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Cloud Dev-Ops Engineer

**Professional Summary**:

Results-driven and detail-oriented Cloud Dev-Ops Engineer with over 5 years of experience in designing, implementing, and optimizing AWS cloud solutions. Adept at crafting scalable and resilient architectures to solve complex business challenges, I bring a wealth of technical expertise in AWS services, multi-cloud environments, and application modernization. Proven track record in implementing DevOps practices, automation, and CI/CD pipelines for efficient application delivery.

**TECHNICAL SKILLS**

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| --- | --- |
| **Cloud Platforms** | **AWS, Azure, OpenStack, PCF, SalesForce** |
| **Configuration Management Tools**  | **Ansible, Chef, Puppet, Saltstack, Terraform** |
| **CI /CD Tools**  | **Jenkins, Bamboo, TeamCity, Hudson, Octopus** |
| **Build Tools** | **Maven, ANT, Gradle** |
| **Containerization Tools** | **Docker, Kubernetes, Mesos, OpenShift** |
| **Version Control Tools** | **GIT, Bitbucket, SVN** |
| **Logging & Monitoring Tools** | **Nagios, Splunk, ELK, Datadog, Prometheus, New Relic**  |
| **Scripting & Programming Languages** | **Python, Bash/Shell, PowerShell, Ruby, Java, .Net, APEX** |
| **Databases** | **Oracle, DB2, MySQL, NoSQL (MongoDB, DynamoDB, Cassandra),**  |
| **Application/Web Servers** | **Apache Tomcat, NGINX, JBoss4.1, WebSphere, 9.x/10.x, Weblogic** |
| **Operating Systems** | **Linux, Windows, Solaris, Ubuntu, RHEL, Centos** |
| **Virtualization Platforms** | **Oracle VirtualBox, Vagrant, VMware vSphere, Hyper-V** |
| **Bug Tracking Tools** | **JIRA, Bugzilla, Remedy, HP Quality Center, IBM ClearQuest, Mingle** |

**Education**:

* Masters in Computer Science from University of Bridgeport(2023)
* Bachelores in Electronics and Communication from JNTU-Hyderabad(2019)

**Certifications**:

* **AWS Certified** Solutions Architect - Associate
	+ - Validation number: SW7JWQ014MF11030
* **Microsoft Certified:** Azure Administrator Associate
	+ - Certification number: 5EA1CC-F6J3CF

**Cloud Expertise:**

* Experience in dealing with Windows Azure Services - **Virtual Networks, Virtual Machines, Resource Groups, Express Route, VPN, Load Balancing, Data Lake, Azure Functions, Auto-Scaling, Azure Monitor, Traffic Manager.**
* Expertise in working with **Terraform** key features such as Infrastructure as a code, Execution plans, Resource Graphs, Change Automation and extensively used Auto scaling launch configuration templates for launching amazon **EC2 instances** while deploying **Applications**.
* Experience in maintaining **Amazon Web Services** and Architecting Legacy Data migration projects such as **Teradata** to **AWS Redshift migration, on-premises to AWS cloud Migration.**
* Experience in strategy and practical implementation of **AWS Cloud services** which **include EC2, EBS, S3, S3 Glacier, Storage Gateway, VPC, Route 53, Snowball, Direct connect, Storage Gateway, CloudFormation, Dynamo DB, RDS, ELB, EMR, ECS, Cloud Front, OpsWorks, Elastic Cache, Cloud Watch, CloudTrail, Kinesis, Redshift, Lambda, AWS Elastic Beanstalk, SNS, SES**
* Handled several **Docker** components like **Docker** **Engine,** Hub, Compose and **Docker Registry** and experience with **Docker** container service and Dockerized applications by creating **Docker** **images** from **Dockerfile** and running them to create the **Docker containers** and **Docker Swarm**.
* Experience creating pods and clusters in **Kubernetes** and deploy those using **Openshift**. Good understanding of **Open shift** platform in managing **Docker** containers and **Kubernetes** Clusters.
* Extensively used **Kubernetes** charts using **Helm** and created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and releases of **Helm** packages.
* Expertise in using build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as jar, war and ear from source code. Created Local, Virtual Repositories in **Artifactory** for the project and release builds, and managed the repository manager like **Nexus** for the Maven builds.
* Expertise in working as AWS DevOps engineer and Build and release engineer in field of release automation for Java technologies to achieve continuous Integration and **continuous Delivery (CI and CD**).
* Experience in writing **Ansible playbooks**, inventories created custom playbooks written in YAML language, encrypted the data using Ansible Vault and maintained role-based access control by using Ansible Tower and implemented IT orchestration using Ansible to run tasks in a sequence which can work on different servers.
* Extensively worked on Chef Roles, Cookbooks, Recipes, Templates, Resources, Attributes & Data bags. Proficient in the setup of Chef Servers, workstations & bootstrapping infrastructure Chef Nodes for configuration management.
* Implemented **Puppet Agent** and Agentless Configurations, dashboards, M-collective with active mq-server, plugin-sync, stored configs, **Hiera-factors** and developed puppet manifests used ruby for provisioning applications
* Experience in **Artifact repository**, repository management tools **Nexus, Jfrog, Docker Hub, Registry** and **QUAY**.
* Experienced in **branching, tagging and maintaining** the versions across the environments using **SCM tools** like **GIT, Bitbucket** and **Subversion (SVN)** on **Linux** and **windows platforms**.
* Extensively worked on **Jenkins**, **Octopus**, **Teamcity**, and **Bamboo** by installing, configuring and maintaining the purpose of **CI** and End-to-End automation for all build and deployments implementing **CI/CD** for databases using **Jenkins**. Configuring **Jenkins** job to spin up infrastructure using **Terraform** scripts.
* Experience in using **ELK** (Elastic Search, Log Stash, and Kibana) stack for network and server monitoring, storing the logs and **visualizing** them using **Nginx**.
* Experience in monitoring the servers using **Nagios, Cloud Watch, Data Dog, Pager duty, Gray log/Splunk** and using **ELK** (Elastic Search, Log Stash, and Kibana), and Applications monitoring using **AppDynamics**.
* Versatility as demonstrated with troubleshooting diverse sets of hosting technologies and Experience with cloud, virtualization platforms like **VMWare, Xen, virtual box, Hyper-V, Openstack**, and **REDHAT** virtualization suite.
* Exposed to all aspects of Software Development Life Cycle (**SDLC**) and In-depth understanding of the principles and best practices of Software Configuration Management in **Agile, waterfall** methodologies.
* Expertise in Working with web servers such as **Apache HTTP** server, **NGINX, Apache TOMCAT**,application servers such as **Oracle WebLogic 9.x/10.x, IBM WebSphere 6.x/7.x/8.x, JBoss 4.1**
* Proficient with **Shell**, **Bash**, **Python**, **PowerShell**, **YAML**, **Ruby** scripting languages for automation, monitoring.
* Strong experience with SQL and **MySQL** as well as with **NoSQL** databases, specifically **MongoDB,** **PostgreSQL, Cassandra and Oracle 10.X.**

**Work Experience:**

**Client: Pitney Bowes, CT**

**Duration: Aug 2021 - Present**

**Title: Cloud Dev-Ops Engineer**

**Roles & Responsibilities:**

* Implemented **AWS** solutions like **Route 53**, **EC2**, **S3**, **IAM**, **EBS**, Elastic Load Balancer (**ELB**), Security Group, Auto Scaling in Cloud Formation **JSON templates**. Created snapshots and **Amazon machine images (AMI)** of the instances for backup and created access Management (**IAM**) policies for delegated administration within AWS
* **Migrated** VMWARE VMs to AWS using **AWS Direct Connect Service** and Defined comprehensive strategy around security as part of AWS migration strategy.
* Written Templates for **AWS** infrastructure as a code using **Terraform** and CloudFormation to build staging and production environments.
* Earned a reputation for designing **AWS** cloud deployment strategies that mitigate risk while meeting infrastructure, employee, customer and budgetary needs
* Implemented **Docker Swarm**to deploy load balance, scale and manage **docker** containers with multiple name spaced versions and integrated Cluster Management with **Docker Engine** using **Docker Swarm**.
* Built an entire **Docker Swarm** using a single disk image by deploying both Manager and Worker nodes during runtime.
* Use **Kubernetes** to deployed **Docker** containers into Pod Clusters on multiple Nodes in QA, Test and Production Environments
* Managing **Kubernetes** charts using Helm. Created reproducible builds of the **Kubernetes** applications managed **Kubernetes** manifest files and managed releases of **Helm** packages. Established a local dev workflow that centered on **minikube** to validate deployments in **Kubernetes**.
* Installed **Chef-Server** enterprise On-Premise/WorkStation bootstrapped the Nodes using **Knife** and worked with **Chef Enterprise** Hosted and Written Cookbooks and uploaded them to Chef-Server & managed on-site applications/services.
* Experience in automation of configuration of hosting environments including database administration and scaling an application and support load changes by using **chef**.
* Built **Jenkins** jobs to create **AWS** infrastructure from **GitHub** repos containing **Terraform** code and administered/engineered **Jenkins** for managing weekly Builds and integrated Jenkins with various DevOps tools such as **Nexus, SonarQube, Chef** etc.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using **Chef Cookbooks**and has Integrated **chef** with **Jenkins.** Also, Created and maintained continuous integration (CI) using tools **Jenkins** over different environments to facilitate an agile development process which is automated enabling teams to safely deploy code repeatedly.
* Used **ELK** stack (**Elasticsearch**, **Log stash**, **Kibana**) and troubleshooted the build issues with **ELK** and work towards the solution and configured network and server monitoring using **Grafana, ELK Stack** with **Logspout** and **Nagios** for notifications.
* Written **GRADLE, MAVEN** Scripts to automate build processes and managed **MAVEN** repository using **Nexus** Tool and used the same to share snapshots and releases and built end to end **CI/CD**pipelines in Jenkins to retrieve code, compile applications, perform tests and pushed built artifacts to **Jfrog** and **uDeploy** to orchestrate changes across servers and components.
* Planned release schedules with **agile methodology** & coordinated releases with engineering & **SQA** for timely delivery.

**Environment:** AWS, OpenStack, Terraform, Docker, Jenkins, Git, GitHub, Jira, Jenkins, Kubernetes, OpenShift, Maven, Nagios, ELK, Java, SonarQube, Shell, Bash, Python, DynamoDB, Data Dog, Splunk, PagerDuty, REST Webservices, WebSphere, WebLogic, Tomcat, Nginx, Linux, RHEL.

**Client: L&T Technology services**

**Duration: Aug 2020 - Jul 2021**

**Title: cloud/ CI-CD Engineer**

**Roles & Responsibilities:**

* Build and deployed the **.NET applications** on the **IIS servers**.
* Implemented ITIL process while pushing builds and deployments to prod and pre-prod environments.
* Managed servers on the Amazon Web Services (AWS) platform instances using **Puppet, Chef Configuration management.**
* Performed the automation deployments using **AWS** by creating the **IAM** roles and policies and used the **codePipeline** plugin to integrate **Jenkins** with **AWS** and created the **EC2** instances to provide the virtual servers.
* Configured **AWS IAM** and Security Groups in Public and Private **Subnets** in **VPC** Managed **IAM** accounts (with MFA) and **IAM policies** to meet security audit & compliance requirements and worked as Admin.
* Implemented **Chef Recipes** for Deployment on build on internal Data Centre Servers. Also re-used and modified same Chef Recipes to create a Deployment directly into **Amazon EC2 instances**.
* Integration of Automated Build with Deployment Pipeline. Currently installed **Chef** Server and clients to pick up the Build from **Jenkins** repository and deploy in target environments (**Integration, QA** and **Production**).
* Configured **Ansible** control machine and wrote **Ansible** playbooks with **Ansible** roles. Used file module in **Ansible** playbook to copy and remove files on **EC2 instances**. Created inventory in **Ansible** for automating the continuous deployment and wrote playbooks using **YAML** scripting.
* Installed Workstation, Bootstrapped Nodes, wrote Recipes, and **Cookbooks** and uploaded them to **Chef-server** and managed **AWS** for **EC2, S3 & ELB** with **Chef Cookbooks**.
* Written **Chef Cookbooks** for installing **Tomcat, JBoss, Nginx, WebLogic, WebSphere** and for configuring load balancers and fail over.
* Designed AWS Cloud Formation templates to create custom sized **VPC**, subnets, **NAT** to ensure successful deployment of Web applications and database templates.
* Created Chef Automation tools and builds and do an overall process improvement to any manual processes.
* Launched **Compute(EC2) and DB(Aurora, Cassandra)** instances from Amazon Management Console and CLI
* Experienced with deployments, maintenance and troubleshooting applications on Microsoft Cloud infrastructure Azure
* Implemented Continuous Integration **using Jenkins and Hudson**.
* Configuring and deploying OpenStack Enterprise master hosts and OpenStack node hosts.
* Experienced in deployment of applications on Apache Web server, Nix and Application Servers like **Tomcat, JBoss**.
* Manage the configurations of multiple servers using Ansible.
* Managed **IAM** policies, providing access to different AWS resources, design and refine the workflows used to grant access.
* Written Chef **Cookbooks** for various DB configurations to modularize and optimize end product configuration. Converting production support scripts to Chef Recipes and AWS server provisioning using Chef Recipes.
* Created AWS **Route53** to route traffic between different regions.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud watch.
* Developed build scripts using **MAVEN** as the build tool for the creation of the build artifacts like war or ear files.
* Automated all Builds using Jenkins.
* Designed and implemented Chef, including the internal best practices, cookbooks, **automated cookbook CI and CD** system.
* Developed Cookbooks and recipes for automating deployments using Chef.
* Familiar and experienced with **Agile** Scrum development.
* Used JIRA to track bug issues and change management.
* Used Swagger and Postman for **Rest Webservices** testing.
* Branching, Tagging, Release Activities on Version Control Tools: **SVN, GITHub, Bit Bucket**.

**Environment:** OpenStack, SVN, GIT, ANT, AWS, Maven, Jenkins, Agile, Jira, Nexus, Apache Tomcat, Mondo DB, MYSQL, NO SQL, Chef.

**Client: Amazon**

**Duration: May 2019 - Aug 2020**

**Linux Administrator**

**Roles & Responsibilities:**

* Installation, configuration and administration of Red Hat Linux servers and support for Servers.
* Provided System Administration support for 200+ Red Hat Linux 3.x/4.x servers and resolved trouble tickets on shift rotation basis.
* Configuration and maintenance of common Linux services such as Tomcat, Apache, MySQL, NFS, FTP, Postfix, LDAP, DHCP, DNS BIND, HTTP, HTTPS, SSH, IP Tables and Firewall etc.
* Involved in complete Administration tasks on Red Hat Linux and documentation for the projects executed.
* Create / Change passwords for users needing access to servers for specific uses.
* Linux kernel, memory upgrades and swaps area. Red hat Linux Kickstart Installation.
* Responsible for configuring and maintaining Squid server in Linux. Deployed Java applications into Apache Tomcat Application Servers. Used a Test driven approach for developing the application and Implemented the unit tests using Python Unit test framework.

**Environment:** Linux Red Hat 3.x/4.x, Java, Python.