SAIKIRAN.m

**Sr.DevOps/Sr.SRE/Platform Engineer.**

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Description automatically generated with low confidence  <https://www.linkedin.com/in/saikiran-reddy-668116122/>

**Professional Summary:**

* 8 years of experience in various software domains where my specialization is in System Administration & DEVOPS which includes Build Configuration, SCM, Build and Release Management application under various platforms.
* Expertise in Red Hat Satellite Server installation, Red Hat Linux Kickstart, System Imager SUSE Autoyast and Jumpstart in Solaris.
* Migrated legacy applications to Microsoft azure cloud by setting up ci/cd pipelines on azure DevOps for GBD Project.
* Implementing processes such as Azure WAF.
* Good understanding and hands-on experience on setting up azure virtual machines, securing, access controls, backup and monitoring.
* Good experience in Build and release management with hands on experience on Implementing a CI/CD pipeline using Azure Build/Release pipelines.
* Experience in working with DevOps tools like SonarQube, Veracode, JFROG Artifactory And Jira.
* Expert in using version control tools like Subversion Magic XPA(SVN), GIT/BitBucket.
* Good understanding and hands-on experience on configuring and troubleshooting and securing Azure storage.
* Implemented Web Apps/API Apps using Azure Apps Service (PaaS).
* Good experience in creating, modifying, and enhancing both manual Test cases and Test Scripts created in selenium WebDriver & Code Coverage Analysis.
* Experienced in diagnosing and resolving TCP/IP connection problems
* I am part of the Manage build infrastructure EY document intelligence solutions, responsible for managing and designing DevOps strategy within Microsoft Azure Cloud products for multiple clients.
* Experienced in diagnosing and resolving TCP/IP connection problems.
* Experience in using build tools like Ant, Maven.
* Experience with large scale elastic search (ELK stack) clusters managing and administration of 5000+ instances

with various configurations and Implemented Security in Web Applications using Azure and deployed Web Applications to Azure

* Designed AWS Cloud Formation templates to create custom sized VPC’s, Subnets to ensure successful Cloud deployments and database templates. Deployed EC2 instances, attached security groups, attached profiles and roles using AWS Cloud Formation.
* Worked on Linux server virtualization by creating Linux VMs for server consolidations.
* Implemented multiple Tekton Pipelines in Kubernetes cluster and deployed various applications using Helm charts to create a Custom Resource Definition (CRD) application with flux tool.
* Working as the DevOps Engineer with proven expertise in Automation, ... platforms like Amazon Web Services (AWS), Azure and Google Cloud (GCP).
* For AWS IoT MQTT service, saving IRobot costs to install new certificates on 60,000+ robots during transitions to AWS .
* Used AWS lambda to run servers without managing them and to trigger to run code by S3 and SNS.
* Strong experience with AWS IAM service in creating IAM users & groups, defining roles and policies and Identity providers. And used them to restrict access to certain buckets from certain persons.
* Created alarms and trigger points in CloudWatch based on thresholds and monitored the server's performance, CPU Utilization, disk usage.
* Configured alerts using Azure Monitor for resources at different levels and thresholds.
* Configured alerts using Azure Monitor for resources at different levels and thresholds.
* Knowledge in Building/Maintaining Docker container clusters managed by Kubernetes, Docker on GCP.
* Set up CI/CD pipelines for Microservices and integrated tools such as Bitbucket, Docker, Jfrog, SonarQube, and Slack for providing immediate feedback to dev teams after code check-in.
* Experience in working with container-based deployments using Docker, Docker images, Docker file, Docker Compose and Docker registries. Handled large volumes of container clusters with Docker swarm, Kubernetes.
* Knowledge of PL/SQL with the experience in constructing the triggers, tables, collections, functions, user defined data type and procedures.
* Experience with HashiCorp tools **Terraform, Packer, Vault .**
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet.
* Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation and extensively used Auto scaling launch configuration templates for launching amazon EC2 instances while deploying Micro services.
* Expert level knowledge on Cloud AWS &amp; Azure Services.
* Cloud & Containers: AWS - CodeCommit, Code Pipeline, EC2, S3, EBS, Lambda, ECR, IAM, VPC, CFT, Cloud Watch, Auto Scaling, R53, Azure - Storage, DevOps, ...
* Experience in configuring the Azure Networking services (Vnet, Subnets, Network Security Groups, Application Security groups, VPN gateway, Firewall, Route Tables, Network Interface, Load balancers, Application Gateways
* Experience Splunk data is maintained throughout the life cycle of bucket Hot, Warm, Cold, Frozen bucketing.
* Good knowledge and experience in using elasticsearch, kibana, cloudwatch and Grafana for logging and monitoring.
* Setup datadog monitoring across different servers and AWS services.
* Identified potential and critical PII issue in Datadog. Implemented code flow redaction rule for them on ingestion, and
* worked with the application team to avoid sending them entirely.
* Strong understanding of infrastructure automation tooling (Terraform, cloud formation templates)
* Hands-on experience with scripting languages like Ruby, Python, PowerShell and Bash.
* Experience in deploying the developed code in a WebSphere/WebLogic/Apache Tomcat/JBOSS, IIS7.
* Strong experience working with Docker containers. Created and managed a Docker deployment pipeline for custom application images in the cloud using Jenkins.
* Systems integration for the EMV Card team using VMWare and customized software combinations to prep scripts for support teams.
* Expertise to handle tasks in RedHat Linux includes upgrading RPMS using YUM, kernel, HBA driver, configure SAN Disks, Multipathing and LVM file system.
* Proficient with Shell, Python, Ruby, Perl, PowerShell, JSON, YAML, Groovy scripting languages.
* Experience creating workflows, fields and other project components in Jira.
* Responsible for research and implementation of any new capabilities.
* Excellent communicative, interpersonal, intuitive, analysis and leadership skills with ability to work efficiently in both independent and teamwork environments.
* Managed servers on the Amazon Web Services (AWS) platform using chef configuration management tools and Created instances in AWS as well as migrated data to app services AWS from data Center.

**Education:**

2013, Bachelor’s in JNTU in Computer Science, HYD -INDIA.

2015 master’s in computer science – NYIT – NEWYORK -USA

**Technical Skills:**

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| **Cloud Services** | Amazon Web Services (AWS), AZURE.GCP |
| **Virtualization** | VMware ESX/ESXI, Windows Hyper-V, vSphere 5.x, Datacenter Virtualization, Power VM, Virtual Box, Citrix Xen, KVM. |
| **Operating Systems** | Red Hat Linux 4/5/6/7, CentOS, Magic XPA ,SUSE LINUX, UNIX, Windows servers [2003, 2008, 2008 R2, 2012, 2012R2], Windows  2000/2003/XP/vista/7/8/10, Ubuntu 12/13/14/15/16. |
| **Automation/configuration Tools** | Chef, Puppet,SonarQub, Ansible, Docker, Tricentis Vagrant, Jenkins, Hudson, Bamboo, Kickstart, Jumpstart, Linux Sys Admin Terraform, Kubernetes, ANT, SVMX ,Maven. |
| **Web Servers** | Apache Tomcat, JBOSS 4.x/5.x, Web Logic (8/9/10), WebSphere -  Apache 1.3.x, Apache 2.0.x, and nginx, IIS |
| **Database Technologies** | DB2, SQL Server, MySQL, RDS, NoSQL- MongoDB, Cassandra DB, DynamoDB,Data bricks |
| **Scripting languages** | Ruby, Python, Perl, PHP, Bash/shell Scripting, PowerShell Scripting YAML, JSON. |
| **Networking/Protocol** | FTP/SFTP, SMTP, TCP/IP, MQTT ,HTTP/HTTPS, NDS, DHCP, NFS, Cisco  Routers, Juniper Routers |
| **Version Control Tools** | GIT, Bitbucket, SVN (Subversion), CVS |
| **Monitoring Tools** | Nagios, Splunk, Elasticsearch, Logstash and Kibana(ELK), CloudWatch, CloudTrail, Dynatrace, Grafana |
| **Volume Manager** | VERITAS Volume manager, LVM |
| **Application Servers** | Web Logic Application Server 9.x, 10.x, Apache Tomcat 5.x/7.x, |

**Professional Experience:**

**Client: Anthem, OH SEP 2017 to Present**

**Role: Sr. DevOps Engineer**

**Responsibilities:**

* Create and configure Bamboo plans to automate end to end deployments.
* Worked on migration from 300+Jenkins jobs to Bamboo plans.
* Administration of Bamboo Implemented a Continuous delivery framework using Bamboo, Ansible, Maven and Oracle in Linux Environment.
* Worked in deploying CI/CD System using azure DevOps on Kubernetes container environment, and for the run time environment of CI/CD system to build, test and deployment we have utilized Kubernetes and docker.
* Work as the primary contact in DevOps support team for Government Business Division within Anthem to debug architectural failures, ensuring high availability applications with desired performance.
* Used Docker for local application deployment and test and did orchestrating between container using Docker swarm and writing Docker files.
* Hands-on experience Designing, planning and implementation for existing on premise applications to AZURE Cloud (ARM), Configured and deployed Azure Automation Scripts utilizing Azure stack Services and Utilities focusing on Automation.
* Working experience with setting up GitHub repositories from scratch and setting up of various pipelines based on AWS infrastructure.
* Used azure DevOps Resources such as azure Repos,Azure boards, and azure test plans to plan work in deployments.
* Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets.
* Moving to multi-cloud AWS, Azure, automation using Terraform, kubernetes, nomad, consul, Vault and Chef.
* Create automation to load all Kafka Topics into MSK upon creation from a CF Template.
* Experience in Windows Azure Services likePaaS, IaaS and worked on storages like Blob (Page and Block), Sql Azure. Well experienced in deployment & configuration management and Virtualization.
* Implemented Large Scale Cloud Infrastructure using AWS services (S3, SVMXEC2, ELB, EBS, Route53, VPC, auto scaling etc.) and deployment services (OpsWorks and Cloud Formation) and security practices (IAM, Cloud watch and Cloud trail) and services Lambda, EMR, Redshift, ECS, Elastic Beanstalk, X-ray.
* Used shared image gallery to store the created images and build azure pipeline in azure DevOps to implement all these services in Azure.
* Used Istio service mesh to implement dynamic service discovery and traffic management including traffic shadowing, traffic splitting, and service-to-service communication reliability.
* Implemented Veracode integration with Jenkins and automated security and vulnerability scans in Jenkins pipelines.
* Managed Elastic Cloud Computing (EC2) instances utilizing Auto scaling, Elastic Load balancing, and Glacier for our Dev and Test environments as well as infrastructure servers for GIT and CHEF.
* Experience in configuring the EFK (Elastic search, Kibana)/ELK (Elastic search, Logstash, Kibana) to monitor the logs for all OpenShift Projects. Management and Implementation of Linux (Centos, Redhat) and Windows (windows Server 2008/2012 R2), Middleware (Apache, PHP, Tomcat, JBoss and Fuse), and java applications.
* Management and Implementation of Linux (Centos, Redhat) and Windows (Windows Server 2008/2012 R2), Middleware (Apache, PHP, Tomcat, JBoss and Fuse), and java applications.
* Worked on Terraform for automating VPCs, ELBs, security groups, SQS queues, S3 buckets, and continuing to replace the rest of our infrastructure. Using Terraform as a tool, Managed different infrastructure resources Cloud, VMware, Bare Metal Servers and Docker containers.
* Worked on AWS services EC2, IAM, S3, Lambda, Cloud Watch, PaasDynamoDB, SNS, Elastic Beanstalk, VPC, ELB, RDS, EBS, Route 53, ECS and Auto scaling.
* Used Hashi corp Packer to create and manage the AMI and automated the whole AMI creation process using Jenkins jobs.
* Performed Auto Scaling, Magic XPA,Elastic Load Balance (ELB) & AMIs and utilized EBS to store persistent data and mitigate failure by using snapshots.
* Deployed multiple applications in k8s and spinning up with terraform.
* Created multiple scripts to automate manual tasks.
* Extensive experience with perforce, experience with SVN/CVS, and Got software configuration tools
* Upgraded EKS using AWS management console.
* Writing AWS Terraform templates for any automation requirements in AWS services.
* Managed Kubernetes charts using Helm. Created reproducible builds of the<strong>Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages. worked on Azure suites like Azure SQL Database, Azure Data Lake(ADLS), Azure Data Factory(ADF) V2, Azure SQL Data Warehouse, Azure Service Bus, Azure key Vault, Azure Analysis Service(AAS), Azure Blob Storage, Azure Search, Azure App Service, Azure data Platform Services.
* Financial Systems Integration for EMV Credit Card products using VMWare &amp; Custom Software Suite to create installation scripts for support organization.
* Used Azure Kubernetes service to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal, with the Azure CLI, also used template driven deployment options such as Resource Manager templates and Terraform.
* Working with best DevOps practices using AWS, Elastic Beanstalk and Docker with Kubernetes and Changed AWS infrastructure from Elastic Beanstalk to Docker and used Kubernetes for Orchestration.
* Automated various infrastructure activities like Continuous Deployment using Ansible playbooks and has Integrated Ansible with Jenkins on AZURE.
* Deployed and maintained production environment using GITHub AWS EC2 instances and Elastic Container Services.
* Created data dog dashboards for various applications and monitored real time and historical metrics.
* Integrated datadog with splunk dashboards with aws accounts.
* Installed, configured and maintained JBoss Application Server.
* Installing, upgrading and configuring RedHat Linux 5.x, 6.x using Kickstart Servers and Interactive Installation.
* Developed multiple dashboards using Grafana.
* Expert level knowledge on Cloud AWS &amp; Azure Services.
* Implemented HashiCorp tools like Vagrant, Terraform, Consul, and Vault.
* Experienced in Installation and configuration of Virtual DataPower.
* Experience automating Linux system provisioning with kickstart, DHCP, PXE, TFTP
* Experienced with Splunk SIEM (Security Information and Event Management) systems and security event correlation. Managing & administering 300 servers in 12 Data Centres.

**Environment:** AWS EC2, CloudFront,Terraform, cloud watch, Pcl , FTD RDS, S3, VPC, SNS, SQS, Cloud Trail, CI/CD, Route 53, Docker, Kubernetes, Terraform,P2PE, spring Magic XPA,Maven, Consul, Elk, Jenkins, GIT, SVN, JIRA, Ansible, Groovy, Shell scripting, Python Scripting, Data dog and Grafana

**Client: MERCK, WESTPOINT, PA**

**March 2016 to July 2017**

**Role: Sr. DevOps Engineer**

**Responsibilities:**

* Installing and configuring GIT distributed version control tool and migrated total SVN to GIT and Trained Total Development to start using git.
* Managing the database DDL, DML scripts in SVN and GIT.
* Created, updated, and maintained databases using Liquibase.
* With adapting P2PE solution (TCxPay), Obtained AoC within 5 months project period.
* Responsible for code review and making sure reviews are logged in crucible tools and fixed correctly and on time.
* Documenting the process of code promotion, defect tracking and user guide for Subversion. Maintained users' security on SVN. Worked with MAVEN for building the application, has written MAVEN scripts and shell scripts to automate the build process.
* Created Azure Automation Assets, Graphical runbook, PowerShell runbook that will automate specific tasks, deployed Azure AD Connect, configuring Active Directory Federation Service (AD FS)authentication flow, ADFS installation using Azure AD Connect, and involved in administrative tasks that include Build, Design, Deploy of Azure environment.
* Extensively worked on Jenkins for Continuous integration and for End-to-End automation for all build and deployments.
* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Experience working with service mesh like Istio for advanced service discovery of microservices running in the cluster.
* Developed build and deployment scripts using Maven as build tools in Jenkins to move from one environment to other environments.
* Worked on setting-up continuous deployment pipelines using Jenkins across multiple Kubernetes clusters to stress the clusters with new infrastructure tools for Kubernetes in development environments using Tekton
* Automated deployment of builds to different environments using Jenkins.
* Experience in designing and deploying AWS Solutions using EC2, S3, EBS, ELB, Auto Scaling groups. Cloud as a code with Ansible.
* Worked on various Unix/Linux clusters such as Oracle RAC, SAP service guard S2S and Local, Service guard CFS S2S and Local, Linux VCS HA Cluster S2S.
* Managed Azure Infrastructure Azure Web Roles, Worker Roles, VM Role, Azure SQL, Azure Storage,Azure AD Licenses, Virtual Machine Backup and Recover from a Recovery Services Vault using Azure PowerShelland Azure Portal.
* Developed Playbooks using Ansible to deploy consistent infrastructure code across multiple environments, used file module in Ansible playbook to copy and remove files on remote systems, Used Ansible to document application dependencies into version control and to setup Continuous Delivery pipeline and provisioned and patched servers regularly using Ansible.
* Worked on creating the Docker containers and Docker consoles for managing the application life cycle and Creation of custom Docker container images, tagging and pushing the images.
* Expert in setting up SSH, SCP, SFTP connectivity between Linux hosts. Experienced in DNS, NIS, NFS, CIFS, FTP, NIS, Samba Server, LDAP, remote access, security management, and system troubleshooting skills.
* Created a private cloud using Kubernetes that supports DEV, TEST, and PROD environments.
* Worked on Azure Site Recovery and Azure Backup- Deployed Instances on Azure environments and in Data centers and migrating to Azure using Azure Site Recovery and collecting data from all Azure Resources using Log Analytics and analyzed the data to resolve issues.
* Experience in writing python BOTO3 scripts for automating many services in AWS.
* Experience in Building S3 buckets and managed policies for S3 buckets and used S3 bucket and Glacier for storage and backup on AWS. Experience in writing scripts in Python for various applications.
* Experience in deploying, configuring and administering Splunk clusters.
* Responsible for analyzing, designing and coding of applications using Python (Robert framework).
* Experience in installation, configuration, tuning, security, backup, recovery and upgrades of Linux, Power Systems.
* Managed to change the class loading configuration in web sphere application server for debugging purpose
* Evolving new tools/methodologies to improve this existing process and show better results to all stakeholders.
* Strong development and design experience with various Java and JEE frameworks like Spring, Spring boot, Groovy, Grails, JAX-RS, JAX-WS, Apache CXF, Jersey, Apache Axis, JPA, Hibernate</strong>, MyBatis, Struts, JSF, EJB 3.1, EJB 2.1 and JMS.
* Creating a scope change request with plutora.
* Resolved system issues and inconsistencies in coordination with quality assurance and engineering teams.
* Improved the entire release process by automating all manual/time-consuming Steps with DevOps tools like Ansible, Jenkins, Docker, and AWS.

**Environment:** SVN, GIT, Crucible, Liquibase/ dbmastero, Ant,P2PE, Maven, Groovy, java, JEE, Jenkins, Ansible, Docker, Docker Swarm, AWS, JMS, plutora, TCP/IP, Jira, Splunk, Shell/Perl/Python Scripts.

**Medica - Hopkins Minnesota**   **April 2015 to FEB 2016**

**Sr. DevOps Engineer**

**Responsibilities:**

* Worked with different application teams to understand, analyze their current process, tools, techniques, workflows and involved in evaluation and finalization of a state of art tools.
* Used BitBucket for Version Control and TortoiseHg for Branching and Merging.
* Responsible for designing and deploying best SCM processes and procedures.
* Coordinate/assist developers with establishing and applying appropriate branching, labelling/naming conventions using GIT source control.
* Implementing a Continuous Integration and Continuous Deployment framework using Jenkins, Maven; Artifactory in Linux environment
* Integration of Maven/Nexus, Jenkins, UDeploy with Patterns/Release, Git, Confluence, Jira and Cloud Foundry.
* Migrated users from AD Domain Services to Azure AD using Microsoft Azure Active Directory Connect.
* Used PowerShell, Python, MSBuild, and Web Deploy for deployment automation.
* Implemented Hashicorp Consul for service discovery.
* Automated the Build and Deployment process using jBoss Server.
* Monitoring CPU, memory, ISCSI disks, disk controllers, physical disk, HW, multiplath, file system, network using tool Nagios.
* Successfully executed all the test cases and fixed any bugs/issues identified during the test.
* Installed and upgraded Jira in production to keep up to date.
* Worked on Chef Delivery for Continuous Delivery. Introduced HashiCorp Vault for secure secret storage.
* Worked closely with software developers and System admin to debug software and system problems
* Worked with telnet, FTP, TCP/IP, used to inter-operate hosts.
* Maintained and coordinated environment configuration, controls, code integrity, and code conflict resolution.
* Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
* Experience with container-based deployments using Docker, working with Docker images, Docker HUB and Docker registries and running Jenkins in a Docker container with EC2 slaves in Amazon AWScloud configuration.
* Verified if the methods used to create and recreate software builds are consistent and repeatable.
* Suggested tools and related implementation to engineering teams regarding cloud-based services.
* Used Jira as ticket tracking and workflow tool.

**Environment:** Java/J2ee, GIT, Bit bucket, Jenkins, Docker,Azure, Maven, ANT, Tomcat, Cloud computing, Jira, Shell, Python.