**Sai Nishant N**

**909-492-0216** [**|nsnishanth93@gmail.com**](mailto:|nsnishanth93@gmail.com)

**DevOps and Cloud Engineer**

**Objective**

Experienced in DevOps Complete life cycle planning, delivery, and strategy, along with cloud computing and technology solutions on AWS and Azure. Proficient at monitoring performance and increasing productivity by establishing goals and meeting deadlines. Seeking a challenging and rewarding position in a dynamic environment that will utilize my skills and experience, to encourage growth and excellence.

**Summary**

* Worked as Cloud Administrator on Microsoft Azure, involved in configuring virtual machines, storage accounts and resource groups, and worked on **Azure SQL Database**, **Virtual machines**, **Fabric controller**, **Azure AD.**
* Good Hands-on Experience in provisioning of **IaaS, PaaS, SaaS** virtual machines and web/worker roles on **Microsoft Azure classic** and **Azure Resource manager**. Handle escalated Support tickets till closure for MS **Azure IaaS platform**.
* .Hands-on experience Designing, planning and implementation for existing On-Prem applications to  **Azure Cloud** (ARM), Configured and deployed **Azure Automation Scripts** utilizing Azure stack (Compute, Web and Mobile, Blobs, ADF, Resource Groups, Azure Data Factory, **Azure SQL**, Cloud Services and ARM), Services and Utilities focusing on Automation.
* Worked in AWS environment, for utilizing Compute Services (**EC2, ELB**), Storage Services (**S3, Glacier, Block** **Storage, Lifecycle Management policies**), **CloudFormation** (JSON Templates), **Elastic Beanstalk, Lambda, VPC, RDS, Trusted Advisor and Cloud Watch.**
* Worked on creating **cloud formation templates** that creates the stacks and deploys other AWS resources. Created VPC tunneling connections, managed route tables and NACL in AWS VPC.
* Involved in Implementing the **AWS Step Function** for coordinating the compounds of distributed Applications and microservices.
* Utilized **Stack Storm** orchestrations to design cloud applications workflow.
* Involved in changing over existing AWS infrastructure to Serverless architecture (**AWS Lambda, AWS Kinesis**) through the creation of a Serverless Architecture using AWS Lambda, API gateway, Route 53, S3 buckets.
* Skilled using messaging queues such as Kafka, RabbitMQ, Redis, Pub/Sub, etc.
* Worked on **confluence**- Assigned user personal space and provided assistance in using Confluence
* Extensively used **GIT** and had been **GIT Admin** in maintaining security policies and assigning user-based roles and permissions for various hosted repositories on day to day basis.
* Worked on tools like **Maven** and **Jenkins** for build and deployment automation for java-based projects. And worked on another build tool **ANT** in Jenkins to move from one environment to another environment.
* Experienced in Shell/Perl deployment scripts for TC Server/**Tomcat** web application servers
* Good knowledge on Setting up **Jenkins CI/CD pipeline** from scratch and automating manual tasks wherever possible in the Delivery pipeline.
* Hands-on Experience with **Bamboo** for Creating CI/CD pipelines and setup auto trigger build and delivery.
* Expertise in implementing **Terraform modules** for deployment of various applications across Azure cloud provider and managing infrastructure.
* Created reusable **Terraform** modules for creating Virtual Machines (Windows, Linux), Load Balancer.
* Involved in design, implementation and modifying the **Python** code.
* Experience in implementation of **Python** web frameworks like Django, Flask
* Experience with Installation, Configuration and Maintenance of configuration and automation tools like **Puppet**, **Chef**, **Ansible**.
* Experience in automated infrastructure provisioning and Application deployment using **Chef**.
* Hands on experience on automating various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using **Ansible playbooks** and on Integrating Ansible with Run deck and Jenkins.
* Worked on container-based technologies like **Docker**, **OPENSHIFT** and **Kubernetes**
* Perform maintenance and troubleshooting of our enterprise Red hat **OpenShift** systems
* Work to continuously improve speed, efficiency, and scalability of **OpenShift** systems
* Created **Docker Images** using a **docker** file, worked on **Docker Container** Snapshots, removing images, and managing Docker Volumes.
* Involved in Installing and configuring **Kubernetes** UI for better visualization of the Cluster Managements, Nodes and Pods in the environments.
* Worked on orchestration tools like **Kubernetes** for Docker images to spin – up containers in **AWS**.
* Experienced in monitoring System or Application Logs of server using **Splunk** to detect Production issues.
* Hands-on experience in version control tools like Subversion, **TFS**, **GIT**, **BIT-Bucket** Perforce Version wherein experienced with tagging, branching on platforms like Linux/Windows and used Source code management client tools like, **GIT Bash**, **GitHub**, **GIT**- **GUI**and other **CLI**applications etc.
* Good hands on Java (JDK-13), Python, PowerShell, and Bash

**Technical Skills**

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| --- | --- |
| **Operating Systems** | Linux,Unix, Windows servers, Mac OS, CentOS 5/6/7, |
| **CI and CM Tools** | Jenkins, Bamboo, Chef, Puppet, and Salt stack |
| **Build Tools** | ANT, MAVEN, Gradle, |
| **Databases** | Oracle, SQL server, My SQL |
| **Cloud Technologies** | Microsoft Azure, AWS, PCF, GCP (PoC) |
| **Version control tools** | GIT, Bitbucket, SVN |
| **Languages** | C, C++, Java (JDK-13), Python (3.3 and 3.4), Bash & Shell scripting. |
| **Processes** | Agile-Scrum, Waterfall |
| **Tracking Tools** | Jira, Rally, clear quest |
| **Web Technologies** | HTML, CSS, Java Script, Bootstrap |
| **Application Servers** | Tomcat, JBOSS, Apache, IIS, WebSphere |
| **Monitoring tools** | Nagios, Zabbix, AWS CloudWatch, Splunk |

**Education Qualification:**

**Master’s in technology management from Bowling Green State University, Ohio, USAs**

**Certifications:**

* **Scrum Foundation Professional Certificate**
* **AWS Solutions Architect Associate**

**Professional Experience**

**Care Source Health Care August2020-present**

**DevOps/Cloud Engineer**

**Roles and Responsibilites:**

* Worked on **Microsoft Azure**, involved in configuring virtual machines, storage accounts and resource groups. Remote login to Virtual Machines to troubleshoot, monitor and deploy applications.
* Managed Azure Infrastructure Azure Web Roles, Worker Roles, SQL Azure, Azure Storage, and Recover from a Recovery Services Vault using Azure PowerShell and Portal.
* Worked on standing up of Domain Controller in 2 major regions of the organization- Implemented it utilizing Terraform, configuration managed by Chef, and created reusable infrastructure via the CI/CD pipelines (Azure) for the existing environments.
* Worked on Stack Storm platform for integration and automation across services and tools
* Documented mapping of existing VM infrastructure on **Azure VM** with specific recommendations on how we can deploy the infrastructure in the most reliable, manageable, and cost-effective manner.
* **Worked on Terraform** modules that had version conflicts to utilize during deployments to enable more control or missing capabilities. Managed different infrastructure resources, like physical machines, VMs and Docker containers using **Terraform**.
* Created reusable Terraform scripts and PowerShell scripts to create and publish database to Azure SQL Server.
* Used **Chef** to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points and Packages.
* Debugging **Chef** Recipes and their execution trying to pull logs into Splunk and monitor deployments.
* Written Chef Recipes to automate our build/deployment process and do an overall process.
* Worked on setting up Azure Kubernetes Services using Terraform Scripts and setup CNI Calico on AKS for Kubernetes Networking.
* Worked on Docker files to create Docker Images and stored them in Artifactory and used docker for developing containers and images locally and then pushing the images to the antifactory.
* Worked in an Agile environment and have followed bi-weekly sprints with all the scrum related ceremonies.

**DTCC, Tampa, FL June 2019-july2020**

**DevOps and AWS Cloud Engineer**

**Responsibilites and Duties:**

* Day to day job included but not limited to **handling Tickets, Monitoring, Troubleshooting and maintenance.**
* Worked as **DevOps/Cloud Engineer** to support client applications hosted on **AWS** platform, migrating applications on AWS and provisioning of new applications using CI/CD tool.
* Written Templates for AWS infrastructure as a code using Terraform to build staging and production environments. Defined Terraform modules such as Compute, Network, Operations and Users to reuse in different environments.
* Created S3 buckets, managed policies and capabilities to append metadata tags to objects, move and store data across the S3 storage classes, configure and enforce data access controls, secure data against unauthorized users, run big data analytics, and monitor data at the object and bucket levels.
* Utilized Cloud Watch to monitor resources such as **EC2, Amazon RDS DB services, Dynamo DB tables, EBS** volumes to set automated actions and observe logs for a better understanding and operation of the system.
* Worked on Step Function to enable coordination of multiple AWS Services into a serverless workflow
* Worked on AWS Step Function main Component i.e. State Machine for defining communications between states and how data is passed from one state to another.
* Utilized **Step Functions** to control AWS services, such as [AWS Glue](https://aws.amazon.com/glue/), to create extract, transform, and load (ETL) workflows.
* Built and configured a virtual data center in the **AWS Cloud** to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables and Elastic Load Balancer.
* Worked with **Chef** Enterprise Hosted as well as On-Premise, Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to Chef-server, Managed On-site OS/Applications/Services/Packages using Chef as well as AWS for EC2/S3/Route53 & ELB with Chef Cookbooks.
* 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.
* Worked in container-based technologies like **Docker**, **Kubernetes** and **Open-Shift**.Point team player on **OpenShift** for creating new Projects, Services for load balancing and adding them to Routes to be accessible from outside, troubleshooting pods through ssh and logs, modification of Build configs, templates, Image streams, etc.
* Worked with engineers, product managers & architecture to understand data needs and help build & migrate data projects onto **Snowflake d**ata warehouse
* Worked on AWS-provided streaming tools, such as Amazon **Kinesis Data Streams (Kafka)** and Amazon Kinesis Firehose.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto-scaling **Kubernetes AWS infrastructure** and micro service container orchestration.
* Worked on Terraform code Optimization and tuning and did documentation on **Terraform roll back** like its approach, process, defining the polices per type of resources included in the repo with respect to the type of resources.
* Worked with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation Configured Elastic Load Balancers (ELB) with EC2 Auto scaling groups.
* Used **Terraform** as an **IaaS** (Infrastructure as a service) to develop modules for various AWS services like RDS databases, Lambda, Elastic Map Reduce and security group configurations also other services.
* Implemented &maintained the branching, tagging & build/release strategies using SCM tool like **GIT,** and maintained build packages using **Team Foundation Server**(TFS) on **Linux**& **Windows**platform.
* Implemented Continuous Integration (CI) and Continuous deployment (CD) using various CI Tools like Jenkins,
* Using Jenkins as orchestration tool to automate the provisioning of infrastructure code.
* **Continuous integration (CI)** using **Jenkins** for automated deployment of builds to various environments.
* Worked on Developing CI/CD system with **Jenkins** on **Kubernetes** container environment, utilizing **Kubernetes and Docker** for the CI/CD system to build, test and deploy.
* Used **Jenkins** for deployment into **Tomcat** application server.
* Installed and administrating the **SonarQube** for code quality check and Nexus repository and generating reports for different projects. Also, integrated them into Jenkins.
* Helped to understand the process of **SonarQube** through Presentations and other business value measurement.
* Created **Docker images** for our testing team to run the application on different environment and I have created private **Docker registry** for our dev team for pulling and pushing containers
* Worked with the developing team for developing **Python**and **shell scripts**for automation of the build and release process.
* Worked with the developers to write **Python** code embedded with JSON and XML to produce HTTP GET request, parsing HTML data from websites.
* Worked on deployment of different applications using technologies like **Python**
* Did Set up build environment integrated with **GIT** and **JIRA** to trigger builds using Web Hooks and Slave Machines.

**H&M, Atlanta, GA Feb 2017 – May 2019**

**Role: Sr DevOps/Cloud Engineer**

**Responsibilities and Duties:**

* Did **Documentation** on mapping our existing VM infrastructure on Azure VM with specific recommendations on how we can deploy the infrastructure in the most reliable, manageable, and cost-effective manner.
* Worked on **Microsoft Azure** (public) cloud to provide **IaaS** support to client.
* Segregated the **Azure** services as part of **sprint** planning and preparing the hardening checklist for each **Azure** service. Creating new **Azure ARM templates** and artifacts to update the existing **PaaS** services as per the security standards
* Used **Azure Service Fabric** for package, deploy, and manage scalable and reliable micro services and containers.
* Worked with the developers by using **Azure Service Fabric** for avoiding complex infrastructure problems
* Used **Azure AD** using AD connect, configured SSO and multifactor authentication. Also configured SSO from Windows 10 based computer which is joined to Azure AD.
* Worked on **Terraform script** for reusable to host chat application behind multiple **Azure VMs** and load balanced using Azure Application Gateway.
* Capture an image of a Virtual Machine. Attaching a Disk to a **Virtual Machine**. Manage and create Virtual Network and End Points in **Azure** Portal.
* Usage of Log analytics service to monitor cloud and on-premises environments. Created the workspaces in Log analytics on **Azure** to store logs and created alerts for critical messages in logs.
* Managed the **Azure** Security groups and attached them to VM's and Subnets using **Azure Portal** as well as **PowerShell** Scripts.
* Worked on Terraform state for assess restoration of the state file from backup.
* Administered **Jenkins** for deployment into Apache **Tomcat** Application Servers, testing in build environment and release to test team on scheduled time.
* Maintain and track inventory using **Jenkins** and set alerts when the servers are full and need attention.
* Integrated **GitHub** to **Jenkins** to automate the code check-out process.
* Worked in Event Hub partition receiver consumer approach and deployment automation via **Terraform**/PowerShell/ARM.
* Installed and Configured the **Nexus** repository manager for sharing the artifacts within the company.
* Worked on **Chef cookbooks/recipes** to automate Infrastructure as a code
* Deploying and maintaining multi-container applications through **Docker**, orchestrated containerized application using **Docker-Compose** and **Kubernetes** and troubleshooting various issues related to networking on **Kubernetes** cluster.
* Utilized **Kubernetes** for the runtime environment of the CI/CD system to build, test deploys.
* Identify and automate solutions to improve the performance, monitoring, scalability, and overall stability of our platform.
* Administered **Jenkins** for deployment into Apache **Tomcat** Application Servers, testing in build environment and release to test team on scheduled time.
* Used **Ansible** and **Ansible tower** for configuration automates repetitive tasks, quick deployments in critical applications and proactively manages change.
* Worked on **Docker container** snapshots, removing images and created Docker images using Docker file.
* Developed automation scripting in **Python** to deploy some applications.
* Used **Kubernetes** for Managed Docker Orchestration and Docker containerization.
* Installed and configured **Splunk** for log monitoring and forwarded system stats to Splunk indexer, created dashboards and alerts using this data.
* Installed, updated, and managed **JIRA, JIRA Service Desk**, and **Confluence** on a Windows based Server.
* Managed team of JIRA and Confluence administrators implementing Atlassian tools for users.

**PNC Bank, Toledo, Ohio Oct 2015 – Jan 2017**

**Role: Build and Release Engineer**

**Responsibilities and Duties:**

* Worked on Projects targeting **migration** from our On-premise into **AWS** by executing Maven builds to automate artifacts like a jar, war, and ear and pushing the War, Jar, war files into an S3 bucket **(AWS)**
* Worked on AWS cloud in designing, managing, maintaining the entire infrastructure using **Terraform** templates and migrated applications from on-prem to Cloud that are reliable, scalable and highly available.
* Done with Automation of**AWS** resources and many other resources like **Docker** and Severs automation by using **Ansible**.
* Used **Terraform** to manage the AWS and other cloud infrastructure. Managed servers using configuration management products like **Ansible** or Puppet.
* Interacted with client teams to understand client deployment requests.
* Managed Docker orchestration and Docker containerization using **Kubernetes**. Used **Kubernetes** to orchestrate the deployment, scaling, scheduling and management of Docker Containers.
* Building/Maintaining Docker container clusters managed by **Kubernetes** Linux, Bash, GIT, Docker, on GCP
* Analyzed the **ANT Build projects** for conversion. Converting the ANT Build projects to **Maven Build projects.**
* Automated build and **deployment using Bamboo** to reduce human error and speed up production processes
* Developed Processes, Tools, Automation for **Bamboo** based Software for Build system and delivering SW Builds.
* Managed Build results in **Bamboo and Deployed** using workflows.
* Wrote **Puppet** manifests and modules to deploy, configure, and manage servers.
* Deployed the applications to Web sphere Application Server and static content to apache web servers.
* Used puppet and **GitHub** repository. Deployed the applications on multiple WebLogic Server instances and maintained Load balancing and high availability.
* Developed new build jobs, Integration testing jobs and deploy jobs in **Bamboo** to automate the process.
* Implemented &maintained the **branching** and build/release strategies utilizing Subversion in Linux environments.
* Developed Ansible scripts for an automated server provisioning and **Docker images** for isolation, reducing the time between provisioning and deployment from over 3 hours to less than 10 minutes.
* Performed re-starts, xml, and environment properties, config changes.
* Administered **Bamboo** for Continuous Integration and deployment into **Tomcat/Web Sphere Application Servers**. Integrated builds with Code Quality Tools like Cobertura, PMD and Find bugs.
* Worked Daily ticket resolution with Sales force & **JIRA** ticketing systems for customer facing issues.

**Nationwide Insurance, NJ May 2014 – Aug 2015**

**Role: DevOps Engineer**

**Responsibilities and Duties:**

* Handled virtual servers (Windows, **Linux,** and Ubuntu) on **AWS EC2**using open source **Chef Server**.
* To achieve Continuous Delivery goal on high scalable environment, used **Docker** coupled with load-balancing tool **Nginx**.
* Performed Tagging, Branching, and Release Activities on version control tools **GIT** and **SVN**.
* Worked on maintained and configured web servers like **HTTP webserver**, **Apache webserver** and WebSphere application server on Red Hat.
* Managed **AWS cloud** and **Chef Automation**.
* Used **Jenkins** for enterprise scale infrastructure configuration and application deployments.
* Checking out code from SVN/GIT and use Ant/Maven to build War/Ear artifacts
* Used **ANT** and **MAVEN** as build tools on Java projects for the development of build artifacts on the source code.
* **Maintained and administered GIT source code tool.**
* **Created Branches, Labels and performed Merges in Stash and GIT.**
* Worked on **GitHub** and Developed GIT hooks for the local repository, code commit and remote repository, code push functionality.
* Used **Ant/Maven** for building Java/J2EE Applications.
* Built scripts using **Ant** and **Maven** build tools in **Jenkins** to move from one environment to other environments.
* Created parent-child relationships between projects for managing **Maven project dependencies**.
* Used **Jenkins** for continuous integration and continuous deployment with build tools like **Maven.**
* Used cookbooks to deploy **python** applications on **AWS** Ops Works and also used script resources such as python to execute scripts in **Chef**.
* Used **JIRA** defect tracking tools for tracking defects and changes for change management.

**Web Labs IT Solutions**,India **June 2013 – April 2014**

**Release Engineer**

**Responsibilities and Duties:**

* Associated with Project Managers to understand a code/configuration release scope and how to confirm a release was successful.
* Worked on continuous integration by using **Jenkins** and **packers**.
* Installed and configured Jenkins master that served 25 different slaves supporting 6 different
* Applications with various release life cycles and multiple **CI pipelines** setup on project branches.
* Learnt **ANT** and **MAVEN** as build tools on Java projects for the development of build artifacts on the source code. Worked in **Apache** and **WebLogic** like web server and application server.
* Worked in windows and **VMware server** automation using scripting language Power shell, VB Script.
* Used sub modules in the GIT. Configured **plugins for the integration tools** to the version control tools.
* Created **JIRA issues** to prioritize and take action on what's important and stayed up to date with what's going on around the project.
* Integrated **Maven** with Jenkins for the builds as the Continuous Integration process.
* Used **JIRA** for tracking and updating project defects and tasks.
* Ensured all steps are successfully completed and document their completion times and issue logs.

**Green Buds Software Technology, India Aug 2012-April 2013**

**Position: Linux Administrator**

**Responsibilities and Duties:**

* Administered **Red-Hat Enterprise Linux**5.x/4.x, OEL 5.x, & **Solaris**9 Servers by testing, tuning, upgrading, patching, and troubleshooting both Physical & Virtual server problems. Build New virtual Machine and physical server IP bonding for load balancing and fail over, **Firewall,** **SELINUX**
* Performed server installation using Network-Based **Kickstart**and **DVD**on physical servers, **VMware**and **OVM**
* Created **Linux**Virtual Machines using **VMware**Virtual Center, creating VM Templates, and troubleshooting all Virtualization related issues. Migrated different projects from **Perforce**to **SVN.**
* Created **Disk**volumes, Volume groups and **Logical volumes**(LVM) for Linux operating systems. Installed and Configured **Apache Tomcat**Web Server
* Performed installation, configuration, and administration of system network components (**WindowsServer**, **ActiveDirectory**, **VPN** connectivity, **DHCP**, **SMTP**, **LAN**/**WAN**, **NAT**, **IPsecVPN**, **FTP**, **POP**, **IMAP**, **NIC's**, **WIC's**).
* Involved in running **LAMP**(Linux**,** **Apache,** **MySQL**, and **PHP**) systems in agile quick scale cloud environment and Created **Bash**, **shell**, **python**scripts to monitor system resources and system maintenance.
* Deployment and configuration of application server Tomcat deploying java and web application.
* As a part of proactive maintenance planned, scheduled, and implemented OS patches on Linux boxes.
* Chef was used for managing server application server such as Apache, MySQL, and Tomcat.
* Integrated GIT into Jenkins to automate the code check-out process.