**Azure DevOps Engineer**

 **Sreenidhi Pamulapati**

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 **Professional Summary**

* Software Integrator and DevOps Engineer with 8 years' experience creating the CI/CD process, which includes Software Configuration Management, development cycles, server configuration, Continuous Integration, product packaging, and managing Release cycles for a variety of technologies.
* Hands on experience working with Version Control tools such as GIT and Apache subversion to perform various tasks such as create and edit repository configurations and assigning access parameters to users, branching repositories depending upon project requirements, generating logs and reviewing changes.
* Worked on various projects to migrate data from on premise database to confidential Redshift, RDS and S3.
* Experienced in AWS services such as EC2, ELB, Auto-Scaling, S3, IAM, VPC, RDS, Dynamo DB, Cloud Trail, Cloud Watch, Lambda, Elastic Cache, Glacier, SNS, SQS, Cloud Formation, Cloud Front, Elastic Load Balancing, Beanstalk, EMR, AWS Workspaces.
* Experience in dealing with Windows Azure virtual networks, virtual machines, cloud services, resource groups, express route, traffic manager, VPN, load balancing, API Gateway, auto-scaling, reading Azure VMs, storage accounts, VHDs, storage pools, migrating on premise servers to Azure and creating availability sets in Azure.
* Experience in designing a Terraform and deploying it in cloud deployment manager to spin up resources like cloud virtual networks, Compute Engines in public and private subnets along with AutoScaler in Google Cloud Platform.
* Experience in Designing, Architecting and implementing scalable cloud-based web applications using AWS and GCP.
* Experience on working Jenkins, CloudBees and/or CI/CD systems.
* Experience in Groovy,JSON,YAML,Shell scripting for CI, deployment and delivery automation
* Hands on Experience with Subversion, GIT, GITHUB repositories.Create the projects and Manage code for developers in the Bitbucket repositories.
* Experience in working with Ansible Tower to manage multiple nodes and manage inventory for different environments and automated the cloud deployments using Ansible, and AWS Cloud Formation Templates.
* Expertise in deploying Ansible playbooks in AWS environment using Terraform as well as creating Ansible roles using YAML. Used Ansible to configure Tomcat servers and maintenance.
* Set up a GCP Firewall rules in order to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Experience with different cloud domains which includes Amazon Web Services, Google Cloud Platform, and Azure Cloud.
* Strong Experience in implementing data warehouse solutions in confidential Redshift.
* Develop and maintain cloud infrastructure using a combination of Jenkins, Chef and Terraform for Automating CI/CD pipeline in AWS.
* Performed configuration and deployment orchestration solution for system administrators who perform various tasks such as configuring, provisioning, troubleshooting and maintaining server operations using Chef, Ansible and Puppet.
* Used ANT, MAVEN and Node JS as build tools on Java and JavaScript projects for the development of build artifacts on the source code. Worked on Tomcat Web server for hosting web apps.
* Experience in Angular 1.x/2.0/4.0/6.0, ReactJS, MongpDB, Node.js and Redis Queue.
* Implement API management solutions using Apigee to include API Gateway, rate limiting, security, analytics, monetization and developer portals.
* Worked on migration of offline database infrastructure to cloud using several database technologies such as Oracle DB, MySQL, NoSQL, AWS RDS, Dynamo DB and Redis.
* Experience in Building, testing and deploying applications by adopting the DevOps tools like GIT, Chef, Ansible, Jenkins, Docker, Kubernetes. Having good working experience in AWS with EKS by using CloudFormation.
* Experience in JIRA task tracking and documenting the completed tasks in Confluence. Worked on ServiceNow for logging changes made to architecture and tracking tickets assigned for tasks by application teams.
* Experience on cloud database and data warehouse like SQL Azure and confidential Redshift/RDS.
* Developed and tested many feactures for dashboard using flask,css,javascript.
* Act as Apigee edge API manager subject matter expert.
* Designed an ideal approach for data movement from different sources to HDFS via Apache/Confluent Kafka.
* gRPC is used in HTTP/2 under the cover,but HTTP is exposed to the APIdesigner
* CD Tools: Cruise, Urban CodeDeploy, UrbanCode Release/Build
* Familiarity with DB CM and deployment frameworks like RedGate, Liquibase, Flyway.

**EDUCATIONAL DETAILS &CERTIFICATIONS:**

* AWS Certified DEVOPS Engineer Professional**.**
* Bachelors in computer science and Engineering, 2015 **–** JNTUH.

**TECHNICAL SKILLS:**

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| --- | --- |
| Cloud Platforms | AWS, Azure, Google Cloud Platform  |
| Automation Tools | Jenkins, Chef, Puppet, Ansible, Docker, Kubernetes, Terraform |
| Database Systems | Oracle DB, MySQL, AWS RDS, Dynamo DB, Redis |
| **Version Control Tools** | GIT, Subversion, Bit bucket, GITHUB |
| **Web Servers** | **Apache**Tomcat, Nginx, WebLogic, Web Sphere |
| **Scripting Languages** | Perl, Python, Ruby, Bash/Shell Scripting, Groovy |
| **Application Servers** | Web Logic Application server, Apache Tomcat |
| **Volume manager** | VERITAS volume manager, Logical Volume Manager |
| **CI/CD Tools** | Jenkins, GitHub Actions, Gitlab, Hudson |
| **Build tools** | Maven, Sonar, Ant |
| **Monitoring Tools** | Log Stash, Splunk, Nagios, ELK, New Relic |
| Container Tools | Docker, Kubernetes |
| Web Technologies | Java, HTML, CSS, J query, Java script, XML, JSON |
| Orchestration | Docker Swarm, Kubernetes |
| **Operating system** | **Windows, Linux, UNIX**  |
| **Cloud Management** | **VMware Cloud Management Suite** |

**PROFESSIONAL EXPERIENCE:**

**Comcast Corporation, Philadelphia, PA Oct 2021 to Till Date**

**Sr. Azure Cloud Engineer**

**Responsibilities:**

* Extensive experience working on AWS servers and Azure servers performing several operations.
* Experience as a big data engineer with expertise in designing data intensive applications using Hadoop ecosystem, big data analytical, cloud data engineering, data warehouse, data visualization, reporting and data quality solutions.
* Managing and Navigating through several repositories in GitHub and Bitbucket, assigning unique identifier tags such as asset ID, Production ID, Configuration ID.
* Creating Amazon EC2 Cloud Instances using Amazon Web Services and Configuring launched instances with respect to specific applications.
* Designing and building multi-terabyte, full end to end data warehouse infrastructure from the ground up on confidential Redshift for large scale data handling millions of records everyday.
* Working on Multiple AWS instances, set the security groups, Elastic Load Balancer, and AMIs, Auto scaling to design cost-effective, fault tolerant and highly available systems.
* Created S3 buckets in the AWS environment to store files, sometimes which are required to serve static content for the web application. Experience with Terraform to build infrastructure as a code (IaC)
* Implemented a GIT mirror for SVN repository, which enables users to use GIT.
* Implemented Continuous Integration (CI/CD) using Jenkins and GIT.
* Used Cloudbees CI (Jenkins) for implementing the automated pipelines.
* Build scripts using Maven build tools in Jenkins to move from one environment to other environments.
* Optimizing and tuning the Redshift environment, enabling queries to perform up to 100x faster for tableau and SAS visual analytics.
* Configuring and Networking of Virtual Private Cloud (VPC).
* Developed CloudFormation scripts, deployed AWS resources and automated EC2 instances.
* Wrote Terraform templates for AWS Infrastructure as a code (IaC) to build staging, production environments & set up build & automations for Jenkins.
* Worked on Windows Azure Services like PaaS, IaaS and worked on storages like Blob (Page and Block), SQL, Azure.
* Wrote various data normalization jobs for new data ingested into Redshift.
* Advanced knowledge on confidential Redshift and MPP database Concepts.
* Migrated on premise database structure to confidential Redshift data warehouse.
* Used Azure Kubernetes Service (AKS) to deploy Kubernetes cluster in Azure. Created an AKS cluster in the Azure portal, with the Azure CLI and used template driven deployment options such as Resource Manager Templates and Terraform.
* Managed infrastructure resources like physical machines, VM's and Docker containers using Terraform.
* Communicated with customer to generate correspondences for customer components running on AWS VPC and AWS EKS Kubernetes cluster.
* Implemented workload management (WML) in Redshift to prioritize basic dashboard queries over more complex longer-running adhoc quries.
* Strong experience utilizing Jenkins for enterprise scale infrastructure configuration and application deployments - checking out code from svn/git and use ant/maven to build war/ear artifacts.
* Integrate on-premises windows AD with AZURE AD integrating on-premises identity with AZURE active directory.
* Install and Administrate Jenkins on Linux server, configure Jenkins Projects with Subversion, GIT, .net, Java, NPM/Node.js and python
* Strong experience utilizing Jenkins for enterprise scale infrastructure configuration and application deployments - checking out code from SVN/GIT and use ant/maven to build war/ear artifacts.
* Developed backend of the application using flask frame work.
* Created a workspace for log analytics and enabled clustered addons, used integrated Azure Kubernetes service to check and figure out if requests are failing, inspected Kubernetes event or logs and monitor your cluster health.
* Created CI/CD Pipelines on Azure DevOps environments by providing their dependencies and tasks.
* Configuring the Docker containers and creating Docker files for various environment and worked on Kubernetes environment.
* Creating CloudWatch alerts for instances and using them in Auto-scaling launch configurations.
* Installed and configured Docker containers and orchestration platforms such as ECS and Kubernetes.
* Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Setup GCP Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform). Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploys.
* Involved in development of Test environment on Docker containers and configuring the Docker containers.
* Worked on CI/CD Technologies and CloudBees.
* Used elastic search for powering not only search but using ELK stack for logging and monitoring our systems end to end using beats.
* Performed automation tasks on various Docker components like Docker Hub, Docker Engine, Docker Machine and Docker Registry. Worked with Docker images & Docker Container.
* Involved in development of Test environment on Docker containers and configuring the Docker containers using Kubernetes.
* Created scripts in Python to automate log rotation of multiple logs from web servers.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS CloudWatch logs, Nagios.
* Responsible for designing logical and physical data modelling for various data source on confidential Redshift.
* Worked on JIRA for sprint sessions with user story and task assignment for approaching weekly targets. Hosted meetings assigned targets and tasks for weekly progression.
* An Understanding of clusters, Libraries, job cluster, and how data bricks is leverage in ETL/ELT.

**Environments:** Azure, Jenkins, Bamboo, GitHub, Bitbucket, CA release automation, GitHub Actions SonarQube, Confluence, JIRA, ServiceNow, AIM Agent, CyberArk, Kubernetes, Aws, Mesosphere, Groovy and Python Scripting, Microsoft SQL, Azure RBAC,

**Anthem Inc, Norfolk, VA Jun 2020 to Sep 2021**

**Azure Cloud Engineer**

**Responsibilities:**

* Hands on experience in Amazon Web Services (AWS) provisioning and good knowledge of AWS services like EC2, S3, Glacier, ELB (Load Balancers), RDS, SNS, SWF, and EBS etc.
* Implementing new projects builds framework using Jenkins, Maven as build framework tools.
* Participate in Multiple Projects Architectures and Strategic Decisions meetings to Architect the new Software systems or modify the Existing ones.
* Designing and Implementing AWS cloud-based solutions for on premise applications.
* Responsible for automating the complete project using orchestrator and deploying the stacks in multiple environments.
* Deployed AWS using Terraform on EC2 instance server and automated the complete deployment environments.
* Designed and Developed ETL jobs to extract data from salesforce replica and load it in data mart in Redshift.
* Wrote Scripts and indexing strategy for a migration to confidential Redshift from SQL server and MYSQL Database.
* Designed and setup enterprise data lake to provide support for various uses cases including analytics, processing, storing and reporting of voluminous, rapidly changing data.
* Design and implement technology solutions based on VMware products and provide support for escalated performance issues within this product suite.
* Migrated and automated cloud deployments using API's, Ansible, python and AWS Cloud Formation Templates.
* Worked on AWS data pipeline to configure data loads from S3 to into Redshift.
* Used JSON schema to define table and column mapping from S3 data to Redshift.
* Working with GIT and TFVC in Team Foundation Server and install extensions according to user requests.
* Expertise in using IAM to create and manage AWS users and groups and use permissions to allow and deny their access to AWS resources.
* Regular review and monitor each of your IAM policies to improve the security of your AWS account.
* Implementing a Continuous Delivery framework using Jenkins, Ansible, and Maven in Linux environment.
* Validating version compatibilities and the architecture design based on the application load while migrating to AZURE providing solutions for migrfate the applications from on-premises to cloud.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS nodes and Tested Playbooks on AWS instances using Python.
* Handful experience in Source control migrations to Git and TFVC on Azure Devops Server.
* Created Python Scripts to Automate AWS services which include web servers, ELB, Cloud front Distribution, database, EC2 and database security groups, S3 bucket and application configuration, this Script creates stacks, single servers or joins web servers to stacks.
* Used Cloud formation to spin up resources effectively, Creating blueprint documents and templates in Cloud formation. Orchestrated provisioning of desired resources using cloud formation.
* Implemented automation scripts for AWS API calls, wait loops, retry logic and several other operations using Cloud Formation. Achieved various operational results such as automatic rollbacks, cleanups and event logging and helpful AWS support using cloud formation.
* Used Terraform to automate, manage and provision infrastructure. Hosted webservers and load balancer for provisioning of resources to optimize the project.
* Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation. Orchestrated and migrated CI/CD processes using Terraform Templates and Containerized the infrastructure using Docker, which was setup in Vagrant, AWS and VPCs. Worked with Terraform to create AWS components like EC2, IAM, VPC, ELB, Security groups and Configured RDS instances using Cloud Formations and Terraform. Authored Terraform modules for infrastructure management. Authored and published a module to the Terraform registry for enterprise customers to deploy our product inside their AWS environment.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using Ansible playbooks and has Integrated Ansible with Jenkins.
* Worked on Docker engine and Docker Machine environments, to deploy the micro services-oriented environments for scalable applications, Docker swarm to host cluster and container scheduling, Docker compose to define multiple container applications.
* Experience with chef configuration management tool, responsible for managing chef client nodes and upload the cookbooks to chef server from the workstation, Established Chef best practices approach to system deployment and managing Chef Cookbooks as a unit of software deployment and independently version controlled accordingly.
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic container service for Kubernetes(EKS).
* Configured, Automated and Deployed Chef configuration management to existing infrastructure.
* Used Ansible and Ansible tower as configuration management tool, to automate repetitive tasks, quickly deploy critical applications and proactively manage changes.
* Implemented Python code using Ansible Python API to automate cloud deployment process, Developed Python modules for Ansible customizations.
* Used Ansible playbooks to setup continuous delivery pipeline. Deployed micro services, including provisioning AWS environments using Ansible playbooks, Used Ansible to document all infrastructures into version control.
* Worked on Monitoring systems Nagios, Splunk and repository nexus.
* Configured Jenkins to create Docker image for build and performed tests on a Docker container.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Managed development team of 6 members by sharing resources and assigning goals and tasks on daily and weekly basis and reporting to project manager on daily basis.
* Implemented Redis migration for higher optimization and better performance as well as scalability.
* Worked with GIT and TFVC in Team Foundation Server.
* Hands on experience with Liquibase and Flyway too.
* Developed micro service on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Worked on AWS Kafka live stream module implementation with Kubernetes integration.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling Kubernetes AWS infrastructure and micro service container orchestration.

**Environments:** Jenkins, Cloud formation, AWS, Confluence, Cloud watch, Ansible, Docker, RDS, Apache Tomcat, Maven, Weblogic, Nexus, EC2, Git, Chef, SNS, Redis, Ansible, shell/Perl, Amazon VPC, Json, PostgreSql, Bash, bitbucket, Python, Pom.Xml, Linux, Windows.

**Boeing, North Charleston, SC**  **Jan 2018 to May 2020**

**DevOps Engineer**

**Responsibilities:**

* Automated Continuous Integration builds and release infrastructure for customized advertising and merchandising site and web service.
* Created resource group which includes virtual machines, network interface, virtual networks, SubNets, load balancers, storage accounts, functions and SQL databases.
* Created CI/CD Pipelines in Azure DevOps environments by providing their dependencies and tasks.
* Created azure key-vault in order to store all the credentials for SQL databases and for API keys.
* Used Ansible to provision Azure services and managed those nodes.
* Implemented Ansible to manage all existing servers and automate the build/configuration of new servers. All server's types where fully defined in Ansible, so that a newly built server could be up and ready for production within 30 minutes OS installation.
* Configured Jenkins for Automated Build with Deployment Pipeline. Currently installed Ansible Server and to pick up the Build from repository and deploy in target environments (Integration, QA, and Production).
* Managed Azure instances with vRealize Operations Manager by building customized dashboards which give frequent updates on enterprise-grade metrics and intelligent alerts.
* Worked with automation tools which are pre-installed in azure DevOps portal to build the packages. The automation tools like ANT and MAVEN with build.xml and pom.xml scripting languages depending on the packages like java or python or .NET.
* Integrate structured and unstructured data from on-premises and cloud data sources, transform data in big data and data warehouse engines, then load your data marts into Azure SQL Data Warehouse.
* Hands on experience with Liquibase and Flyway too.
* Expertise in DevOps team, CI (Continuous Integration and, deployment, also provide automated deployments of full application stack using Jenkins/Docker, Ongoing migration of mixed CVS/SVN SCMs over to GIT, done deployment of Docker containers for development, as well as manage by maintaining RHEL 6/ CentOS servers run on diversified DevOps systems.
* Experience on Kubernetes for creating Projects, Services for load balancing and adding them to Routes to be accessible from outside, Creation of Pods through new application and control the scaling of pods, troubleshooting pods through ssh and logs.
* Designed, planned and implemented for existing On-Perm applications to Azure Cloud (ARM), Configured and deployed Azure Automation Scripts utilizing Azure stack (Compute, Web and Mobile, Blobs, ADF, Resource Groups, Azure Data Lake, HDInsight Clusters, Azure Data Factory, Azure SQL, Cloud Services and ARM), Services and Utilities focusing on Automation.
* Used Kubernetes for running/managing containers, images and container snapshots, while providing a platform for automating, deploying, scaling and operations of application containers across clusters of hosts.
* Solid experience in building Artifacts using various build tools like Ant, Maven and Gradle and store back to Nexus, JFROG and Artifactory, efficiently run environmental jobs by using provisioning tools like Docker and Vagrant. And, also have experience on Bitbucket server.
* Performed several execution processes such as monitoring using Grafana, ELK (Elasticsearch, Logstash and Kibana) stack, sent notifications using Nagios, used Kibana for visualizing data and navigate the Elastic Stack and leverage the Elastic Maps Service to visualize geospatial data.
* Proficient in DNS, DHCP and IP Addressing, and involved in their installation, configuration, maintenance and implementation of services like NFS, LDAP, Apache SMTP, SSH, HTTP and RPM management, for administrating Capacity Planning, Performance Analysis, Uptime and Response time analysis.
* Implemented writing scripts like Bash, Ruby, Perl, Python, Shell and PowerShell, also created test scripts in SOAP UI and Restful for Testing Web Services, and PowerShell scripts are created to automate common activities and test them.
* Moved database from on-premises and Azure cloud to a centralized data store in the cloud and monitored Copy Data activity in an Azure data pipeline.
* Automated various infrastructure activities like Continuous Deployment using Ansible playbooks and has Integrated Ansible with Jenkins on AZURE.
* Worked on Monitoring systems Nagios and Splunk and repository nexus.

**Environments:** Microsoft Azure, GCP, Jenkins, Cloud formation, Confluence, Cloud watch, Chef, Docker, RDS, Apache Tomcat, Maven, Nexus, GIT, SNS, SQS, shell, Perl, Amazon VPC, Json, PostgreSql, Bash, bitbucket, Python, Pom.Xml, Linux, Windows.

**Atos, Hyderabad, India**  **Jun 2015 – Oct 2017**

**Build and Release Engineer**

**Responsibilities:**

* Implementing CI/CD using Jenkins Pipeline using Docker-Jenkins Integration.
* Responsibilities include developing complex build, test, provision, secure and deployment systems and providing support to a large community of developers and tester.
* Worked on Branching and Merging, Resolving Branching Strategy maintaining Branching strategy using GIT.
* Writing basic plays for On-premises Server Management.
* Implementing Continuous Delivery pipeline with Docker & Swarm, Maven and Jenkins.
* Executing builds and troubleshooting builds, Interaction with development and QA teams.
* Created Ansible Playbooks for Push Button Deployments through Jenkins.
* Managed Server configuration through Ansible Playbooks.
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins.
* Test cases reports & Code Coverage details.
* Managed package repositories like Jfrog, Artifactory and Sonatype Nexus.
* Good team player and have ability to work independently in a time sensitive environment.
* Well organized, results oriented individual with proven ability to implement standards, procedures and processes that improve business functionality.
* Troubleshooting and performance tuning of various systems problems such as application, network and hardware related issues.
* Involved in Agile process, by-weekly Sprints and, daily Scrums to discuss the progress.
* Proven ability to work efficiently in both independent and teamwork environment. Energetic and perseverant self-starter.
* Working on AWS cloud to manage and configure EC2, S3, EBS, AMI, ELB, AUTOSCALING, VPC etc.

**Environments:**

Build infrastructure design, SCM, GIT, Docker Swarm, Ansible, Continuous Integration, Continuous Delivery, Configuration Management, Release Automation, Installers, Packaging, Build languages, Scripting, Shell, Ant, Maven, Linux, Apache Tomcat, Nexus, SonarQube, Monitoring tools, AWS.