**Venkat G**

Senior DevOps Engineer

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**PROFESSIONAL SUMMARY**

* 8 years of experience in Automating, configuring and deploying instances on cloud environments. Experience in the areas of **DevOps**, CI/CD Pipeline, Build and release management, AWS and Linux/Windows Administration Proficient in prioritizing and completing tasks in a timely manner.
* Involved heavily in setting up the CI/CD pipeline using **Jenkins, Maven, Nexus, Bitbucket, Jfrog Artifactory, Chef, Terraform** and **AWS.**
* Extensive working experience with broad range of **AWS** Cloud Services likeEC2, Auto Scaling, VPC, Route53, RDS, S3, IAM, Elastic Load Balancer (ELB), Elastic Beanstalk, SNS, Glacier, SQS, Dynamo DB, Elastic search and Cloud Watch, have in-depth practical knowledge on other cloud services like Microsoft Azure.
* Worked on Microservices. Deploying Microservices using **Kubernetes YAML** files.
* Worked on creating the **Docker containers** and **Docker** consoles for managing the Microservice based application life cycle.
* Experience in deploying applications on **Apache Tomcat, JBoss, WebSphere** and **WebLogic servers.**
* Involved in configuring and integrating the servers in various environments for automatic provisioning with tools like **Ansible, Chef** and **Puppet.**
* Expert in supporting the implementation/improvement of software development practices, release management methodologies and software deployment strategies.
* In depth and solid understanding of **IP networking technologies.** TCP/IP Networking troubleshooting and Linux Network Administration.
* Exposed to all stages of **Software Development Life Cycle (SDLC)** and strong experience on working of Scrum, Agile Methodologies.
* Developed **Terraform** templates to create load balancers (**ELB**), **EC2** instances with auto scaling, monitoring on the fly for different environments such as **QA, SIT**, stage which will run on different **VPCs**.
* Ability in development and execution of **Python, Ruby, Groovy, and Shell Scripts.**
* Experience in working on source controller tools like **Subversion** **(SVN), GIT and Bitbucket.**
* Conduct systems design, feasibility and cost studies and recommend cost-effective cloud solutions on **Amazon Web Services (AWS).**
* Expertise in managing DEVELOPMENT, UAT and PRODUCTION environments for various releases and designed instance strategies in **Linux/Unix.**
* Experience in administration of **Jira** and **Confluence** which includes permissions, custom fields, custom workflows and **Confluence** space.
* Utilize **Cloud formation** and **Ansible** by creating DevOps processes for consistent and reliable deployment methodology.
* Involved in building own PaaS with **Docker**; deployed various applications through **Docker** containers.
* Exposed to all aspects of software development lifecycle (SDLC) such as Analysis, Planning, and Developing, Testing, and Implementing Post-production analysis of the projects.
* Created efficient, fluid build pipelines and utilized many products such as **Jenkins/Hudson, Ant, Maven, Cruise Control**, and integration into automated test beds **JUnit, Jmeter, Selenium** etc.
* Developed **Python** scripts for software build conduct and management support.
* Good knowledge and hands on Experience in some monitoring tools like **Data log, New Relic, Cloud Watch, Nagios and Splunk.**
* Experience in Implementing Continuous Integration and Continuous Delivery (CI/CD) pipeline with **Docker**, **Maven**, **Ant**, **Nexus Artifactory, Jenkins** and **AWS**. Proficient with cloud services like **Amazon Web Services (AWS).**
* Used **Kubernetes** to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions.
* Experience in application development, debugging, implementation, supporting developing team.
* Profound experience in programming, deploying and configuring **java/j2ee** Applications using **Apache Tomcat** and **JBOSS.**
* Experience with **NoSQL** databases like **Cassandra** and **MongoDB**.
* Good Experience with virtual machines like **VMWare, VirtualBox.**

**TECHNICAL SKILLS**

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| --- | --- |
| Version Control Tools | Git, SVN, CVS, Team Foundation Service (TFS) |
| CI/CD Tools | Jenkins, Hudson, Bamboo, Ansible, Puppet, Chef |
| Build Tools | Ant, Maven, Gradle |
| DevOps Tools | Chef, Puppet, Ansible, AWS (EC2, S3, VPC, ELB, Glacier, SQS, SNS, Cloud Watch, Lambda, RDS, Route53), Nexus, Jfrog Artifactory, Terraform, Cloud Formation, Docker, Kubernetes, Mesosphere. |
| Bug Tracking Tools | Jira, IBM Clear Quest, Selenium, Cucumber |
| Languages | C, PL/SQL, Java/J2ee, HTML |
| Networking | TCP/IP, NIS, NIS+NFS, DNS, DHCP, WAN, SMTP, LAN, FTP/TFTP, TELNET, Firewalls. |
| SDLC | Agile, Scrum and Waterfall. |
| Scripting | Shell/Bash Scripting, Python, Groovy, Ruby |
| Monitoring Tools | Data log, New Relic, Cloud Watch, Nagios and Splunk. |
| Web/App Servers | Apache Tomcat, JBOSS, Web Sphere, Apache Server |
| Database | Oracle 9i/10g/11g, SQL Server, MySQL |
| Operating Systems | RHEL (5.x, 6.x, 7x), SUSE Linux (9,10,11), CentOS 5,6, Windows 2003, 2008, VMware ESX (3.5,4.0). |

**PROFESSIONAL EXPERIENCE**

**Discount Tire, Scottsdale, AZ**

**AWS Cloud/DevOps Engineer**

**Oct 2017 to Present**

**Responsibilities:**

* Worked on core **AWS** services such as setting up **EC2** instances in **AWS**, configuring security groups, and setting up Elastic IP's and Configured Elastic Load Balancers (**ELB**) with EC2 Auto scaling groups.
* Created branching and tagging strategies to maintain the source code in the **Bitbucket** repository and coordinate with developers with establishing and applying appropriate branching, naming conventions using **GIT** source control.
* Configured and automated the **Jenkins** Build jobs for **Continuous Integration** and **Continuous Deployment (CI/CD).**
* Created **Docker** images using a **Docker file**, worked on **Docker** container snapshots, removing images and managing **Docker** volumes and used **Kubernetes** for orchestration.
* Used **Ansible** and **Ansible Tower** as Configuration management tool, to automate repetitive tasks, quickly deploys **java/j2ee** based applications, and proactively manage changes.
* worked with Scheduling, deploying and managing container replicas onto a node cluster using **Kubernetes.**
* Maintained the user accounts (**IAM**), **RDS, Route 53, VPC, RDB, Dynamo DB, Lambda, SES, SQS** and **SNS** services in **AWS** cloud.
* Designed **AWS Cloud Formation** templates to create custom sized **VPC, subnets, NAT** to ensure successful deployment of Web applications and database templates.
* Setup and build **AWS** infrastructure various resources**, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling,** and **RDS** in **Cloud Formation**.
* Updating kernel & security patches in **Amazon Linux environment**, handling out of memory issues in Linux kernels during rebalance in **Kafka cluster**
* Provide highly durable and available data by using **AWS S3** data store, versioning, lifecycle policies, and create AMIs for mission critical production servers for backup.
* Written **Ansible** playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment.
* Written several **docker** files to create **tomcat** along with required version of jdk container images.
* Built various containers using **Docker** engine and Docker Machine environments, to deploy the **microservice** oriented environments for scalable applications.
* Installed, configured and maintained **DNS, FTP, TCP/IP** and Samba on Red Hat Linux.
* Implemented Continuous Delivery framework using **Jenkins, Maven** and **Ansible** in Linux/ Unix environment.
* Installed and Configured **SonarQube** with Jenkins for continuous measurement and analysis of quality of source code.
* Knowledge in **Terraform** as infrastructure providers, build images using **Packer.**
* Developed **Groovy** scripting for automaton purpose.
* Build artifacts (war and ear) from **Sona type Nexus Artifactory** are deployed into a **Apache Tomcat app server** using **Shell Scripts**.
* Build out server automation with Continuous Integration - Continuous Deployment (CI/CD) tools like **Jenkins/Maven/ANT/Nexus** for deployment and build management system.
* Installing, configuring and administering **Jenkins** Continuous Integration and Continuous Deployment (CI/CD) tool on Linux machines along with adding/updating plugins such as Git, Maven, ANT, **Sona type Nexus,** Bitbucket and Ansible.
* Involved in **Python** Script to automate Cron jobs and system maintenance.
* Created monitors, alarms and notifications for **AWS**
* **EC2** hosts using **Cloud Watch** and used **AWS Lambda.**
* Installed, configured and maintained web servers like **HTTP** Web Server, Apache Web Server.
* Deployed **java/j2EE** applications to Application servers in an **Agile continuous integration** environment and automated the whole process.
* Used **MySQL, MongoDB** to perform basic database administration.
* In-depth knowledge of computer applications and scripting like **Shell, Python, Ruby**, **JavaScript** and **XML** and Experience with Design, code, and debug operations, reporting, data analysis and web applications utilizing **PowerShell, Bash**.
* Developed **Terraform** templates to create load balancers (ELB), EC2 instances with auto scaling, monitoring on the fly for different environments such as QA, SIT, stage which will run on different VPCs.
* Used **App Dynamics** for Continuously analyze monitoring logs, measuring performance Bottlenecks.
* Migrated the current **Linux** environment to **AWS/RHEL(RedHat)** Linux environment and used auto scaling feature. Involved in Remediation and patching of **Unix/Linux** Servers.
* Used **JIRA** to track issues and Change Management and used **Confluence** for documentation.

**ENVIRONMENT:** Java/J2ee, AWS, Ansible, Jenkins, Confluence, Maven, Microservices, ANT, Docker, Bitbucket, Groovy, Bash, Splunk, App Dynamics, Unix, Terraform, Cloud Formation, Apache Tomcat Server, Ansible Tower, Jira, Bash, Kubernetes, Python, Linux, Shell Scripts, App Dynamics, MongoDB, Agile

**AppZen, Tempe, AZ**

**DevOps Engineer**

**July 2015 to Oct 2017**

**Responsibilities:**

* Involved in designing and deploying multitude applications utilizing almost all the **AWS** stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in **AWS Cloud Formation**. Used IAM to create new accounts, roles and groups.
* Manage **AWS EC2** instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for **GIT**.
* Automated installing the **Linux** packages and administering **Linux service** using **Chef** and automating product installation configuration.
* Able to create scripts for system administration and AWS using languages such as **BASH** and **Python.**
* Maintained all the **Linux/Unix** environments for deployments and Implemented Configuration
* Experienced in authoring **pom.xml** files, performing releases with the **Maven** release plug-in and managing **Maven repositories**. Implemented **Maven** builds to automate JAR and WAR files.
* Implemented the setup for Master slave architecture to improve the Performance of **Jenkins.**
* Configured **S3** versioning and lifecycle policies to and backup files and archive files in **Glacier.**
* Involved in configuring **AWS EC2** instances on cloud platform using **Cloud Formation** templates.
* Worked on **Chef Automation** including writing Cookbooks and customized recipes for test driven development environments for Java/j2ee applications.
* Involved in Installing **Jenkins** on a Linux/Unix machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Used **Maven** dependency management system to deploy snapshot and release artifacts to **JFrog Artifactory** to share artifacts across projects.
* 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.
* Created **Chef Cookbooks** and wrote recipes in **Ruby Script** to install and configured Infrastructure across environments and automated the process using **Python Script** for **java/j2ee** applications.
* Managing **S3** Buckets and bucket policies and Utilized **S3** buckets and **Glacier** for storage and back up on **AWS.**
* Performed Branching, Tagging, and Release Activities on Version Control Tool: **GIT.**
* Implemented the setup for Master-slave architecture to improve the Performance of Jenkins.
* Used **Jenkins** for Continuous Integration and Continuous deployment (**CI/CD**) into **Apache Tomcat/ JBoss Application Server**. Created docker files, images.
* Written several **docker** files to create tomcat along with required version of jdk container images.
* Worked with **Docker** Trusted Registry as repository for our docker images and worked with **Docker** container networks.
* Executed **Kubernetes** locally with Minicube, Created Local Clusters and deployable application Containers.
* Configured and monitored distributed and multi-platform servers using **Nagios**.
* Coordinate/assist developers with establishing and applying appropriate branching, labelling/naming conventions using **GIT** and **GitHub.**
* Developed Cron jobs and Shell scripts for automation of administration tasks like file system management, process management, backup and restore.
* Implemented **Microservices** in load balanced, highly available, fault tolerant **Kubernetes** infrastructure.
* Researched and implemented code coverage and unit test plug-ins with Maven/ANT/Jenkins.
* Used **JIRA** to track issues and Change Management and used **Confluence** for documentation.

**ENVIRONMENT:** AWS, Java/J2EE, ANT, Docker, JBoss, Maven, Unix, Agile, GitHub, Nagios, GIT, JFrog Artifactory, Linux, Chef, Shell, Python, Ruby, Jenkins, Apache Tomcat, Jira, Docker, Kubernetes.

**Mastercard, o Fallon, MO Feb 2014 to June 2015**

**DevOps Engineer**

**Responsibilities:**

* Developed installer scripts using **Maven, Python** for various products to be hosted on Application Servers.
* Used ANT and **Python** scripts to automate the Build and deployment process to deploying the web services. Used services deploy command for building the web services. Used **Maven** for few modules.
* Performed Daily/Weekly/fortnightly customer releases through **Git** pushes to shared, private and public server like **GitHub.**
* Configured and automated the **Jenkins Build jobs** for **Continuous Integration** and **Continuous Deployment (CI/CD).**
* Used **Apache Tomcat** as application server for deploying the artifacts from **Sona type Nexus Artifactory**.
* Implemented **Shell scripts** for release and build automation. Manipulated and automated scripts to suit the requirements
* Developed build and deployment scripts using **ANT** and **Maven** as build tools in **Jenkins** to move from one environment to other environments.
* Implementation Plan preparation for Code Releases & requirements gathering
* Closely working with Developers, QA, Performance, UAT testers, IT Team
* Used **Jira** as ticket tracking and work flow tool.
* Responsible for Installation, Configuration Management, Maintenance and Systems Development of **Red Hat Linux**, **Oracle Enterprise Linux / UNIX** Systems.
* Used **JIRA** to track issues and Change Management and used **Confluence** for documentation.
* Management of **Red Hat Linux** user accounts, groups, directories and file permissions

**Environment:** Subversion, Maven, GitHub, Ant, Oracle WebLogic, Unix Agile, Nexus Artifactory, Jenkins, Jira, Shell Scripting, Python, Confluence, Ruby, Linux.

**Purch, Waltham, MA**

**Build and Release Engineer**

**Nov 2012 to Jan 2014**

**Responsibilities:**

* Analyze and create daily reports on the status of server backups on intranet and extranet.
* Provide complete phone support to customers.
* Maintained build related scripts developed in **ANT**, **Python** and **shell**. Modified build configuration files including **Ant’s build.xml**.
* Developed various daily jobs using **PL/SQL** stored procedure to update notification status in multiple tables.
* Used **ANT** and **MAVEN** as a build tools on java/j2ee projects for the development of build artifacts on the source code.
* Worked with development team to migrate **Ant scripts** to **Maven.**
* Deployed various J2EE applications (WAR and EAR) into web application servers like **Tomcat, JBoss.**
* Used **Shell/Perl scripts** to automate the deployment process.
* Experienced in authoring **pom.xml** files, performing releases with the **Maven release plugin**, **Mavenization** of Java/j2ee projects and managing **Maven repositories**.
* Researched and implemented code coverage and unit test plug-ins with Maven/Jenkins.
* Used Maven dependency management system to deploy snapshot and release artifacts to **Nexus** to share artifacts across projects.
* Created and maintained documentation of build and release processes and application configuration to comply with audit requirements and industry best practices

**Environment:** Java/J2ee, Subversion (SVN), Eclipse, JBoss, Ant, Shell, Maven, Jenkins, WebSphere Application Server (WAS), Nexus.

**ZoHo, Chennai, TN**

**LINUX Administrator**

**Apr 2011 to Oct 2012**

**Responsibilities:**

* Designed, tested and deployed **VMware** View VDI desktop support for internal & external end-users.
* Perform daily administration activities over 200 Linux servers, form adding space, ticket requests from the customers.
* Installation, configuration and maintenance of **DNS servers, Mail servers, FTP server**.
* Build new servers, configuration, mostly on **RHEL 6 and 7** as per customer request.
* Administration of **DHCP, DNS, NFS and Samba** servers in **Linux.**
* Root cause and failure analysis to resolve systems problems.
* Reviewing system and application logs for troubleshooting.
* Maintained user accounts as we as provided essential privileges for assigned users.
* Implemented automated approaches for daily tasks.
* Perform daily system monitoring.
* Applied patches on all Linux Boxes from common repository using **YUM.**
* Managed Disks and File systems using **LVM** on **Linux, kernel patching**.
* Installation and configuration of **ssh service** for remote clients.
* Working knowledge of IT standards, concepts, best practices and procedures relies on knowledge, experience and judgement to plan and accomplish goals.
* Experienced in networking with **LAN, WAN, Routers, Gateways** etc.
* **Managed patches configuration, version control, service pack** and reviews connectivity issues regarding security problems
* Writing and editing **Bash scripts** and scheduling of jobs.
* Installation of software patches.
* 24/7 on call rotation.
* Setting up firewall rules to ensure both security and efficiency of systems and applications.

**Environment:** Redhat Linux 5/6.x, TCP/IP, UNIX/LINUX, Oracle10g, Kernel, Windows, TCP/IP, GIT, Hudson, Java/J2ee, Ant, WebLogic Server 11g, RAID, Shell, Python, Web Sphere, Load Balancers, WLST, Apache Tomcat 5.5.

**EDUCATION**

**Bachelor of Engineering in Computer science, Bundelkhand University.**