**RajashekarPothugunta**

**Sr. Cloud/DevOps Engineer**

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**Professional Summary:**

* 9+ years of experience in Infrastructure automation, code migration, Configuration Management and system administration.
* Worked with **IAM** service creating new **IAM** users & groups, defining roles and policies and Identity providers.
* Ability to manage **SCM** processes which include **compiling, packaging, deploying** and application configurations.
* Created alarms and trigger points in **CloudWatch** based on thresholds and monitored the server's performance, CPU Utilization, disk usage.Deployed applications on AWS by using Elastic Beanstalk.
* Worked on setting up the life cycle policies to back the data from **AWS S3** to **AWS Glacier**.
* Utilized AWS **Cloud watch** to monitor environment for operational & performance metrics during load testing.
* Experience in code deployment and orchestration with tools such as Puppet, Chef, Cloud Formation, and automation validation using Test Kitchen, Vagrant, **Ansible** and **TerraForm**.
* Experience in writing **Ansible** scripts and heavy Shell, Perl, Python, and JSON scripting.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using **Ansible** playbooks and has Integrated **Ansible** with Rundeck and **Jenkins**.
* Experience developing and implementing continuous deployment code; experience with **CI/CD** pipelines and DevOps methodologies.
* Experience in working within the Cloud platforms like **OpenStack** and AWS for integration processes.
* Built and Deployed Java/J2EE to a web application server in an Agile continuous integration environment and automated the whole process.
* Good experience in converting build.xml into pom.xmlin order to build the applications using **MAVEN**.
* Having sound knowledge on Continuous Integration systems such as **Jenkins, Bamboo** and**AnthillPro.**
* Automated, designed and implemented continuous integration using **GIT, Jenkins, Puppet**.
* Extensively worked on **Jenkins/Hudson** by configuring and maintaining for the purpose of continuous integration (**CI**) and for End to End automation for all build and deployments.
* Implemented **Docker**based Continues Integration and Deployment framework.
* Used **Maven** dependency management system to deploy snapshot and release artifacts to **Nexus** to share artifacts across projects
* Hands on experience with **Kubernetes, Mesos** and **Docker Swarm**.
* Maintained custom PowerShell scripts that interact with Office 365, Active Directory, SQL, and VMware.
* Configured services like **DNS, NIS, NFS, LDAP, SAMBA, Send Mail, FTP, Remote access** on **Linux. Install databases** like **Oracle 10g, 11g, MYSQL** on **Linux.** Expertise in Storage Management (**SAN, NAS**).
* Expertise in utilizing cloud software’s like **Openstack** and **Cloudstack**.
* Installed/Configured the **WebSphere server, JBoss application server, Weblogic** server Managed tuning and performance of high profile applications running on them.
* Hands on experience in build and deployment for Dot net based and Java applications.
* Have some exposure to the cloud computing and elastic computing abilities using Exalogic cloud.
* Install and configure **Splunk/Nagios** to monitor application and server logs.
* Experienced in working with network Packet Analysis using Tcpdump and wireshark.
* Developed Web API using Node.JS and hosted on multiple load balanced API instances.
* Worked on AWS to integrate the picture files to the JavaScript and worked for the backend development using Node.js and Mongo DB.
* Skilled in monitoring servers using Nagios, Data dog, Cloud watch and using ELK.
* Basic scripting done in **Bash**, **Python**, **Shell**, **Powershell** for automated tasks.

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| **Operating systems** | Linux: RHEL 6.x/7, CentOS 6.x/7&Ubuntu 12.x, 14.x& Windows 2008/2012,Debian |
| **Web Servers** | Apache Tomcat5.5/6.0/7.0 |
| **Application Servers** | WebLogic, JBoss, WebSphere |
| **Automation /Container Tools** | Ansible, Terraform,Docker,Kubernetes |
| **Monitoring tools** | Nagios, Splunk, Cloud Watch |
| **Virtualization** | VMware ESX, ESXi, vSphere 4 and vSphere 5Citrix |
| **Network Services** | TCP/IP, Subnetting, DNS, NFS, NIS, SSH, DHCP. |
| **Databases** | Oracle, SQL Server, Mongo DB |

**Technical Skills:**

**Certifications:**

* **Microsoft Certified: Azure Fundamentals – AZ 900**
* **Microsoft Certified: Azure Administrator Associate –AZ 104**

**Professional Experience**:

**Kaiser Permanente, CA Aug2020 -Present**

**Sr. Azure DevOps Engineer**

**Responsibilities:**

* Designing and implementing **Azure Solutions** across a range of clou models like **Iaas, Paas, Saas** and integrated on-premises, on-demandd wokloads with the Azure public cloud.
* Was responsible for migrating and maintaining build and test environments into the cloud infrastructure.
* Used **Azure cloud services** like **Resource Groups, Virtual machines, SQL Server, Cosmos DB, Postrgre SQL** and **storage accounts**
* Developed, maintained and provided team with various **Azure Devops** related tools like deploment tools, staged virtual environments and povisioning scripts.
* Provisioning various resources in Azure using Infrastucture as a code (**IAC**) such as **Terrafom**.Code is stored in a private repository and constantly updated.
* Developed and designed **Azure Devopspipline** to manage the resources across multiple subscriptions in **Azure**
* Setting up Jenkins Continuous Integration builds for all releases on windows and Linux.
* Implementing a Continuous Delivery framework using Jenkins & Maven in Linux environment
* Worked on **Terraform** to create the existing architecture for a secure infrastructure provisioning.
* Experience with Linux/UNIX environments, Shell and Perl scripting for monitoring server’s health by setting it via Cron and for Build & Release automation.
* Experience with **Kubernetes**, **Docker Swarm**, and **Azure** deployments.
* Expertise in using build tools like MAVEN and ANT for the building of deployable artifacts such as war &ear from source code.
* Implemented cloud services IAAS, PAAS, and SaaS which include Docker.
* Deployed several Azure services like Storage Account, Key vault, Mssql, Pgsql, Data factory, Cosmos DB, Cognitive Services, Logic apps, Functions using automation.
* Configured **Azure Virtual Networks, subnets, Azure network settings, CDIR address blocks, DNS settings, security policies.**
* Exposed Virtual machines and cloud services in the VNet to the Internet using Azure External Load Balancer.
* Continuous monitoring by creating rules and alerts using Azure Monitor.
* Used Groovy scripts for CI/CD pipeline builds and actively Involved in the entire Pipeline setups and Jenkins configurations.
* Deploying Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets.
* Implemented and responsible to be primary SME on Azure services including SaaS, PaaS and IaaS while contributing
* Managing Continuous Deployment Preparing GitLab YML file for application build and publish Pipeline.
* Supported build and release processes and tools like GIT.
* Used to manage GitLab and Bit Bucket account for providing access to the Developers and storing the source code.
* Automating in Azure for creation of subscription, Storage Account and tables using Windows PowerShell.
* Created solution architecture based on Microsoft Azure PaaS services.
* Implementation of Docker and various Docker orchestration tools docker-compose and docker-swarm and many other management tools.
* Integrated **Docker** container orchestration framework using **Kubernates** by creating pods, config Maps and deployments.
* Worked with building Kubernates run time environment of the CI/CD system to build, test and deploy in an open source platform.
* Involved in implementing Openshift linking application and load balancing application.
* Supervise junior developers throughout migration project lifecycle.
* Automation of Docker or evolving container management platforms like Kubernetes.
* Involved in setting up builds using Chef as a configuration management tool.
* Configured JIRA workflows according to the needs of the team and integrated the project management features of JIRA with the build and release process.
* Followed agile principles and used JIRA for maintenance and Bug development tasks.
* Maintained JIRA Tool for Issue tracking and bug tracking.
* Used Jira as the bug tracking tool to keep track of all the JIRA issues in the corresponding projects.
* Build and implement build pipeline using Azure DevOps
* Used configuration management tool **Ansible**.
* Created continuous integration system using Ant, Jenkins, Continuous Integration, faster and flawless deployments.
* Involved in several production Implementations and managed deployment processes via Linux Deployment Management System and Puppet.
* In-depth experience in operations support and meeting the business expectations for projects pertaining to **AzureCloud(PaaS and IaaS) infrastructure**.

**Environment:** Terraform, Chef, Ansible,GIT, Jenkins, Ant, Azure, Maven, Nexus, Sonar, Apache Webserver, Linux, Unix, Python script, Shell script, MongoDB, Apache Tomcat, Amazon DynamoDB, WebSphere.

**BCBS,Detroit**, **MI Nov 2018-Jul 2020**

**Cloud/Azure DevOps Engineer**

**Responsibilities:**

* Designed and automated **Azure** Infrastructure as a service (**Iaas**),Platform as a service (**Paas**) and capabilities which include virtual machine, contianer services, virtual networks and cloud services.
* Designing and developing continuous Integration/Delivery using **AzureDevops Pipelines**
* Create and maintain highly scalable and fault tolerant **Azure** environments spanning across multiple availability zones using **Terraform**
* Installed different Plug-ins in Jenkins to make easy for different team developers to commit their changes in SCM.
* Created detailed documentation of complex build and release process, post release activities process, JIRA workflow and Release notes.
* Inovlved in designing and implementing CI (Continuous Integration) system, configuring Jenkins servers, Jenkins nodes, creating required scripts and creating/configuring VMs(Windows/Linux).
* Configured, monitored, and maintained difference application servers as an administrator for Jenkins and other CI tools.
* Monitoring and implementing security on **Azure** IAAS VMs and virtual networks.
* Created and established build process **using Azure-Release pipeline** to perform builds efficiently and deployment of the application using IIS Server.
* Deploying Azure virtual machines and monitoring through OMS.
* Update Azure resource group, Key Vault, Function, API management services.
* Maintained Azure Vitual Machines Database, Azure Storage, Key Vaults, Function, APIs, VNet.
* Developing PowerShell script to enable and automate Azure services line Function app and Key vault.
* Worked together with developers to fine-tune process for newly introduced Atlassian tools in organization like JIRA, confluence, Stash-Git repository, Sourcetree. Merged Develop branches to Master Branch after successfully completing pull request in stash.
* Managed SVN repositories for branching, merging and tagging and developing Shell/Groovy Scripts for automation purpose.
* Updating kernel & security patches in Amazon Linux environment, handling out of memory issues in Linux kernels during rebalance in Kafka cluster.
* Created Automation to create infrastructure for Kafka clusters different instances as per components in cluster using **Terraform** for creating multiple EC2 instances
* Configured and managed source code using GIT and resolved code merging conflicts in collaboration with application developers and provided a consistent environment. Implemented Continuous Integration using GIT
* Worked on multi platforms like Linux (Centos-7)
* Creating scripts in DSL Groovy which integrate with Jenkins for Automation to create seed jobs
* Developed auto container to automate containerization of new and existing applications as well as deployment and management of complex run time environment like Kubernates.
* Performed Builds using MS Build and Devin command line for C#, VB, DOT NET Applications
* Worked with OpenShift platform in managing Docker containers and Kubernates Clusters.
* Created Multi-Masters and Multiple worker Kubernates cluster for Production environment
* Created a Chef Server for our team purpose and Involved in Configuring, monitoring and multi-platform servers by defining Chef Server from workstation (ChefDK) to manage and configure Chef Clients.
* Automated the scripts in Python for whole migration process using CM tool CHEF.

**Environment**: Clear Case, Azure, Terraform ANT,Groovy, Shell Scripts, XML, and UNIX, Jenkins, bash,Docker,Git,Svn, MySQL and NoSQL.

**Bayer, Pittsburgh May 2017 to Oct 2018**

**Cloud/DevOps Engineer**

**Responsibilities:**

* Responsible for defining, branching and merging strategy, check-in policies, improving code quality, automated gated check-ins, defining backup and archival plans.
* Experience in designing and deploying AWS Solutions using EC2, S3, EBS, ELB, Auto Scaling groups. Developing **Cloud formation** templates to launch **VPC**'s and instances in the AWS.
* Responsible for large-scale **Puppet** implementation and maintenance.
* Managed Puppet for configuration management and automation using AWS infrastructure. Installed, Configured, Managed **Puppet** Master/Agent automated on AWS.
* Created **Puppet** manifests and modules to automate system operations. Created monitors, alarms and notifications for EC2 hosts using **Cloud Watch**.
* Deployed and monitored scalable infrastructure on AWS and managing the infrastructure environment with **Puppet**.
* Developed automation scripting in Python using **Puppet** to deploy and manage Java applications across **Unix/Linux Servers.**
* Implementing a Continuous Delivery framework using **Jenkins**, Ant and Maven using AWS Cloud. Build Automation and Pipeline development using **Jenkins** and Maven.
* Designed Terraform template for Launch the EC2 instance with IAM, VPC, Subnet, Security Groups, Route Table and Internet Gateway.
* Our Continuous Integration stack consists of Git, Jenkins CI-CD, the Docker Trusted Registry.
* Managing Amazon Web Services (AWS) infrastructure with automation Using Terraform.
* Installed **Jenkins** for continuous integration and written Shell script for end to end build and deployment automation. Used **Jenkins** to automate most of the build related tasks.
* Experience in CI tools like **Jenkins**, Teamcity, **bamboo** using build tools like Ant, Maven.
* Implementing to build new project framework using **Jenkins**&**Maven** as build framework tools. Performing regular Cron job updates and Quartz scheduler jobs in servers.
* various resources, VPC EC2, S3, IAM, EBS, ELB Security Group, Auto Scaling, and RDS in Terraform templates.
* Created post commit and pre-push hooks using Python in SVN and **GIT** repositories.
* Deployment and maintenance using Micro services using **Docke**r.
* Used**Docker**containers for eliminating a source of friction between development and operations.
* Automated application deployment in the cloud using **Docker** technology using Elastic Container Service scheduler.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer
* Managing the database **DDL, DML** scripts in **SVN** and **GIT**.
* Deployed, configured GIT repositories with branching, forks, tagging and merge requests.
* Used UDeploy as Continuous Deployment tool and to setup automated and scheduled deployments. Maintained build related scripts developed in **ANT** and Shell.
* Created and maintained the Python deployment scripts for WebSphere web applications.
* Deployed **Java/J2EE** applications on to Apache Tomcat application servers and configured it to host the wiki website. Combat knowledge of DNS, DHCP and IP Addressing.
* Troubleshooting and maintaining **Splunk** Infrastructure in the organization.

**Environment**: Puppet, GIT, Docker, Jenkins& Hudson, Maven, Ant, AWS Cloud, SVN, Teamcity, Bamboo Apache Webserver, Tomcat, WebSphere, Sonar, JIRA, Python & Shell Scripts, Linux, Unix.

**Bed Bath & Beyond, NJ Jan 2016 to Apr 2017**

**DevOps Engineer**

**Responsibilities:**

* Responsible for defining, branching and merging strategy, check-in policies, improving code quality, automated gated check-ins, defining backup and archival plans.
* Experience in designing and deploying AWS Solutions using EC2, S3, EBS, ELB, Auto Scaling groups. Developing Cloud formation templates to launch VPC's and instances in the AWS.
* Responsible for large-scale Puppet implementation and maintenance.
* Managed Puppet for configuration management and automation using AWS infrastructure. Installed, Configured, Managed Puppet Master/Agent automated on AWS.
* Wrote custom modules and manifests, downloaded pre-written modules from Puppet-forge using AWS infrastructure.
* Created Puppet manifests and modules to automate system operations. Created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Deployed and monitored scalable infrastructure on AWS and managing the infrastructure environment with Puppet.
* Developed automation scripting in Python using Puppet to deploy and manage Java applications across Unix/Linux Servers.
* Implementing a Continuous Delivery framework using Jenkins, Ant and Maven using AWS Cloud. Build Automation and Pipeline development using Jenkins and Maven.
* Installed Jenkins for continuous integration and written Shell script for end to end build and deployment automation. Used Jenkins to automate most of the build related tasks.
* Experience in CI tools like Jenkins, Teamcity, bamboo using build tools like Ant, Maven.
* Implementing to build new project framework using Jenkins & Maven as build framework tools. Performing regular Cron job updates and Quartz scheduler jobs in servers.
* Created post commit and pre-push hooks using Python in SVN and GIT repositories.
* Deployment and maintenance using Micro services using Docker.

**Environment:** Puppet, GIT, Docker, Jenkins & Hudson, Maven, Ant, AWS Cloud, SVN, Webserver, Tomcat, WebSphere, Sonar, JIRA, Python & Shell Scripts, Linux, Unix.

**MobileHelp, Boca Raton, FL Sep 2014 to Dec 2015**

**Build & Release Engineer**

**Responsibilities:**

* Managed build and release processes and configurations to support software development, installation, testing builds and deployment operations.
* Installed **Jenkins** for continuous integration and written Shell script for end to end build and deployment automation.
* Used **Jenkins** to automate most of the build related tasks.
* Working with an agile development team to deliver an end to end continuous integration/continuous delivery product in an open source environment using **Jenkins**.
* Developed build and deployment scripts **MAVEN** as build tools in **Jenkins** to move from one environment to other environments.
* Wrote Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* Configured Managed and controlled the source code repository, currently housed in **Subversion, Git**.
* Creating**Jira** workflows to automate deployment and issue tracking.
* Work closely with developers, QA teams, Product owners and other stakeholders to deliver software through the build and deployment system.
* Developed branching strategy suitable to current code structure and successfully executed using SVNX, Uber SVN and Tortoise SVN.
* Hands on experience on **JIRA** for creating bug tickets, storyboarding, pulling reports from dashboard, creating and planning sprints and integrated with **SVN** and **Jenkins.**
* Used **ANT** scripts and Shell scripts to automate build and release process.
* Responsible for **building and releasing** packages for testing.

**Environment:** Subversion, Ant, X Code, Jenkins, JIRA, Apache Tomcat, LINUX, Ubuntu, Windows 7, Ant Scripts, Shell Scripts, Java, C#, .Net, Test Flight, Confluence, Eclipse, IIS Server, SQL Server 2008.

**Toshiba, Hyderabad, India Jul 2013 – Jul 2014**

**Linux Administrator**

**Responsibilities:**

* Automated both **.Net and Java Applications** using industry's best automation **tool Hudson.**
* **End to End automation** from Build to Production is implemented.
* All un-authorized access is revoked and Principle of Least privilege is applied with the aid of these tools.
* **ITIL best practices** were brought in to the normal SDLC process and lead the effort of bringing change in the organization.
* Facilitating the projects in Quality related activities as per **QMS** process.
* Generalizing **Audit Trail Reports and Time Sheet Report**.
* Prepared mock cutover plans and cutover plans for **Pre-Prod and Prod Deployments**
* Conducting and Attending Project Status **Review Meetings and Casual Analysis** Meeting for release activities
* Prepare the resources (People and environments) for the **build / Releases**
* Conducting the configuration audits as per schedule and Report the configuration audit findings and Track the findings to closure.
* Publish the changes with respect to **CI's** and amend affected documents periodically
* Ensure that back-ups are taken periodically.
* Responsible for the build and release management process.

**Environment:** ANT, Maven, Web logic, Perl Scripts, Shell Scripts, LINUX, SVN, Hudson.