disaster recovery procedures.
- Proficient in working with LVM (Logical Volume Manager) for flexible and efficient management of storage resources.
- Demonstrated proficiency in using DD and CHroot for system recovery, troubleshooting, and forensic analysis.
- Utilized Paramiko, a Python implementation of SSH protocol, for secure remote server management and automation.
- Applied Ansible for configuration management and automation of infrastructure, optimizing deployment processes and ensuring consistency.
- Leveraged Jinja templating language to create dynamic and reusable configurations for automated deployments and infrastructure management.
- Managed the end-to-end upgrade and migration of Jira, Bitbucket, and Confluence, ensuring smooth transition, minimal downtime, and resolution of post-upgrade issues for stable and reliable systems.

Anetcorp India Pvt. Ltd, Chandigarh (Senior DevOps Engineer)   October 2022 – January 2023

Projects: GENENTECH (October 2022 – January 2023)

Technologies used: Jira, Python, Jenkins, Groovy, shell, Confluence, Linux, GitHub, Aws Git, Adobe AEM

Responsibilities:

- Deployed, managed, secured, and patched enterprise applications at a large scale in the Cloud, preferably AWS, ensuring high availability, security, and performance.
- Led end-to-end DevOps projects, leveraging modern tools and technologies to integrate applications and infrastructure seamlessly.
- Utilized AWS CodeDeploy, AWS CodeBuild, Jenkins, SonarQube, incident management, and root cause analysis

tools to ensure efficient deployment, code quality, and incident resolution.
- Demonstrated a strong understanding of immutable infrastructure and infrastructure as code concepts, actively participating in capacity planning and resource provisioning to meet application and infrastructure demands.
- Utilized various AWS cloud services, including EC2, S3, IAM, Route53, RDS, VPC, NAT/IG Gateway, Lambda, Load Balancers, CloudWatch, and API Gateway, to architect and manage scalable and reliable cloud infrastructure.
- Managed multi-cluster container environments using AWS ECS (ECS with EC2 and Fargate) with service discovery using Route53, ensuring efficient deployment and orchestration of containerized applications.
- Implemented monitoring/analytics tools such as Nagios, DataDog, and logging tools like Logstash/Sumo-Logic to proactively monitor infrastructure, applications, and logs, enabling timely issue detection and resolution.

Accenture, Gurugram (Senior Software Engineer)   December 2016 - September 2022

Projects: Travelers US (Feb 2022 – September 2022); Western Union Bank, US (May 2020 - Feb 2022); Amadeus (Jan 2019 -May 2020); Marriot and Starwood, US (Dec 2016- Jan 2019)

Technologies used: CloudBee's Jenkins, Docker, Git, Python, shell script, Rally, Confluence, Linux, GitHub, AWS, Terraform, Kubernetes, JIRA, GitLab, Spinnaker, RedHat OpenShift, Vagrant, Bitbucket, Java EE, Java MVC Spring, MySQL, UNIX, Client private cloud services

Responsibilities:
- Specialized in fixing and enhancing existing pipelines and Terraform scripts to seamlessly build infrastructure, resulting in increased efficiency and reduced deployment time.
- Created and modified triggers for Webhooks, ensuring smooth integration and automation of CI/CD processes.
- Developed Terraform scripts to build and manage infrastructure, optimizing resource allocation and scalability.
- Wrote SOPs and tool documentation to improve the usage and understanding of tools and scripts, enabling streamlined workflows and effective knowledge sharing.
- Worked on Proof of Concepts (POCs) for clients, collaborating with them to understand requirements, and testing and implementing features such as creating EKS clusters, pods, services, and enforcing security measures.
- Built CloudBees Jenkins pipeline from scratch, incorporating best practices for continuous integration and ensuring reliable and efficient code delivery.
- Integrated CI pipeline with CD pipeline using Spinnaker, automating the end-to-end deployment process and enabling rapid and reliable software releases.
- Communicated directly with project stakeholders, providing timely updates on project progress, milestones, and potential risks, ensuring effective coordination and project delivery.
- Developed Ansible roles and utilized Docker to automate application build, deployment, and containerization, improving development productivity and reducing deployment errors.
- Created pipeline scripts and jobs to integrate and automate the CI/CD process, including code building, testing, and deployment, resulting in streamlined and reliable software delivery.
- Worked with Code Quality Analysis Tools like SonarQube and Repository manager, implementing code quality checks and ensuring adherence to coding standards.
- Utilized version control tools such as Git, GitHub, and Bitbucket, integrating them with Jenkins to enable efficient code collaboration, versioning, and automated builds.
- Designed and deployed applications in Kubernetes clusters, managing pods, services, ingress, and persistent volumes, ensuring high availability and scalability of containerized applications.
- Utilized AWS cloud services to create and manage infrastructure, following well-architected framework principles, optimizing resource utilization, and ensuring high availability and fault tolerance.
- Developed Python code using both functional and object-oriented approaches to create tools and integrations, improving system efficiency, automation, and performance.
- Created complex Bash scripts to automate routine tasks, increasing productivity, reducing human error, and enhancing system administration efficiency.
- Supported application and deployment processes to meet SLAs, coordinating with cross-functional teams to ensure seamless and efficient software releases.
- Utilized strong analytical skills to identify root causes, perform troubleshooting, and implement effective solutions, minimizing downtime and maximizing system uptime.
- Managed Linux/UNIX servers in production environments, ensuring stability, security, and optimal performance.
- Developed Python and Bash scripts for daily maintenance activities, including troubleshooting and automation, reducing manual effort and improving system stability and efficiency.
- Identified areas for improvement, recommended new processes, and implemented best practices to enhance system efficiency, scalability, and performance.

Education

MCA, Thapar University, Patiala	Jun 2013 - May 2016
BCA, MIM Institute of Technology, Patiala	Jun 2010 - May 2013
Higher Secondary, GNFPS, Patiala	April 2009 - March 2010
Secondary, GNFPS, Patiala	April 2007 - March 2008

Languages
English, Hindi, Punjabi