**Najeeb Roomi**

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**Summary:**

* Over 10 years of experience in automating infrastructure provisioning using Terraform, CloudFormation, and Ansible, ensuring standardized configurations across development, testing, and production environments
* Extensive experience in Linux system administration, including installation, configuration, patch management, and performance tuning on RHEL, CentOS, and Ubuntu servers.
* Developed and maintained CI/CD pipelines with Jenkins, GitLab CI/CD, and GitHub Actions, integrating automated testing and deployment to streamline software delivery.
* Implemented configuration management with Ansible, Chef, and Puppet, automating server provisioning, updates, and maintaining configuration consistency in diverse environments.
* Managed containerized applications using Docker and Kubernetes, deploying scalable solutions on platforms such as EKS and OpenShift for high availability.
* Monitored system and application performance using Prometheus, Grafana, ELK Stack, and Nagios to ensure optimal server uptime and proactive incident response.
* Administered and optimized Linux environments, including kernel upgrades, LVM management, and RAID configurations to support evolving storage and performance needs.
* Developed automation scripts in Python, Shell, and PowerShell to streamline routine tasks, enhance system provisioning, and maintain system health.
* Secured Linux and cloud environments by implementing IAM policies, security system rules, SE Linux configurations, and user access controls, adhering to industry security standards.
* Configured and managed network services such as DNS, DHCP, VPN, and SSL/TLS to ensure reliable and secure connectivity in cloud and on-premises infrastructures.
* Performed backup and disaster recovery operations using resync, AWS Backup, and Veeam to safeguard data and maintain business continuity.
* Troubleshot complex system issues and managed server migrations (P2V, V2V) involving SAN storage, maintaining uptime during large-scale data center transitions.
* Configured and administered virtualization platforms such as VMware ESXi and KVM, provisioning and managing virtual servers to maximize resource utilization.
* Implemented system hardening techniques through secure configurations, iptables, and regular patching to minimize vulnerabilities and ensure compliance with security policies.

**Technical Skills:**

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| **Operating System** | Red Hat Linux (5/6/7/8/9), Ubuntu (12.04 - 22.04), CentOS, Windows Server (2008-2022), OEL, SUSE Linux, IBM AIX |
| **Cloud Platforms** | AWS (EC2, S3, IAM, Lambda, RDS, CloudFront, ECS), GCP, Azure, VMware, Oracle Cloud |
| **Infrastructure as Code (Isac)** | Terraform, AWS CloudFormation, Ansible, Packer, Chef, Pulomi |
| **CI/CD Pipelines** | Jenkins, GitLab CI/CD, GitHub Actions, Azure DevOps, Bitbucket Pipelines, Code Pipeline, Circle CI |
| **Configuration Management** | Ansible, Chef, Puppet, Salt Stack, Docker Compose |
| **Containerization & Orchestration** | Docker, Kubernetes, OpenShift, Docker Swarm, Helm |
| **Database Management** | MySQL, PostgreSQL, MongoDB, Cassandra, DynamoDB, Redis, Aurora |
| **Monitoring & Logging** | |  | | --- | |  |  |  | | --- | | Prometheus, Grafana, Splunk, AWS CloudWatch, ELK Stack (Elasticsearch, Logstash, Kibana), Nagios, Datadog | |
| **Scripting & Automation** | Python, Shell/Bash, PowerShell, Ruby, Go, JSON, YAML, Groovy |
| **Version Control** | Git, GitHub, Bitbucket, GitLab, SVN |
| **Release & Environment Management** | Jenkins, Docker, Terraform, Helm, Argo CD, TeamCity, Nexus, Artifactory |
| **Cloud Security** | AWS IAM, Azure AD, Vault, Secrets Manager, Key Management Service (KMS), LDAP, RBAC policies |
| **Project Management** | JIRA, Confluence, Trello, Scrum, Kanban, Agile |
| **Web & Application Servers** | Apache, NGINX, Tomcat, WebLogic, Microsoft IIS |
| **Service Management** | |  | | --- | |  |  |  | | --- | | ITIL v4, Incident & Change Management, BMC Remedy, ServiceNow | |
| **Backup & Recovery** | AWS Backup, RDS Snapshot, EBS Snapshot, Veeam, VMware vSphere, Azure Backup |
| **Networking** | DNS, DHCP, TCP/IP, SSH, SSL/TLS, Load Balancing, VPN, HTTP(S), IPsec |

**Professional Experience:**

**Smart things NYC**  **Nov 2023 – Present**

**DevOps Engineer**

**Responsibilities:**

* Automated infrastructure provisioning using Terraform, CloudFormation, and Ansible, standardizing configurations across development and production.
* Developed CI/CD pipelines with Jenkins, GitLab CI/CD, and GitHub Actions, integrating automated testing, deployment workflows, and version control for streamlined software delivery.
* Implemented configuration management with Ansible, Chef, and Puppet, automating server provisioning, updates, and configuration consistency in multi-cloud environments.
* Managed containerized applications with Docker and Kubernetes, deploying on platforms like EKS, OpenShift, and Docker Swarm for scalable microservices architecture.
* Monitored application performance and infrastructure health using Prometheus, Grafana, ELK Stack, and AWS CloudWatch, ensuring high availability and rapid troubleshooting.
* Created automation scripts in Python, Shell, PowerShell, and Ruby to streamline system provisioning, deployment, and maintenance.
* Secured cloud resources using IAM roles, policies, and Secrets Manager, ensuring compliance with RBAC and industry-standard security practices.
* Utilized Git, Bitbucket, and GitLab for version control, enabling collaborative development and efficient change tracking.
* Set up backup, recovery, and disaster recovery strategies with AWS Backup, Veeam, and EBS Snapshots, reducing potential downtime and data loss.
* Configured and optimized networking protocols like DNS, DHCP, VPN, and SSL/TLS, ensuring secure and reliable connectivity within cloud environments.
* Designed and managed monitoring dashboards in Datadog, CloudWatch, and ELK Stack, facilitating proactive incident response and operational transparency.
* Integrated project management tools like JIRA and Confluence, enabling efficient tracking of development tasks, issue resolution, and cross-functional collaboration.
* Created infrastructure as code (Isac) templates to deploy multi-tier applications across AWS and GCP regions, supporting high availability and fault tolerance.
* Utilized Docker Compose and Helm for container orchestration, simplifying multi-container application deployment and management in Kubernetes clusters.
* Enhanced DevOps processes through continuous integration, automated testing, and infrastructure scalability, supporting agile development and fast release cycles.

**Optum NYC**   **April 2022 – Oct 2023**

**Linux/Cloud Engineer**

**Responsibilities:**

* Managed installation, configuration, and maintenance of packages, patches, and RPM updates on RHEL servers to ensure systems remained secure and up to date.
* Configured and administered LVM on RHEL 7, including creating and resizing logical volumes to support evolving storage needs.
* Implemented and managed Krump for kernel crash analysis on Red Hat Linux servers to improve system reliability and reduce downtime.
* Managed and monitored cloud infrastructure across AWS services such as EC2, S3, RDS, and VPC, including scaling, backups, and patch management using the AWS CLI.
* Developed and deployed Ansible playbooks and roles for comprehensive configuration management and automated patch deployment across multi-server environments.
* Provisioned and configured virtual machines on ESXi 5.x, including resource allocation (CPU, memory, and disk space), template creation, and VM cloning to streamline deployment processes.
* Conducted kernel upgrades and storage migrations on RHEL 7 servers, ensuring minimal service disruption during maintenance windows.
* Migrated Linux servers with SAN attachments, handling shutdowns, startups, and REIP processes as part of seamless data center migrations.
* Worked on Solaris and AIX systems, including patch management, LVM administration, and performance tuning, ensuring high availability and system integrity.
* Configured and maintained Veritas Volume Manager and Veritas Cluster Server (VCS) environments, including creating, resizing, and troubleshooting file systems, and managing service group operations.
* Integrated DevOps practices using Jenkins for continuous integration and deployment (CI/CD), configured Jenkins nodes for load distribution, and automated build processes with Jenkins and Maven. Conducted regular system backups using resync, supporting data integrity and business continuity.
* Automated scheduled tasks on Linux servers with Anacreon, optimizing maintenance routines and minimizing manual intervention.
* Offered round-the-clock support through various communication channels, ensuring quick responses to client needs and maintaining satisfaction.
* Delivered tool usage presentations to enhance team understanding of system performance and efficiency optimization techniques.
* Revised and maintained technical documentation, ensuring accurate content for system configurations and support procedures.
* Established user accounts and permissions, maintaining strict control over access to uphold system security and data protection.
* Implemented iptables security system rules and hardening practices to reinforce system security against potential threats.

**T-Mobile Plainfield, NJ Sep 2020 – Mar 2022**

**Linux/Cloud Engineer**

**Responsibilities:**

* Implemented and managed Red Hat Linux (RHEL 5.x–8.x) and SUSE (10.x–12.x) systems on VMware environments using Kickstart and VM templates to ensure rapid, consistent deployments.
* Installed, configured, and managed Red Hat Satellite Server for automated patching, provisioning, and RHEL lifecycle management.
* Configured and maintained SUSE Manager for efficient SUSE Linux patching, provisioning, and server management.
* Migrated VMs between datastores using VMware vMotion and conducted large-scale storage migrations to optimize resource allocation.
* Performed resource management for VMs, including CPU, memory, and disk expansions, to maintain optimal performance and scalability.
* Added hosts to vCenter and managed virtual machines to streamline infrastructure management and monitoring.
* Fine-tuned performance settings across virtual environments to achieve optimal system efficiency and resource utilization.
* Deployed and managed AWS EC2 instances, configured VPCs, IAM policies, and integrated cloud-based RHEL Linux systems.
* Automated infrastructure provisioning and management using Terraform to create and maintain AWS cloud environments.
* Implemented and maintained snapshots and recovery procedures in both AWS and VMware, ensuring data protection and business continuity.
* Installed and configured application servers such as Tomcat (6.x/7.x) to support high-demand environments.
* Deployed RabbitMQ for messaging and queue management across multiple applications and platforms.
* Supported SAP HANA-based environments, ensuring smooth integration and performance.
* Developed and executed custom scripts for OS patching and system updates in AWS environments, improving security and compliance.
* Managed AIX migrations from 7.1 to 7.2 using nomad and coordinated VIOS migrations to maintain operational stability.
* Led SAN storage migrations from VNX to VMAX, enhancing data storage capacity and performance.
* Deployed and configured automation tools like Ansible, BladeLogic, and Chef to streamline configuration management and deployments.

**Devexperts Jersey City, NJ Jan 2018 – Aug 2020**

**Linux Administrator**

**Responsibilities:**

* Deployed and managed RHEL and CentOS servers, overseeing provisioning, troubleshooting, and system performance optimization.
* Implemented OS patch management across platforms, adhering to scheduled updates for improved system security and stability.
* Configured and administered ES Xi servers and virtual machines through vSphere and vCenter, supporting virtualized infrastructure needs.
* Managed user accounts and groups, establishing SSH Public Key authentication for secure, automated access and streamlined logins.
* Resolved memory allocation issues by managing swap space and integrating hot-swappable devices, enhancing server uptime and reliability.
* Developed automation scripts in Bash to streamline routine tasks like backups and activity reporting, boosting system efficiency.
* Performed Linux server hardware and OS troubleshooting, identifying and resolving operational issues promptly.
* Configured Logical Volume Management (LVM) to handle dynamic storage needs, creating and extending logical volumes as required.
* Enforced server hardening and optimized system performance by adjusting kernel parameters, reinforcing system resilience.
* Implemented iptables for ssecurity system configuration and system hardening, securing Linux environments against unauthorized access.
* Controlled user access, file permissions, and account policies, ensuring system integrity and adherence to security best practices.
* Responded to server downtime alerts using HP Ilo/Dell iDRAC for efficient remote recovery and service restoration.
* Installed and configured RAID and clustering solutions to enhance storage redundancy and data availability.
* Improved network performance and redundancy through channel bonding techniques, ensuring high availability and load balancing.
* Configured and managed NFS shares with Auto Mount, resolving boot and connectivity issues, and facilitating seamless storage access.

**UPS Mahwah, NJ April 2015 – Dec 2017**

**Linux Operations Engineer**

**Responsibilities:**

* Automated daily configuration and service tasks in Linux environments using Ansible, streamlining infrastructure management and service deployment.
* Developed Ansible playbooks to standardize application installations, patching, and storage tasks, enhancing operational consistency.
* Optimized virtual machine performance on VMware ES Xi by fine-tuning resource allocation and implementing DRS and HA features for high availability.
* Deployed and configured EC2 instances with security groups and IAM roles using AWS CloudFormation, ensuring secure and compliant infrastructure.
* Managed S3 bucket policies and implemented AWS Glacier for scalable storage and backup solutions within cloud environments.
* Monitored AWS infrastructure with CloudWatch, setting up alarms and tracking EC2 instance metrics to maintain system health and uptime.
* Utilized Git and GitLab for version control, collaborating efficiently on code changes and ensuring streamlined code management.
* Built and deployed containerized applications using Docker, configuring Docker Compose and Docker files for consistent and efficient deployment workflows.
* Configured Kubernetes clusters and created YAML configurations for pods, replica sets, and services to support scalable, production-ready applications.
* Conducted Docker networking setup, using bridge, overlay, and host modes to enable secure communication across containers and external networks.
* Provided technical support through BMC Remedy, handling tickets, incidents, and change requests to maintain seamless operations and service quality.
* Monitored system performance with Nagios and used Splunk for in-depth log analysis, conducting root cause analysis to resolve incidents effectively.
* Integrated CI/CD pipelines with Jenkins and GitLab CI/CD, enabling automated testing and deployments for improved delivery speed and reliability.
* Implemented cloud security best practices with AWS IAM policies and Secrets Manager, aligning with RBAC standards for secure access control.
* Applied backup and disaster recovery strategies using AWS Backup and EBS Snapshots, ensuring minimal downtime and data protection.

**Qualification:- Bachelor’s from Federal Board of Islamabad in Computer Science.**