

Raman Tandon

PRINCIPAL DEVOPS ENGINEER

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Summary

DevOps professional with 20+ years of experience in designing and implementing automated solutions across business verticals. Deep experience in managing cloud infrastructures, kubernetes environments, automated CI/CD pipelines, and automated deployments. Proficiency in data warehouses, streaming analytics, workflow orchestration solutions, and business intelligence tools. Proven track record to delivering innovative solutions and driving business growth.

Skills

Cloud Platforms	Google Cloud Platform (GCP), Amazon Web Services (AWS)
Container Technologies	Orchestration (GKE, EKS, Docker Swarm), Ingress, Istio, Helm charts, Kind, Minikube
Serverless Technologies	AWS Lambda, Elastic Container Services (ECS), Google Cloud Run, Google Cloud Functions
CI/CD Platform	Google Cloudbuild, Jenkins, GitLab CI, Atlassian Bitbucket, Sonatype Nexus, Artifact Repository
Configuration Tools	Terraform, Ansible, Chef, Cloud monitoring, Cloud logging, Prometheus, Grafana, Kiali, Git
Databases	Cassandra, MongoDB, Redis, MySQL, PostgreSQL, Firestore, Snowflake, BigQuery
Data Flow/Analytics	Google Cloud Composer, Dataflow, Pub/Sub, Looker BI
Programming	Python, Java, Node.js, Bash

Work Experience

♣ IAC MOSAIC GROUP

Yonkers, NY, US

PRINCIPAL DEVOPS ENGINEER

Mar 2018 - Feb 2024

- Led a team of professionals to migrate CI/CD pipelines from Jenkins to a fully-managed serverless Google Cloud Build.
 - Reviewed data engineering jenkins jobs from data feeds to complex Snowflake, Composer, Dataflow, Secret Management, and custom pipelines.
 - Coded new automated pipelines and triggers for execution on Google Cloud Build. Utilized multiple cloud builder images as per application requirements.
- Along with Security and Audit Compliance teams, migrated SOX Audit tools from legacy Windows platform to fully managed containerized Google Cloud Run infrastructure.
 - Analyzed SOX Audit scripts and re-designed the entire workflow in a cloud run job to automate audit reporting.
 - Improved workflow by de-coupling AD audit information gathering from Windows PowerShell Active Directory module to python ldap3. Improved security with secrets deployed in google secret manager.
- Deployed and maintained fleet of kubernetes clusters, deployments, services, ingress objects, load balancers, HELM charts, resource quotas, node pools, RBAC, CRDs, monitoring and alerting.
- Spearheaded multiple teams in the implementation of the Security information and event management (SIEM) tool Exabeam. Streamlined our Organization's Cloud logging policy, lifecycle, and retention policies to provisioning logging sinks and CloudTrail for routing audit security logs to Exabeam.
- Build and maintained Cloud infrastructures, Serverless solutions, and Kubernetes engines for our containerized applications. Experienced in Istio service mesh, Ingress, LoadBalancers, Prometheus, Kiali, and Grafana for monitoring microservices.
- Provisioned Organization's GCP Cloud Infrastructure from the ground up in Terraform. Coordinated with network professionals to set up network resources in shared VPC, set up projects, set up organization policies and guardrails.
- Expertise in Source Code Management tools, CI/CD pipelines based on Cloud Build, Jenkins, GitLab CI, GitHub Actions, and Nexus Artifact Repository.
- Experience managing Snowflake and BigQuery data warehouses, Dataflow streaming analytics, Cloud Composer workflow orchestration, SQL, NoSQL DBs, and Looker BI.

ASK APPLICATIONS

Yonkers, NY, US

PRINCIPAL SYSTEMS ENGINEER

Jun 2011 - Feb 2018

- Led a team of DevOps professionals to implement Terraform Enterprise deployment on-premises. Migrated Terraform from open-source to enterprise environment.
- Deployed and managed EKS kubernetes clusters, templated deployments, HELM charts, setup namespace resource quotas, RBACs, affinities and more.
- Experience managing AWS accounts and managed services including IAM, EC2, S3, EBS, RDS, DynamoDB, Route53, Lambda, CloudWatch, CloudFormation, SNS, SQS, and AutoScaling.
- Along with network professionals architected network designs for AWS accounts. Provisioned VPCs, public and private subnets, subnet CIDRs, routing tables, NAT gateways, internet gateways, elastic IPs, security groups, and IPsec VPNs. Resources and services are coded in Terraform and provisioned in AWS.
- Implemented CloudBees, a unified enterprise Jenkins build platform. Experience gained in related zookeeper, HBase, MariaDB, Redis, and distributed systems. Worked with developers to migrate jobs from Jenkins to CloudBees.
- Provisioned Elasticsearch cluster to index, search, and analyze system and application logs for near real-time analytics by product teams. Deep knowledge of ELK stack, fluentd, and various log parsers.
- Successfully upgraded production Chef environment to version 12. Simulated upgrade steps in the lab environment.
- Coded an extensive Python-based Inventory management tool collecting and reporting on assets and their attributes in multiple data center locations across the US. Multiple teams depended on this tool to get varying levels of resource allocations.

ASK.COM

Billerica, MA, US

SR. UNIX ADMINISTRATOR

Mar 2002 - May 2011

- Administration and management of VMware Virtual environments and Linux Operating Systems.
- Administration of centralized 3par InServ's network storage arrays and NetApp filers.
- Experience in configuring and managing DNS, DHCP, NTP, and Apache services. Managing iptables, and RAID configurations. Managing LVM, SVN, iSCSI, and multipathing. Customizing and tuning Linux kernel.
- Developed Python scripts for provisioning storage arrays and reporting stats.
- Set up Nagios and Zenoss for enterprise-wide systems monitoring and alerting.

INTELIANT CORP.

San Jose, CA, US

SR. UNIX ADMINISTRATOR

Nov 2000 - Feb 2002

- Installation and configuration of Sun enterprise servers. Administration of Solaris and Redhat Linux operating systems.
- Configured Veritas RAID volumes and file systems on Sun StorEdge A5000s and D1000s.
- Backing up and restoring Oracle databases through block-level incremental backup and recovery scripts, configuring Veritas Database Edition for Oracle.
- Configured and maintained ADIC's Scalar 1000 multiple tape library with Veritas Netbackup on the Solaris platform, maintaining catalogs, restoring off-site, and disaster recovery.
- Coded scripts for monitoring the performance of Sun servers.
- Systems and network health monitoring and alerting using Big Brother.

SDG SOFTWARE PVT. LTD
INFRASTRUCTURE SPECIALIST

New Delhi, India
Dec 1999 - Oct 2000

- Installation and Configuration of Sun Enterprise E4500 servers for GE-EGAT MRO project in Taiwan. Project included implementation of Oracle financial and MRO (Maintenance, Repair and Overhaul) for aircraft engine maintenance.
- Installed and configured NIS+. Populated entries in user tables, host tables, auto-mount tables for EGAT'S existing users through CLI and Solstice.
- Installed and configured Sun Storedge Volume Manager 2.6, implemented mirroring and hot-spares using veritas utilities like VxVM and VxVA for Sun Storedge D1000 and A5200 systems.
- Installed and Customized SUN Solstice backup V5.1 (Legato) on SUN Storedge L280 Autoloader using nwadmin, nwbackup and nwrestore utilities on DLT tapes and by UFSdump, UFSrestore, Tar utilities on DDS2 on DAT.
- Configured HA on Sun Servers using Sun Cluster 2.2 for two nodes and two logical hosts. Configured Quorum device and cluster configuration database (CCD). Tested for various fail over options.
- Maintained Sun Solaris, Red Hat Linux, and Windows NT computing systems.

IT&T LIMITED

New Delhi, India
May 1996 - Nov 1999

SR. UNIX SYSTEM ADMINISTRATOR

- Installation and administration of SUN Solaris 2.6 / SCO Unix Open server 5.0. Maintaining user databases.
- Installation and administration of WindowsNT servers, domains and trust relationships, user management, and policies.
- Configuration and maintenance of Microsoft Exchange Server 5.5, maintaining Internet Mail Systems via X.400 and Site connectors, accessing Internet Mail via. Outlook Web Access.
- Configuration of DNS, DHCP, NFS, NIS, SAMBA, Sendmail.
- Administration of NetWare Servers.
- Migrated mailing system from Lotus cc mail to Microsoft exchange 5.5 as well migrating from Novell to Windows NT.
- Deployment of NIS+ and NFS throughout the organization.
- Backup strategies for the Unix (tar format), NT (ArcserveIT) and Novell (sbackup) systems.
- Installed and configured Cisco Switches 2820, Cisco Routers 2502/2522.
- Network layout of Ranbaxy branch offices. Layout of Structured cabling, routers, switches, hubs, fiber optics, csu/dsu

CMC LIMITED

New Delhi, India
May 1995 - May 1996

SYSTEMS ENGINEER

- Administration of Novell and Unix systems at Indian Parliament. Worked in the capacity as trainee system administrator.
- Installation and configuration of Novell 4.x and SCO Unix servers at various Indian Oil Corporation locations in India.
- Configuration of LTS (LAN terminal servers), MTS (Modular terminal servers).
- Configuration of multiport serial cards in Unix Servers for connectivity through Vxl terminals, directly and through line drivers.

Certifications and Courses

SDG PROFESSIONAL CLOUD ARCHITECT	Oct 2021
GOOGLE CLOUD SKILLS BOOST	Mar 2019
CLOUDBEES CI - INSTRUCTOR-LED TRAINING	Feb 2018
ARCHITECTING ON AWS - INSTRUCTOR-LED TRAINING	Aug 2017
SUN CERTIFIED SYSTEM ADMINISTRATOR	Jan 2001
MICROSOFT CERTIFIED SYSTEM ADMINISTRATOR	Mar 2000

Education

YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING
B.E. (ELECTRONICS AND POWER ENGINEERING)

Maharashtra, India
Aug 1989 - Aug 1993