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<https://byteportfolio.in>

Education

State University

Masters in Computer Application from Jain University.

May 2024 – May 2026

India, Bangalore

Relevant Coursework

- | | | | |
|-------------|-----------------------|------------------|------------------|
| • AWS Cloud | • Linux Administrator | • Windows server | • Ansible |
| • Jenkins | • Docker | • Kubernetes | • Bash Scripting |
| • NAGIOS | • CI/CD | • Git/GitHub | • GitLab |
| • Grafana | • Python | • Terraform | • Patching |

Experience

Wipro Limited

JAN 2019 – Present

Linux Administrator | Indian AirForce Project

India, New Delhi

- Manage and maintain cloud infrastructure on Azure, AWS, and GCP platforms, ensuring high availability, scalability, and security for various business-critical applications.
- Automated infrastructure provisioning and application deployments using Ansible and Jenkins reducing deployment time by 50%.
- Established and maintained CI/CD pipelines, integrating Git, GitHub, GitLab, Jenkins and DockerHub, resulting in a 40% increase in software delivery efficiency.
- Monitored system performance and using AWS CloudWatch, Prometheus, Nagios, Grafana, and custom monitoring solutions, reducing downtime by 20%
- Created robust scripts that automated essential client/server operations, leading to a reduction in manual processes by over 200 actions per month, ensuring improved stability and performance of the systems utilized.
- Responsible for implementing Cloud Solutions using various AWS Services including EC2, VPC, S3, Glacier, EFS, IAM, AMI, Load balancer(ELB), etc.
- Containerized applications using Docker and orchestrated them with Kubernetes, ensuring consistent environments across development, testing, and production.
- Deployed an application for data extraction using AWS Data Extraction Service API, enabling seamless and automated data retrieval for analysis and reporting.
- Engineered comprehensive system administration protocols for Ubuntu environments, enhancing security policies and backups; implemented changes that protected sensitive data for over 200 users without any breaches.
- Engineered configuration management solutions through targeted scripting in Bash, identified and resolved three major sources of system delays which improved response times during peak operations without compromising service quality or security standards.
- Conducted thorough assessments of resource allocation, optimizing server utilization and reducing downtime by 25%; developed a monitoring dashboard that allowed real-time tracking of performance metrics across all servers.
- Developed comprehensive documentation for system configurations, procedures, and troubleshooting steps; established a centralized resource that enhanced team knowledge sharing and reduced response time to issues by 40% in the first quarter.
- Increased operational efficiency by diagnosing storage performance issues through hands-on troubleshooting with SAN devices; documented findings that led to improved response time for incidents by 35%, ensuring optimal system performance
- Monthly security patching for all Linux-based machines.

Technical Skills

- **Cloud Platforms:** AWS, Azure
- **Containerization:** Docker, Kubernetes, Podman
- **Version Control:** Git
- **AWS Core Services:** EC2, VPC, IAM, ELB, S3
- **CI/CD Tools:** Jenkins, AWS Code Pipeline, GitLab
- **Configuration Management:** Ansible
- **Infrastructure as Code:** Terraform
- **System Performance Monitoring:** Grafana, Prometheus, AWS CloudWatch
- **Scripting and Automation:** Bash, Python
- **Operating Systems:** Linux (RedHat, Ubuntu, Unix), Windows server

Certifications & Licenses

1. Training Certification of RedHat Linux RHCSA Training from KR Network Cloud.
2. Training Certification of Red Hat Ansible (RHCE) Training from KR Network Cloud.
3. Training Certification of AWS Solution Architect Training from KR Network Cloud.
4. Training Completion Certification of Docker & Kubernetes Training from KR Network Cloud.
5. Red Hat Certified System Administrator (RHCSA) on RHEL – 8
6. Training Completion Certification of Hardware, Windows Server and Networking from Jetking.

Projects

1. **CI/CD pipeline using GitLab:**
Description: A robust Continuous (CI/CD) pipeline utilizing GitLab to automate the building, testing, and deployment of containerized apache applications on Amazon Elastic Container Service (ECS). Configured GitLab pipelines for building, testing, reducing manual intervention and accelerating release cycles by 40%.
Technology Used: GitLab+ Jenkins, Docker, apache2, AWS, Bash scripting
Project Link: - <https://www.byteportfolio.in>

2. **Automated CI/CD Pipeline with Jenkins for a Web Application Description:**
Description: Designed and implemented a fully automated CI/CD pipeline to streamline the deployment of a web application hosted on AWS.
Key Contributions:
 - Configured Jenkins to integrate with GitHub Webhooks, enabling automatic pipeline execution on code commits.
 - Used Docker to containerize the application, ensuring consistency across development, staging, and production environments.
 - Automated server provisioning and deployment processes using Ansible, reducing manual effort and errors.
 - Wrote custom Python and Bash scripts to handle deployment logic, log parsing, and error notifications.
 - Deployed the application on AWS EC2 instances, leveraging S3 for storage and configuring IAM roles for secure access.
 - Optimized and secured the application hosting environment using Apache Web Server for high-traffic handling.
 - Implemented automated rollback mechanisms to revert to the previous stable version in case of build failures.

Technology Used: Jenkins, GitHub, AWS (EC2, S3, IAM), Docker, Ansible, Apache2, Python, Bash.
Project Link: - <https://www.study.byteportfolio.in>