HILDA CP

**Sr. Cloud / DevOps Engineer**

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Professional Summary

Tech Skills

CI/CD: Jenkins, Azure DevOps, GitHub/Bit bucket, Maven, SonarQube, Nexus, Bamboo, JIRA

Cloud Platforms: AWS, OpenStack, Azure, PCF, Amazon **EC2** & **S3,** Google Cloud, Microsoft Azure, ELB, RDS, VPC, Direct Connect, Route 53, Cloud Trail, IAM, SNS, SQS, SWF.

Microservices: Docker, Kubernetes, AWS ECS, DTR, ECR, Mesos

Logging and Alerting: ELK, Splunk, Cloud Watch, SNS

Infrastructure Automation: Ansible, Terraform, Chef

Application Servers: Apache Tomcat, JBOSS, Web Logic, Web Sphere

Web Servers: Nginx, Apache HTTP, Apache TOMCAT

Operating Systems: Windows, Linux, CentOS, Ubuntu

Databases: Oracle 10g/11g/12c, Mongo DB, MySQL ,No SQL(MongoDB, DynamoDB), PostGreSQL, My SQL, MS Access

Scripting: Python, Bash/Shell,PowerShell, Ruby, JavaScript, Perl, Python, YAML, Json, Groovy, Java, Ruby, Bourne, NodeJS, HTML, CSS,XML

Virtualisation Tech : VMware vSphere, ESXi 5.x/4.x, ESX /3.x VMware Workstation, Oracle Virtual box

IDE Tools: ECLIPSE IDE, NETBEANS

Networking : DNS, **DHCP**, CISCO Routers/Switches, Palo alto, WAN, TCP/IP, NIS, NFS, **SMTP**, LAN, FTP/TFTP, **Juniper**, Cisco

Monitoring Tools: Nagios, Splunk, ELK, Cloud watch

Version Control Tools : GIT, CVS, SVN, Bit Bucket.

Container Tools: Docker, Kubernetes, OpenShift, Mesos

**7+ years of expertise in DevOps, CI/CD, Build Automation Strategies, AWS/Azure Cloud Platforms and Implementations, SCM,** **Linux/Windows Administration and containerization**

* Hands-on experience in DevOps methodologies with end to end conﬁguration, software development life cycle, source code management, automation build and deploy operational enhancements in Dev, QA, and Prod environments
* Expertise in AWS infrastructure, architecture, processes, operations, and deployment by utilizing AWS services like EC2, EBS, S3, VPC, RDS, SES, ELB, IAM, Auto Scaling, Cloud Front, Cloud Formation, Elastic Cache, Cloud Watch, Cloud Trail, SNS, Route 53, Lambda, Kinesis etc.
* Designed and configured **Azure** Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
* Setup full CI/CD pipelines 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.
* Deployed Kubernetes clusters on top of Servers using KOPS and managed local deployments in Kubernetes creating local clusters and deploying application containers and building/maintaining docker container clusters managed by Kubernetes and deployed **Kubernetes** using helm charts.
* Experience in writing Ansible custom playbooks, encryption of data by using Ansible Vault, mitigated the role-based access with Ansible tower to manage users, applications, configuration, mount points and packages
* Experience in creating **Chef Recipes**, automation tools and builds, and do an overall process improvement to any manual processes; Written multiple **cookbooks**in Chef using **Ruby** scripting language.
* Experience in creating new Build jobs, plugins installation and management, Test case integration, setting up master/slaves using Jenkins.
* Expertise with implementing automation strategies in with AWS cloud formation templates, **Terraform**, Azure ARM templates.
* Performed code migrations, merge, and version code associated development, testing and production environments.
* Experience working with container-based deployments using Docker, Kubernetes, and **Docker** Swarm, AWS EKS, Azure **AKS and Mesos.**
* Expertise in container orchestration using Kubernetes by orchestrate, scaling, deployment Docker containers and monitoring.
* Designed and configured Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
* Expertise in configuring, build, deployment and migration of Database Servers with Azure SQL, my SQL, Oracle DB, Mongo DB, PostgreSQL, DynamoDB and Cassandra.
* Included Mesos and Kafka for managing the real-time data streamlines under proper environments.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker.
* Experience working with monitoring tools like **Splunk, Nagios, Prometheus, Grafana, Cloud watch, New Relic** and **ELK**
* Experience in Design, Development and Implementation of REST APIs using Flask Framework and development and deployment of Cloud Applications using microservices architecture on platforms like GCP
* Experience with GCP computing services like App-Engine and Cloud Functions
* Proficient in Networking and configuring TCP/IP, DNS, NFS, SAMBA, LDAP, SSH, SSL, SFTP, SMTP, SNMP servers.
* Had very strong exposure using ansible automation in replacing the different components of **Openshift** like ECTD, MASTER, APP, INFRA.
* Included Mesos and Kafka for managing the real-time data streamlines under proper environments.
* Worked on Build and release of Cloud based products containing Linux and Windows environments, using **Power Shell and Python Scripting.**
* Strong experience with version control Systems like GIT, CVS, SVN (Subversion), Bit Bucket, Perforce, and IBM Rational Team Concert.
* Implemented high availability with Azure Classic and Azure Resource Manager deployment models.
* Expertise in **Python** scripting for writing **Ansible** playbooks, configuring, managing, test on AWS nodes, provisioning development, QA servers.
* Experience on **Spinnaker** for multi-cloud continuous delivery platform for releasing software changes
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer.
* Excellent knowledge in integrating and managing the quality control tools like SonarQube, manage the sonar rules, quality gates.
* Worked on Microsoft Azure (Public) Cloud to provide IaaS support to client. Create Virtual Machines through Power Shell Script and Azure Portal.
* Implemented Hadoop clusters on processing big data pipelines using Amazon EMR and Cloudera and managed the above resources using Apache Mesos.
* Experience in writing AWS Cloud foundation templates for provisioning custom VPC, Subnets, NAT ensuring successful deployment of Web applications, database templates. Also, deployed Secure VPC solutions using Network ACL, Security groups and VPC Peering.
* Worked with setting up a Mesos cluster along with the Marathon to support the orchestration.

**APPLE - California *Aug 2020 – Jan 2021***

***Sr. DevOps Engineer***

* Worked on On-Premise Cloud services along with Kubernetes, Ansible, Docker, Jenkins, Github, Splunk and Spinnaker.
* Worked on deployments of multiple on-prem applications with Ansible Scripts and Kubernetes.
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker
* Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
* Developed microservice on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Experience in Linux Administration, Configuration Management, Continuous Integration, Continuous Deployment, Release Management and Cloud Implementations.
* Participate in software and system performance analysis/tuning, capacity planning and forecasting demand.
* Worked with On- Premise tools like RIO for Continuous Integration, Shield for VIP deployments and Monsoon for VM Creation.
* Worked on OEL Migration of VM’s from OEL6 to OEL 7.
* Setting Pipeline projects on Jenkins for CI/CD process in groovy.
* Configured Multi-Branch pipeline jobs for lint, package and pushing Helm charts & build, tag and pushing Docker images to respective repositories using Makefiles.
* Configured SonarQube, developed custom pipeline scripts for automated testing and publishing code coverage and test analysis to SonarQube.
* Review and assess the risk of changes throughout the release process and ensure quality, while automating build and release functions in dev, QA, UAT and production environments.
* Using Kubernetes, automated application deployments and orchestrated deployment.
* Provided consistent environment using Kubernetes for deployment scaling and load balancing to the application in Dev environments, easing the code deployment pipeline by implementing Docker images - Worked on implementing the same for deploying into production environment.
* Used Twist Lock to scan the Docker image Vulnerabilities in order to align with the application security standards.
* Managed Kubernetes clusters for various Cloud platforms using Rancher for R&D
* Bring new automation technologies to improve the velocity and quality of our engineering efforts.
* Troubleshoot the build issue during the Jenkins build process and Setup various non-production environments for validating various applications.
* Managed Nexus, JFrog and Binary repositories for the maven artifacts, Docker Images, Helm charts and dependencies.
* Configured Ansible tower and developed Play books for automating resources – taking Jenkins backup, provisioning instances on VM Ware, GitLab runners’ backup etc.
* Developed an Ansible playbook for ELK cluster, implementing automated deployment and configuration.
* Manage network security using Load balancer, Auto-scaling, Security groups and NACLs.
* Developed Shell Scripts to setup CRON jobs for taking backups on Production Databases and manual deployment of the code to various environments.
* Setup Nagios and monitoring dashboards to monitor infrastructure Cloud servers and application services On - Premise.
* Writing Splunk Queries, Expertise in searching, monitoring, analyzing and visualizing Splunk logs.
* Experience in alert handling, standard availability and performance report generation. Experience in root cause analysis of post-production performance related issues through Splunk tool.
* Designing, optimizing and executing Splunk-based enterprise solutions.
* Used Spinnaker continuous delivery platform for releasing software changes with high velocity and confidence.
* Using Spinnaker’s built-in capabilities, we’ve set up a canary deployment which gradually routes requests to the new version of the application, and also include a stage that performs smoke tests for good measure.
* Handled high priority issues, worked as L3 production on-call support and resolved assigned PagerDuty incidents on time.
* Experience working within and across Agile teams to design, develop, test, implement and support solutions across a full-stack of developmental system tools and technologies.
* Involved with various stack holders in development, user acceptance, performance testing, production & disaster recovery process.

**PWC - Seattle *Dec 2018 – July 2020***

***Sr. DevOps/Cloud Engineer***

* Involved in designing and deploying a multitude application utilizing almost all the AWS stack (Including EC2, S3, RDS, Dynamo DB, SNS, ECS, CloudFront, CloudFormation) focusing on high-availability, fault tolerance, and auto-scaling. PostgreSQL Installation, Configuration, Migration, Upgrades and Patches.
* Provided high durability of the available data using data storage in the AWS S3 bucket, versioning S3, lifecycle policies. Also, web hosting the data from the S3 bucket by creating URLs.
* Developed environments of different applications on AWS by provisioning on EC2 instances using Docker, Bash and Terraform.
* Installed, configured and managed the RDBMS databases like MySQL, DB2, PostgreSQL, and NoSQL databases like MongoDB, DynamoDB.
* Experience in creating Docker Containers leveraging existing Linux Containers and AMI's in addition to creating Docker Containers from scratch.
* Containerized all the Ticketing related applications - Spring Boot Java and Node.js applications using Docker.
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS CloudWatch / Splunk.
* Experience in Designing, Architecting and implementing scalable cloud-based web applications using AWS and GCP.
* Set up a GCP Firewall rules in order to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Setup GCP Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Expertise in Automation, Build/Release Engineering and Software development involving cloud computing platforms like  Google Cloud (GCP). Setup Alerting and monitoring using Stack driver in GCP.
* Worked with Terraform key features such as Infrastructure as a code, Execution plans, Resource Graphs and Change Automation.
* Extensively worked on Jenkins to implement continuous integration (CI) and Continuous deployment (CD) processes.
* Administered Linux servers for several functions including managing Apache/Tomcat server, mail server, MySQL database and firewalls in both development and production
* Involved in the Code migration from TFS to GIT repo. TFS/GIT responsibilities include maintaining the version control system (branching model, security), creation and maintenance of build definitions\scripts,and the setup of work item areas and iterations.
* Azure DevOps for assisting the teams in building a Microsoft Azure Infrastructures and performing day-to-day operations including system monitoring, troubleshooting, problem identification. Troubleshoot issues across the entire Cloud stack: IaaS, PaaS, SaaS, security, performance, automation and delivery.
* Worked on Serverless services, created and configured HTTP Triggers in the Azure Functions with application insights for monitoring and performing load testing on the applications using the Visual Studio Team Services (VSTS) also called as Azure DevOps Services.
* Technical implementation of various ServiceNow modules such as Change Management, Incident Management, Problem Management, Service Catalog, Configuration Management, Reporting, Discovery and Integrations.
* Created Access Control Rules (ACL). Used scripting tools and ServiceNow functionality to create script for automating routine tasks being done in Service Now.
* Responsible for loading, manipulating and maintaining data between ServiceNow and other systems.
* Worked in cloud formation to automate AWS environment creation along with the ability to deploy AWS using bill scripts (Boto3 and AWS CLI) and automate solutions using python and shell scripting
* Worked closely with the development and operations organizations to implement the necessary tools and process to support the automation of builds, testing and deployments using Chef.
* Used Maven dependency management system to deploy snapshot and release artifacts to Nexus to share artifacts across projects and environments.
* Used New Relic APM, Catch Point, HP BPM tool to monitor Preproduction and production environment proactively and to identify application performance issue or availability.
* Developed custom Jenkins jobs/pipelines that contained Bash shell scripts utilizing the AWS CLI to automate infrastructure provisioning

**WHOLE FOODS - Austin Texas *May 2017 – Nov 2018***

***Azure Platform Engineer***

* Worked as Cloud Administrator on Microsoft Azure, involved in configuring virtual machines, storage accounts, resource groups.
* Azure DevOps Includes Deploying, Managing and Monitoring Azure Cloud Applications. DevOps cycles to reduces implementation time life cycles with benefits of increase ROI and performance Azure Portal, VSTS, GIT and DevOps project service continuous integration and continuous delivery CI/CD.
* Created solutions for service-to-service security in PCF and standards and patterns for deploying a spring boot data micro-service architecture to PCF.
* Implemented a CI/CD pipeline using Azure Devops (VSTS, TFS) in both cloud and on-premises with GIT, MS Build, Docker, Maven along with Jenkins plugins.
* Converted a monolithic app to microservices architecture using Spring Boot using 12 factor app methodology. Deployed, Scaled, Configured, wrote manifest file for various Microservices in PCF.
* Creating Storage Pool and Stripping of Disk for **Azure Virtual Machines**. Backup Configure and Restore Azure Virtual Machine using **Azure Backup**.
* Used Bash and Python included Boto3 to supplement automation provided by Terraform for tasks such as encrypting EBS volumes backing AMIs.
* Setup datadog monitoring across different servers and aws services and Created datadog dashboards for various applications and monitored real-time and historical metrics.
* Created system alerts using various datadog tools and alerted application teams based on the escalation matrix and Integrated Datadog with aws accounts.
* Developed Chef Recipes to configure, deploy and maintain software components of the existing infrastructure.
* Used Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
* To achieve Continuous Delivery goal on high scalable environment, used Docker coupled with load-balancing tool Nginx
* 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.
* Provided high durability of the available data using data storage in the AWS S3 bucket, versioning S3, lifecycle policies. Also, web hosting the data from the S3 bucket by creating URLs.
* Developed microservice on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Experience in database design and development using SQL Azure, Microsoft SQL Server, PostgreSQL.
* Configuring, Automating and Deploying Ansible for configuration management to existing Infrastructure.
* Design solution for various system components using Microsoft Azure.
* Enable syslog UPD & TCP input on Graylog and sent logs from datapower to graylog and eliminate need for unix hub &Filebeat components.
* Worked on the latest technologies (Filebeat, Elasticsearch, Logstash, Kibana, Graylog, ElastAlert) in building unified logging and building dashboard for logs from all the Linux servers.
* Experience on Deployment Automation & Containerization (Docker, Kubernetes). Architected and designed the data flow for the collapse of 4 legacy data warehouses into an AWS Data Lake.
* Virtualized the servers using Docker for the test environments and dev-environments needs, also configuration automation using Docker containers.
* Made use of gradle and maven for building java applications and written structured pom which can be consumed by Jenkins.
* Planning, designing and implementing the various solutions on windows server platform technologies and its components like Active directory, DFS shares, RDS Service and high availability cluster environment.
* Worked with GIT Configuration, Branching and Merging, resolved conflicts, Push changes etc.,
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, test deploy.
* Served as the lead PowerShell developer in hundreds of Windows based migration and automation projects
* Authored several scripts leveraging VMware’s Power CLI and Windows PowerShell to aid with capacity planning and monitoring of the virtualization infrastructure.
* Setup Continuous integration with Jenkins and make use of wide range of plugins available to setup smooth developer friendly workflows.
* Install, configure, test, monitor, upgrade, and tune new and existing PostgreSQL databases
* Setup Graylog instances on one - ops/cloud for unified logging for DataPower logs.
* Working with DevOps practices using AWS, Elastic Bean stalk and Docker with Kubernetes.
* Efficiently carried out DBA responsibilities in planning migration activities from DB2 to SQL server and SQL to ORACLE/MY SQL (RDBMS Databases) in migration.

**CVS Health – Irving, Texas *Apr 2015 – Apr 2017***

***DevOps/AWS Engineer***

* Utilized AWS CLI to automate backups of ephemeral data-stores to S3 buckets, EBS and create AMIs for mission-critical production servers as backups and used AWS Beanstalk for deploying and scaling web applications.
* Used existing cookbooks from Chef Market place and customizing the recipes with respect to each VM.
* Administered build servers like Team City, Team Foundation Server, Bamboo.
* Work with the various agile development teams to standardize branching and tagging of code in our repository and maintain code base integrity using Subversion (SVN), Git, Bitbucket and TFS.
* Implemented Ansible to manage all existing servers and automate the build/configuration of new servers.
* Worked with DBA team for database performance issues, network related issue on Linux / Unix Servers and with vendors for hardware related issues.
* Created custom fully automated solution using Windows PowerShell to export individual mailboxes from the Exchange environment and save them as separate PST files
* Povisioned load balancer, auto-scaling group and launch configuration for micro services using Ansible.
* Monitored the Hadoop Cluster using Nagios and configured them efficiently.
* Wrapper developed in Python for instantiating multi-threaded application and running with other applications
* Created automation and deployment templates for relational and NOSQL databases (standalone and RDS), including MSSQL, MYSQL, in AWS.
* Profoundly did Continuous integration using Team city and Bamboo, which requires developers to integrate code into a shared repository several times a day.
* Scripting infrastructure and (Linux) machine provisioning from scratch using tools such as bash and the Ruby AWS-SDK.
* Strong experience in setting up the entire Chef Infrastructure from scratch.
* Developed Shell/Batch/Python Scripts for automation purpose of the build and release process.

**VEDA SOLUTIONS Hyderabad *Mar 2014 – Mar 2015***

***Build & Release Engineer***

* Responsible for managing and supporting Continuous Integration (CI) using Jenkins
* Integrated Jenkins with ServiceNow through API and created schema to store the build Information.
* Migrated all operations files and scripts to GitHub Enterprise installation to optimize deployment and allow tracking of configurations and scripts within GitHub
* Maintained build related scripts developed in ANT, Python and shell. Modified build configuration files including Ant’s build.xml.
* Shell scripts for Bash shell to automate deployments and environment configuration
* Possessing strong knowledge in Ant and Maven build tools and implementing it with Jenkins, Anthill Pro.
* Involved in Design Development and Implementation of business Applications using Java/J2EE Technologies.
* Responsible for Administering and maintaining Jenkins and Jenkins slaves on windows and Linux (Debian/Ubuntu). Created many Jenkins slaves and setup jobs on master to run on slaves.

**Newgen Software Tech Ltd - Chennai, India.  *Feb 2012 – Feb 2014***

***Linux System Administrator***

* Monitor live traffic, logs, Memory utilization, disk utilization and other factors important for deployment using Nagios.
* Deployed latest patches for, Linux and Application servers, performed Red Hat Linux Kernel Tuning
* Implemented rapid-provisioning and life-cycle management using aws, chef, Jenkins and ruby/bash scripts.
* Created and optimized Unix shell scripts using Korn and Bash.
* Worked with KVM Hypervisor to install, configure and maintain Red Hat Linux.
* Installation, Configuration and administration of DNS, LDAP, NFS, NIS, NIS and Sendmail on RedHat Linux/Debian Servers.
* Worked on MSI Package Builder to wraps normal installer packages into a Windows Installer package with the aim of unattended installation over the network via group policy.
* Install and configure DHCP, DNS, web Apache, IIS, mail SMTP, IMAP, POP3 , and file servers on AIX and Red Hat Enterprise Linux servers
* 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.

**Osmania University – MJCET Hyderabad *June 2006 – Oct 2009***

***Assistant Professor (Computer Science & Engineering Dept)***

* 3.5 years of Experience in Teaching all 4-year Batchelor students in Computer Science & Engineering Department.
* Acted as the In-charge of B.E. (CSE) including responsibilities like allocating workloads, designing schedules for faculty members.
* Taught subjects such as Operating Systems, Computer Architecture, Data structures, Principles of programming languages, Network security and Software Engineering.
* Experience in teaching Scripting languages such as VB Scripts, Java, C, C++.
* Experience in handling database design, administration and programming SQL Server, Oracle, RDBMS and PL/SQL.
* Delivered a seminar on Distributed Database, at National Seminar on SMART IT APPLICATIONS (NSSITA -2011), conducted by & at Telangana University, 2011.
* Delivered a seminar on Categorical Data, at the National Conference on Networking & Data Management Technologies (NCNDMT’ 11), conducted by Institute of Public Enterprise (IPE), Hyderabad, 2011.