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Sr. Cloud DevOpsEngineer

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[**LinkedIn**](http://www.linkedin.com/in/naga2455)

Professional Summary

* **Over 10+ years** of experience with strong expertise in the fields of **DevOps** using various automation tools to oversee the end-to-end**SDLC** process.
* Experience in Build Automation using **Git, GitHub, Maven, Jenkins, Run Deck, Ansible, Docker & Kubernetes, and AWS services** which reduces the effort of developers and operation team in performing maintenance and daily Operations.
* Automation of build process **CI/CD pipelines** using **Jenkins, Maven, Nexus, GitHub, Ansible, SonarQube and Docker, Kubernetes and OpenShift**
* Highly experienced in the AWS Cloud platform and its features which includes **IAM, S3, EC2, VPC, AMI, SNS, RDS,Cloud Watch, Cloud Trail, Cloud Formation, Auto scaling, Elastic Load Balancing, ECS, EKS,Cloud Front, Route53, Lambda, AWS OpsWorks, SNS, SQS, and SWS.**
* Experience working on **Cloud Formation and Terraform** to build AWS Resources like **AWS Backup , EMR**
* GLUE, EKS, EC2, Lambda, IAM Policies VPC, Networking, Load Balancer, and S3.
* Experience in working on source controller tools like (Global Integration Tool) **GIT/GitLab/Bitbucket**
* Strong knowledge of source control concepts like Branches, Merges, and Tags.
* Experience in using **Maven** as a build tool for building deployable Java artifacts (**WAR**&**EAR**) from source code.
* Experience in using **Nexus /Jfrog** Repository Manager for Maven builds.
* Automated deployments to various environments like **DEV, QA, UAT, and PROD.**
* Experience in creating Jenkins Parallel job execution with **Master, and Slave to distribute load**.
* Experience in using **Tomcat, JBoss/Wild fly, Nginx, HTTP web servers, Web logic servers’** application servers for deployments, and expertise in making configuration changes.
* Application Deployment and environment configuration using **Jenkins & Ansible.**
* Responsible for Automating Daily Tasks with Configuration Management Tools or Scripts.
* Hands-on experience in containerization using **Docker Containerization Tool** and Container Orchestrationwith **Kubernetes.**
* Scheduling of automatic repetitive jobs with **Crontab**.
* Configured the servers with the **AppD Splunk and APM** monitoring the performance metrics of the production servers.
* Skilled in monitoring servers using **ELK (Elastic search, Log stash, Kibana)**, **Prometheus**, **Splunk, Site Scope** and **CloudWatch**.
* Experience in system administration working on multiplatform **VMware**, **LINUX** (Red hat, SUSE), **UNIX** (Oracle Solaris), and Windowsservers also troubleshooting experience installing and configuring software and hardware, managing network servers, setting up workstations and accounts, monitoring performance and maintaining systems, troubleshooting issues.
* Experience in Creating the Dashboard in **Kibana** for metrics (ex: **CPU**, **Memory**. etc), **Appd** for BT application Performance.
* Worked with Bug Tracking Tool like **Jira** and **Rally**.
* Closely worked with Developers and Analysts to address project requirements. Able to effectively manage time and prioritize multiple projects.

**Skills**

SCM Tool : GitHub, Git lab, Bitbucket

Build Tools : Maven, Gradle

Automation Tools : Jenkins, Ansible, Docker, Docker Swarm, Kubernetes, OpenShift

App & Web Servers : Apache Tomcat and JBoss, WebLogic Server, Nginx

Monitoring Tools : AppD, Splunk

Scripting : Shell Script, Python

Cloud Platforms : AWS, Azure

Other Tools : Confluent Kafka, Elastic Search, Jfrog, Nexus

Security : BlackDuck. SonarQube, Twistlck

**Education**

Bachelor of Technology in Computer Science Engineering at SRMIST 2011,Tamil Nadu, India

**Certifications**

•**AWS Certified DevOpsEngineer**

•**Docker Certified Associate**

**Experience**

**Sr. AWS DevOps Engineer| Banking**

Citi Bank

Feb 2021 – Present |Irving, TX

**Responsibilities:**

* Extensive exposure to Configuration Management policies and practices with regards to **SDLC**; along with automation of scripting using **BASH**, and **Python** scripting.
* End-to-end deployment ownership for projects on Amazon **AWS**. This includes Python scripting for automation, scalability, build promotions for staging to production etc.
* Created continuous integration system using **Ant**, **Jenkins**, **Puppet** full automation, Continuous Integration, faster and flawless deployments.
* Designed and implemented scalable, secure cloud architecture based on Amazon Web Services. Leveraged **AWS** cloud services such as **EC2**; auto-scaling; and **VPC** (Virtual Private Cloud) to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts, and can quickly evolve during development iterations
* Configured **AWSEC2** Instances using **AMIs** and launched instances with requirements of specific applications.
* Experience in creating **Docker** images, **Kubernetes** to deploy scale, load balance and manage **Docker** containers with multiple namespace versions and good understanding of Open Shift Platform in managing **Docker** Containers and **Kubernetes** Clusters.
* Hands-on experience in automating builds and deployment processes using Docker Containers using **Docker Containerization Tools** and its Orchestration tools **Kubernetes**.
* Worked on **AmazonWebServices** for deploying **EC2** instances containing various platforms such as **RHEL**, **CentOS**, and **Ubuntu** in **Linux** and Windows 2008 and 2012.
* Review/Merge/Remove **Git** Pull Requests to bit bucket. Run **Ansible** Scripts to provision Dev servers.
* Implemented quality release of Applications and solutions for Delivery Manager.
* Responsible for providing task level inputs in daily stand-up and highlighting if there are any blockers for progressing with the planned development activities.
* Participated in weekly release meetings with technology stakeholders to identify and mitigate potential risks associated with the releases.
* Hands-on Exposure on **Gitlab** Server and Subversion.
* Development of infrastructure automation in **AWS** (**EC2**, **ECR**, **DynamoDB**, **Lambda**, **EBS**, **RDS**, **Dynamo**, **ELB**, **EIP,** etc.) with AWS Cloud Formation.
* Orchestrated **ETL** jobs using **AWSGlue** and migrated data from Amazon **S3** to **RedShift**.
* Expert in the Orchestration and migration of **CI/CD** processes using CloudFormation, **Terraform** Templates and containerization of Infrastructure using **Docker**, which was set up in **Vagrant**, **AWS**, and **VPC's**.
* Integrated **ELK** stack to **EC2** and **ELB** using **AWSLambda** function to extract and store logs.
* Configured **Elasticsearch**, **Logstash,** and **Kibana** (ELK) for log analytics, full-text search, and application monitoring in integration with **AWSLambda** and **CloudWatch**.
* Used **JIRA** as a ticketing tool for creating sprints, bug tracking, release, and project management functions.
* Managed **Kubernetes** charts using Helm. Created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files, and managed releases of **Helm** packages.
* Worked on build tasks using **Maven**, **Ant**, **Gradle,** and **GNU** Make files and worked with the development team to migrate Ant scripts to **Maven**.
* Imported and managed multiple corporate applications in Subversion (**SVN**).

**Environment:** AWS, JAVA, Red Hat Enterprise Linux, SVN, GIT, Jenkins, Apache Tomcat, Shell, Nexus, Jira, Python, Helm, Docker, Kubernetes and Mango DB.

**Sr. Azure Cloud Engineer| Telecom**

Cox communications

July2019 – Jan 2021| Atlanta, GA

**Responsibilities:**

* Worked on **Azure** platform for developing, building, and deploying applications.
* Worked on technical design and developed the application using **Azure** components such as **Application Insights, Azure Active Directory**, **PowerBI**, **AzureFunctions**, **Azure Data Factory, Azure SQL, and Azure Storage accounts**.
* Creating **ARM** (Azure Resource Manager) Templates thatdeploy Azure resources to the cloud in different environments (Development, Testing, Staging, and Production)
* Developed Azure Data Factory pipeline workflows to rapidly bulk-insert data from large **BLOB** files into a **SQLAzure** database.
* Created **Azure** services using **ARM** templates (**JSON**) and ensured no changes in the present infrastructure while doing incremental deployment.
* Created **AzureVMs**, Virtual hard disks, Storage accounts, and Storage pools.
* Performed hardening of the **VMs** and disk encryption using the KEK key in Azure.
* Designed and automated **AZURE** Infrastructure as a Service (**laas**) and Platform as a Service (**PaaS**), **SaaS** capabilities which includea virtual machine, container services, virtual network, and cloud services.
* Developed automation system using **PowerShell scripts** and **JSON** templates to remediate the **Azure** services.
* Developing applications with Microsoft **Azure Logic Apps**.
* Written **Terraform** modules for various services in Azure.
* Customized **Azure** Application Insights for logging and analytics to view the logs and metrics.
* Involved in planning, design, development, and implementation of the web application based on business requirements.
* Developed **Azure** Functions to copy files from file server to Azure Storage and **AzureSQLDB**.
* Created complex **Stored Procedures**, **Triggers**, **Tables**, **ViewsSQL Joins,** and other statements to maintain referential integrity and implemented complex business logic.
* Creating **ARM** (Azure Resource Manager) Templates thatdeploy Azure resources to the cloud in different environments (Development, Testing, Staging, and Production)
* Creating **PowerShellscripts** to deploy using DevOps pipelines.
* Configuration of build pipelines to build applications using **DevOps** on hosted agent pools.
* Configuration of release pipelines in **DevOps** to deploy applications.
* Designing and developing **SQL** components for facilitating “feature flag” functionality and enabling on-demand, incremental rollouts of new system functionality.
* Creating custom logging components to track the real-time status and results of all load processes.
* Ensure that other application developers utilize this **RBAC** model in their applications to maintain consistency.

**Environment:** Azure Active Directory, CI/CD, Application Insights, Power BI, AzureFunctions, Azure Data Factory, Azure SQL, Azure Storage accounts.

**AzureCloud Engineer | Healthcare**

Walgreens

Nov 2017 – Jun 2019|Cambridge, MA

**Responsibilities:**

* Designing and Implementing **Azure** Cloud Infrastructure by Creating ARM**templates**for Azure Platform to deploy the infrastructure necessary to create development**,**test**,** andproduction environments for a software development project.
* Responsible for gathering requirements, Analysis, Design, Development and Deployment.
* Created build and release pipelines using **YAML** templates in Azure DevOps for .**Net** based projects.
* Implemented high availability with Azure Classic and Azure Resource Manager deployment models.
* Designed Azure Resource Manager Templates and extensive experience in designing custom build steps using **Power-Shell**.
* Worked on Serverless services, created and configured **HTTP** Triggers in the Azure Functions with application insights

for monitoring and performing load testing on the applications.

* Experience with **AzureServiceBus**, Logic Apps, Application Insights, **Azure Functions, Document DB** and **SQL**.
* Developed custom solutions in **C#** and **PowerShell** to validate availability, consistency of environments.
* Troubleshooting and performing unit tests after setting up environment.
* Experience with **JSON** messages processing.

**Environment**: Azure, DevOps, XML, SQL Server 2014, Visual Studio 2019, C#, ASP.NET, .NET Core 3.1, PowerShell, and GIT.

**Infrastructure Engineer | Healthcare**

Prometrika

Jul 2015 – Sep 2017|Cambridge, MA

**Responsibilities:**

•Defined and Implemented **CM** and **Release Management** Processes, Policies and Procedures.

•Deploy and monitor scalable infrastructure Using Configuration Management tool **Ansible**.

•Written Simple **Ansible YAML** scripts to configure the Instances.

•Written Ansible **YAML** scripts that can store the credentials for various sandboxes and secured them on the remote servers.

•Worked on setting up **Splunk** to capture and analyze data from various layers Load Balancers, Webservers.

•Design of Cloud architectures for customers looking to migrate or develop new **PAAS**, **IAAS**, or hybrid solutions utilizing Amazon Web Services (**AWS**).

•Designed **Ansible** to manage configurations and automate the installation process.

•Coordinate/assist developers with establishing and applying appropriate branching, andmerging conventions using **GIT** SCM.

• Configured and maintained **Jenkins** to implement the **CICD** process and integrated the tool with **Maven** to schedule the builds and automated the deployment on the application servers using the “Deploy to Container & Web logic Deployer” plugins for **Jenkins**.

•**Continuous Delivery** is being enabled through **Deployment** into several environments of Development, QA, and Stage using **Jenkins**.

•Hands-on experience in writing **K8**’s Manifest files like Deployments, Daemon sets created and configured Persistence volumes and Claims (**PVC**) in K8’s

•Hands-on Experience the log analysis for troubleshooting we used **Splunk** for log monitoring.

•Hands-on Experience in **API** managers for creating new **APIs**for the dev team.

•Work with development/testing, deployment, systems/infrastructure, and project teams to ensure continuous operation of build and test systems.

•Knowledge of**Elastic Search** and **Confluent Kafka** for Streaming the Data.

•Interact with developers and Enterprise Configuration Management Team for changes to best practices and tools to eliminate non-efficient practices and bottlenecks.

•Provide responsive off-hours support in a 24/7 environment and ensure maximum availability of servers and applications.

**Environment:**AWS, JAVA, Red Hat Enterprise Linux, GIT, Jenkins, Kafka, Maven, Apache Tomcat, Shell, Nexus, Jira, Python, Docker, Kubernetes, AppDynamics, Mango DB, Splunk, Ansible.

**Build & Release Engineer**

Larsen & Toubro Infotech.

Jan 2013 – Jun 2015|Irving, TX

**Responsibilities:**

* Developed installer scripts using **Ant, Python and UNIX** for various products to be hosted on Application Servers.
* Troubleshoot Build and Deploy Issues, with little downtime.
* Organize and Co-ordinate Product Releases work closely with product development, **QA**, Support across global locations to ensure successful releases.
* Implemented Chef to deploy the builds for **Dev**, **QA**, and Production.
* Build scripts using **ANT** build tools in **Jenkins** to move from one environment to other environments.
* Install, Configure and Administer **Hudson**/**Jenkins** Continuous Integration Tool.
* Implemented Continuous Integration and Continuous deployment using various **CI**/**CD** Tools like **Jenkins**, **Hudson**, **Bamboo**, and **Sona** type **Nexus**.
* Parse the Application and System logs using **Python** and **PowerShell** for all business applications to proactively monitor and trace errors with automated email alerts to various teams internally.
* Automated Continuous Build and Deploy Scripts for **Hudson**/**Jenkins** Continuous Integration tool.
* Work with application development and operation teams using a variety of automated testing and build, and deploy tools (**Maven**, **Ant**, **Nexus**, **Jenkins**, **SVN**, **Selenium**, and **JUnit**) to resolve issues with transition to new **DevOps** solution.
* Branching, Tagging, Release Activities on Version Control Tools like **SVN** and **GIT**.
* Member of the Technical Design team, Build and Release Module for Development of new products.
* Documented release metrics, software configuration process.

**Environment:** Git, Maven, Jenkins, Tomcat, Apache, Python, Chef, Selenium, Artifactory, Chef-solo/server, Oracle.