**Name: Sagar Khadka**



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**AWS DevOps/Cloud Engineer**

**Professional Summary:**

* **Certified IT professional with more than 7+ years of experience in Installation, Configuration, Upgrading, Support and Maintenance of various platforms of Linux like RHEL, SUSE, CentOS, Debian, Ubuntu, Unix platforms like Sun Solaris, IBM AIX and Windows Servers.**
* **Experience in DevOps and Cloud environment, where worked on tools for configuration manager (Puppet/Chef and Ansible), CI/CD (Jenkins), version control (Git) as well as experience in Cloud IaaS with AWS and AWS Cloud Administration including services such as S3, EC2, VPC, EBS, AMI, ELB, SNS, RDS, IAM, Auto Scaling, Route 53, CloudFront, CloudTrail and OPS Work.**
* Experienced in working on DevOps/Agile operations process and tools area (Code review, unit test automation, Build & Release automation, Environment, Service, Incident and Change Management)
* Experience in creating DevOps strategy in a mix environment of Linux (RHEL, CentOS), Windows along with creating and implementing a Cloud strategy based on Amazon Web Services (AWS).
* Managed Ubuntu, Linux and Windows virtual servers (Rackspace and AWS EC2) with Ansible, Chef (configuration Management tool) using Git.
* Expertise in Amazon Cloud Services: IAM, EC2, S3, EBS, VPC, ELB, RDS, Dynamo DB, Auto Scaling, Security Groups.
* Hands-on experience in working with Terraform to provision a data center infrastructure along with AWS.
* Expertise in automation of the continuous integration and deployment, with the help of AWS services such as Elastic Beanstalk, Lambda, Code Commit, Code Deploy, Code Pipeline, CloudFormation,
* Experience in Cloud automation using AWS Cloud Formation templates and Terraform.
* Experience working on bash/Perl, ruby and python scripts to perform change control automation.
* Expertise in source code management using GIT, CVS, SVN and well versed in code management using Repositories.
* Experience working on Migration from a physical data center environment to AWS.
* Proficient in deployment of JAVA Applications using JBoss/Oracle, WebLogic and Tomcat Application Server.
* Good understanding of OpenShift platform in managing Docker containers and Kubernetes Clusters.
* Experience working on Build, Deploy and Release of products built on Java, J2EE using technologies such as SVN, CVS, Ant, Maven, Gradle, Artifactory, Hudson, Jenkins, Web logic, Web sphere, Oracle, OSB, Perl, Python and Shell scripts, Terraform.
* Experience in building pipeline for application versions, using Jenkins Continuous Integration.
* Experience in using Nagios and Splunk for monitoring teams to identify and troubleshoot issues
* Experience in working on container management and orchestration tool like Docker and Kubernetes.
* Experienced in Cloud automation using AWS Cloud Formation templates and migration to Amazon web Services from Datacenter.
* Worked on JIRA, ticketing tools for handling and generating tickets.
* Knowledge in using Nexus and Artifactory Repository Managers for Maven builds.

SKILLS

**Technical Skills:**

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| --- | --- |
| **Amazon Web Services** | EC2, ELB, VPC, RDS, IAM, Cloud formation, S3, Cloud Watch, Cloud Trial, SNS, SQS, SWF, EBS, EMR, Dynamo DB, , Elastic Beanstalk, Route53, Aurora. |
| **Azure** | Azure key vault, App Services, ARM Templates, Storage Blobs, VSTS,VPN gateway. |
| **SCM Tools** | Subversion, Bit Bucket, GIT, Clear Case. |
| **Build tools** | Ant, Maven, Gradle. |
| **Continuous Integration Tools** | Jenkins, Bamboo. |
| **Configuration Management Tools** | Chef, Ansible, Puppet. |
| **IAC Tools** | Terraform, Cloud Formation |
| **Containers** | Docker, Kubernetes. |
| **Virtualization** | Oracle Virtual Box, VMware, Vagrant. |
| **Scripting languages** | Shell, Python, JAVA, NodeJS, Bash. |
| **Databases** | Oracle, MS SQL Server, MySQL, NoSQL, PostgreSQL. |
| **Operating System** | Linux (Red hat, Centos, Ubuntu), Windows |
| **Monitoring Tools** | Splunk, Nagios, ELK, Prometheus, Grafana, AWS CloudWatch |

**Certification:**

**AWS solution Architect – Associate**

**Validation Number DZ4FJRJ1GNE412WC**

**Validate at:** [**http://aws.amazon.com/verification**](http://aws.amazon.com/verification)

**Project Summary:**

**Client: Epsilon, Dallas, TX**

**Duration: Aug 2020 – Current**

**AWS DevOps/Cloud Engineer**

* Supported AWS cloud instance such as management & configuration of various AWS products.
* Performed all the Linux operating system management, patch management, configuration management on the Linux instances in AWS
* Worked on AWS cloud computing platforms and its versatile scalability such as VPC, EC2, ELB, IAM, S3, auto scaling, code deploy, RDS, Lambda, custom monitoring with cloud watch.
* Worked on AWS in creation of Autoscaling Group and lunch configuration
* Configured an AWS Virtual Private Cloud (VPC) and Database Subnet Group for isolation of resources within the Amazon RDS Aurora DB cluster.
* Work in Core Java, Messaging (JMS), XML, XSLT or JAXB, Web API.
* Work with databases such as SQL, MS SQL, MySQL, NoSQL.
* working Agile environment with incremental code deployments (Agile, Jira, WorkFront, Scrum/Kanban/SAFe, etc.)
* Orchestrated and migrated CI/CD processes using Cloud Formation, terraform templates, and Containerized the infrastructure using Docker setup in AWS and Amazon VPCs.
* Wrote the Terraform scripts to install the Kubernetes cluster and its dashboard on to the AWS.
* Managed all existing servers and automated the build/configurations of new servers by integrating Ansible to manage and integrated Ansible with Jenkins, GitHub, and Maven.
* Wrote scripts on Python, shell and bash and modified existing scripts on automations.
* Wrote deploy hooks/scripts for code deploy to deploy code from Git using Jenkins to AWS EC2 instances and also have written multiple Jenkins jobs in bash
* Created and hardened an Amazon Machine Image (AMI) and installed google authenticator.
* Designed, configured and deployed Amazon Web Services for a multitude of applications utilizing the Amazon Web Services focusing on high-availability, fault tolerance and auto-scaling.
* Wrote Docker files and created images out of it as well as pulling and pushing Docker images to various environments from Docker Hub Registry.
* Deployed Dockerized Applications in Kubernetes cluster using Helm Charts.
* Worked on setting-up continuous deployment pipelines using Jenkins across multiple Kubernetes clusters to stress the clusters with new infrastructure tools for Kubernetes in development environments. Automated these pipelines through Jenkins using pipeline script.
* Installed Jenkins on AWS EC2 instance and configured to run all the application cron jobs to run through Jenkins server.
* Worked with GIT to store the code and integrated it into Ansible Tower to deploy the playbooks.
* Worked on the concept of GIT cloning to create GIT repository.
* Developed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB, Security Groups.
* Used Ansible for central management of Linux configuration files and software package management.
* Managed Amazon Web Services (AWS) infrastructure with automation and configuration management tools Ansible.
* Configured Jenkins pipeline jobs workflows to improve reusability for building pipelines.
* Configured and managed Apache Web Server on Linux for web based applications using REST/SOAP, Apache and WebLogic.

**Client Name: Globe life, McKinney, TX**

**Date Jan 2019 – Aug 2020**

**Title: AWS DevOps/Cloud Engineer**

Responsibilities:

* Worked under Agile Methodology to reach organization goals.
* Built application & database servers using AWS EC2, created AMIs for backup and used RDS for Oracle DB.
* Managed Linux and Windows virtual servers on AWS EC2 and supported application on Cloud.
* Maintained high availability, Elasticity and scalability to the applications using Auto Scaling and Elastic Load Balancer to the EC2 instances
* Implemented Ansible Playbooks for Deployment on Build on internal Data Centre Servers. Also re-used and modified the same Ansible Playbooks to create a Deployment directly into Amazon EC2 instances.
* Worked on Kubernetes, for deploying and managing of Docker Containers as a container orchestration tool.
* Installed and configured Ansible Configuration Management Tool with specific client requirement such as Create user/remove user, Install /Remove packages and package updates, Configure multi nodes.
* Used Cloud Formation templates to build Red hat Linux servers and applied security policies for hardening the server based on the company policies.
* Worked on Cloud automation using Terraform and AWS Cloud Formation templates.
* Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation
* Integrated Jenkins with Nexus, Ansible, and used CI/CD system of Jenkins on Kubernetes container environment, utilizing Kubernetes and Docker for the runtime environment for the CI/CD system to build and test and deploy.
* Virtualized the servers using the Docker for the test environments and dev-environments needs.
* Setup monitoring and alerting mechanisms for AWS using CloudWatch to monitored Linux server for CPU Utilization, Memory Utilization, and Disk Utilization for performance monitoring and private datacenter infrastructure
* Transitioned Infrastructure from private data center to Cloud (AWS).
* Built a new CI pipeline for testing and deployment automation with Docker, Jenkins, and Ansible.
* Created Continuous Build Process using Jenkins as Continuous integration tool.
* Implemented new projects builds framework using Jenkins as build framework tools.
* Deployed application using Jenkins server and to troubleshoot build and release job failures, resolve, work with engineers on resolution.
* Worked on JIRA to create tickets, storyboarding, pulling reports from dashboard, planning sprints.
* Coordinated/assisted developers with establishing and applying appropriate branching, labeling/naming conventions using GIT source control.
* Used Nagios as an infrastructure monitoring tool to identify and resolve infrastructure problems before they affect critical processes.
* Used Perl, shell, Ruby, Python scripting for Applications, Backups and scheduling.
* Supported 24x7 production computing environments and providing on-call and weekend support.

**Client: AIG, Ft Worth, TX  
 Duration: Jul 2016 – Dec 2018**

**AWS DevOps/Cloud Engineer**

Responsibilities:

* Deployed and monitored scalable infrastructure on Amazon web services (AWS)& configuration management using puppet and Ansible.
* Provisioned tasks-based roles on Ansible playbooks for parallel deployment on multiple servers and provisioning of infrastructure with custom build plugins and modules
* Worked with projects using OpenShift client for Jenkins builds for various configurations.
* Provisioned AWS resources like EC2, VPC, EBS, AMI, S3 buckets, creation of subnets, and all other operational tasks using Ansible.
* Provisioned entire on premise infrastructure on AWS cloud using CloudFormation scripts for high availability and fault tolerance.
* Setup a Continuous Delivery pipeline using Ansible playbooks, which consists of sonar Server and Jenkins, the Infrastructure to run these packages, and various software components like Maven.
* Developed and supported the RHEL based infrastructure in the cloud environment.
* Migrated on premise Oracle database to AWS RDS using S3 and AWS VPC Peering.
* Supported AWS cloud instance, including management and configuration of various AWS services.
* Worked on creating EC2 instances, updating security group and IAM policies.
* Configured the entire existing stack in service-oriented architecture using Red Hat OpenShift’ s Kubernetes platform.
* Worked with Ansible and CloudFormation scripts to build the base infrastructure with all necessary AWS services like VPC and EC2 for master/infra and app nodes.
* Performed Shell and Perl scripting for automotive tasks in Linux and wrote scripts on Python.
* Created S3 bucket ad updated the bucket policies, versioning and lifecycle. Setup static web content on S3 bucket.
* Used Jenkins to test the workflow of retrieving and running puppet modules from GitHub onto different test slaves.

**Client Name: CVS Health, Woonsocket, RI**

**Date: Jun 2014 – Jul 2016**

**Title: AWS DevOps Engineer**

**Responsibilities:**

* Setup and Configured Red Hat Satellite/Kickstart Servers for Red hat Enterprise Linux 5/6 installs and RHN Push Updates.
* Installed and configured several hundred Red hat Enterprise Linux 5/6 Servers in both Physical Blade and VMware ESXi Virtual Environment residing on HP Blades as required for UAT/Production.
* Worked with Puppet Enterprise and Puppet Open Source. Installed, configured, upgraded and managed Puppet Master, Agents & Databases.
* Worked on AWS cloud and its services like EC2, S3, RDS, Auto scaling, AMI, IAM, Lambda.
* Updated and wrote custom modules and manifests using Puppet DSL to be deployed across various deployment architectures.
* Configured Hiera files, managed and created roles, profiles for various technology stacks in Puppet.
* Changed root password on all servers from centralized Puppet master server.
* Assembled Puppet Master, Agent, and Database servers on multiple RHEL Platforms.
* Created profiles in Puppet and pushed them across all the servers in UNIX and Linux environment.
* Deployed and Configured Red Hat Satellite Server 5.4, including creating maintaining any customized kickstart configuration channels to deploy RHEL.
* Maintained and deployed High End applications developed in JAVA using JBoss, Oracle WebLogic and Tomcat Application Server.
* Provided support to the JAVA development team to help develop JAVA based applications.
* Managed a large ESX farm using Virtual Infrastructure client and used the said Virtual Infrastructure client to configure and support the ESX farm.
* Provided 24/7 support in an environment to maintain maximum uptime and ensure server reliability using monitoring products such as Nagios,
* Wrote and Deployed Bash/Perl scripts using crontab to perform daily backups, audit collection, and push new changes out to manage and maintain consistency across Red hat Enterprise Linux servers.
* Installed and updated packages using custom YUM Servers/repositories, Red hat Satellite Server.
* Configured and Administered NFS, DNS, NIS, NIS+ and LDAP on RHEL server environment.
* Configured and deployed patches, upgrades, bug fixes on both physical and virtual Red hat Linux servers using Satellite Server.
* Installed, Configured and Administered VMware ESXi /Virtual Center, VCenter Servers.
* Configured and installed VMware tools on the custom built VM's.

**EDUCATION**

**Bachelor’s in Science, Major in Computer Science at Sam Houston State University, Huntsville, Texas.**