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**Summary:**

* A talented and driven **Sr. AWS/DevOps engineer** with **10 years** of experience in automating and optimizing the build, deployment, and release cycle of web applications.
* Experience in Installing, configuring and maintaining IBM Web Sphere & Web Logic Application Servers, Nagios and Chef.
* Application Deployments & Environment Linux configuration using Chef, Saltstack and Ansible.
* Responsible for Installing of OS on Several hundred Servers using Ansible.
* Deployment and System build configuration using Puppet. Strong exposure to both AWS and Azure cloud platforms.
* Experience in System Administration, System Builds, Server builds, Installs, Upgrades, Patches, Migration, Troubleshooting, Security, Backup, Disaster Recovery, Performance Monitoring and Fine-tuning on UNIX Red Hat Linux Systems.
* Have good hands-on experience on some of the monitoring tools like Nagios, Splunk and Zabbix.
* Security, Backup, Disaster Recovery, Performance Monitoring and Fine tuning on UNIX and Red Hat Linux Systems.
* Experienced in Python and Shell scripting to automate the provisioning and deployment. Implemented continuous integration using UDeploy.
* Developed tools to automate manual tasks using shell scripting, Python and integrated them in CI/CD pipeline through Jenkins.
* Worked with Ansible playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment.
* Ability in execution of XML, BASH, Shell Scripts, Perl Scripts, and Python Scripts.
* Integrated Jenkins with various DevOps tools such as Nexus, SonarQube, and Chef etc.
* Strong experience as a LINUX/UNIX System Administrator and Production Support of various applications on SUN Solaris, Red Hat Linux, and Windows environment.
* Host -level troubleshooting of storage using EMC tools as well as nave Red Hat Enterprise Linux 5/6/7/8 multipath.
* System administration including configuration of server-based systems, system installation and configuration fundamentals of security, and installing third party software
* Resolve network, software and hardware issues with newly built servers.
* Implemented CI/CD automation process using various tools like Jenkins, and Puppet to ensure shortened deployment cycles.
* Day to day job included but not limited to handling Tickets, Monitoring, Troubleshooting and maintenance.
* Deployed Docker Engines in Virtualized Platforms for containerization of multiple apps.
* Worked on deployment to Datacenters, AWS and Azure platforms

**Technical Skills:**

* **Cloud Orchestration**: AWS Systems Manager, Terraform, AWS CloudFormation, AWS Lambda, Ansible
* **AWS Platform**: VPN, VPC, Route53, Route 53 Resolver, EC2, ELB, AWS CloudFormation, AWS Lambda, AWS Systems Manager, S3, RDS, SNS, SQS, SES, Trusted Advisor, CloudFront, AWS Auto Scaling, CloudWatch.
* **Identity & Access Management**: AWS Organization, AWS IAM, Active Directory, OKTA, AWS Secrets Manager, Vault etc
* **Containerization**: AWS ECS, AWS EKS, Docker, Kubernetes etc.
* **Image & Patch**: AWS SSM Patch Manager, AWS Golden AMI Pipeline, Docker
* **Governance & Compliance**: AWS Config Rules, AWS Organization, AWS Control Tower, AWS Trusted Advisor, AWS Well Architected Tool, AWS Budgets, etc.
* PKI for secure online transactions
* **Security**: AWS Guard Duty, AWS Shield, AWS Inspector, AWS SSM Parameter Store, WAF etc.
* **Monitoring & Event Management**: AWS CloudWatch (Events & Logs), AWS SNS, AWS S3, Splunk, New Relic, PagerDuty, Prometheus
* **Application Delivery**: GitHub, GitLab, Bitbucket, Jenkins, GitHub Actions, AWS Code Deploy, AWS Code Pipeline, AWS Code Commit
* Micro Services: Using Docker and Kubernetes (EKS and ECS)
* **Data Protection**: AWS Certificate Manager, AWS KMS, Snapshot Lifecycle Manager, AWS CloudHSM
* Intergrade AWS accounts with OKTA and MFA, CIAM

### **Migration**: Database Migration Service, Server Migration Service, Cloud Endure, CART

* **Database**: DynamoDB, RDS, MongoDB MySQL, Postgres, Amazon Aurora

### **Python**: Python Boto3 Modules, Automation

* **Communication**: Confluence and Slack, Box

# Professional Experience:

**Sr. Devops Engineer (Consulting) February 2021 - Present**

**Bank of America - Brooklyn Center, MN**

* Design for high availability and business continuity using self-healing-based architectures, fail-over routing policies, multi-AZ deployment of EC2 instances, ELB health checks, Auto Scaling, and other disaster recovery models.
* Investigated Splunk alerts and resolved issues using kubectl and other Kubernetes utilities
* Used AWS system manager to automate operational tasks across AWS resources
* Automated the process of deleting empty log streams and notifying for log group with never expire tags
* Conducted regular monthly cleanup of unused resources in lower and higher environments
* Automated the process of monitoring instances by leveraging Lambda that monitors instances that did not compile with company standard and sending weekly notification for remediation
* Managed provisioning of AWS infrastructures using Terraform, CloudFormation and Ansible
* Used Jira to plan, track, support and close requests, tickets, and incidents
* Develops business relationships with other department leaders to integrate security activities and to ensure successful implementation and support of security projects.
* Leverage Kubernetes for docker container orchestration.
* Architect a secure infrastructure with a Client VPN Endpoint to allow users to access resources in AWS
* Used PKI for exchange of digital information securely
* Shipped CloudWatch logs to Splunk using Kinesis firehose
* Leveraged Docker to build, test and deploy applications in different environments
* Monitoring from end-to-end view of runtime systems cpu, bandwidth, disk space and log files using New Relic
* Leveraged AWS Systems Manager Automation to create and execute workflows or runbooks for common operational tasks.
* Collaborate with enterprise and application architects to implement new solutions and improve existing solutions
* A strong understanding and experience working with automated deployment orchestration tools such as Terraform, CloudFormation and Jenkins.
* Partners with Technical Leads and other IT teams to formalize, adopt, and ensure adherence to IT standards and procedures.

**AWS Devops Engineer April 2016 - January 2021**

**The Library Corporation - Denver, CO**

* Configured CI/CD Pipelines using Jenkins integrated with Nexus for antifactory and SonarQube for code quality check. Pipeline was triggered by a Github webhook
* Configured CI/CD Pipelines using Docker integrated with Github Actions and ECR for Image Repository and Helm chat for deployment in EKS Cluster.
* Provision secured resources in VPC subnets with security groups and NACLs using Ansible
* Implemented security best practices in AWS including multi-factor authentication, access key rotation, role-based permissions, enforced strong password policy, configured security groups and NACLs, S3 bucket policies and ACLs, etc
* Identify opportunities for shared solutions and leverage shared solutions in architecture solutions, to increase efficiency and minimize enterprise redundancy.
* Design and document disaster recovery plans and participate in testing to ensure the environment is recoverable within predetermined Service Level Agreements (SLA).
* Utilized AWS Systems Manager Patch Manager to automate the process of applying patches and updates to your instances.
* Provisioning and management of applications in both virtual and cloud infrastructures (AWS and Openstack)
* Contribute to RFP, RFI and tender requests with engineering/design specifications, product and service descriptions
* Part of team that migrated databases and servers from on-prem to the cloud using DMS and CloudEndure
* Setup a new AWS Organization environment from scratch, with preventive and detective guardrails.
* Implemented SCP that restricted AWS service to a selected list of regions.
* Collaborate with Enterprise Architects to evolve architecture principles, policies, and best practices.
* Conducted regular monthly cleanup of unused resources in lower and higher environments
* Designed for high availability and business continuity using self-healing-based architectures, fail-over routing policies, multi-AZ deployment of EC2 instances, ELB health checks, Auto Scaling, and other disaster recovery models.
* Optimized cost through reserved instances, selection, and changing of EC2 instance types based on resource need, S3 storage classes and S3 lifecycle policies, leveraging Auto scaling, etc
* Leveraged Python Boto3 to run Multiple Lambda functions and Auto Remediations
* Leveraged EC2 Lifecycle Manager to create snapshots of EBS Volumes on scheduled intervals for backup and define a retention period as a cost-saving measure
* Setup and configured logs files for detail monitoring and alerts notification in Splunk
* Setup AWS accounts with security using CIAM, OKTA and MFA
* Tagged AWS resources and developed a methodological standard for tagging of individual resources for audit, tracking, and cost analysis.
* Used AWS Systems Manager Inventory to collect metadata and generate reports about the instances and applications.
* Utilized AWS Systems Manager Session Manager to establish secure and auditable connections to your instances without the need for SSH keys or opening inbound ports.
* Configured lifecycle configuration rules on an S3 bucket to move data between S3 storage classes for easy accessibility, archiving, and or cost optimization.
* Provision secured resources in VPC subnets with security groups and NACLs using Terraform
* Supports the Enterprise sales team by acting as a technology liaison with the customer in a pre-sale support capacity
* Develop value-add technology solutions with network services for potential customers
* Evaluate planned and in-flight projects to identify impacts to the current state architecture.
* Present features, benefits and value of the Shaw Business Solution in customer engagements
* Integrate qualifying and evaluating tools/resources into opportunity lifecycle
* Microsoft Visio Software proficiency is an asset.
* Maintain ongoing relationships with technical contacts of key Enterprise accounts

## Devops Engineer June 2013 - Feb 2016

**Securian Financial, St Paul, MN**

* Experience working with the RedHat Openshift enterprise which allows developers to quickly develop, host and scale applications in a self-manage cloud environment.
* Increase application availability by controlling platform ecosystem DNS with to Openshift container platform.
* Worked with RedHat OpenShift Container Platform for Docker and Kubernetes. Used Kubernetes to manage containerized applications using its nodes, ConfigMaps, selector, Services and deployed application containers as Pods.
* Created a Continuous Delivery process to include support building of Docker Images and publish into a private repository- Nexus v3.
* Managed local deployments in Kubernetes, creating local cluster and deploying application containers.
* Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured Kubernetes.
* Created and managed cloud VMs with AWS EC2 command line clients and AWS management console.
* Implemented AWS solutions using E2C, S3, RDS, EBS, and Elastic Load Balancer, Auto scaling groups and optimized volumes, EC2 instances.
* Integrated AWS Dynamo DB using AWS Lambda to store the values the items and backup the Dynamo DB streams.
* Experienced in AWS Elastic Beanstalk for app deployments and worked on AWS Lambda with Amazon kinesis.
* Utilized AWS Systems Manager OpsCenter and AWS Systems Manager Explorer to gain insights into the operational data and monitor the health, performance, and availability of AWS resources.
* Integrated AWS Systems Manager with other AWS services to enhance the management capabilities.
* Used IAM to create new accounts, roles and groups.
* Used JIRA as defect tracking system and configured various workflows, customizations and plugins for JIRA bug/issue tracker, integrated Jenkins with JIRA, GitHub.
* Configured S3 versioning and lifecycle policies to backup files and archive files in Glacier

**Education:**

University of Buea - Bachelor of Science in Information Technology | 2013