



# PRASHANT D KADAM

Duty Engineer

## PROFILE SUMMARY

Certified Kubernetes Administrator (CKA) with 11+ years in the TV broadcast industry, specializing in Kubernetes, Docker, OpenShift, and system health monitoring using Grafana, Kibana, and Prometheus. I excel in building scalable, high-availability infrastructures and automating workflows with tools like Jenkins and GitHub.

Proficient in Python and Bash scripting, I've automated routine tasks, improved system reliability, and created real-time monitoring dashboards to enhance service delivery and minimize downtime. My expertise includes designing resilient containerized environments, implementing best practices for security and scalability, and optimizing deployments.

I'm passionate about streamlining operations, reducing manual effort, and enhancing system performance, contributing to innovative and reliable infrastructure projects.

## EDUCATION

2012 B.Tech/B.E.  
Pune  
University

## WORK EXPERIENCE

Nov 2023 - Present

Duty Engineer

### Sony Pictures Networks

I specialize in leveraging DevOps practices to streamline operations and enhance system reliability. My expertise includes managing live events (e.g., Australian Open, WWE, UFC, and Hockey), running playout systems for 50+ channels, and handling media asset management using DIVA, GBLabs, and AWS S3 Deep Glacier. Automating repetitive tasks using BASH and Python. Delivering efficient, scalable, and resilient infrastructure solutions, I work closely with teams to drive continuous improvements across broadcast systems and operations. Working on Synamedia compression and VGCAS system.

Dec 2020 - Oct 2023

Deputy Manager Broadcast, CAS

### Jio

Manging more than 14000 service configuration for 25+ Headends Working on Verimatrix CAS for 3m + customer base. Good exposure to automation using BASH scripting Openshift training on DO180 , DO280 and DO380 from

## PERSONAL INFORMATION

Email  
pdek1991@gmail.com

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(+91) 9823340379

Total work experience  
11 Years 11 Months

## KEY SKILLS

Kubernetes Orchestration (CKA Certified)

OpenShift Administration

CI/CD Pipeline Management (Jenkins)

Monitoring and Alerting (Grafana Kibana Prometheus ELK Stack)

Configuration Management and Version Control (Git)

Linux Administration (Ubuntu Red Hat CentOS)

Database Management (MySQL)

Root Cause Analysis (RCA) and Incident Management

API Testing (Postman JMeter Custom Scripts)

Process Documentation and Operational Guides

Strategic Planning and Execution

## OTHER PERSONAL DETAILS

City Mumbai  
Country INDIA

## LANGUAGES

- English
- Hindi
- Marathi

Redhat Creating Grafana dashboards Log analysis using Kibana Prometheus query to manage data Managing multiple Linux servers and CAS components on them Planning and execution of regression and sanity testing on application Creating alerts for critical KPI for business review Managing the OpenShift cluster that with autoscaling and HA Taking cluster wide backups.

Dec 2019 - Dec 2020

Senior Systems Engineer

### Tata Play

Installed and configured critical broadcast equipment (MUX, Modulators, Encoders, IRD).

Created Bash scripts to automate routine tasks, reducing manual effort and operational overhead.

Designed Grafana dashboards for system health and KPI monitoring.

Utilized Kibana to create monitoring dashboards for tracking critical KPIs, ensuring timely issue identification.

Led RCA (Root Cause Analysis) for errors, minimizing downtime and improving system reliability.

Facilitated deployment of new features by closely collaborating with testing teams.

May 2016 - Nov 2019

Senior Broadcast Engineer

### Reliance Communications / Independent TV

Installation and configuration of station equipments like MUX, Modulator, Encoders and IRD. Bandwidth utilization and planning for satellite Transponders for BIG TV Rectifying faults according to daily channel status report and root cause analysis to ensure minimization of errors. Upgradation of new Headend equipment's. Handling XMS and XMU for system monitoring. Implementing proposed technical modification in DTH Headend. Highly organized planning for smooth and timely completion of goals. Software Release Testing & OTA testing with STB Team.

Nov 2014 - May 2016

Broadcast Engineer

### Prime Focus Technologies (PFT)

Configured Appear TV Encoders, Demodulators, and managed multicast IPs for 400+ channels.

Administered SML servers for ERP data storage and installed C-band antennas for signal reception.

Performed technical fault analysis, system upgrades, and testing of new equipment.

Handled audio watermarking using WMM for secure content distribution. Worked on BARC project

Feb 2013 - Nov 2014

Headend Engineer

### IndusInd Media and Communication Ltd

Configuration of QAM Modulator, PSI-SI Server, MPEG 2, Encoders, Preventive Maintenance of equipments ,Installation of New equipments, Addition deletion and swapping of services as per requirement, Handling EPG programs, Fault finding in network

## Projects

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366 Days

### Multichannel Landslide monitoring using Image Compression Technique

Image Compression using MATLAB.

4 Weeks

### Basic CAS System

Simulated CAS functionality using a microservices architecture deployed on Kubernetes with Helm, ensuring high availability with a database featuring multiple read replicas and horizontal autoscaling. Achieved build and deployment times under 10 minutes using Jenkins pipelines integrated with GitHub webhooks for CI/CD, streamlining the entire deployment process. Integrated comprehensive monitoring and logging using the ELK stack, Grafana dashboards for database performance insights, and Telegram alerts for real-time notifications. Conducted performance and stress testing to ensure system scalability, reliability, and optimal performance, enhancing expertise in monitoring, logging, and efficient deployment strategies.

Additionally, developed a Telegram bot integrated with Grafana and AlertManager to send custom alerts, significantly reducing downtime with prompt notifications and real-time incident response. Designed as a reusable infrastructure.

25 Days

### Self-Care Portal for CAS

Designed and developed a desktop application integrating with the existing CAS system, enabling seamless authorization and authentication via Enterprise LDAP. This tool eliminated the need for manual user management, making it accessible across the organization.

Primarily built for testing teams performing manual STB tests, the application streamlined workflows by allowing teams to send triggers directly from CAS without requiring dedicated engineers for extended periods. This innovation saved significant engineering hours, fast-tracked the testing phase, and reduced delivery timelines by approximately 25%, enhancing overall efficiency and productivity.

## COURSES & CERTIFICATIONS

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- Certified Kubernetes Administrator (CKA) Program (Valid upto January 2027)
- DO280 Redhat Openshift Administration 2 Training from RedHat
- DO180 Red Hat OpenShift I: Containers & Kubernetes Training from RedHat
- DO380 Redhat Openshift Administrator 3 Training from RedHat