Sivakumar Vunnam
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- Over 5 years of work experience as DevOps Engineer/Staff DevOps Engineer in implementing AWS Standardization, Cost optimization, CI/CD, AWS Governance, configuration management tools with virtualization and container orchestration
- Experience in Amazon Web Services (VPC, EKS, ECS, Cloud formation, Code Deploy, API gateway Aurora MySQL, PostgreSQL, Mongo DB, IAM, EC2, EBS, auto-scaling and Load balancing, S3, cloud front, VPC, Rounte53, SQS, SNS, elastic search and beanstalk)
- Involved in Implementing end to end Migration for the project Hawk Incentives from IBM Data Center to AWS
- Hands-on experience in writing the cloud formation templates to spin up the AWS Services VPC, Bastion hosts, Hawk Incentives Application and Web servers auto-scaling and load balancing, Cloud Watch Alarms, Password Reset Server, PAN Data Server, Syslog Server, Splunk DS. etc.,
- Extensively worked on AWS Migration for the project Hawk Incentives and created the End to End CI/CD pipeline Continuous Integration and Delivery tools Jenkins.
- Working on container orchestration tool Kubernetes for Customizability, Scalability, and High availability of Continuous integration and deployment (CI/CD) using Git, Jenkins, Maven, Gradle, Ant, SonarQube, Coverity, Docker, Nexus, and Tomcat Server.
- Experience in Static code analysis tools like Coverity and Sonar cubes.
- Hands-on experience in Virtualization technologies like Docker and KVM
- Experience in writing Docker files for the virtual environment stages like Dev, QA, and Production using Docker files.
- Experience in Kubernetes orchestration for Docker Containers which handles scheduling and manages workloads based on user-defined parameters.
- Experience in Docker tools like Docker swarm and compose. Docker Swarm provides native clustering functionality for Docker containers, Docker Compose used to run the multi-Docker container applications.
- Experience in writing the Python script for automated Factory Installation.
- Experience in writing modules for creating environments for Dev, QA, and Production to deploy the applications to the servers using Configuration tools like puppet, Ansible
- Experience in setting up Virtual Box or Virtual Machines
- A team player who can also take the initiative to work individually.
- Highly confident individual and a fast learner in any given area of specification.

Blackhawk Network, Lewisville, TX   **Oct 2017 – Present**

Staff DevOps Engineer/Cloud Migration Engineer

Hawk Incentives, a Blackhawk Network business, delivers incentive programs that build relationships with easy-to-use platforms, global rewards and compelling program management. Our solutions include consumer, sales, channel and employee incentive programs. With a focus on access, ease, rewards and

speed, we create a better incentive experience that helps our clients increase their results without increasing their investments

Responsibilities:

- AWS Standardization: Standardizing CloudFormation templates across all environments for Hawk Marketplace Core Production migration to Oregon using Service Catalog. Core Production DR capability in Virginia for target platforms using Service Catalog.

- Cost Management: AWS account deprecation and decommission. Spot instances coverage >80% in all BHN Core Non-Prod accounts, Hawk Marketplace Non-Prod accounts. Reserved Instances coverage > 80% in all core Prod accounts with a stable baseline.
- CI/CD: Jenkins Enterprise pipeline adoption for across BHN Organization using Jenkins Shared Libraries
- AWS Governance: AWS golden image creation (Linux and Windows) and adoption of AWS Linux
- Hawk Redeem implementation in AWS: Migrating application from Datacenter to AWS with AWS Cloud Partners Collaboration.
- Development tool consolidation: Synergy/Marketplace Jenkins and bitbucket migration to Core BHN
- Extensively worked on AWS Migration for the project Hawk Incentives from IBM Data Center to AWS Virginia Region
- Handling day to day tickets opened in the rally ticketing system.
- Writing cloud formation templates for AWS migration to Automate the AWS Services VPC, Bastion hosts, PAN Data Server, Hawk Incentives Application and Web servers auto-scaling and load balancing, Cloud Watch Alarms, Password Reset Server, Syslog Server, Splunk Ds.etc. ,
- Hand on knowledge in working Amazon web services (IAM, EC2, EBS, S3, Cloud Front, Autoscaling and Load Balancing, VPC, RDS, ROUTE 53)
- Setup and maintain the CI/CD using Jenkins for AWS Code Deploy and AWS Cloud Formation
- Good Working Knowledge in Splunk (Log Analysis) And New Relic (Monitoring)
- Wrote scripts for ecs_volume backups.
- Extensively worked on implementing lambda function on BHN Code AWS Account's
- Written Shell script to deploy the code bundles to the different environment using Jenkins
- Extensively worked on writing the Code Builds for AMP-Studio React (UI). Configured it Nginx as a reverse proxy
- Working on implementing the Microservice called email microservice which connect the spring boot backend and send email templates to the customers.
- Did the POC with the (Terraform, EKS Cluster, Application Load Balancer, API gateway, Lambda, Aurora MySQL)
- Created CI/CD for Email Microservice
- Currently working on migrating project source code form Centralized Source Control (SVN) to Distributed Source Control (Git)

Western Digital, San Jose, CA   **July 2016 – Aug 2017**

DevOps Engineer

Responsibilities:

- Handling day to day tickets opened in JIRA ticketing system.

- Installation and configuring the EXSI server on Dell and Super Micro bare metal provisioning hardware's
- Clustering the EXSI and server and managing the servers using the VSphere and VCenter.
- Installation, configuring and administration the Linux and Windows VM's on ESXI servers.
- Hands-on experience in Manual factory installation.
- Implemented the automated factory installation on ActiveScale X100 and ActiveScale P100 hardware.
- Installing, upgrade, troubleshoot and manage VMware products over multiple racks
- Following Scaled Agile Framework (or SAFe) methodology which is an agile software development framework consisting of a knowledge base of integrated patterns intended for enterprise-scale Lean-Agile development.
- Supporting multiple geographical locations from Belgium & Asia
- Working on CI/CD automation for TAAS (Test Drive as a Service).
- Dockerized the java spring Boot microservice application by writing the Dockerfile as required.
- Deployed the Docker containers in Kubernetes cluster and AWS ECS for the different projects.
- Did the Blue/Green Deployments, Keniry deployments and Rolling updates in K8's cluster for achieving the zero downtime of the application.
- Hand on Experience in Implanting ELK on-premises and Docker
- Hand on Experience in Implanting Prometheus and Grafana on-premises and Docker
- Working on Ansible Playbooks for Jenkins jobs configuration automation for ISO-Builds, Integration test, QA and Production.
- Experience in writing the YAML files for Jenkins Job Builder for Jenkins jobs configuration.
- Installation, configuration and administration experience in revision management tool Git
- Installation, configuration and administration experience in continuous integration and deployment tool Jenkins, Maven, Ant, Nexus
- Installation, configuring the Docker, Docker-machine and Docker-compose
- Written Docker files Jenkins master and Jenkins slave environments.
- Written scripts for Jenkins home backup daily into JFrog Artifactory
- Worked on different Kubernetes models, like containers and installer.
- Working on container orchestration tools Kubernetes for Customizability, Scalability, and High availability of Jenkins

Cisco, San Jose, CA   **Dec 2015 - April 2016**

DevOps Engineer

Responsibilities:

- Handling day to day tickets opened in JIRA ticketing system
- Developed Continuous Integration and Continuous Deployment environment on a Linux server using Git, Jenkins, ant, Maven, Nexus
- Implemented the dockerized Jenkins setup for Master slave architecture to improve the Performance of Jenkins and tomcat/WebLogic Applications servers.
- Written Dockerfiles for Various Virtual environment like **Jenkins, ELK stack**
- Written Modules and Manifests for DNS and DHCP configuration using Puppet
- Developed Shell/Ruby Scripts for automation purpose.

- Worked closely with software developers and System admin to debug software and system problems.
- Written Dockerfiles taking the Jenkins backup and Artifactory server
- Developed automation and deployment utilities using Ruby, Bash, and PowerShell.
- Verified if the methods used to create and recreate software builds are consistent and repeatable.
- Build and deployed packages in Production, Stage and QA environments.
- Installing and configuring Docker for creating virtual environments
- Experience in writing Docker files for creating the different virtual environments like Dev, QA, and PRODUCTION.
- Crating Docker clusters using Docker swarm and managing to run the multiple tomcat application clusters using Docker Compose.
- Experience In installing and configuring configuration management tool puppet. Experience in writing new Puppet Modules. Puppetizing the configurations across different environments.
- Experience in writing puppet modules for setting up new environments and for administration use.
- Working on puppet to automate Configuration management & Applications.
- Puppet to manage Web Applications, Config Files, Database, Commands, Users Mount Points, and Packages.
- Hand on knowledge in Cloud platform AWS Amazon web services (IAM, EC2, EBS, S3, Cloud Front, Auto scaling and Load Balancing, VPC, RDS, ROUTE 53)
- Scripting the routine tasks and extending the features/functionalities of various tools
- Experience in Patching Linux Environments.
- Documenting all the procedures.

Unwired Labs, Hyderabad, Telangana   **Jan 2013 – July 2014**

Linux Admin\Build and Release Engineer

Responsibilities:

- Experience in Installation and configurations for Linux distributions operating system.
- Experience in working Agile Environment.
- Hands-on experience in Installation and Configuring and Administration tasks in Source code management tools like GIT, Subversion. Continuous integration tools like Jenkins, Hudson.
- Maintained protocol like TCP/IP, NIS, NFS, DNS, SNMP, VSFTP and DHCP FTP and Samba on Linux systems.
- Responsible for setting up Cron jobs scripts on production servers.
- Responsible for using build tools like Maven and Ant for the building of deploying the artifacts such as Jar, war & ear from source code.
- Responsible for storing the artifact's in Nexus repositories. After Building the code in Continuous Integration.
- Responsible for Installing and configuring setup for clustered environment with Apache Tomcat Application Server for automatic Deployment.
- Implemented a Continuous Delivery framework using Jenkins, Maven, Nexus and Chef in Linux environment.

Education Qualifications:

Master of Science, Computer Science   **December 2015**

Rivier University (GPA – 3.8/4.0), Nashua, USA

Bachelor of Technology, Computer Science   **April 2013**

VR Siddhartha Engineering College (CGPA – 3.4/4.0), Vijayawada, India