**Venkat**

**Sr.Cloud/DevOps Engineer**

**vkawsdevops@gmail.com**

**(913)-396-9886**

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**PROFESSIONAL SUMMARY:**

As an **IT professional** with 8+ years of experience mainly focused on providing infrastructure automation services within private and public cloud and also including experience in services based on continuous delivery and build with cloud services like **AWS** and **Azure** development in **Windows** and **Linux** systems.

* Experienced in **AWS Cloud** platform and its features which includes **EC2, S3, VPC, EBS, ELB, IAM, AMI, SNS, RDS, Cloud Watch, Auto Scaling, and Lambda**.
* Experienced in various **Azure** services like Compute (Web Roles, Worker Roles), **Azure** Websites, Caching, SQL **Azure,** **NoSQL,** Storage, Network services, **Azure Active Directory**, API Management, Scheduling, Auto Scaling, **and PowerShell** Automation.
* Responsible for creating documentation of the **Terraform infrastructure** in Confluence, and also used **Terraform** to manage the **AWS** and **other** **cloud** **infrastructure** and managed **servers** using configuration management tools like **Ansible** and **Chef**.
* Experienced in creating snapshots and **Amazon machine images (AMI)** of the instances for backup by creating clone instances, and also Created **Lambda** function to automate snapshot back up on **AWS** and set up the scheduled backup.
* Experience with server less architecture such as **Lambda.**
* Experienced in creating DevOps strategy in a various distribution of LINUX using DevOps tools suites like **SVN, SCM, GIT, GITHUB, CVS**, **ANT, Maven, Jenkins, Bamboo, TeamCity, Chef, Ansible, Puppet, Docker, Docker Swarm, Kubernetes, Nexus Artifactory, Nagios** and **Splunk** in traditional environments along with all cloud services as well.
* Experienced in branching, tagging and maintaining version across the environment using SCM tools like **Subversion, GIT** and **IBM Clear case**. And primarily used script to write **GIT** applications and Worked to manage source code.
* Used **Jenkins** as Code Deploy plugin to deploy to AWS and also extensively worked on other tools like **Bamboo, Hudson, and Cruise Control** for **continuous integration** and for all end to end automation functions with all build and deployments.
* Built **Jenkins** jobs to create Azure Infrastructure from **GitHub** repositories containing **Terraform** code and ability to work closely with teams, in order to ensure high quality, timely delivery of **builds & releases**.
* Experienced in using Build Automation scripting like **MAVEN, ANT** and **MSBUILD** as build tools for building of deployable artifacts **(JAR, WAR)** from source code also experienced in authoring **pom.xml** files, perform releases with **Maven** release plugin, and manage artifacts in Sonar type **NEXUS** repository
* Experienced in working with **Puppet** Enterprise and Puppet Open Source. Installed, configured, upgraded and managed **Puppet Master, Agents & Databases**.
* Written and developed **Chef Cookbooks** and recipes from scratch for custom installation of application.
* Expertise with **Ansible Playbooks** for zero-downtime installation, upgrades, downgrade, and uninstall processes (**MongoDB, Cassandra, Redis, and MySQL**).
* Experience with container-based deployments using **Docker** working with **Docker images, Docker Hub** and Docker registries and have knowledge on containerization orchestration using Kubernetes.
* Extensive Experience In setting, configuring, and maintaining complete **CI (Continuous Integration)** and **CD (Continuous** **Delivery)** methodologies using **Jenkins, Maven, Ant**, **Chef**,and **Ansible**.
* Hands-on experience on monitoring tools like **Nagios, Splunk, ELK Stack and** **Amazon Cloud Watch** to maintain various systems on differentenvironments.
* Experienced on container management using **Kubernetes** also managed **Kubernetes** charts using **Helm** and Created reproducible builds of the **Kubernetes** applications, managed Kubernetes manifest files.
* Experienced in working with automation for deployment/ configuration of Application server like **JBOSS, Tomcat** and **WebLogic** Web Server like **Apache, Nginx.**
* Experienced in writing **Bash/Shell** scripts for automating Back-ups and setting up **CRON** Jobs
and involved in utility developments using Python**, Linux Shell** and **Perl scripting, UNIX**, Windows, build and release engineering principles
* Involved in setting up **JIRA** as defect tracking system and configured various workflows, customizations and plugins for the **JIRA** bug/issue tracker.
* Exposed to all aspects of **Software Development Life Cycle** such as Analysis, Planning, Developing, Testing and implementing and Post-production analysis of the projects and also created and maintained continuous build and continuous integration environments in **SCRUM** and **Agile** methodologies.
* Experienced in **Agile** Methodologies, **Scrum** stories and **sprints** experience in a **Python** based environment, along with data analytics, data wrangling and Excel data extracts and solved repetitive admin tasks.

**TECHNICAL SKILLS:**

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| Operating systems | Linux (Red Hat 4.x, 5.x, 6.x,7.x), WINDOWS NT/2000/2003/XP/ VISTA/7, UNIX - Sun Solaris v 9, 10, Ubuntu 12.x,13.x,14.x,15.x |
| Programming languages | Shell scripting, Unix Bourne shell, Korn shell, Java Script,RUBY, HTML, PERL, POWERSHELL, Python. |
| Web Servers/ Application Servers | Apache2.0/2.2/2.4, Apache Tomcat5.5/6.0/7.0, WEBLOGIC, WEBSPHERE, Nginix, JBOSS, My SQL, PostgreSQL, MongoDB, Oracle 9i/10g/11g, DB2. |
| Tools | CHEF, JENKINS, MAVEN, CVS, GITLAB, GIT, GITHUB, SVN, NEXUS, NAGIOS, VAGRANT, DOCKER, ANSIBLE, ELK, Kibana. |
| Databases | RDS, postgres, SQL Server, Mongo DB. |
| Cloud | AWS, Azure |

**WORK EXPERIENCE:**

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| **Client: WARNER BROS, LOS ANGELES, CA**  |  |

**Role: Sr. Devops Engineer**

**AUG 2020 - Present**

**Responsibilities:**

* Worked 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.
* Deploying, managing, and operating scalable, highly available, and fault tolerant systems on **AWS**.
* Provisioning experience, experience in operating and managing systems running on **AWS** Environment.
* Hands on experience migrating applications to **AWS** Environment.
* Implemented rapid-provisioning and life-cycle management for **Ubuntu** Worked on Deployment and monitoring of scalable infrastructure on **Amazon web services (AWS**)& configuration management using **Ansible**.
* Utilized Configuration Management tool **Ansible** and created ansible playbooks using inventory to automate system operations.
* Migrated applications to the **AWS** cloud.
* Build application and database servers using **AWS EC2** and create **AMIs** as well as use **RDS** for **Oracle DB**.
* Designed **AWS** Cloud Formation templates to create custom sized **VPC**, Subnets, **NAT** to ensure successful deployment of Web applications and database templates.
* Expertise in using **Docker** and setting up **ELK** with Docker and **Docker**-Compose. Actively involved in deployments on **Docker** using **Kubernetes**.
* Experience in **Jenkins** pipelines to drive all microservices builds out to the **Docker** registry and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes**.
* Expertise in **Terraform** for building, changing, versioning infrastructure and collaborate the automation of AWS Infrastructure via **Terraform** and **Jenkins**.
* Designing and implementing **CI** (Continuous Integration) system: configuring **Jenkins** Servers, **Jenkins** nodes, **TFS** creating required scripts (**Perl** & **Python**), and creating/configuring VMs (**Windows**/**Linux**).
* Installed, Configured, Managed Monitoring Tools such as **Splunk**, **Nagios** for Resource Monitoring/Network/Monitoring/Log Trace Monitoring.
* Automated Nagios services for database server, webserver, application-server, networks, file sizes, RAM utilization, Disk performances using Python script in **Ansible**.
* Worked on **logstash, Kibana** dashboard and **RabbitMQ** for logs.
* Implemented automated local user provisioning instances created in **AWS** cloud.
* Setup and build **AWS** infrastructure various resources, **VPC EC2, S3, IAM, EBS, and Security**.
* Used **ANT** and **MAVEN** as build tools on java projects for the development of build artifacts on the source code.
* Experience in writing Ansible scripts and Used Ansible server and workstation to manage and configure nodes.
* Created **Python** scripts to totally automate **AWS** services which include web servers.
* Troubleshoot switch to server and back to the secure Cloud connection.
* Written **Python** scripts (this script creates stacks, single servers, integrated web servers with stacks) to fully automate **AWS** services which include Cloud Front distribution, **Lambda**, and security groups.
* Experience in installation, configuration, Deployment, and management of web and enterprise applications on **JBoss** Application servers.
* Developed a **PowerShell** script which collected configuration data from the **VMware** environment to ensure conformity and stability
* Installation and configuring **Red Hat** Enterprise **Linux 5.5/6.5**
* Used **JIRA** tool to track all the defects and changes related to build and Release Team.
* Creation and Follow-up of **RedHat** Cases to solve problems/bugs with the **Openshift** Platform or OS.
* Creation and configuration of dashboards and graphs based on Prometheus information to show the current status of **Openshift** components, containers, pods, quotas, etc.
* Use of tools for project management and documentation **jira**, confluence.
* Implementation of different exporters to get metrics of the **Openshift** components and servers.

**Environment:** AWS (EC2, VPC, ELB, S3), Linux, Git version Control, Maven, Nagios, Subversion, Jenkins, Unix/Linux, Shell scripting, Python, Nexus, Tomcat, WebLogic, JBoss, Jira, RedHat Openshift.

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| **Client: POWERSCHOOL, ROSWELL, GA**  |  |

**Role: Sr. Devops Engineer**

**FEB 2019 – JULY 2020**

**Responsibilities:**

* Highly skilled in designing and deploying a multitude application utilizing almost all of the main services of the **AWS** stack like **EC2, S3, RDS, VPC, IAM, ELB, Cloud watch, Route 53, Lambda and Cloud Formation**. With focus on high availability, fault tolerance environment.
* Setup and build **AWS** infrastructure various resources, **VPC EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS** and **RDS** in **Cloud Formation JSON templates**.
* Involved in developing custom images on Cloudusing **AWS images** and on **ESX** using Templates and involved in building physical servers using **Kickstart PXE Boot** and **Jumpstart**.
* Configured **Elastic Load Balancers** with **EC2 Auto Scaling groups** and created **monitors**, **alarms** and notifications for **EC2 hosts using Cloud Watch.**
* Experience in **Spring**-based microservices, **Docker**, continuous integration and continuous delivery (**CI/CD**).
* Used spring config server for centralized configuration and **Splunk** for centralized logging. Used Concourse and Jenkins for **Microservices** deployment.
* Involved in writing **Java API** for Amazon Lambda to manage some of the **AWS** services.
* Utilized **Spring MVC** for web application **framework**. Implemented Spring security for application access and authorization.
* Worked on **Terraform** for automating **VPC's**, **ELB's**, **Security** **Groups**, **SQS** **queues**, **S3** **buckets** and continuing to replace the rest of our infrastructure used **Terraform**to manage the **AWS** and other cloud infrastructure. Managed servers using **configuration** management products like **Chef** or **Puppet**.
* 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.
* Expertise Knowledge on **ELK** architecture, also experienced in **Elasticsearch** which is the search and analytics engine and experience in **Logstash**, which is a **log management tool.**
* Experienced in branching, tagging and maintaining version across the environment using SCM tools like **GIT** and **GITHUB**. And primarily used script to write **GIT** applications and Worked to manage source code.
* Connected continuous integration system with **GIT** version control repository and continually build as the check-in's come from the developer.
* Developed processes, automation for **Jenkins** based software for **build system** and **delivering SW Builds**.
* Experience in designing and implementing **continuous integration** system using **Jenkins** by creating **Python scripts** and also configured **Jenkins** to implement nightly builds on daily basis and generated change log that includes changes happened from last 24 hours.
* Wrote **Ansible Playbooks** with **Python** and **SSH** as the Wrapper to Manage Configurations of **AWS Nodess** and **Test Playbooks** on AWS instances using Python. Architected and designed Rapid deployment method using **Ansible** to auto **deploy servers** as needed.
* Written **Ansible** playbooks which are the entry point for **Ansible** provisioning, where the automation is defined through tasks using **YAML** format. Run **Ansible** Scripts to provision Dev servers.
* Worked on **Docker container snapshots**, attaching to a running **container**, removing **images**, managing **Directory structures** and **managing containers**.
* Integrated **Docker container orchestration** framework using **Kubernetes** by creating **pods**, **Config Maps** and **deployments**.
* Worked on **Kubernetes** and **Docker** **images** to provide platform as service on **private** and **public** cloud in **VMware Cloud**.
* Worked on Integrated **JIRA** with **subversion** and **Jenkins** to automate the weekly build process. Used **JIRA** workflows to **automate deployment** and **issue tracking**.

**Environment:** Elastic load balancer, S3, Cloud watch, IAM, RDS, Storage gateway, Shell Scripting, Puppet, Chef, Bit bucket, Jira, Python, Tomcat, Apache, Oracle, Jenkins, Ruby, Jira, Maven, Git, Ubuntu, Centos.

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| **Client: WALGREENS, DEERFIELD, IL**  |  |

**Role: Devops Engineer**

**JUN 2017 – JAN 2019**

**Responsibilities:**

* Maintenance of source code in **GIT** and also extensive experience in using Version control systems includes **GIT**, **GITHUB** and **BitBucket**.
* Worked on integrating **GIT** into the **continuous Integration (CI)** environment along with Anthill-Pro, **Jenkins**.
* Worked on **Microsoft Azure** (Public) Cloud to provide IaaS support to client. Create Virtual Machines through **Power Shell Script** and **Azure Portal**.
* Exposed Virtual machines and cloud services in the **VNets** to the Internet using Azure External Load Balancer.
* Good at Manage hosting plans for Azure Infrastructure, implementing & deploying workloads on **Azure virtual machines (VM**s).
* Install and configure Virtual machines, storage account, virtual network, **Azure load balancer** in the **Azure cloud**.
* Install and configure **SQL** server 2016 and service packs. Create and manage database, user permissions and security. Backup and restore database as and when required to developers.
* Worked with **Terraform** Templates to automate **the Azure Iaas** virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
* 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 PowerShell and Azure Portal**.
* Written **Templates** for **Azure** Infrastructure as code using **Terraform** to build staging and production environments. Integrated **Azure Log Analytics** with **Azure VMs** for monitoring the log files, store them and track metrics and used Terraform as a tool, Managed different infrastructure resources Cloud, **VMware** and Docker containers.
* Configure and Manage backup using **DPM** and Azure backup server in cloud.
* Creating snapshot, clone, import-export **VM**, managing gold images of **windows 2012, 2012 R2** and **windows 2016 in Hyper-V.**
* Implementing and managing active directory on **windows server 2012 R2 and 2016** Datacenter.
* Designed and implemented **CI (Continuous Integration)** system configuring **Jenkins servers, Jenkins nodes**, creating required scripts **(Perl & Python),** and creating/configuring VMs (Windows/Linux).
* Built end to end **CI/CD** Pipelines in **Jenkins** to retrieve code, compile applications, perform tests and push build artifacts to **Nexus**.
* Used **Jenkins**, Build forge for **Continuous Integration** and deployment into Tomcat Application Server.
* Converted and automated builds using **Maven** for scheduled automated nightly builds using **Jenkins.**
* Extensive experience using **MAVEN** as build tools for the building of deployable **Artifacts** (jar & war) from source code.
* Maintained build related scripts developed in shell for **Maven builds** also created and modified build configuration files including **POM.xml.**
* Implemented Continuous Delivery framework using **Jenkins**, **CHEF** and **Maven** in Linux environment.
* Experience in Setting up **Chef Workstation**, **boot strapping** various **enterprise nodes** and setting up **keys** and also focused on **automation** and **continuous integration. Automated** local development environment using **Chef**.
* Responsible for managing the **Chef** Client nodes and upload the **Cookbooks** to **chef-server** from Workstation.
* Evaluated testing of **Chef Recipes** - Concept of Test-Driven Development for Infrastructure as a Code.
* Created **Docker** images using a **Dockerfile**, worked on **Docker container** snapshots, removing images and managed Docker volumes.
* Created additional **Docker Slave Nodes** for Jenkins using custom **Docker Images** and pulled them to **ECR**. And worked on all major components of Docker like, **Docker Daemon, Hub, Images, Registry, Swarm** etc.
* Created **Bash, Shell & Python** scripts for various Systems Administration tasks to automate repeated processes.
* Installed, configured and managed monitoring tools such as **Nagios** & **Splunk** for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Worked with **JIRA** for change control & ticketing which handles DCR (defect Change Request) MR (Maintenance Request).

**Environment:** Microsoft Windows Azure, Windows server 2012/R2/2013, Windows PowerShell, Microsoft Azure Storage, Jenkins, Maven, Subversion, Ant, Bash Scripts, Git, Docker, Jira, Chef.

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| **Client: GILEAD SCIENCES, FOSTER CITY, CA**  |  |

**Role: AWS/Devops Engineer**

**Jan 2015 – MAY 2017**

**Responsibilities:**

* Worked on **AWS EC2** Instances creation, setting up **VPC**, launching EC2 instances and worked on **Cloud Watcher** for providing high availability of applications and EC2 instances based on the load of applications.
* Extensive use of **AWS CLI** to automate backups of ephemeral data-stores to **S3** buckets, **EBS** and created custom **AMI's** for mission critical production servers as backups.
* Utilized **AWS CLI** to automate backups of ephemeral data-stores to **S3 buckets**, **EBS** and create nightly **AMIs** for mission critical production servers as backups**.**
* Managed network security in cloud using **Elastic** **Load balancer, Auto scaling, Security groups, Route53** and **NACLS**.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using **CloudWatch**.
* Designed and developed **Shell** scripts also wrote scripts for provision of infrastructure management using **Terraform**.
* Configured AWS **IAM** and Security Group in Public and Private Subnets in **VPC** and also created AWS **Route53** to route traffic between different regions.

Implemented business rules using TIBCO Business Events to add predictive functionality to the company's tracking system

* Installed, configured and Administrated of all **UNIX/LINUX** servers, includes the design and selection of relevant hardware to Support the installation/upgrades of **Red Hat Centos, Ubuntu** operating systems.
* Implemented **Continuous Integration** and **Continuous deployment** using various CI Tools like **Jenkins** and **Nexus**.
* Developed **Bash** scripts to redact sensitive data from **Apache** access and error logs using a sed expression, deploy **WAR** files to environments in parallel.
* Built scripts using **ANT** and **MAVEN** build tools in Jenkins to move from one environment to other environments.
* Utilized **Jenkins** for enterprise scale infrastructure configuration and application deployments - checking out code from **Svn/Git** and use **Ant/Maven** to build Artifacts.
* Used **Puppet** for Continuous Delivery. Managed **CI** and **CD** process using Jenkins and delivered all applications in rpms.
* Wrote **Puppet** Manifest files to deploy automated tasks to many servers at once.
* Automated deployment modules of **IIS** web applications, bindings and configuration settings using a combination of **PowerShell** scripts and **Puppet**.
* Redesigned and redeployed the **Nagios** implementation. Nodes automatically added/removed themselves via **Puppet**.
* Ported Linux **BASH** scripts to work with **RHEL** ultimately contributing ideas and code to make automation tool work more reliably with Fedora environments.
* Installed operating systems, patches, hardware, vendor software packages, system customization and documentation of all departmental **UNIX,** PC-based workstations and Terminal.
* **NFS Management** - Take care of user accounts/groups, setting up of **NFS** Environment.

**Environment:** AWS, S3, EBS, Elastic Load balancer (ELB), auto scaling groups, VPC, IAM, Cloud Watch, Glacier, Jenkins, Maven, Subversion, Ant, Bash Scripts, Git, Docker, Jira, Chef, and Nexus in Linux environment. VERITAS Netback up 4.x/5.x/6.x, Solstice Disk Suite, OpenStack.

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| **Client: VERONA INFORMATICS, HYDERABAD, INDIA**  |  |

**Role: UNIX/Linux administrator**

**APRIL 2013 – DEC 2014**

**Responsibilities:**

* Installation, configuration and administration of **Red Hat Linux** **servers** and support for Servers.
* Installation, maintenance, and regular upgrades of Red Hat Linux Servers using kick start-based network installation.
* Responsible for installation, configuration, and administration of Red Hat Linux, Solaris systems.
* Enterprise Server administration of **Sun Solaris** and **Linux**Installations including **Sun Fire series.**
* Patching of RHEL5 and Solaris 8, 9, 10 servers for EMC Powerpath Upgrade for VMAX migration.
* Involved in creating a generic error logging framework used by various TIBCO Interfaces.
* Provide the support of building the server, patching, user administration tasks, deployment, software installation, performance tuning and troubleshooting and **KVM**.
* Managing Compaq and Linux workstations and servers.
* Installation of patches and other software packages.
* Disk and File system management through Solstice Disk Suite on **Solaris** and other logical volume manager for another flavor of **UNIX**.
* Good knowledge of Internet technologies and concepts such as DNS, routing protocols, TCP and UDP and higher-level protocols such as HTTP, SMTP and FTP is important.
* Monitoring system performance, tune-up kernel parameter, adding /removing /administering hosts, users, disks on **DNS / NIS** domain.
* Configuration of Hardware and Software **RAID** on Digital &amp; Sun Servers.
* Installation of Oracle Patches and Troubleshooting, Creating and modifying application related objects, Creating Profiles, Users, Roles and maintaining system security.
* Administrative tasks such as System Startup/shutdown, Backup strategy, Printing, Documentation, User Management, Security, Network management, dumb terminals and devices carried out.
* Installation and configuration of Oracle 7.x/8.x.
* Implemented **NFS, DNS** and **NIS** under **SUN**.
* Analyzed and tested network protocols (Ethernet, TCP/IP) using Wireshark tool.
* Installed and Configured Send Mail Utility on Sun **UNIX** Servers.
* Administering **NFS** Mounts.
* Troubleshooting Backup and Restore Problems Creation of **LVMs** on **SAN** using Linux utilities.
* Monitored overall system performance, performed user management, system updates and disk & storage management.
* Performed OS upgrades and Patch loading as and when required.
* Backing up and restoring files across the network.
* Wrote Technical documentation for various projects and worked with Technical writer to finalize the documents.

**Environment:** Red Hat Linux 4.1,4.2,4.3,4.4, Sunfire 4500/ V880 / V480/ E420R/ E450/ E250, Sunstoredge L280, A1000, A5000, JBODS COMPAQ Servers, SOLStice disk suite, Oracle 7.X/8.X