

AASHISH CHHABRA

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SUMMARY

Senior Lead DevOps & Big Data Platform Engineer with **12+ years** architecting and operating infrastructure at scale. Scaled a production Cloudera cluster from 20 to 400+ Datanodes (19 PB) and led its zero-downtime CDH 5.8 → CDP 7.1.6 migration. Manages a critical footprint of 1,200+ bare-metal servers, backed by a pluggable, multi-language CI/CD framework with DevSecOps security gates developers can't bypass. Leads multi-member DevOps teams standardising CI/CD, automation, and observability — with deep expertise in Kafka cluster administration, OpenShift/Kubernetes, and full-stack observability with the Elastic Stack.

TECHNICAL SKILLS

Big Data & Data Processing: Cloudera (CDH/CDP), HDP, Apache Kafka (Admin/SCRAM/Kerberos), Hive, SQOOP, Spark Operator, Trino, YARN, Zookeeper, Airflow

DevOps & Orchestration: Ansible, Jenkins CI/CD, Pluggable CI/CD Framework, DevSecOps (BlackDuck, Coverity, Prisma Cloud), GitOps

Containerization & Cloud-Native: OpenShift Container Platform (OCP), Kubernetes, Docker Swarm, Docker, Microsoft Azure (AZ-900 Certified)

Observability & Reliability: Elastic Stack (ELK/APM/Fleet), Grafana, Synthetics, OpenTelemetry, Kafka UI

Languages & Tools: Python (Pandas), Shell Scripting, MySQL, Oracle SQL, Cluster Shell, JupyterHub

System-Level Engineering: RHEL/CentOS (7.x–8.x), Kernel Parameter Tuning, Systemd Services, RPM/TAR Packaging

PROFESSIONAL EXPERIENCE

Xtelify (Airtel Digital / Bharti Airtel Limited), Gurugram, India

Senior Lead Engineer — Data Techops | September 2019 – Present

- Scaled production Cloudera cluster from 20 nodes to 400+ Datanodes (19 PB), leading annual capacity planning and disaster recovery for the platform.
- Led the CDH 5.8 → CDP 7.1.6 migration in lockstep with Developers and Operations, with zero business downtime.
- Architected and stabilised a Kafka platform for Airtel on kernel-tuned bare-metal brokers supporting high-speed streaming ingestion from across India: dual Kerberos/SCRAM authentication, Cruise Control for rebalancing, and real-time observability via Grafana, Kafka UI, and Telegram alerting.
- Led a multi-member DevOps team migrating in-house applications and microservices from Docker Swarm to OpenShift Container Platform (OCP).
- Built full-stack observability across platforms: centralised logging (ELK), APM tracing, Fleet-managed agents, and Synthetics.
- Built and maintained a pluggable, multi-language CI/CD framework enforcing DevSecOps security gates that developers can't bypass.
- Led the DevSecOps initiative integrating BlackDuck, Coverity, and Prisma Cloud into CI pipelines.
- Deployed JupyterHub (LDAP-authenticated, for Spark workloads), Trino on Kubernetes, and Spark Operator on OCP.
- Managed 1,200+ bare-metal servers across multiple production environments, including Namenode failover with zero downtime.

NCR Corporation, Gurugram, India

Senior Software Engineer | January 2018 – September 2019

- Deployed and managed multiple Hortonworks Data Platform (HDP) clusters, configuring YARN, Ranger, Hive, Knox, and Oozie.
- Implemented Kerberos for seamless Active Directory authentication across all HDP cluster components.
- Automated HDP user onboarding via Ranger Sync and managed policies with custom shell scripts.
- Built data pipelines using SQOOP from MySQL/Oracle into Hadoop, with Hive DDL/DML for transformation.
- Provided 24/7 on-call support, troubleshooting production cluster issues and job failures.

Tech Mahindra Ltd., Pune, India

Software Engineer | June 2014 – December 2017

- Early Big Data work: HDFS migration POCs, SQOOP ingestion from SQL Server, and Hive/PIG Latin transformation scripts.
- Database engineering: MySQL optimisation, stored procedures, and SQL Server reporting.
- Contributed to JSP frontend views and deployment documentation for production releases.

CERTIFICATIONS & AWARDS

Certifications: Management Development Programme — IIM Indore, 2024 · Microsoft Certified: Azure Fundamentals (AZ-900), 2024 · HDP Certified Developer — Hortonworks Inc., 2017

Bharti Airtel Ltd.: Employee of the Month, Eureka Award, Best Team Award · **Tech Mahindra:** ACE Award, Bravo Award (two quarters), Highest Learner Award, Pat on the Back Award, Best Team Award (two alternate quarters)