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MANHAR SAINI

Member of Technical Staff - II

Dynamic and results-oriented **DevOps Engineer** with a proven track record of optimizing **software delivery pipelines** and ensuring system reliability. Specialized in **Kubernetes orchestration** and **Linux System Administration** and proficient in leveraging **Python for automation**.

KEY SKILLS

- **Kubernetes Administration**
- **Kubernetes Deployment**
- **Kubernetes Cluster Management**
- **Linux System Administration**
- **Docker and Kubernetes**
- **Continuous Integration and Continuous Deployment (CI/CD) pipeline.**
- **JENKINS**
- **SQL**
- **Container Orchestration**
- **PYTHON**
- **A.W.S (ECS, EKS)**
- **Git/GitHub**
- **Terraform**

ACHIEVEMENTS

- **2 SPOTLIGHT AWARDS**: For Quality Product Delivery.
- Excellent Performance and Quality work Feedback from Client.

EDUCATION

- **Bachelor of Technology in Computer Science and Eng. SRM UNIVERSITY: 2015-19**

CAREER CONTOUR

M.T.S-II, MAVENIR SYSTEMS Pvt. Ltd.

Gurugram, Haryana   Feb. 2020 – Present

Job Responsibilities:

- Orchestrated the deployment of containerized applications using **Kubernetes**, **Helm**, and **Docker**, reducing deployment time by 40% and increasing release frequency.
- Created **Kubernetes Deployments** and managed **ReplicaSets** to ensure efficient scaling and management of application instances.
- Implemented **scheduling** strategies for **Pods**, including **labels and selectors**, to optimize resource utilization and workload distribution.
- Configured Kubernetes **taints and tolerations**, **Node Affinity**, and **Resource requirements** and **limits** to control pod placement and optimize performance.
- Implemented and managed **DaemonSets** for deploying system-level agents and **static pods** for specialized workloads.
- Implemented **rolling updates and rollbacks** on **deployments** and **pods** to minimize downtime and ensure seamless application updates.
- Configured applications using Kubernetes **ConfigMaps** and **environment variables**, enabling flexible and dynamic configuration management.
- Deployed **multi-container pods** using Kubernetes **PodSpecs**, orchestrating complex application architectures with ease.
- Developed **scripts** in **Python** to **automate** routine tasks, such as resource provisioning, configuration management, and health checks of application pods.
- Collaborated closely with development teams to define Kubernetes best practices, provide technical guidance, and **troubleshoot** deployment issues.
- Developed **Python scripts** and **automation tools** to streamline deployment processes, reducing deployment time by 30%.
- Implemented **CI/CD pipelines** using **Jenkins** to automate testing and deployment workflows.
- Collaborated with development and operations teams to optimize infrastructure and application performance.
- Supported the monitoring and **troubleshooting of production systems**, ensuring optimal performance and reliability.
- Contributed to the development of Helm charts and Kubernetes manifests to standardize application deployment and configuration management.
- Assisted in the setup and configuration of Kubernetes clusters for development and testing environments, gaining hands-on experience with cluster architecture and components.
- Automated routine tasks and CI/CD workflows using Python scripts and Jenkins pipelines, improving deployment efficiency and reliability.
- Install and Configure Redhat/CentOS **linux** on **virtual environment**.
- Install and Configure Redhat/CentOS **linux** on **AWS** environment using **EC2** instance.
- Perform system updates and install required **repos(rpm and yum)**.
- Create **processes** and schedules (systemctl, ps, top, kill, crontab and at)
- **Monitor system** using commands (top, df, dmesg, iostat 1, netstat, free, etc.)
- **Log** monitor when system have issues.

- Run **system utility** commands (date, uptime, hostname, which, cal, bc, etc.)
- Linux **file system** Management.
- **User Account** Management and **Password** Management.
- Create files and directories at user and root level.
- Utilize **pipes** to manage outputs.
- Everyday use of filters and text processing commands (cut, sort, grep, awk, uniq, wc).
- Compare Files (diff, cmp).
- File system information using commands such as (uname, dmidecode, /etc/redhat-release etc.).
- Switch users and sudo access (su, sudo).
- Monitor user's activity.
- Create critical files with **vi editor**.
- Setup **aliases** for ease of management.
- Manage OS network (ping, ifconfig, netstat, tcpdump, networking config files).
- Manage DNS, NTP, Sendmail etc.
- Creating Soft and Hard links.
- Add disk and create standard **partition**.
- Add Disk and create new **LVM partition** (pvcreate, vgcreate, lvcreate).
- Adding swap space : dd, mkswap, swapon or swapoff.
- **LVM (Logical Volume Management)** Configuration During Install.
- Deploying **Infrastructure as Code (IaC)** using **Terraform.**
- Worked on **A.W.S** Services like **EC2, ECS, EKS** and **CloudFormation**.
- Received the **Spotlight Award** continuously for **two years** in recognition of outstanding contributions and leadership within the **DevOps team**.