**Amit Rozario**

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**Professional Summary**

Sr.DevOps Engineer from a development background with 8+ years of experience in CI/CD, designing, implementing automating end-to-end Continuous Build, Integration and Delivery. Strong innovative and technical background in AWS, Azure DevOps, Terraform and Containerization. **Linux** Systems Administrator with expertise in **Private**, **Public** and **Hybrid** Cloud platforms along with using various tools like **Docker**, **Kubernetes**, **Ansible**, **Chef**, **Jenkins**, **Git**, **Maven**.

* Experienced working in AWS cloud computing platform and many dimensions of scalability including **EC2, S3, EBS, VPC, subnets, Cloud formation,, Glacier,, SNS,SQS,SES, lambda, EKS, Sagemaker, Elastic IP, ELB, AMI, SNS, RDS, IAM, Route 53**, **Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups .**
* Expert in various **Azure** services like **Compute Caching, Azure SQL**, **NoSQL** **Storage**, **Network** **services**, **Azure Active Directory, API Management, Scheduling, Azure Autoscaling, PowerShell Automation, Azure Virtual Machines, Azure search**, **Azure DNS**, **Azure VPN** **Gateway, Notification hub.**
* Experience in **cloud automation and orchestration framework** using AWS and Azure, implemented multi-tier application provisioning.
* Used **Packer** to automate the build process for machine images and utilized **Vault’s** AWS secrets engine to generate dynamic, on-demand **AWS** access credentials for **Packer** AMI builds.
* Expertise in integrating **Terraform with Ansible**, **Packer** to create and **Version the AWS Infrastructure**, designing, automating, implementing and sustainment of Amazon machine images (AMI) across the **AWS Cloud environment.**
* Hands on experience on Backup and restore **Azure** services. Designed and configured Azure Virtual Networks, **Subnets**, **Azure** network settings, **DHCP** address blocks, DNS settings, security policies.
* Experienced in working on **Docker** hub and **Docker swarm**, **Docker compose** creating **Docker images** and handling multiple images primarily for middleware installations and domain configuration.
* Set up **Kubernetes** **Clusters** for running **microservices** and Pushed **microservices** into production with **Kubernetes** backed Infrastructure. Development of automation of Kubernetes clusters via playbooks in Ansible.
* Configured **Kubernetes** Replication controllers to allow multiple pods such as **Jenkins** master server in multiple minions. Managed Kubernetes charts using **Helm**, managed **Kubernetes** **manifest** files and created reproducible builds of the Kubernetes application.
* Used **Ansible and Ansible Tower** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Worked on writing the **ansible playbooks** for provisioning the **Azure VM's** using the resource manager and ansible **python SDK**. Created the **Azure** storage accounts, **VNET's**, **Subnets**, assigned the public IP, Altered the security groups, NIC's and Azure VM's for internal applications using **Ansible playbooks**.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using Ansible playbooks and has Integrated Ansible with Jenkins.
* Automated the Build Infrastructure for deploying services in docker environment using **Jenkins**, **SonarQube**, **Maven**, **Groovy**, **Job** **DSL**, **Docker** and **Splunk**.
* Creating **Dynatrace** dashboards for business defined KPIs and performance dashboards for applications performance monitoring using Application Insights and Dynatrace SAAS.
* **Experience with setting up Chef Infrastructure, bootstrapping nodes, creating, and uploading recipes, node convergence in Chef SCM.**Experience in using **Chef** for server provisioning and infrastructure automation, release automation and deployment automation, Configure files, commands, and packages.
* Experienced in Branching, Merging, Tagging and maintaining the version across the environments using **SCM** tools like **GIT, GITLAB CI, Subversion (SVN)** on Linux platforms.
* Architected **Jenkins** build pipelines in various Linux environments like **Red Hat Enterprise Linux**, **Ubuntu**, **Fedora**, **Centos** to build and deploy applications.
* Providing continuous improvement to agile software development teams by working with **Jenkins** under the **CI/CD** pipeline. Integrated **Ant**, **Nexus**, **Jenkins**, **SVN**, **Confluence** and **JIRA**.
* Regular Admin Tasks include building **Linux** servers for Production, Development and Test Environments and supported the ones under production.
* Experience in installation, configuration file system management through **Logical Volume Manager LVM**, **VERITAS Volume Manager VxVM**, **Solaris Volume Manager SVM.**
* Developed, customized and build packages on Solaris and rpms on Linux for deployment on various servers through **Software Development Life Cycle.**
* Experience in deployment of applications to Oracle WebLogic, JBoss, Apache Tomcat, Nginx and Web Sphere servers and worked on Logical Volume Manager (LVM), Veritas Volume Manager, Kickstart, Bonding, LAMP and LDAP.

**Technical Skills:**

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| --- | --- |
| **Cloud Platform** | AWS, Azure |
| **Configuration Management Tools** | Ansible, Chef, Puppet |
| **CI /CD Tools** | Jenkins, Bamboo |
| **Build Tools** | Maven, ANT, Gradle |
| **Containerization Tools** | Docker, Docker Swarm, Kubernetes, Mesos, OpenShift, Aws ECS. |
| **Version Control Tools** | GIT, GitHub, GitLab, Bitbucket, SVN |
| **Logging & Monitoring Tools** | Nagios, Splunk, ELK, CloudWatch, Azure Monitor, Prometheus, New Relic |
| **Scripting & Programming Languages** | Shell Scripting, RUBY, C, C++, XML, PL/SQL, Java/J2EE, HTML, PERL, POWERSHELL, Python, Java/J2EE, .Net |
| **Databases** | My SQL, MS SQL, Oracle, Dynamo DB, Cassandra, Mongo DB 7 SQL Server |
| **Application/Web Servers** | Web logic, Web sphere, Apache Tomcat, Nginx, Oracle application server |
| **Operating Systems** | UNIX, Linux, Windows, Solaris, CentOS, UBUNTU and RHEL. |
| **Virtualization Platforms** | Oracle VirtualBox, VMware Workstation, Vagrant, VMware vSphere ESXi 5.x/4.X, ESX /3.x, Hyper-V |
| **Bug Tracking Tools** | JIRA, Bugzilla, Remedy, HP Quality Center, IBM Clear Quest, Mingle |
| **Repositories** | Antifactory, Nexus |
| **Web Technologies** | HTML, CSS, Java Script, jQuery, Bootstrap, XML, JSON, XSD, XSL, XPATH. |

**Sr. DevOps Engineer Nov 2019 – Present**

American Automobile Association,

Costa Mesa, CA

**Responsibilities:**

* Experienced in Automating, Configuring and deploying instances in AWS environment. Worked with **AWS CLI and AWS** **API** to manage resources on AWS for many services such as EC2, S3, VPC, Cloud Watch, ELB, Auto-scaling, created python script using AWS API Calls to manage all resources **deployed on AWS**.
* Creating VPC, subnets, RDS, ELB, EBS using **security groups,** network ACLs, **Internet** Gateways, **NAT** gateway, and Route tables to ensure a secure available zone for organization in **AWS public cloud** and obtaining High Availability and Fault Tolerance for **AWS** **EC2** instances utilizing the services like **Elastic IP**, **EBS** and **ELB.**
* Proficient in the setup of Chef Servers, workstations & bootstrapping infrastructure Chef Nodes for configuration management.
* Developed and Modified **Chef Cookbooks** as **Light Weight Resources Provider.** Deployed applications in Web Servers and DB Servers using tools like **Chef and Ansible**.
* Worked with **Docker** and **Kubernetes** on AWS using **EKS** & **ECS**, from helping developers build and containerize their application to deploying the application on **AWS** container services.
* Managed Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, Kubernetes manifest files and releases of Helm packages.
* Migrated few **Cloud formation** templates to **Terraform** by using various AWS modules and Secured the Terraform State file in S3 buckets. Used **Terraform** Plan to meticulously detect and analyze the changes that will be inflicted after Terraform Apply.
* Involved in **working with Terraform** to bring up a count of 'container instances' or 'nodes' in an **AWS ECS cluster** with different instances running on each one.
* Used AWS **Beanstalk** for deploying and scaling web applications and services developed with Java, **PHP**, **Node.js**, **Python**, **Ruby**, and Docker on familiar servers such as **Apache** **Tomcat**, and **IIS**.
* Written **shell scripts** with **Bash, Python** to automate tasks like provisioning servers, installing, configuring packages and deploying applications on multiple servers in the Prod & Non-prod environments.
* Setup full **CI/CD** pipelines using **Jenkins** so that each commit a developer makes will go through standard process of software lifecycle and gets tested well enough before it can make it to the production.
* Setup Continuous integration with **Jenkins** and made use of wide range of plugins available to setup smooth developer friendly workflows.
* Made use of **Gradle** and **maven** for building applications and written structured pom files and integrating **maven** with **Jenkins**.
* Strongly proficient in Build and release of codes in Cloud containing **Linux** environments, using **Power Shell, TFS and Python Scripting** and in oriented application using **Java** and scripting languages like **Shell Scripting, Ruby** to totally automate **AWS** services.
* Helped individual teams to set up their repositories in bit bucket and maintain their code and help them setting up jobs which can make use of **CI/CD** environment.
* Effective maintenance of resources using **Ansible** and monitoring the health of Nodes and containers using **Kubernetes**.
* Made use of **ELK** stack for logging all the activity and create indexes which can be queried by **Kibana**. Written queries for kabana to fetch data for the dashboards.
* Setup **SonarQube** projects which corresponds to bit bucket projects and provide code analysis different programming standards.
* Automated **Datadog** Dashboards and assisted internal users for **Splunk** in designing and maintaining production quality dashboards.
* Provide support for teams working abroad and taking monthly sessions on how and what branching strategies are to be followed and how they can be beneficial.
* Developed **Power shell** scripts to automate web application servers and automation of the build and release process and to automate certain processes for the smooth process of build tool like Maven.

**Environment**: AWS, Docker, Selenium, Jenkins, shell scripts, Bash, Python, Splunk, **EC2,** Java, Ruby, Kibana, Gradle, Datadog, SonarQube

**DevOps Engineer Aug 2017 – Oct 2019**

Blue Cross Blue Shield,

Boston, Massachusetts

**Responsibilities:**

* Implemented various resources in Azure using **Azure Portal**, **PowerShell** on **Azure Resource Manager** deployment models. Experience deploying **Infrastructure as Code** applications using **ARM Templates**.
* Configured and deployed **Azure Automation Scripts** for a multitude of applications utilizing the Azure stack for Compute, Web and Mobile, Blobs, Resource Groups, **Azure Data Lake**, **HDInsight Clusters**, **Azure Data Factory**, **Azure SQL**, Cloud Services, and **ARM** Services and utilities focusing on Automation.
* Hands on experience on **using Terraform along with packer** to create custom machine images and automation tools like **Chef/Ansible** to install software's after the infrastructure is provisioned.
* Implemented Automation scripts in **python** and **bash** to deploy and manage **Azure** services like **Custom VPC**, **VPN, Subnets, Stack driver etc.**
* Expertise on Writing Templates for AWS **infrastructure as code using Terraform** to build staging and production environments and for deploying into AWS used automation pipeline tools like Jenkins, Artifactory, Chef and Terraform.
* Configured **Azure Virtual Networks**, subnets, **DHCP** address blocks, Azure network settings, **DNS** settings, security policies and routing. Also, deployed **Azure** **IaaS** virtual machines and Cloud services (**PaaS** role instances) into secure **Virtual Networks** and **Subnets.**
* Setup **Docker** to automate container deployment through **Bam** and Dealt with **Docker** **Hub**, making **Docker** **Images** and taking care of various Images essentially for middleware establishments.
* Used **Docker** for successful setup of Dev & Test environment for Developers and Testers by using **Docker Build** & **Docker Compose**.
* To achieve Continuous Delivery goal on high scalable environment, used **Docker**coupled with load-balancing tool **Nginx**.
* Wrote **Ansible** playbooks, inventories, created custom playbooks written in **YAML** language, encrypted the data using **Ansible** **Vault** and maintained role-based access control by using **Ansible** **Tower**.
* Used **Kubernetes** to deploy, scale, load balance and manage Docker containers with multiple namespace versions.
* Worked with **Jenkins** for **Continuous** Deployment, used **Kubernetes** for container orchestration, container storage, automation and to enhance container platform multi-tenancy.
* Used **Chef recipes** to setup Continuous Delivery pipeline with **Jenkins**, **Sonar Qube**, **Vagrant** the infrastructure to run these packages and various supporting software components such as Maven.
* Created **Terraform** scripts to launch the platform common services like **CI/CD** tool **JENKINS**, Configuration Management Tool **Chef**, Secrets management tool **Vault.**
* Wrote **Puppet** manifests for deploying, configuring, install shield and managing collected for metric collection and monitoring.
* Scheduled the **Linux** Cron jobs and **Jenkins** jobs for build automation. Developed **Perl** and **shell scripts** for automation of the build and release process & to perform deployments to **JBOSS and Tomcat Web servers**.
* Developed **Power shell** scripts to automate web application servers and automation of the build and release process and to automate certain processes for the smooth process of build tool like **Maven**.
* Coordinated developers with establishing and applying appropriate branching, labelling/naming Conventions using **GIT** source control.
* Maintained **Splunk** dashboards and associated charts, graphs, and drilldowns to enable managers, administrators, users and analysts to maximize the utility of the **Splunk** platform and applications.
* Worked on **Splunk** ITSI scales to collect and index terabytes of real-time and historical events and metrics, that are both human and machine- generated, across multi-datacenter and cloud-based infrastructures.

**Environment:** Azure, Splunk, Maven, Git, ARM services, Tomcat Web Servers, Jenkins, BigQuery, Perl, Linux, Nginx, Kubernetes, Docker

**DevOps Engineer** **June 2016 – July 2017**

United Health Group,

Minneapolis, MN

**Responsibilities:**

* Managed data warehouse using **Amazon RedShift** to analyze all data using **SQL** & existing business intelligence tools. Converted existing **AWS** infrastructure to serverless architecture (**AWS** **Lambda, Kinesis**) deployed via **Terraform** & **AWS** **Cloud formation.**
* Implemented **Chef** Recipes for Deployment on build on internal Data Centre Servers. Also re-used and modified same **Chef** Recipes to create a Deployment directly into Amazon **EC2** instances.
* Provided POC's to provision the **AWS** infrastructure using Ansible playbooks which includes checking the health status, monitoring and gathering facts about the **EC2** instances, elastic load balancers, auto scaling groups and other AWS resources.
* Used **Terraform** in **AWS** Virtual Private Cloud to automatically setup and modify settings by interfacing with control layer.
* Streamlined the **CI/CD** process for application deployments by enforcing strong source code repository management techniques and securing configuration files away from application source code for improved security.
* Wrote **Ansible Playbooks** with Python SSH as the Wrapper to Manage Configurations of OpenStack Nodes and Test Playbooks on AWS instances using Python.
* Built vault infrastructure in AWS and on-prem (pureflex). Built **CI/CD** pipeline for provisioning secrets and policy using Github and concourse CI.
* Designed and implemented automated process of build and deployment for various .**Net** and Java applications using various tools as per the needs of projects which includes **TFS**, **GIT**, **Jenkins** and **Anthillpro**.
* Architected **Jenkins** build pipelines in various **Linux** environments like RHEL, Centos and Windows to build and deploy **Java** applications.
* Manually made config changes for various teams on APP/Web Servers based on project needs. Used **PAC2000** tool to get request and perform steps accordingly to the team need.
* Responsible for CI and CD using **Anthil** Pro, **UrbanCode** **Deploy**, **Jenkins** integrating with TFS, MS Build, **Maven**, **Git**, SVN,TFS.
* Configured **Kubernetes** Replication controllers to allow multiple pods such as **Jenkins** master server in multiple minions. Managed Kubernetes charts using **Helm**, managed **Kubernetes** **manifest** files and created reproducible builds of the Kubernetes application.
* Created branches in **TFS** and coordinated with DEV teams according to their release schedules. Providing support to new users and also administrative support for team projects.
* Involved in migration of **TFS** **2010** to TFS 2015**,** created initial team project setup for newly migrated projects.
* Experienced in writing **Gradle** scripts to perform continuous build and integration of Java applications using Jenkins and deploy using **uDeploy**.
* Create build configurations in **Jenkins** and **Anthillpro** and integrate with the other tools like **Fortify**, **Black** **duck**, **SonarQube**, **Checkmarx**
* Integrated **Jenkins** with repositories like GitHub to build Automation tool (**Maven**), and Artifact repository for pushing successful build code.
* Worked on **Splunk** ITSI scales to collect and index terabytes of real-time and historical events and metrics, that are both human and machine- generated, across multi-datacenter and cloud-based infrastructures.
* Involved in all phases of **SDLC** from software requirements gathering, design, implementation, testing, and support and Product maintenance.

**Environment:** AWS, Jenkins, Black Duck, SonarQube, SQL, Splunk, .Net, Git, GitHub, Gradle, Maven, TFS, Checkmarks, Anthill

**Sr. Systems Administrator Aug 2014 – May 2016**

ITS, Minnesota State University

Mankato, Minnesota

**Responsibilities:**

* Developed Linux, UNIX, **Perl** and **Shell Scripts** and AWT programming for manual deployment of the code to various environments.
* Installed and configured the necessary packages using the **RPM** & **YUM** software/package management.
* Installing Red Hat Linux using **kick-start** and applying security policies for hardening the server based on the company policies.
* Worked on creating, cloning Linux **virtual Machines**, templates using VMware Virtual Client 3.5 and migrating servers between **ESX** hosts.
* Assisted project management team with design issues, troubleshoot technical issues, rotating on-call pager, Install **OS patches**, **NFS** mounts, and **Automount**.
* Administered and supported application servers included troubleshooting and monitoring servers using **Nagios**.
* Setting up user and group login ID's, printing parameters, network configuration, password, resolving permissions and access related issues via **ACL**.
* Worked on setting up **LDAP**, **DNS**, **DHCP** Server along with effective group and System Level policies and roaming profile features by using **Samba** and **NFS** servers.
* Installed, configured, performance tuning, security, backup, recovery and upgrade/patches of Linux and UNIX servers using **Crontab**.

**Environment:** RedHat Enterprise Linux 5.x, YUM, Bash, Firewall, Apache, Volume Groups, LVM, NFS, FTP,

SAMBA, SSH, DHCP, DNS, VERITAS Cluster Server, Windows Server 2003 Active Directory, Kickstart server.

**System Administrator** **Aug 2012 – July 2014**

Standard Chartered Bank**,**

Dhaka, Bangladesh

**Responsibilities:**

* Administered, maintained **RedHat 3.0, 4.0, 5.0**, AS, ES, Troubleshooting Hardware, Operating System Application & Network problems, **performance** issues and Deployed latest patches for **Linux** and **Application** servers, performed **RedHat Linux Kernel Tuning**.
* Configured volume groups and logical volumes extended logical volumes for file system growth needs using **Logical Volume Manager (LVM)** commands.
* File system Tuning and growing using **VERITAS** File System (VxFS), coordinated with **SAN** Team for storage allocation and Disk Dynamic Multipath. Managed **HP**-**UX**, **Compaq** and **Linux** workstations, and servers.
* LAN Cabling, RJ-45crimping, Labelling, Patch Panel, PC Junction boxesand Rack set-up.
* Installation and Configuration of networks, router configuration and wireless access point/router with security, TCP/IP, VPN, Content Filtering, Access Control Lists on router/switches, VLANs port mapping, naming etc. , and routing IP address in both LAN/WAN and wireless networks.
* Installing, configuring and **Windows 2003 servers of DHCP, FTP, WSUS, Web Server and SQL Database Server.**
* Served in computer maintenance, performed all types of hardware, software maintenance and engineering in addition to systems selection, backup and technical support.
* Managing Access Control through **vCenter** server, Optimizing Resource Utilization, Load Balancing (VMware DRS) and ensuring High Availability.
* Regular Admin Tasks include building **Linux** servers for Production, Development and Test Environments and supported the ones under production.
* Managed **TCP/IP** packets & **DHCP** servers, **resolved TCP/IP** network access problems for the clients and worked with various TCP/IP implementations like **NFSv4, NIS, DNS**, and **DHCP.**
* Monitored System Activities like **CPU, Memory, Disk** and Swap space usage to avoid any performance issues.
* Working with Apache Web servers and managing **JBOSS**, **Apache Tomcat** and **Web Sphere Application** servers.
* Involved in helping others Linux Administrators to deployed Splunk in a **Linux** and windows environment. Troubleshooting and monitoring the machines 24x7.

**Environment:** Microsoft Windows 95/98/2000/XP/2003, Linux, DNS, DHCP, TCP/IP, RIP, FTP, TFTP, Terminal Services, SNMP, SMTP, NFS, Oracle, Db2, JBoss, Splunk.