Pramod Chilukuri
DevOps/Cloud Engineer
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SUMMARY

- IT professional with **5 years** of experience with ability to Design, Develop and Integrate DevOps tools, Build/Release management, **Continuous Integration and Continuous Deployment (CI/CD)**, **Configuration Management** and support and creating **DevOps** strategies with environments of **Linux servers**, **AWS and AZURE.**
- Experience on various environments in software development life cycle **(SDLC)**, windows, Linux/Unix system Administration, System Builds, Server Builds, Installations, Upgrades, Patches, Migration, and Troubleshooting on **RHEL** and **CentOs**.
- Provide configuration management solutions using tools (Chef) and automation solution using scripts (**Shell, PowerShell, Python**) to ensure maintenance of cloud and custom applications by the Continuous deployment and Continuous delivery pipeline work.
- Configured **Azure Virtual Networks, subnets, DHCP** address blocks, **Azure network settings**, **DNS settings, security policies** and **routing**. Also, deploying **Azure IaaS** virtual machines and Cloud services (**PaaS role instances**) into secure **Virtual Networks** and **subnets.**
- Experience on IT Service Management and IT Infrastructure Library in ServiceNow
- Experience in infrastructure development and operations by involving in designing and deploying using **Amazon web services (AWS)** like **AWS EC2 Instance, Route53, DNS, Puppet, Chef, ELB, EBS, AMI, IAM, VPC, S3, cloud front, cloud formation templates (CFT), cloud watch monitoring.**
- Experience in configuring, managing and using **CRM** and Atlassian products (**Jira, Confluence**, etc).
- Strong hands-on expertise in designing highly available, cost effective and fault tolerant systems using **EC2 instances, Auto Scaling, Elastic Load Balancing** and **Amazon Machine Images (AMI).** Utilized **Amazon Elastic Block Store (EBS)** to store persistent data and mitigate failure by using snapshots.
- Help build the enterprise **CRM** strategy from the ground up, and work on a diverse range of **CRM**/Salesforce applications for patient-related operations, marketing and digital applications.
- Experience working in an **Agile** development environment.
- Experience in building stream-processing systems, using solutions such as **Kafka, Storm or Spark-Streaming.**
- Introduced to Cloud automation technologies such as **Cloud Formation** and **Terraform** and experienced in using **Terraform** for building, changing, and versioning infrastructure and manage existing cloud infrastructure as well as custom in-house solutions.
- Hands on experience in writing **Terraform** API modules to manage infrastructure, for automatic creation of **RDS instances**, **VPCs**, **Autoscaling groups**, **Mesos**, **Load balancers**, **S3 buckets** in **AWS** also Automated various infrastructure activities like **CI/CD process**, Application Server setup, stack monitoring using **Ansible playbooks**.
- Implementation of **ServiceNow** core modules and applications
- Knowledge of DevOps tools, **GIT, SVN, Jenkins, JIRA, Rally, Green hopper, Puppet/Chef Vagrant, Selenium**, etc.
- Experience in Containerization tools such as **Docker, Kubernetes** and handled several **Docker** components like **Docker Engine, Docker-Hub, Docker Compose, Docker Registry, Docker Swarm** and Orchestration tools such as **Kubernetes.**
- Experience on AWS and **Kubernetes** based container deployments to create self-environments for dev teams and containerization of env's delivery for releases and troubleshooting **Kubernetes** Infrastructure setup and supporting application teams.
- Relevant experience in managing and supporting **MS Dynamics CRM** for an organization
- Developed **Continuous integration and Continuous Delivery process (CI/CD)** pipeline with **Jenkins** on **Kubernetes** container environment, utilizing **Kubernetes** and **Docker** for the **CI/CD** pipeline to build, test and deploy.
- Experience in working on **Ansible Playbooks**, Inventory files, **Maven**, Vault feature to configure the servers, deploy software, encryption of data file & orchestrate continuous deployments or zero downtime rolling updates.
- Leverage open technology such as **Docker, Swarm, Salt stack, Bash, JavaScript, Python, Git, Jenkins, Linux, HAProxy, AWS Cloud, ELK, Java, Kafka, MongoDB.**
- Experience in Maintenance of Source Control Management Systems such as **GIT and Subversion (SVN).** Created tags, branches, merging and administrated software repository and build automation tools like **Maven,** and **ANT** for the building of deployable artifacts such as **jar, war** and **ear** from source code to write **pom.xml**, **build.xml** respectively.
- Atlassian tooling (**Bitbucket** server, **Jira Software** and others as required) enterprise roll out including.
- Configured Chef Infrastructure. Setup chef infrastructure for various environments. Used open source chef, chef-solo and chef-zero. Also, written various cookbooks for infrastructure automation.

- Knowledge on Hadoop experience with (HBASE, POSTGRES (RDBMS), **KAFKA, DOCKER, MARATHON, MESOS, ZOOKEEPER, MAHOUT, SPARK, ANSIBLE).**
- Good working knowledge of software build tools (**Maven, MSBuild),** artifact repository managers (e.g. **Nexus, Artifactory**) as well as packaging tools (RPMs, MSI)
- Expertise in creating Chef Cookbooks/Recipes, Puppet, custom resources, libraries, etc. Implemented exception handling using chef handler.
- Configuring and maintaining Puppet master server, creating modules and pushing them to puppet clients around hundreds of servers.
- Experience using **Docker** or **OpenShift 3.0**
- Strong hands on experience with Scripting Languages like **Python**, **JavaScript**, **Helm, JSON, YAML, Bash/shell** and for automation of the build and release process **Continuous integration and Continuous Delivery process (CI/CD).**
- Experience in maintaining applications by Monitoring logs information, Resources usage and performance and get the Health and Security notifications from **AWS** nodes by using Monitoring tools like **Splunk, ELK (Elastic search, Log Stash, and Kibana),Nagios** and **AppDynamics** and created monitors, alarms & notifications for **EC2** hosts using **CloudWatch**.
- Experience Achieving **High Availability** with the help of monitoring tools like (**SPLUNK, ELK**) and automated **Log stash (ELK Stack)** as a part of Server Build and building Elastic search (**ELK Stack**).
- Experienced with **VMware ESXi 5.1/5.5/6.5** Installation/Configuration/Administration with various virtualization components like **vCenter, vSphere.** Perform Deployment of Release to various **QA & UAT** in **Linux** environments.

EDUCATION

Bachelor of commerce (Computers) - Osmania University. (India, Hyderabad)   April 2015

TECHNICAL SKILLS

DevOps Tools	Bamboo, Jenkins, ADO, Maven, ANT, Ansible, Chef, Puppet, Terraform
Cloud Platforms	Microsoft Azure, Amazon Web Services
Operating systems	RHEL/CentOS 5.x/6.x/7, Ubuntu/Debian/Fedora, Solaris 7/8/9/10, Windows Server 2003/2008/2012
Virtualization/Containers	VMware ESXi 6/5.x/4.x, vSphere, vCenter, Docker, Kubernetes
Version Control tools	Bitbucket, GITHUB, SVN, TFS (Team Foundation Server)
Web /Application Servers	Tomcat, Apache, JBoss, WebSphere application server, WebLogic Application server
Bug Tracking Tools	JIRA, Remedy, IBM clear Quest, Bugzilla
Languages	XML, HTML, YAML, Shell Scripting, Python, Bash, Groovy, Java, JavaScript, TypeScript

PROFESSIONAL EXPERIENCE

Lululemon – Remote Toronto   **Nov 2019 – Present**
DevOps Engineer

- Responsible for Implementation, design, architecture, and support of cloud-based server and service solutions.
- Managed multiple **AWS** accounts with multiple VPC's for both production and non-prod where primary objectives included automation, build out, integration and cost control.
- Responsible for using **AWS** Console and **AWS CLI** for deploying and operating AWS services specifically **VPC, EC2, S3, EBS, IAM, ELB, Cloud Formation and Cloud Watch.**
- Template **AWS** infrastructure as a code using **Terraform** to build staging and production environments.
- Implemented security scans on the application servers using **Qualys, AWS Inspector**.
- Implemented **WAF (Web Application Firewall)** for Web applications.
- Worked with **JIRA** for creating Projects, assigning permissions to users and groups for the projects & Created Mail handlers and notification Schemes for **JIRA**.

- Administered and Engineered **Jenkins (Jenkins Pipelines for CICD)** for managing weekly Build, Test and Deploy chain.
- Configured a **VPC** and provisioned EC2 instances, EBS in different availability zones.
- Implemented and maintained the monitoring and alerting of production and corporate servers/storage using **AWS Cloud Watch**.
- Designing and implementing container orchestration systems with Docker Swarm and Kubernetes.
- Setting up private API Gateways with **VPC** endpoint
- Deployed various databases and applications using **Kubernetes cluster** management some of the services are reddis, nodejs app, nginx etc.
- Extensive knowledge of Creating **NACLs, RDS, EC2, Security Groups, Carving out subnets** from VPC using AWS console and cloud formation templets
- Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in **Cloud Formation** JSON templates.
- Creating Cloud Watch alerts for instances and using them in Auto Scaling launch configurations.
- Used Kubernetes for container management that runs Docker containerized applications in a cluster of EC2 instances in Linux/Unix Environment.
- Experience in working with GIT to store the code and integrated it to **Ansible Tower** to deploy the playbooks.
- Virtualized the servers on **AWS** using the **Docker**, create the **Docker files** and version control.
- Setting up and administering DNS system in **AWS** using **Route53**.
- Created images and stored in the **Docker** containers and uploaded to the **Docker** hub.
- Developed procedures to unify, streamline and automate application development and deployment procedures with Linux container technology using **Docker**.
- Created and maintained containers using **Kubernetes, Helm**.
- Setup and maintenance of automated environment using **Chef Recipes & cookbooks** within AWS environment.
- Automated middleware layer and database layer infrastructure deployment tasks using **Chef.**
- Written **cookbooks** for installing Tomcat, WebLogic, JBoss, WebSphere, JDK etc. and for configuring load balancers and fail over.
- Automated the front-ends platform into highly scalable, consistent, repeatable infrastructure using high degree of automation using **Chef, Jenkins, and Cloud Formation**.
- Implemented Continuous Integration (CI) using **Jenkins Pipelines**, Git from scratch. Using **GIT** (Stash) tool as the source code repositories for all projects and **Artifactory** for all builds release repository.
- Working in an **Agile** development methodology and continuous delivery environment.

Environment: Amazon Web Services (AWS) EC2, EC2, Helm, Route53, Kafka, S3 buckets, RDS, Dynamo DB, SNS, SQS, IAM, VPC, EBS, Ansible, Docker, Splunk, Prometheus Windows XP, Grafana, JIRA, Chef, Puppet, Kubernetes, OpenShift, Nexus, GIT, Maven, Ant, Jenkins, Apache Tomcat Web Sphere, SVN, ServiceNow, Kafka, Python, Shell, XML, UNIX, Linux (RHEL).

Servus Credit Union – Edmonton, AB	**April 2019 – Nov 2019**
DevOps Engineer	

- As part of the Cloud Security Project, Develop Azure Security Policy's for Servus Applications Which are being migrated from on-perm to Azure cloud. Developed Build and Release Pipeline for Deploying Azure Security Policies on Management Level Groups. Build and Release Pipeline For both NPE and Prod Environment.
- Developed **Ansible** Playbook to dynamically change the pipeline configuration of the scripted pipeline by templating the **Azure pipelines** file. Integrated **Kubernetes** cluster deployment using KOPS in to the pipeline for deployments of the cluster with newly created Image to achieve **Blue/ Green** Deployments.
- Deployed **Kubernetes** Cluster on AWS, VMware using **MiniKube**, **Kubespray**, performed the deployments of the Docker images on to the clusters by updating the Labels and selectors in the Pod definition.
- Deployed and customized **Azure** Security Policies Through **Azure CLI** and deployed on Management Groups, customized the existing policies and deployed though **Terraform** on NPE and Prod Environment.
- Using **Docker** and setting **Azure Container Registry** with Docker and actively involved in deployments on to **AKS**. Implemented a Continuous Integration and Continuous Delivery (CI/CD) pipeline with **Chef, Puppet**, **Docker, Azure Pipeline, Mesos** and **GitHub, Nexus** and **Container** Service.
- Involved in infrastructure as code, execution plans, and resource graph and change automation using **Terraform** and implemented through **Azure** pipeline (ADO).
- Deployed and Configured Automation tools like **Puppet, Blade logic, Ansible** and **Chef**

- Exposure to Atlassian products (**Jira**, Confluence) especially plugin development, REST services and general experience with **JIRA** administration is a definite plus.
- Working in an **Agile** development methodology and continuous delivery environment.
- Build Continuous Integration environment (**Jenkins, Nexus**). And Continuous delivery environment (puppet, Yum, rsync).
- Provide SME in all areas of Cloud (IaaS, PaaS, SaaS) to existing and perspective clients on multiple cloud platforms; vSphere/vCloud/CloudStack/Azure/AWS and various PaaS platforms (Cloud Foundry/**OpenShift**).
- Utilized **ARM** template building Infrastructure with High-Availability for an application backend Infrastructure and Virtual machine Scale sets for front end along with Multiple Servers Such as reporting, Scripting and Scheduling Servers.
- Worked on Load balancer, Application Gateways and Fed proxy for HA. Created performance measurements to monitor resources across **Azure** using **Azure** native monitoring tools like OMS utilizing **ARM** template.
- Wrote **PowerShell** scripts for user validation in the **Azure Active Directory** which are developed Python scripts for getting user credentials in the **Azure LDAP** system to validate the user authentication.
- Assist in identifying and analyzing system solutions available through **ServiceNow**
- Experience working on data streaming using **Kafka.**
- Configured VM networking with reserved **IPs,Nexus, Health Monitors, Maven, Firewall rules, VM scale sets** and availability sets in the **Azure** Cloud. Worked with **Bootstrap script** for application automation and domain joining in the VM, implementing and managing continuous delivery systems and methodologies using **VSTS(ADO)**.
- Implement network security in Azure environment through Endpoints, **ACL** and rules in windows **Azure** portal. Supported application team in any issues with the infrastructure, Ports, and firewall issues.
- Managed infrastructure resources, like physical machines, VMs and **Docker** containers using **Terraform** and created automated build procedures to ensure code is always ready for deployment in **Azure.**
- Developed **Splunk** Dashboards, searches and reporting to support various internal clients in Security, IT Operations and Application Development.
- Analyzing & troubleshooting the current infrastructure, tools, and software system design to ensure software and hardware performances reliable to the business needs.
- Managed tickets using **Azure DevOps** ticketing tool, created projects, assigning permissions to users and groups for the projects & created mail handlers and notification schemes for **ADO**.
- Help teams to analyze the optimal tools and methods for automating the process within their application lifecycles with a specific focus on increasing and adding the value to the baseline processes using best practices.
- Support the full life cycle **SDLC** of cloud-based solutions including tools, technologies, and best practices for development, deployment, and maintenance of cloud hosted services.

Environment: Azure, Cloud Formation, Mesos, Grafana, Maven, Helm, Apache Tomcat, OpenShift, Chef ,Puppet, Terraform, Azure Pipeline, Prometheus, Kubernetes, Docker,ServiceNow, Nexus, Ansible, Splunk, Azure DevOps, SVN,Git, GitHub, ADO, Python, Shell, Kafka.

Global Relay, Vancouver, BC   **Feb 2017 – Mar 2019**
DevOps Cloud Engineer

- Worked on designing and deploying multitude applications using most of the **AWS** stack like **EC2, Route53, S3 buckets, RDS, Dynamo DB, SNS, SQS, IAM, VPC, EBS** and focusing on high-availability, fault tolerance and auto-scaling.
- Created **S3 buckets** and managed policies and utilized **S3** bucket and **Glacier** for object storage and archiving, Automated the creation of **EBS** snapshots and stored them **S3 buckets** after encryption.
- Implemented **Security groups** for inbound and outbound access, **network ACLs** for controlling traffic through subnets, **Internet Gateways, NAT instances** and **Route Tables** to direct network traffic and ensure secure zones for organizations in AWS cloud.
- Setup **Elastic Load Balancer** for distributing traffic among multiple **Web Logic servers** and Involved in deploying the content cloud platform on **Amazon Web Services** using **EC2, S3 and EBS.**
- Wrote **Python** Scripts to Automate **AWS** services which include **web servers, Kubernetes,ELB, CloudFront Distribution, database, EC2** and database security groups, S3 bucket and application configuration and deployed and configured **Elastic search(ELK)** for log analytics, full text search, application monitoring in integration with **AWS Lambda**.
- Implemented **LAMP** stack image in multitier **AWS instances** in different **subnets** in **Amazon VPC, attached ACL's** and **Security Groups** to maintain high security.

- Demonstrated experience with software development lifecycle methodologies such as **Agile/Scrum** and Waterfall, **Agile** Tools such as **Jira or Version One,** and with infrastructure automation tools such as **Chef, Puppet, Rundeck**, etc.
- Configured and managed Puppet **master server** and experience in updating and creating modules and delivering them to **puppet clients** and managing **SSL certificate** and executed the **CI Jenkins** build job for Java application builds. Using **GIT** (Stash) tool as the source code repositories for all projects and **Artifactory** for all builds release repository.
- Modelled and automated the End to End **Continuous Integration, Deployment, Delivery pipeline** which included building a Continuous Integration server utilizing tools like **Jenkins, Nexus, maven, Git,** and **SonarQube.**
- Created **Ansible Playbooks** in **Ansible Tower** and integrated **Ansible tower** with **Jenkins** to deploy code to different servers and also wrote **Ansible Playbooks** for installing **JBoss, WebLogic, Nginx** and **WebSphere** for configuring load balancers and fail over.
- Integrated **Terraform** with Ansible, Packer to create and Version the **AWS** Infrastructure, code deployment and orchestration with tools such as **Chef**, **Puppet**, Cloud Formation, and automation validation using Test Kitchen, **Ansible** and **Terraform**.
- Wrote **Terraform** template to create Load balancers**, EC2** instance with auto scaling and monitoring on the fly for different environments. Creating **an AWS RDS MySQL DB** cluster and connected to the database through an **Amazon RDS MySQL DB** Instance using the **Amazon RDS** Console.
- Developed **Splunk** Dashboards, searches and reporting to support various internal clients in Security, IT Operations and Application Development. Build performance dashboards through **Splunk**, Extra hop, writing Java script and customized scripts and worked with internal clients to develop requirements, relationships and value metrics.
- Responsible for setting up **WebLogic clusters, JDBC Data sources** and involved in monitoring error logs, troubleshooting and fixing the problems. Implemented **Docker -maven-plugin** in and maven pom to build **Docker images** for all Microservices and later used Docker file to build the Docker images from the java jar files.
- Created customized dashboards and automated configuration service and system performance and health monitoring by configuring **Nagios** monitoring server environment for tracking wizards and generating reports.
- Designed the infrastructure and administered the environment running over multiple **ESXi Hosts** and hundreds of virtual Machines using **vSphere Client.** Developed automation and deployment utilities using **Bash, PowerShell,** scheduled tasks and system backups using **Python** on **RHEL.**
- Experience in deployment of **JIRA** applications into existing/default VPC and configuring Amazon Elastic File System to sort the artifacts can be accessed through multiple nodes for High Availability. Involved in all phases of Software development life cycle (SDLC) and experienced with fast paced **Agile** methodologies.

Environment: Amazon Web Services (AWS) EC2, EC2, Helm, Route53, Kafka, S3 buckets, RDS, Dynamo DB, SNS, SQS, IAM, VPC, EBS, Ansible, Docker, Splunk, Prometheus Windows XP, Grafana, JIRA, Chef, Puppet, Kubernetes, OpenShift, Nexus, GIT, Maven, Ant, Jenkins, Apache Tomcat Web Sphere, SVN, ServiceNow, Python, Shell, XML, UNIX, Linux (RHEL).

TCS (Humana Insurance), Offshore	Aug 2015 – Jan 2017
DevOps/Build and Release Engineer	

- Automated the Build & Deployment environment end -to-end using **Jenkins**. Analyze and resolve conflicts related to merging of source code for **SVN** and **Git.**
- Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack Monitoring using **GitLab** CI/CD.
- Worked on **Chef** and created Chef Recipes and cookbooks. Created and Scheduling of Cron-Jobs such as backup, System Monitoring and removal of unnecessary files.
- Developed Continuous integration and Continuous Delivery process (CI/CD) pipeline with **Jenkins** on **Kubernetes** container environment, utilizing **Kubernetes** and **Docker** for the CI/CD pipeline to build, test and deploy.
- Managed infrastructure resources, like physical machines, VMs and even Docker containers using **Terraform** and created automated build procedures to ensure code is always ready for deployment in various cloud environments.
- Integrated **Kubernetes** cluster deployment using KOPS into the pipeline for deployments of the cluster with newly created Image to achieve Blue/ Green Deployments.
- Experience in maintaining/tuning/upgrading **Web logic/Web sphere/JBoss** and Web based applications like Java & **Tomcat/Apache**. Used Nagios as a monitoring tool to identify and resolve infrastructure problems before they affect critical processes and worked on Nagios Event handlers in case of automatic restart of failed applications and services.

- System Installation, configuration and upgrading, **VMware ESXi, vCenter and vSphere Clients, Web-logic**. Configured, managed **ESX VM's** with virtual center and VI client. Used **VMware VMotion** to eliminate application downtime from planned server maintenance by migrating running virtual machines between hosts.
- Applied visualization technology in managing multiple operating systems on **VMware** platforms as well as **Windows Hyper -V Manager**. Used monitoring tool **SPLUNK** for administration and maintenance operations on day-to-day basis for company network and systems working on Linux and Solaris Systems.
- Responsible for Building & configuring **Red hat Linux** systems over the network, implementing automated tasks through **crontab**, resolving tickets per priority basis. **RPM** and **YUM** package installations, patch and server management.
- Deployed **Puppet, Puppet** Dashboard, and **Puppet** DB for configuration management to existing infrastructure. Managed patches configuration, version control, service pack and reviews connectivity issues regarding security problems. Experience in doing the risk analysis, disaster management and root cause analysis.
- Managed and created run environments on Linux or windows platform using **Tomcat, Intel SOA express, ISS, glassfish** and other application servers. Installed and configured **DCHP** server to give IP leases to production server. Installation, Configuration and administration of **DNS, LDAP, NFS, NIS, NIS+** and send mail on **Redhat Linux/Debian Servers**.

Environment: Amazon Web Services (AWS) EC2, SVN, JBoss Ansible, Docker, Splunk, JIRA, Chef, Puppet, GIT, Maven, Ant, Jenkins, Git, Web logic, Web sphere, Apache Tomcat Web Sphere, Python, Shell, XML, UNIX, Linux (RHEL).