**Emran**

**Sr. Azure DevOps Engineer**

**PROFESSIONAL SUMMARY**

* Over 8+ years of professional experience in IT. Experience in Installation, configuration and troubleshooting of Redhat Linux, Ubuntu and Windows on various hardware platforms and over 7 years in DevOps tools like SVN, GIT, ANT, Maven, Jenkins, Zuul, Ansible, Chef, Docker, Kubernetes and AWS/ cloud.
* Experience in administrating of IAAS & PAAS VM's and Web roles on Microsoft Azure (Classic), Resource Manager and troubleshooting issues on Azure VM's. Supported technologies, such as Active Directory Federation Services (ADFS), Azure Active Directory (AD), and PowerShell.
* Hands on experience in cloud services, IaaS, worker/web role, service bus, azure blob, table storages, queue and API Management. Configured NSGs for two-tier and three-tier applications. Experience in integrating on premises servers to Azure Cloud.
* Created and managed Azure AD tenants and configured private and public facing Azure load balancers and applications with Azure AD and integrated on-premises Windows AD with Azure AD.
* Expertise in the concepts of Azure, OpenStack Cloud Based Technologies and configured Azure Blob storage and Azure file servers, Azure API Management, Traffic Manager and Resource Manager.
* Experience in Architecting and securing the Infrastructure on AWS using EC2, S3, RDS, EBS, VPC, ELB, IAM, KMS, EMR, Cognito, API Gateway, Cloud Trail, Cloud Watch, Amazon SQS, SNS, SES, Config, AWS Kinesis, Lambda, Network ACLs, Security Groups, Route Tables, Route53, Elastic Beanstalk, Redshift and deploying applications utilizing all these services majorly focusing on high-availability, fault tolerance, and Autoscaling in AWS CloudFormation.
* Experience with AWS Command line interface and PowerShell for automating administrative tasks. Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic reaching one or more AWS EC2, LAMBDA instances.
* Launched and configured the Amazon EC2 Cloud servers using Linux AMI and Ubuntu AMI and configuring the servers for specified applications using Jenkins.
* Experience in windows Azure and Azure internal tools for monitoring network and server health.
* Expert in various Azure services like Compute (Web Roles, Worker Roles), Caching, Azure SQL, NoSQL, Storage, and Network services, Azure Active Directory (AD), API Management, Scheduling, Azure Auto Scaling, and PowerShell Automation.
* Strong Experience in Micro services architecture and Migration of all servers from on - premises to Docker/Kubernetes container technologies in Azure.
* Hands on experience on Backup and restore Azure services and in Design and configure Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing. Azure cloud services, Blob storage, Active directory, Azure Service Bus, Cosmos DB.
* 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.
* Experience in working with container-based deployments using Docker, Docker images, Docker file, Docker Hub, Docker Compose and Docker registry, Used Docker-Swarm to maintain the cluster of containers.
* Experience on deployment automation of all the micro services to pull image from the private docker registry and deploy to docker swarm cluster using Ansible.
* Experience on OpenShift architecture for OpenShift build automation, OpenShift CLI and CLI operations, OpenShift cluster and cluster maintenance.
* Experience in implementing Spark processing, Kafka messaging, JBoss BRMS and Cassandra DB on the OpenShift container platform.
* Worked in DevOps group running Jenkins in a Docker container with EC2 slaves in Amazon AWS Cloud configuration. Also gain familiarity with surrounding technologies such as Mesos (Mesosphere) and Kubernetes.
* Worked on OpenShift platform in managing Docker containers and Kubernetes Clusters.
* Production experience in large environments using configuration management tools like Chef, Ansible and Puppet supporting Chef Environment with 500+ servers and involved in developing manifests. Developed Chef Cookbooks to monitor systems configuration.
* Involved in the functional usage and deployment of applications in WebLogic, WebSphere, and Apache Tomcat Server.
* Experienced in managing K8s charts using Helm and created reproducible builds of the Kubernetes applications.
* Experienced with Kubernetes to orchestrate the deployment, scaling and management of Docker Containers. Worked on Microservices and deploying Microservices using Kubernetes YAML files.
* Experience in orchestration of Docker Images and Containers using Kubernetes by creating whole master and minion. Installed Artifactory on-top of Kubernetes for dynamic PVC provisioning.
* Having experience on Ansible and Ansible Tower as Configuration Management tool and writing playbooks that automate repetitive tasks, managing changes for critical applications for continuous delivery.
* Experience with Ansible playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment.
* Expertise in using Chef attributes, Chef templates, Chef recipes and Chef files for managing the configurations across various nodes, build, design and maintain the platform automation using Chef and Involved in setting up Chef Workstation, Nodes, Cookbooks, and Recipes using Ruby Scripting.
* Experience in writing Jenkins Pipeline groovy, PowerShell scripts for Continuous Integration and build workflows.
* Experience on Installation and Configuration of Nexus repository manager for sharing the artifacts within the company and efficient in using Nexus and Artifact Repository managers for Maven builds.
* Experience in Configuring and Managing logging and monitoring tools such as Nagios, AppDynamics, Prometheus, Sumo Logic, Splunk, ELK.
* Experienced in installing Prometheus and Grafana using Helm to monitor the application performance in the Kubernetes cluster.
* Having experience with NoSQL databases like Cassandra and MongoDB.
* Expertise in writing terraform scripts from scratch and building highly automated infrastructure using automation frameworks such as CloudFormation and Terraform.
* Experience administrator skills on Linux/UNIX distributions (Red Hat/CentOS, Ubuntu, Solaris and AIX) and Windows flavors.
* Strong command of source controller concepts such as Branches, Merges, and Tags.
* Strong Knowledge in networking (Switching, routing, Firewall, DNS, TCP/IP, HTTP, SSL).
* Experience in handle tasks in Red Hat Linux includes RPMS using YUM and LVM file system.
* In-depth knowledge of computer applications and Shell scripts (Bash), Ruby, Python, PowerShell and Azure PowerShell for automating tasks.
* Had good understanding of the principles and best practices of Software Configuration Management (SCM) in Agile, scrum, and Waterfall methodologies.

**TECHNICAL SKILLS:**

**Cloud**: Azure, AWS, OpenStack

**Configuration Management Tools:** Chef, Puppet, Ansible

**CI/CD Tools:** Jenkins, Hudson, Bamboo, Terraform, Cloud Formation, Maven, Ant, Gradle

**Version Control:** GIT, SVN, Git Hub, Splunk,GitLab and Bit Bucket

**Database:** Cassandra, MongoDB, Splunk MYSQL, SQL Server 2012/2014

**Bug Tracking Tools:** JIRA, Rally and Remedy

**Containerization Tools:** Docker, Kubernetes and OpenShift

**Monitoring Tools:** Splunk, Nagios, New Relic, Solar wind

**Scripting:** PowerShell, Python, Groovy, JSON, YAML, Perl

**Web Technologies:** HTML, CSS, XML, Servlets, Java Script

**Application Servers & Web servers:** WebSphere, WebLogic, Tomcat, Apache server and JBoss

**Testing tools:** Selenium and Sonar Qube

**Operating Systems:** Red Hat Linux 7/6/5/4, Ubuntu 16/14/13/12, Debian, CentOS, Windows, Solaris 11/10 9/8, Mac OS, Fedora

**EDUCATION & CERTIFICATION:**

**B.Tech Computer Science and Engineering**, Medicaps Institute of Technology and Management, Indore, India.

**PROFESSIONAL EXPERIENCE**

**BlueCrossBlueShield – Kansas Jan 2020 to Present**

**Sr. DevOps Engineer**

**Responsibilities:**

* Worked on Microsoft Azure Cloud (Public) to give IaaS support to customer. Make Virtual Machines through Power Shell Script and Azure Portal. Overseen and Created Storage Account and Affinity Group in Azure Portal.
* Dealt with Windows Azure IaaS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways, Auto-Scaling. Exposed Virtual machines and cloud services in the VNets (Virtual Networks) to the Internet using Azure External Load Balancer.
* Involved in Azure infrastructure management (Azure Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD Licenses). Provided high availability for IaaS VM's and PaaS instances for access from other services in the Vnet with Azure load balancers and implemented Azure classic and Azure ARM for deployment process.
* Created subscription, Storage Account and tables using Windows PowerShell using automation in Azure.
* Defined and implemented monitoring processes for uptime, performance, and security for solutions deployed to the Microsoft Azure Cloud. Used ELK for monitoring purposes for LOG analytics and Application monitoring and integrated this with Azure for security purpose we use search guard to protect the logs.
* Working with Azure Service Fabric, exclusively to create microservice application, used Stateful partitions with named service and secondary replicas for scalability and availability. Ability to write Shell & Perl scripting.
* Used Azure cloud services, Azure storage, Azure active directory, Azure Service Bus and Hybridization Cloud.
* Led implementation of Azure Active Directory for single sign on, authentication, authorization and Azure Role-based Access Control (RBAC).
* Implemented Azure Kubernetes service to deploy a managed Kubernetes cluster in Azure and create an AKS cluster in the Azure portal, with the Azure CLI.
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, test deploy. Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Used Helm charts to package and deploy common applications in Kubernetes.
* Used Chef to maintain and manage the existing infrastructure as well and by using ruby/yaml script. Created lot of recipes in cookbooks and bootstrapped the nodes with chef enterprise servers to store the data in the node
* Written wrapper scripts to automate deployment of cookbooks on nodes and running the chef client on them in a Chef-Solo environment. Converting production support scripts to Chef Recipes.
* Used Ansible to deploy applications on all servers through SSH. Gathered required configurations of all servers and maintain the playbooks updated using Ansible. Automated various infrastructure activities like Continuous Deployment and Application Server setup
* Experience with Jenkins administration, backups, and plugins. Using master slave configuration maintained various jobs in Jenkins and supported development teams.
* Built upstream and downstream jobs in Jenkins to build and deploy onto different environments, worked with Jenkins CLI, manage plugins and Jenkins file.
* Performed code commit, revert, checkout and merge operations on GIT and pushed sourced code to GitHub.
* Defined dependencies and plugins in Maven pom.xml for various activities and integrated Maven with GIT to manage and deploy project related tags.
* Implemented centralized logging system using Logstash, configured an ELK stack (Elastic search, Logstash and Kibana) to monitor system logs. Involved with index management, shared allocation and snapshot the data to a different repository for disaster recovery in Elasticsearch
* Used Terraform to provision Infrastructure for cloud with Infrastructure as a code (IaaC). Also, created reusable Terraform modules in Azure environment.
* Involved in creation of Terraform Templates to automate the Azure Iaas VM's using terraform modules and deployed virtual machine scale sets in production environment.
* Used Azure Terraform to deploy the Azure infrastructure necessary to create development, test, and production environments for a software development project.
* Worked with Terraform Templates to automate the Azure Infrastructure as a Service (IaaS) virtual machines using Terraform modules and deploy the virtual machine scale sets in a production environment and so implemented Terraform Enterprise to provision infrastructure across Azure workloads and Kubernetes clusters.
* Maintained and Debugged Code to meet the required standards by using SonarQube and used Selenium for testing purposes. Also, monitored system activities to optimize performance and ensure security of systems.
* Operating and producing systems design specifications for Linux and Windows based platforms, MS SQL and MySQL.

**Environment**: Azure, Tomcat Apache, Cloud Formation, Terraform, Dynamo DB, Elastic Search Kibana, Git, Linux, Jenkins, Maven, Chef, Ansible, SonarQube, Docker, Kubernetes.

**Sony Pictures – Los Angeles, CA Aug 2017 to Jan 2020**

**Sr. Cloud Engineer**

**Responsibilities:**

* Involved in designing and deploying large 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.
* Utilized AWS Storage Gateways, performed 300+ GBs of Data Migration to AWS S3. Also, Configured AWS IAM and Security Group in Public and Private Subnets in VPC. Managed multiple AWS accounts with multiple VPC's for both production and non-production. Supported 400+ AWS Cloud instances and used AWS CLI to manage and configure various AWS products.
* Designed cost effective and fault tolerant systems using EC2 instances, Amazon Machine Images (AMI), Maintained roles and groups using AWS Identity Access Management (IAM), also maintained user accounts, VPC, Dynamo DB, Code Commit, SES, SQS & SNS services in AWS Cloud. And have experience in creating alarms and notifications for EC2 instances using Cloud Watch.
* Launched and configured the Amazon EC2 Cloud servers using Linux AMI and Ubuntu AMI and configuring the servers for specified applications using Jenkins.
* Performed the automation deployments using AWS by creating the IAMs and used the code pipeline plugin to integrate Jenkins with AWS and created the EC2 instances to provide the virtual servers.
* Deployed and configured Elasticsearch,Python Logstash, and Kibana (ELK) for log analytics, and application monitoring in integration with AWS Lambda and CloudWatch. Then store that logs and metrics into an S3 bucket using Lambda function. Created AWS S3 buckets, performed folder management in each bucket, managed cloud trail logs and objects within each bucket.
* Worked with Terraform to create stacks in AWS from the scratch and updated the terraform as per the organization's requirement on a regular basis.
* Implemented a server less architecture using API Gateway, Lambda, and DynamoDB and deployed AWS Lambda code from Amazon S3 buckets. Created a Lambda deployment function, configured it to receive events from our S3 buckets and provisioned Lambda functions to create a Log stash for centralized logging.
* Developed Terraform templates to create load balancers (ELB), EC2 instances with auto scaling, monitoring on the fly for different environments such as QA, Python,SIT, stage which will run on different VPCs.
* Built scalable Docker infrastructure for Micro services utilizing ECS - AWS Elastic Container service by creating task definition json file.
* Responsible for the design, development and administration of transactional and analytical data constructs/structures and business reports from legacy to AWS and Snowflake.
* 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, and IIS.
* Implemented AWS Code Pipeline and Created Cloud formation JSON templates in Terraform for infrastructure as code.
* Maintained Apigee, Python for building applications, providing security over cyber threats in giving better assistance to the developer teams.
* Worked on Docker container snapshots, attaching to a running container, removing images, managing directory structures and managing containers in AWS ECS.
* Virtualized the servers using Docker for the test environments and dev-environments needs, also configuration automation using Docker containers.
* Worked on the creation of custom Docker container images, tagging and pushing the images and Docker consoles for maintaining the application of life cycle.
* Worked on OpenShift for container orchestration with Kubernetes container storage, automation to enhance container platform multi-tenancy also worked on with Kubernetes architecture.
* Managed Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, templatize Kubernetes manifests, provide a set of configuration parameters to customize the deployment and Managed releases of Helm packages.
* Implementing clusters using Kubernetes and worked on creating pods, replication controllers, Name Spaces, deployments, Services, health checks, Ingress resources and Controllers by writing YAML files. Integrated them using weave, flannel, calico SDN networking.
* To deploy instances used Ansible playbooks and wrote modules in Ansible to integrate with Apache Tomcat and AWS. And used Ansible playbook to deploy applications.
* Implemented multi-tier application provisioning in OpenStack cloud, integrating it with Ansible.
* Provided 24/7 on call production support. AWS automation through Ansible environment.
* Worked extensively on automation engine Ansible that automates cloud provisioning, configuration management, application deployment, intra-service orchestration, and many other IT needs.
* Developed several Ansible playbooks for the automation that was defined through tasks using YAML format and run Ansible Scripts to provision Dev servers.
* Managed GIT repositories for branching, merging and tagging and developing Groovy Scripts for automation purpose. Extended the generic process by attaching the Jenkins job webhook to all the current Java and Scala-based projects in GitHub.
* Worked with application teams to install operating system, Hadoop updates , patches, version updates as required.
* Installed Jenkins/Plug-in for GIT Repository, Setup SCM Polling for Immediate Build with Maven and Maven Repository (Jfrog Arti factory) and Deployed Apps using custom ruby modules through Ansible as a CI/CD Process.
* Developed a generic Jenkins job in Jenkins for continuously building all kinds of maven projects through the webhook. And, I was replacing the existing individual maven jobs.
* Generated scripts in Maven, Perl & Bash Shell for build activities in QA, Staging and Production environments.
* Used New Relic application monitoring for performance metrics in real time to detect and diagnose application problems automatically.
* Worked on Ansible playbooks for Kafka, Python Grafana, Prometheus and its exporters.
* Wrote bash scripts to automate Nagios service check creation through usage of an SNMP index as an array to monitor production SMS binds to major cell phone carriers.
* Responsible for creating and maintaining the new LDAP OU, Groups, Schema, and attributes.

**Environment**: AWS (EC2, ECS, EKS, S3, EBS, ELB, RDS, SNS, SQS, VPC, Cloud formation, Cloud watch, ELK Stack), Ansible, LDAP, Python (BOTO API), Red Hat Linux, Packer, CloudWatch, Node.js, Groovy, Shell scripting, Ruby, Kubernetes, Grafana, OpenShift, Terraform, JIRA, GIT, New Relic, Nagios.

**DLL Financial – Pennsylvania Jan 2016 to Aug 2017**

**Devops Engineer**

**Responsibilities:**

* Coordinated cross-functional initiatives, proactively identifying software application dependencies, and driving software issues into resolution
* Developed objectives, phasing and content of the software release management and engineering strategy for various application product teams
* Implemented and maintained continuous integration (CI) using tools Jenkins/Maven over diff environments to facilitate an agile development process which is automated and repeatable enabling teams to safely deploy code many times a day while ensuring operational best practices are supported
* Used Maven to build the source code and supported to create Dynamic Views and Snapshot views for end users
* Planed, deployed, monitored, and maintained Amazon AWS cloud infrastructure consisting of multiple EC2 nodes
* and VMWare VM's as required in the environment
* Implemented and automated the Environment Provisioning Using Ansible & Docker
* Configured AWS IAM and Security Groups in Public and Private Subnets in VPC, managed IAM accounts (with MFA) and IAM policies to meet security audit & compliance requirements.
* Installed Jenkins/Plug-in for GIT Repository, Setup SCM Polling for Immediate Build with Maven and Maven Repository (JFrog Artifactory) and Deployed Apps using custom ruby modules through Ansible as a CI/CD Pro-cess.
* Developed a generic Jenkins job in Jenkins for continuously building all kinds of maven projects through the webhook. And I was replacing the existing individual maven jobs.
* Applied fix packs, refresh packs and patches for different versions of Application Servers and Web servers in Linux/Windows environment.
* Worked on building microservices and deploying them into Kubernetes cluster as well as Docker Swarm.
* Worked on OpenShift for container orchestration with Kubernetes Python,container storage, automation to enhance container platform multi-tenancy also worked on with Kubernetes architecture.
* Managed Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, templatize Kubernetes manifests, provide a set of configuration parameters to customize the deployment and Managed releases of Helm packages.
* Developed script using PERL/Python/Jython/Shell as a development language for WebSphere Application Server.
* As a WebSphere Administrator support, various environment activity and deliveries.
* Collected the Business requirements and understand the existing environment.
* Responsible for setting up Jenkins tools and maintaining the tool.
* Build, Support, and Administer WebSphere middleware suite including WebSphere Application Server, Process Server, JBoss, Tomcat, HTTP Web Server on AIX, Solaris, and Linux.
* Implemented a Continuous Delivery framework using Jenkins and Ansible, in a Linux environment.
* Worked in gathering Business Requirements, Capacity Planning, Hardware assessment, Implementation, System Documentation, End-User Training, and Production Support of WebSphere Application Server and Process Server in clustered and non-clustered environments.
* Expert in Planning, Installing, Configuring, Deploy, Tuning, Administering, and Troubleshooting of IBM WebSphere Application Server, IBM WebSphere Process Server on AIX, Linux, and Windows platforms.
* Eorked on installing WebSphere Network Deployment/Extended Deployment/Process Server/Lombardi platforms over WebSphere binaries.
* Worked on creating Deployment Manager and Node profiles in vertical and horizontal clustering for failover and backup/recovery processes.
* Created the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a Continuous Integration system for all our products.
* Experience in troubleshooting issues using the Dynatrace Monitoring tool and Splunk.
* Responsible for writing Jython scripts to migrate resources from WAS 7.0 to 8.5.
* Responsible for monitoring the application performance, Java heap, DB pool connections, Web Container threads, Active Sessions, application response times CA Wily Introscope.
* Responsible for opening change requests in ServiceNow for releases and responsible for coordinating the work with various teams during release week.
* 24x7 on-call support and working with IBM Premium support to resolve critical tickets.

**Environment**: Python, WebSphere 7/8.5, Shell scripting, PERL scripting, Eclipse, Jenkins, Ansible, UNIX/Linux, Crontab, SVN, JFrog Artifactory, AWS, Git, Maven, Kubernetes

**Big Bizz Solutions, India April 2014 to Dec 2014**

**Devops Engineer**

**Responsibilities:**

* Responsible for installation and upgrade of patches and packages on RHEL 5/6 using RPM & YUM.
* Designed Continuous Build Process using Jenkins Pythons to prevent build failures.
* Supporting different projects build & Release SCM effort e.g. branching, tagging, merge, etc.
* Integrated GIT into Jenkins to automate the code check-out process. Used Jenkins for automating Builds and Automating Deployments.
* Managed build results in Jenkins and deployed using workflows. Installed Jenkins on a Linux machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Planned, designed, developed infrastructure automation Puppet and Chef, for build and release process.
* Integrated delivery (CI/CD process) Using Jenkins, Nexus, Yum and puppet.
* Build artifacts (war, ear) are deployed into a Tomcat, Python WebLogic app server by integrating Scripts.
* Developed Ant and Maven scripts to automate the compilation, deployment and testing of Web, J2EE and applications.
* Experienced in authoring pom.xml files, performing releases with the Maven release plugin, of Java projects and managing Maven repositories.
* Have used Confluence to create, share and discuss content and projects.
* Created Perl & UNIX scripts for build and Release activities in QA, Staging and Production environments.
* Worked in JIRA to capture, organize and prioritize issues. administering JIRA for issue management.
* As a member of Release Engineering group, redefined processes and implemented tools for software builds, patch creation, source control, and release tracking and reporting, on UNIX platform.

**Environment**: GIT, Jenkins, Chef, Linux AMI, Apache Tomcat, JIRA, Ubuntu, Oracle server