Parag Khalde

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DevOps engineer with 5 years of hands-on experience in CI/CD, Openshift, Kubernetes, Observability and open-source tools.

CATEGORY	TOOLS / TECHNOLOGIES
Containerization & Orchestration	Kubernetes, OpenShift Container Platform, Docker, Podman
Monitoring & Observability	Grafana, Prometheus, Node Exporter, Loki, Blackbox, Splunk, Rancher
CI/CD & GitOps	Jenkins, ArgoCD
Code Quality & Security	SonarQube
Version Control & SCM	GitHub, GitLab
Linux & Automation	RHEL, Red Hat Ansible Automation Platform, Red Hat Insights, Red Hat Identity Management (IdM), Red Hat Satellite
Hypervisor for Virtual Machines	VMware ESXi Hypervisor
Virtualization in OpenShift	Red Hat OpenShift Virtualization Platform

EDUCATION

Bachelors of Engineering (B.E.) – Information Technology | June'16 – Mar'2020
- Graduated with distinction (CGPA – 6.8/10) from Mahatma Gandhi Mission's College of Engineering and Technology.
- Participated in Ethical hacking workshops. Practised and submitted a project on DOS attack and web hacks using Kali Linux.

Diploma (Dipl. IT.) – Information Technology | July'13 – April'16
- Earned a sub-degree in Information Technology with a 70% grade

EMPLOYMENT HISTORY

DevOps Engineer, Clearing Corporation of India Limited (CCIL) Client site (Payroll: Sunfire Technologies Pvt Ltd May'24-Present)
- Managed three Red Hat OpenShift Container Platform clusters across three locations, ensuring stability, performance, and scalability.
- Administered three Red Hat OpenShift Virtualization Platform clusters across three locations, optimizing virtualization and resource utilization.
- Utilized VMware ESXi hypervisor to deploy, manage, and optimize virtual machines, ensuring efficient resource utilization and system performance.
- Utilized Red Hat Identity Management (IdM) to centrally manage user authentication, authorization, and access control, ensuring secure and streamlined identity management.
- Leveraged Red Hat Satellite for system provisioning, patch management, and lifecycle automation, ensuring consistent and secure infrastructure management.
- Implemented Red Hat Ansible Automation Platform to automate IT workflows, configuration management, and application deployments, enhancing operational efficiency.
- Used Red Hat Insights for proactive monitoring, risk analysis, and performance optimization, identifying and mitigating potential issues before they impact operations.
- Designed and implemented external observability for internal OpenShift Container Platform (OCP) monitoring, enhancing visibility and customization using tools like Grafana and Prometheus for improved analytics and proactive issue resolution.

DevOps Engineer, Blue Dart Express Limited Client site (Payroll: Sunfire Technologies Pvt Ltd, May'24 - Present)
- Deployed and managed applications on Red Hat OpenShift Container Platform, overseeing two clusters and monitoring them using the OCP Observe feature within the dashboard.
- Conducted daily monitoring reports, analyzing resource utilization to identify services consuming the most resources and detecting spikes. Investigated underlying causes to proactively mitigate potential issues.
- Generated daily reports on pod count and their states via Splunk, identifying non-running pods and troubleshooting issues to ensure optimal performance.
- Prepared weekly incident management reports, categorizing issues and documenting resolutions for improved operational efficiency.
- Conducted OpenShift training sessions for Blue Dart employees to enhance their understanding and support capabilities.

DevOps Engineer, Reliance Industries Ltd Client Site (Payroll : ACL Digital Nov'21-Nov'23, Quess Corp Nov'23 – May'24)
- Deployed and managed applications on Kubernetes, overseeing 10 clusters using platforms like Rancher and observability
- Led project initiation for onboarding Reliance Foundation Hospital on observability and detailed project plans
- Successfully initiated and managed Ansible automation project for various plays
- Managed TIBCO BW, troubleshooting queues, services, and servers and conducted migration activities for TIBCO when OS support expired along with TIBCO admin tasks
- Administered GitLab servers, conducted upgrades, and migrated projects from SVN Tortoise client to GitLab
- Worked as an SAP authorization member, reporting and resolving queues for failed or error states. Managed SAP servers (AP1, AP2, RP2, and SMM)
- Monitored databases (MySQL, MongoDB, and Redis) with ELK, and Kafka replica servers through observability tool
- Received an award certification for recognised performance and lasting contributions to Jio Platforms Limited

DevOps Engineer, Vishakha Art (May'2020 - Oct'2021)
● Deployed and managed a website using Apache and Jenkins CI/CD. Handled GitHub and SonarQube integration for code quality and collaboration. Coordinated with developers and business teams, also performed QA testing.

PROJECTS

OFFICIAL PROJECTS:

OpenShift Virtualization Platform (4.16) Installation & Day-2 Activities | Feb'25
● Performed Day-2 activities for OpenShift Virtualization Platform 4.16, including the configuration of Hitachi Storage Plug-in for Containers (HSPC). Conducted multiple test scenarios before migration to ensure seamless virtualization performance and reliability.

VM Migration from VMware to Red Hat OpenShift Virtualization Platform | Feb'25
● Led the migration of virtual machines (VMs) from VMware to OpenShift Virtualization Platform, utilizing both cold migration and warm migration strategies based on predefined planning. Before migration, conducted thorough testing of direct LUN-attached physical server VM migration and snapshot-based VM migration, ensuring a smooth transition and minimal downtime.

OpenShift Container Platform (4.14) Installation & Upgrade to (4.16) | Dec'24
● Installed OpenShift Container Platform 4.14 and performed Day-2 activities, ensuring seamless deployment and operational stability. Led the upgrade process to OpenShift 4.16, optimizing the cluster for improved performance and security.

VMware ESXi Hypervisor Upgrade (7.0 3s to 8.0 3d) | Nov'24
● Upgraded VMware ESXi Hypervisor from version 7.0 3s to 8.0 3d using a depot file, ensuring improved virtualization capabilities, security enhancements, and optimized resource management.

External Observability for OpenShift Container Platform, OpenShift Virtualization, and RHEL Servers | Oct'24
● Designed and implemented an external observability instance for monitoring OpenShift Container Platform (OCP) and OpenShift Virtualization Platform. Developed custom Grafana dashboards and PromQL queries for alerting mechanisms, enhancing system monitoring and proactive issue resolution. Led the project end-to-end.

Jio Observability Infrastructure | Dec'23
● Oversaw 15 tenants on Jio Observability tool using the Grafana client. Onboarded entire Reliance foundation hospital infrastructure on observability automating monitoring process with hybrid OS structure of Windows and Linux servers
● Editor for Procurement Platform, configuring alerts threshold values and manipulating queries triggered via Grafana agent on the observability tool and troubleshooted any issues related to Kubernetes pods of R-Auction

Kubernetes/GitLab Upgradation and Migration | May'23
● Upgraded Kubernetes from version 1.26.12 to 1.27.9, migrating from RHEL to Ubuntu OS.
● Upgraded GitLab from 14.9.3 to 15.4.3, transferring projects from SVN Tortoise client, on Windows OS, to GitLab hosted on RHEL

Automation of tasks via Ansible | Mar'22
● Automated OS patching, upgrades, tool installations and other tasks via Ansible, resulting in time savings, eliminating repetitive work, and reducing human errors associated with manual processes.

PERSONAL PROJECTS:

Responsive Portfolio Website | Mar'24
● Developed a responsive and visually appealing portfolio website using HTML, CSS, and JavaScript, showcasing professional work and skills. Live at: https://praguee.github.io/portfolio-website/

CI/CD Pipeline with Jenkins for Kubernetes Deployment | May'24
● Designed a Jenkins CI/CD pipeline for building, analyzing, and deploying a static portfolio website. Integrated SonarQube for code quality checks, OWASP Dependency Check for security analysis, and Docker for containerization. Automated deployment to a K3s container for seamless updates.

Rancher on K3s Cluster | Apr'24
● Installed and configured Rancher and Cert-Manager on a K3s cluster, leveraging Helm and MetalLB for load balancing. Ensured a streamlined setup for managing Kubernetes workloads efficiently.

CERTIFICATIONS

● Oracle Cloud Infrastructure 2023 Certified Foundations Associate | August'23
● AWS Cloud Technical Essentials | August'23
● Ansible for DevOps: Playbook and Docker Essentials: Building and Containerized wed applications | Feb'23