


# RIZWAN ABBASI

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## Professional Summary

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3.5+ years of Experience in the field of Linux, Networks, Security, Cloud, Scripting and Automation, Containerisation, Kubernetes Orchestration, Vulnerability Assessment and Penetration Testing.

## Education

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**IPS Academy Indore (M.P.)**

**2017-2021**

*B. Tech in Computer Science and Engineering*

*CGPA: 7.6*

## Experience

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**Paragon Business Solutions Limited**

**Jan 2021 – Present**

*Research and Development Engineer*

*Indore, M.P.*

- Successfully led migration of applications to containerization platforms like Docker, prioritizing security standard and best practices. Optimized containerized applications for improved performance and security per industry standards.
- Deployed applications to AWS Managed Kubernetes Service (**EKS**) managing their lifecycle seamlessly.
- I implemented the open-source cloud-native distributed storage solution, Longhorn, ensuring high availability and reliability for our Kubernetes cluster.
- Automated diverse tasks using **Ansible** playbooks to validate over more than 500 production servers.
- Implemented effective remediation strategies to enhanced security posture. Conducted comprehensive cloud security assessments, identifying weak configurations. Also Executed Linux server security assessments using automated and manual tools. Ensured robust security measures were in place.
- I have extensive experience working with various hypervisor and virtualization platforms, such as **VMware ESXi 6.7**, KVM, and **LXC/LXD**. Troubleshoot and conducted root cause analysis (RCA) for Linux, network(Wireshark and Network visibility), and security vulnerabilities(**VAPT**).

## Projects

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**Kubernetes Orchestration** | *Docker, Kubernetes, Linux, Network, Security, AWS*

- To utilize Kubernetes' capabilities like high availability, auto-scaling, and auto-healing in our existing containerized environment, we opted to migrate our applications to Kubernetes. Leveraging my expertise as a Certified Kubernetes Administrator (CKA) and Certified Kubernetes Security Specialist (CKS), I established a managed Kubernetes cluster on Amazon EKS using eksctl, awscli, kubectl, and helm. Additionally, I configured an RDS database for workloads running on EKS. Subsequently, I set up the AWS Load Balancer Controller using Helm, created IngressClass and Ingress Resources, and implemented ExternalDNS for services on Cloudflare. This involved creating suitable manifests in the cluster and enabling API access on the Cloudflare side.

**SIEM and Identity Management** | *Wazuh, Suricata, Elasticsearch/Opensearch, Kibana, Filebeat, Auditbeat, Python, SAML*

- Given the lack of Host-based Intrusion Detection Systems (**HIDS**) and Network-based Intrusion Detection Systems (**NIDS**) in our organization, I took the initiative to introduce Wazuh and Suricata. These well-known open-source solutions offer effective detection of malicious intrusions. I set up the entire system in a containerized environment and developed custom Python scripts for detailed reporting. To improve visualization, I created a user-friendly reporting interface using Django.
- I extensively researched both open-source and paid solutions for Identity and Access Management (**IAM**), Privileged Access Management (**PAM**), and Endpoint Security to enhance user security across our organization.

## Skills

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**Linux Administration, Kubernetes Administration and Security, Python, Ansible, Containerisation(Docker, Containerd), AWS, SIEM, Penetration Testing(VAPT), Networks, Identity and Access Management, SAML, OIDC, AUTH 2.0**

## Certifications

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Certified Kubernetes Administrator(**CKA**), Certified Kubernetes Security Specialist(**CKS**), Certified Ethical Hacker and Penetration Tester(**CEH**), Certified **Windows** and **Linux** Server Administration, Certified **Python** Core HackerRank