**SANITH REDDY**

**T: +1(941)-877-0551| Email:** [**sanithdevops@gmail.com**](mailto:sanithdevops@gmail.com)

**Professional Summary**

Highly accomplished, versatile DevOps/Cloud and software engineer with 8 years of professional experience contributing to enterprise-scale software development life cycle (SDLC) initiatives; adept in delivering best-practice support to end-to-end application design, development, testing, defect management, integration, and post-implementation support life cycle.

* Experience on complete software development life cycle (SDLC) management with software development models like Agile development methodologies, Scrum Model.
* Designing ,developing and deploying the reliable infrastructure with high availability, fault tolerant, scalable, load balanced, cost effective as per industry standard best practices using the resources like EC2, cloud formation, autoscaling, launch configuration/template, ALB, Elastic Load Balancing, VPC, Subnets, IAM, SNS topics, SQS, Route53, CloudFront, CloudWatch, CloudTrail, Elastic Search, Direct connect, Systems manager, AMI’s, Lambda, Fargate, S3 buckets, API Gateway, Kinesis, firehouse, Dynamo DB, RDS, AWS Athena etc.
* Experience in Cloud automation using AWS Cloud Formation Template, Chef, and Puppet. Software Implementation and Integration experience that includes Analysis, Design and Development Analysis.
* Experience in Azure IaaS, PaaS, Provisioning VM's, Virtual Hard disks, Virtual Networks, Deploying Web Apps and creating Web-Jobs, Azure Cosmos DB, Active Directory, Azure Windows server, Microsoft SQL Server, Microsoft Visual Studio, Windows PowerShell, Cloud infrastructure.
* Implemented one click deployment using Chef, AWS and implemented a completely elastic and scalable infrastructure in the cloud using Jenkins, chef, Puppet.
* Experience in Designing and implementing in Azure Development and worked on Azure web application, App services, Azure storage, Azure SQL Database, Azure Virtual Machines, Azure AD, Azure search, Azure DNS, Azure VPN Gateway, and Notification hub.
* Expertise in Azure Platform Development, Deployment Concepts., hosted Cloud Services, platform service and close interface with Windows Azure Multi-Factor Authentications Continuing architectural changes to move software system offerings to a distributed, service-based architecture; utilizing Docker/Kubernetes technologies.
* Expertise Atlassian tools JIRA, Confluence, Bitbucket, Bamboo for defect management, team collaboration, source code management and continuous integration and deployment practices.
* Well versed in scalable and highly available Domain Name System (DNS), to route traffic to AWS Cloud from users connected using AWS Direct Connect for larger deployments.
* Skilled in monitoring servers using Nagios, Splunk, Sumo Logic, ELK, AppDynamics, New Relic, CloudWatch and Zabbix for Resource Monitoring, Network Monitoring and Log Trace Monitoring.
* Experience in working on source controller tools like Subversion (SVN), PVCS, Microsoft VSS and GIT and experienced in branching, tagging, and maintaining the version across the environments working on Software Configuration Management (SCM) tools like Subversion (SVN)and GIT.
* Experience in Bug Tracking tool like JIRA, BUGZOLLA, Mantis and Trance.
* Hand on experience in integrating Terraform with Ansible, Packer to create and Version the AWS Infrastructure, designing, automating, implementing and sustainment of Amazon machine images (AMI) across the AWS Cloud environment.
* Expertise in installing APM tools and created custom dashboards in New Relic and AppDynamics.
* Experience on Python Boto framework and CloudFormation to automate AWS environment creation along with the ability to deployment on AWS, using build scripts (AWS CLI) and automate solutions using Shell and Python.
* Strong background in Linux/UNIX environments and scripting for Build & Release automation.
* Strongly proficient in Build and release of Cloud based products containing Linux and Windows environments, using Power Shell, TFS and Python Scripting and in oriented application using Java and scripting languages like Shell Scripting (Ksh, Bash), Ruby, PHP PERL scripts to totally automate AWS services.
* Expertise in writing Chef/Puppet cookbooks/recipes to automate Infrastructure as a code.
* Strong knowledge on SaaS, PaaS and IaaS concepts of cloud computing architecture and Implementation using AWS, OpenStack, OpenShift, Pivotal Cloud Foundry (PCF) and Azure.
* Experienced in working on Docker hub and Docker swarm, Docker compose creating Docker images and handling multiple images primarily for middleware installations and domain configuration.
* Experience in working with Jenkins in a Docker container with EC2 slaves in Amazon AWS cloud environment and familiar with surrounding technologies such as Mesos (Mesosphere) and Kubernetes.
* Expertise with Pivotal Cloud Foundry, Kubernetes architecture and design, troubleshooting issues with platform components (PCF), and developing global or multi-regional deployment models and patterns for large-scale developments and deployments on Cloud Foundry, OpenShift and Kubernetes.
* Experienced in authoring pom.xml, build.xml files performing releases with the Maven, ANT release plugin, and managing artifacts in Sona type NEXUS, JFrog Artifactory.
* Hands on experience in integrating Docker container-based test infrastructure to Jenkins CI test flow and set up build environment integrating with Git and Jira to trigger builds using Web-Hooks and Slave Machines which involved in POC on Docker and used Docker registry, Docker-compose, Links, Docker bridge.
* Experience in setting up Kubernetes (k8s) Clusters for running microservices and Pushed microservices into production with Kubernetes backed Infrastructure. Development of automation of Kubernetes clusters via playbooks in Ansible.
* Expertise in implementing Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manage change by writing Python code by using Ansible Python API to automate Cloud Deployment Process.

**Education**

* Osmania University, Bachelor's in Computer Science. July 2009 – May 2013
* Radford University, Master’s in Computer Science January 2016 – May 2017

**Technical Skills**

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| --- | --- |
| Cloud Platforms | AWS, Azure |
| Version Control Tools | GIT, GITHUB, Bitbucket, SVN |
| Configuration Management Tools | Ansible, Chef, Puppet |
| CI /CD Tools | Jenkins, Bamboo |
| Build Tools | Maven, ANT |
| Containerization Tools | Docker, Docker Swarm, Kubernetes, Mesos, OpenShift, Aws ECS. |
| Logging & Monitoring Tools | Nagios, Splunk, ELK, CloudWatch, Azure Monitor, Prometheus, New Relic |
| Scripting & Programming Languages | Shell Scripting, RUBY, C, C++, XML, PL/SQL, Java/J2EE, HTML, PERL, POWERSHELL, Python, Java/J2EE, .Net |
| Databases | My SQL, MS SQL, Oracle, Dynamo DB, Cassandra, Mongo DB 7 SQL Server |
| Application/Web Servers | Web logic, Web sphere, Apache Tomcat, Nginx, Oracle application server |
| Operating Systems | UNIX, Linux, Windows, Solaris, CentOS, UBUNTU and RHEL. |
| Virtualization Platforms | Oracle VirtualBox, VMware Workstation, Vagrant, VMware vSphere ESXi 5.x/4.X, ESX /3.x, Hyper-V |
| Bug Tracking Tools | JIRA, Bugzilla, Remedy, HP Quality Center, IBM Clear Quest, Mingle |
| Repositories | Antifactory, Nexus |
| Web Technologies | HTML, CSS, Java Script, jQuery, Bootstrap, XML, JSON, XSD, XSL, XPATH. |

Professional Experience:

**Client: BMW Technology Corp, Chicago, Illinois. August 2019 – Present.**

**Role: Sr. Azure DevOps Engineer.**

Responsibilities:

* Migrated on-premises instances to Azure Cloud using **ARM** subscription with Azure site Recovery and hands on experience with building and installing servers through ARM Templates.
* Configured continuous integration from source control, setting up build definition within Team Foundation Server **(TFS)** and configured continuous delivery to automate the deployment of **ASP.NET** Model-View-Controller (MVC) applications to **Azure web apps.**
* Provided high availability for **IaaS VMs** and **PaaS** role instances for access from other services in the VNet with Azure Internal Load Balancer and experience on **Azure VPN-Point to Site**, Virtual networks, **Azure Custom security**, end security and firewall also exchanged users to Microsoft Azure AD using Azure AD Connect, **Active Directory Federation Service ADFS and DirSync tools.**
* Created and Managed Virtual Machines in **Azure** and setting up communication with the help of Endpoints and **VM Migrations** from Transitional hosts.
* Involved in designing ARM templates, deployed to Azure Kubernetes and customized build process using **PowerShell**in Azure pipelines. Created **Azure Backup vault** and protecting required VMs to take the VM level backups.
* Used Code utility scripts in **PowerShell** to modify XML configuration files dynamically, which is used during the release process and also Used **PowerShell** scripts to handle various SharePoint admin jobs like backup, restoration, solution install/deploy.
* Used **Hashicorp** **Terraform** to create, change and improve production infrastructure and maintained versioning infrastructure safely and efficiently.
* Deployed microservices based applications on Azure Kubernetes by using **Azure Kubernetes services (AKS)**, Ingress API Gateway, MySQL databases and Cosmo DB for stateless storage of external data, and setup reverse proxy Nginx servers.
* Managed **Kubernetes** charts using **Helm**. Created reproducible builds of the **Kubernetes applications**, templatize Kubernetes manifests, provide a set of configuration parameters to customize the deployment and Managed releases of **Helm packages**.
* Implemented container-based deployments using **Docker** and designed **Docker** images, Hub and registries and installed **Docker** **Registry** for local upload and download of **Docker** **images** and even from **Docker hub**.
* Used **Docker** for convenient environment setup for development and testing. Worked on Docker container snapshots, attaching to a running container, removing images, managing directory structures and managing containers.
* Involved in writing **Ansible playbooks** for setup and configuration of tools including **Jenkins** and **Artifactory** on remote servers using **REST API** protocol and Created playbooks for deployments and bug fixes with **Ansible**.
* Used **Ansible Tower** for scheduling playbooks and used GIT repository to store playbooks and updated multiple manifests and customized facts.
* Worked with **Ansible for Orchestration of Deployments** for various servers and managed **Ansible Playbooks with Ansible modules, implemented CD automation using Ansible**, also involved in managing existing Tomcat Webservers and automated the configuration of new servers.
* Implemented **Jenkins** and built pipelines to drive all microservice builds out to the **Docker** registry and then deployed to **Kubernetes**.
* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in **Jenkins** to move from one environment to other environments.
* Automated configuration of infrastructure and deployment of web applications on webservers **Apache/httpd** and Java on application servers like **Tomcat** by using Ansible playbooks.
* Extended the generic process by attaching the **Jenkins Jobs, Web Hook** to all the current **Java** and **Scala**-based projects in **GitHub.**
* Involved in setting up JIRA as defect tracking system and configured various workflows, customizations and plugins for the **JIRA bug/issue tracker.**
* Worked with PowerShell scripts to automate the Azure cloud system creation including end-to-end infrastructure, VMs, storage, firewall rules.
* written **Jenkins Pipeline Groovy Scripts** for Continuous integration and build workflows and used Jenkins for uploading **Artifacts** into **Nexus Repository**.
* Used **Python** libraries such as paramiko, pycrypto, XML parser and logging libraries to develop automatic storage, networking deployment tool on scale-out environment with **Linux.**
* Installed, configured, supported, and troubleshoot Unix/Linux Networking services and protocols like **NIS**, **NIS+**, **OSPF**, **LDAP**, **DNS**, **NFS**, **DHCP**, **NAS**, **FTP**, **SSH** and **SAMBA**.

**Environment & Tools:** Azure, Docker, Kubernetes, Terraform, Ansible, Nginx, Jenkins, Maven, Ant, GIT, Jira, Python, Ruby, UNIX, Linux*.*

**Cloud/DevOps Engineer**

**Synchronous Technology, NJ                                                                    August 2018 – August 2019**

**Responsibilities:**

* Developed and supported key pieces of the company's **AWS** cloud infrastructure. Built and managed a large deployment of **Ubuntu** Linux instances systems with Opscode.
* Provisioning of infrastructure for our environments building **AWS** CloudFormation stacks from the resources **VPC, EC2, S3, RDS, Dynamo DB, IAM, EBS, Route53, SNS, SES, SQS, CloudWatch, Security Group, Auto Scale**.
* Creating NAT and Proxy instances in AWS and manage route tables, **EIP's** and **NACLs**. Configuring of **Virtual Private Cloud (VPC)** with networking of subnets containing servers.
* Wrote **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.
* Performed development and version control of **Chef** Cookbooks, testing of Cookbooks using Test Kitchen and running recipes on nodes managed by on-premise Chef Server.
* Worked with **CHEF** ohai plugin, chef handlers, push jobs and exposure to chef supermarket to leverage the existing cookbooks for quick automation of general deployment and Infrastructure tasks.
* Integrated **SonarQube** with **Jenkins** using **Maven** to get the Quality Analysis for all the Projects pre-deployment. Discussed the report with Developers to explain the SonarQube Report and to help improve code Quality.
* Implemented a Continuous Delivery pipeline with **Docker**, **Jenkins** and **GitHub**. Responsible for installation & configuration of **Jenkins** to support various **Java builds** and Jenkins plugins to automate continuous builds and publishing **Docker Images** to the **Nexus Repository**.
* 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.
* Virtualized servers in **Docker** as per test environments and Dev-environments requirements and configured automation using Docker containers.
* Worked on VMware application in **Splunk** to scheduling components that manage data collection tasks for the API data. The Collection Configuration dashboard coordinates the flow of data with the data collection nodes.
* Automated **Java** Builds with **Maven** and Implemented multiple plugins for Code analysis, Junit, Code coverage, PMD, **SonarQube**, etc. Installed and administered Artifactory repository to deploy the artifacts generated by **Maven.**
* Written **shell scripts** with **Bash, Python** to automate tasks like provisioning servers, installing, configuring packages and deploying applications on multiple servers in the Prod & Non-prod environments.
* Worked with **application/database** team to resolve issues for performance Tuning and Management of **Linux** servers.

**Environment:** AWS, GIT, GITHUB, SonarQube, Jenkins, Maven, Nexus, Ansible, Chef, LVM, Splunk, Nagios, DynamoDB, Python, shell scripting, Linux

**Environment:** AWS,Git, Maven, Jenkins, Linux, Jira, chef, Ansible, Docker, Splunk, python, EC2, S3, RDS, EBS, ELB, Opswork, Nexus, Bash, Unix/Linux, Nagios, Datadog.

**Client: Mayo Clinic, Rochester, MN. May 2017 – August 2018.**

**Role: AWS DevOps Engineer.**

Responsibilities:

* Created **AWS** S3 buckets, managed policies for **S3 buckets** and Setting up databases in AWS using **RDS** and configuring instance backups to S3 bucket. Managed cloud trail logs and objects by storing them in S3 buckets.
* Configured S3 to host static web content, **Elastic Load Balancers** with **EC2Autoscaling** groups and deployed Cloud Stack using AWS OpsWorks. Also designed roles and groups for users and resources using **AWS IAM**.
* Implemented additional layer of security for **S3 buckets** by defining customized **bucket policies**, enabling **multi-factor authentication** for accidental deletion and enabling **Cloud Trail** to track API calls forauditing all AWS resources.
* Worked on **Docker hub,** creating **Docker images**, and handling multiple images primarily for middleware installations and domain configuration.
* Configured **Jenkins master** with necessary plugins and slaves to support scalability and agility and configured Jenkins to implement **nightly builds** on daily basis and generated change log to include daily changes.
* Integrated **Jenkins CI** with GIT version control and implemented continuous build based on check-in for various cross functional applications and created **GitHub Web Hooks** to setup triggers for commit, push, merge and pull request events.
* Responsible for **Continuous Integration (CI) and Continuous Delivery (CD)** process implementation-using Jenkins along with **Python and Shell scripts** to automate routine jobs.
* Installed **Chef Serve**r on the workstation and bootstrapped the nodes using Knife and involved in writing **Chef Cookbooks** and recipes to automate the deployment process.
* Involved in integrating **chef cookbooks** into Jenkins jobs for CD framework, and worked with various custom resources, created roles & environments, and using chef handlers for different auto Kickoff Requirement Jobs.
* Configured and setup **ELK stack** (Elasticsearch, Logstash and Kibana) to collect, search and analyze log files across the servers and monitored the servers using Cloud Watch and ELK for Network and Log Monitoring.
* Developed **Python and shell scripts** for automation of the build and release process, developed Custom Scripts to monitor repositories, Server storage.
* Created **Pre-commit hooks** in **Python/shell/bash** for authentication with **JIRA-Pattern** **Id** while committing codes in **SVN**, limiting file size code and file type and restricting development team to check-in while code commit.
* Deployed and configured **JIRA**, both hosted and local instances for issue tracking, workflow collaboration, and tool-chain automation.

**Environment & Tools:** AWS, Jenkins, Chef, Docker, Maven, Git, Ant, ELK, EC2, S3, RDS, EBS, Elastic Load Balancer, Auto Scaling, Shell, JIRA, Python, Nginx, Apache Tomcat.

## **Role: Azure Devops Engineer**

## **Client: Browngreer, Richmond | Virginia August 2016 – May 2017**

**Responsibilities:**

* Migrated on-premises instances to Azure Cloud using **ARM** subscription with Azure site Recovery and hands on experience with building and installing servers through ARM Templates.
* Configured continuous integration from source control, setting up build definition within Team Foundation Server **(TFS)** and configured continuous delivery to automate the deployment of **ASP.NET** Model-View-Controller (MVC) applications to **Azure web apps.**
* Provided high availability for **IaaS VMs** and **PaaS** role instances for access from other services in the VNet with Azure Internal Load Balancer and experience on **Azure VPN-Point to Site**, Virtual networks, **Azure Custom security**, end security and firewall also exchanged users to Microsoft Azure AD using Azure AD Connect, **Active Directory Federation Service ADFS and DirSync tools.**
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* Involved in designing ARM templates, deployed to Azure Kubernetes and customized build process using **PowerShell**in Azure pipelines. Created **Azure Backup vault** and protecting required VMs to take the VM level backups.
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* Used **Hashicorp** **Terraform** to create, change, and improve production infrastructure and maintained versioning infrastructure safely and efficiently.
* Deployed microservices based applications on Azure Kubernetes by using **Azure Kubernetes services (AKS)**, Ingress API Gateway, MySQL databases and Cosmo DB for stateless storage of external data, and setup reverse proxy Nginx servers.
* Managed **Kubernetes** charts using **Helm**. Created reproducible builds of the **Kubernetes applications**, templatize Kubernetes manifests, provide a set of configuration parameters to customize the deployment and Managed releases of **Helm packages**.
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* Involved in writing **Ansible playbooks** for setup and configuration of tools including **Jenkins** and **Artifactory** on remote servers using **REST API** protocol and Created playbooks for deployments and bug fixes with **Ansible**.
* Used **Ansible Tower** for scheduling playbooks and used GIT repository to store playbooks and updated multiple manifests and customized facts.
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* Used **Python** libraries such as paramiko, pycrypto, XML parser and logging libraries to develop automatic storage, networking deployment tool on scale-out environment with **Linux.**
* Installed, configured, supported and troubleshoot Unix/Linux Networking services and protocols like **NIS**, **NIS+**, **OSPF**, **LDAP**, **DNS**, **NFS**, **DHCP**, **NAS**, **FTP**, **SSH** and **SAMBA**.

**Environment & Tools:** Azure, Docker, Kubernetes, Terraform, Ansible, Nginx, Jenkins, Maven, Ant, GIT, Jira, Python, Ruby, UNIX, Linux.

**Client: NIIT Technologies Pvt Ltd, Hyderabad, AP, India. February 2013 – December 2015**

**Role: Unix/Linux Administrator**

**Responsibilities:**

* Administered and **Maintained RHEL 4.x, 5.x,6.x and Solaris 8/9.**
* Configured and managed Jump Start Servers on Solaris and Kick Start Server on RHEL.
* Upgraded from Solaris 8 to Solaris 9 and RHEL 5.x to 6.0.
* Administered Linux Servers for Several functions including Apache Tomcat Server, Mail server and MYSQL databases in both development and production.
* Installed and **configured DNS, DHCP, WEB (Apache, IIS), Mail (SMTP, IMAP, POP3), and File servers on RHEL and Solaris.**
* Implemented and configured network servers such as HTTP, DHCP and TFTP.
* Performed Volume Management using VERTIAS foundation Suite 5, SVM and LVM and the Creation of ZFS. VxFS, UFS and EXT3 file Systems.
* Used Monitoring tools like Nagios and BMC by providing 24/7 Support on call rotation basis.
* Configured and Supported VERITAS Cluster Server 5 for various agents including SAP, ORACLE, DNS.
* **Modified LINUX Kernel (2.4**) to Control the swap.
* Wrote Bash Shell Scripting to automate system administration jobs.
* Backup and restore of file system using VERITAS NetBackup 6.5.
* Installation of Firewall Checkpoint and configured IP Filter, to protect Linux System that was placed on the internet.
* Worked with QA team to in Load and Integration testing of J2EE applications in JBOSS application servers.
* Performance tuning and troubleshooting of the application arising out of ticketing system in remedy.

**Environment**: Linux (RHEL5.x/6.x), Solaris 8/9, Apache Tomcat, WebServer, WebSphere Application servers 6.x, Rackspace, Volume Manager, VERITAS Volume Manager, VERITAS Cluster server 5, VMWARE ESX5.1, Oracle 11.